TESTING
NVLAP LAB CODE 600118-0

SAR TEST REPORT

No. I20Z62335-SEM03

For

TCL Communication Ltd.

5G NR/LTE/WCDMA/GSM mobile phone

Model Name: T810S

with

Hardware Version: 03

Software Version: v3.0.3CD0

FCC ID: 2ACCJN050

Issued Date: 2021-2-20

Note:

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Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
I20Z62335-SEM03	Rev.0	2021-2-9	Initial creation of test report
I20Z62335-SEM03	Rev.1	2021-2-20	1. Revise FCC ID and SW version on first page. 2. Revise SW version on page 14.

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1 Test Laboratory

1.1 Testing Location

Company Name:	CTTL
Address:	No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

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

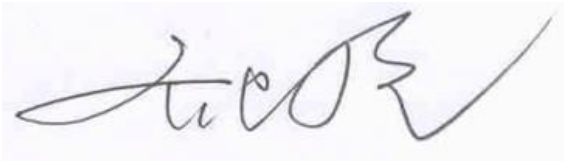
1.3 Project Data

Project Leader:	Qi Dianyuan
Test Engineer:	Lin Xiaojun
Testing Start Date:	January 23, 2020
Testing End Date:	February 5, 2020

1.4 Signature

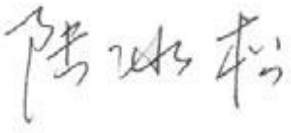
Lin Xiaojun

(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 TCL Communication Ltd. 5G NR/LTE/WCDMA/GSM mobile phone T810S is as follows:

Table 2.1: Highest Reported SAR (1g)

Exposure Configuration	Technology Band	Highest Reported SAR 1g(W/kg)	Equipment Class
Head (Separation Distance 0mm)	GSM850	**1.31**	PCE
	GSM1900	**1.23**	
	WCDMA1900	**1.17**	
	WCDMA1700	**1.31**	
	WCDMA 850	**1.22**	
	LTE Band2	**1.28**	
	LTE Band4	**1.30**	
	LTE Band5	**1.28**	
	LTE Band7	**0.26**	
	LTE Band12	**1.28**	
	LTE Band13	**1.24**	
	LTE Band14	**1.22**	
	LTE Band25	**1.35**	
	LTE Band26	**1.16**	
	LTE Band30	**0.09**	
	LTE Band41	**0.18**	
	LTE Band48	**1.16**	
	LTE Band66	**1.38**	
	LTE Band71	**1.33**	
	5G n2(NSA)-ANT3	**0.50**	
	5G n2(NSA)-ANT2	**0.09**	
	5G n5(NSA)	**0.53**	
	5G n7(NSA)	**0.15**	
	5G n41(NSA)	**0.30**	
	5G n66(SA/NSA)-ANT3	**1.21**	
	5G n66(SA/NSA)-ANT2	**0.12**	
	5G n71(SA/NSA)	**1.00**	
	WLAN 2.4 GHz	**0.59**	DTS
	WLAN 5 GHz	**0.18**	NII
Body (Separation Distance 10mm)	GSM850	**0.43**	PCE
	GSM1900	**1.19**	
	WCDMA1900	**1.30**	
	WCDMA1700	**0.61**	
	WCDMA 850	**0.56**	
	LTE Band2	**0.76**	
	LTE Band4	**0.95**	
	LTE Band5	**0.45**	
	LTE Band7	**1.17**	
	LTE Band12	**0.49**	
	LTE Band13	**0.44**	
	LTE Band14	**0.38**	

	LTE Band25	**1.17**	
	LTE Band26	**0.37**	
	LTE Band30	**0.70**	
	LTE Band41	**0.69**	
	LTE Band48	**1.19**	
	LTE Band66	**1.38**	
	LTE Band71	**0.30**	
	5G n2(NSA)-ANT3	**0.51**	
	5G n2(NSA)-ANT2	**0.67**	
	5G n5(NSA)	**0.47**	
	5G n7(NSA)	**0.52**	
	5G n41(NSA)	**0.52**	
	5G n66(SA/NSA)-ANT3	**0.42**	
	5G n66(SA/NSA)-ANT2	**0.45**	
	5G n71(SA/NSA)	**0.36**	
	WLAN 2.4 GHz	**1.26**	DTS
	WLAN 5 GHz	**1.34**	NII

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.

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 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**: 1.38 W/kg(1g).**

Remark：

This device supports both LTE B17 and B/12.Since the supported frequency span for LTE B17 falls completely within the supports frequency span for LTE B12, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE 12.

Table 2.2: The sum of SAR values for Main antenna + WiFi-2.4G

	Position	Main antenna	WiFi-2.4G	Sum
Highest SAR value for Head	Right head, Cheek (LTE Band66)	1.38	0.03	**1.41**
Highest SAR value for Body	Rear 10mm (UL CA:2A-4A)	1.30	0.20	**1.50**

Table 2.3: The sum of SAR values for Main antenna + WiFi-5G

	Position	Main antenna	WiFi-5G	Sum
Highest SAR value for Head	Right head, Cheek (LTE Band66)	1.38	0.10	**1.48**
Highest SAR value for Body	Rear 10mm (UL CA:2A-4A)	1.30	0.10	**1.40**

Table 2.4: The sum of SAR values for Main antenna +BT

	Position	Main antenna	BT	Sum
Highest SAR value for Head	Right head, Cheek (LTE Band66)	1.38	<0.01	**1.38**
Highest SAR value for Body	Left 10mm (LTE Band66)	1.38	<0.01	**1.38**

Table 2.5: The sum of SAR values for Main antenna + Wifi5G + BT

	Position	Main antenna	WiFi-5G	BT	Sum
Highest SAR value for Head	Right head, Cheek (LTE Band66)	1.38	0.10	<0.01	**1.48**
Highest SAR value for Body	Rear 10mm (UL CA:2A-4A)	1.30	0.10	<0.01	**1.40**

Table 2.6: The SAR values for UL CA

	LTE	LTE	Mode	Position	Reported SAR 1g(W/kg)
UL CA	LTE Band 2 (A3)	LTE Band 4 (A2)	Head	Right Cheek	**0.45 (0.42+0.03)**
			Body	Rear 10mm	**1.30 (0.67+0.63)**
	LTE Band 2 (A3)	LTE Band 5	Head	Right Cheek	**0.55 (0.42+0.13)**
			Body	Rear 10mm	**1.12 (0.67+0.45)**
	LTE Band 2 (A3)	LTE Band 12	Head	Right Cheek	**0.59 (0.42+0.17)**
			Body	Left 10mm	**1.10 (0.65+0.45)**
	LTE Band 2 (A2)	LTE Band 4 (A3)	Head	Right Cheek	**0.47 (0.04+0.43)**
			Body	Rear 10mm	**0.59 (0.44+0.15)**
	LTE Band 2 (A2)	LTE Band 7	Head	Left Cheek	**0.32 (0.06+0.26)**
			Body	Rear 10mm	**0.70 (0.44+0.26)**
	LTE Band 4 (A3)	LTE Band 5	Head	Right Cheek	**0.56 (0.43+0.13)**
			Body	Rear 10mm	**0.60 (0.15+0.45)**
	LTE Band 4 (A3)	LTE Band 12	Head	Right Cheek	**0.60 (0.43+0.17)**
			Body	Front 10mm	**0.62 (0.13+0.49)**
	LTE Band 4 (A2)	LTE Band 7	Head	Left Cheek	**0.31 (0.05+0.26)**
			Body	Rear 10mm	**0.89 (0.63+0.26)**
	LTE Band 5	LTE Band 7	Head	Left Cheek	**0.34 (0.08+0.26)**
			Body	Rear 10mm	**0.71 (0.45+0.26)**

Table 2.7: The SAR values for ENDC

	LTE	NR	Mode	Position	Reported SAR 1g(W/kg)
ENDC	LTE Band 2 (A3)	n5	Head	Right Cheek	**0.95 (0.42+0.53)**
			Body	Rear 10mm	**1.09 (0.67+0.42)**
	LTE Band 2 (A3)	n66 (A2)	Head	Right Cheek	**0.54 (0.42+0.12)**
			Body	Rear 10mm	**1.12 (0.67+0.45)**
	LTE Band 2 (A3)	n71	Head	Right Cheek	**0.86 (0.42+0.44)**
			Body	Rear 10mm	**1.01 (0.67+0.34)**
	LTE Band 2 (A2)	n41	Head	Left Cheek	**0.36 (0.06+0.30)**
			Body	Bottom 10mm	**1.00 (0.57+0.43)**
	LTE Band 5	n2 (A3)	Head	Right Cheek	**0.63 (0.13+0.50)**
			Body	Rear 10mm	**0.96 (0.45+0.51)**
	LTE Band 5	n66 (A3)	Head	Right Cheek	**0.58 (0.13+0.45)**
			Body	Rear 10mm	**0.75 (0.45+0.30)**
	LTE Band 7	n5	Head	Right Cheek	**0.67 (0.14+0.53)**
			Body	Rear 10mm	**0.68 (0.26+0.42)**
	LTE Band 7	n66 (A2)	Head	Left Cheek	**0.35 (0.26+0.09)**
			Body	Rear 10mm	**0.71 (0.26+0.45)**
	LTE Band 7	n71	Head	Left Cheek	**0.59 (0.26+0.33)**
			Body	Rear 10mm	**0.60 (0.26+0.34)**
	LTE Band 12	n2 (A3)	Head	Right Cheek	**0.67 (0.17+0.50)**
			Body	Rear 10mm	**0.89 (0.38+0.51)**
	LTE Band 12	n66 (A3)	Head	Right Cheek	**0.62 (0.17+0.45)**
			Body	Left 10mm	**0.87 (0.45+0.42)**
	LTE Band 13	n66 (A3)	Head	Right Cheek	**0.56 (0.11+0.45)**
			Body	Left 10mm	**0.78 (0.36+0.42)**
	LTE Band 30	n2 (A2)	Head	Left Cheek	**0.17 (0.09+0.08)**
			Body	Rear 10mm	**0.95 (0.63+0.32)**
	LTE Band 30	n5	Head	Right Cheek	**0.58 (0.05+0.53)**
			Body	Rear 10mm	**1.05 (0.63+0.42)**
	LTE Band 30	n66 (A2)	Head	Left Cheek	**0.18 (0.09+0.09)**
			Body	Rear 10mm	**1.08 (0.63+0.45)**
	LTE Band 66 (A3)	n2 (A2)	Head	Right Cheek	**0.53 (0.44+0.09)**
			Body	Rear 10mm	**0.65 (0.33+0.32)**
	LTE Band 66 (A3)	n5	Head	Right Cheek	**0.97 (0.44+0.53)**
			Body	Rear 10mm	**0.75 (0.33+0.42)**
	LTE Band 66 (A3)	n71	Head	Right Cheek	**0.88 (0.44+0.44)**
			Body	Rear 10mm	**0.67 (0.33+0.34)**
	LTE Band 66 (A2)	n7	Head	Left Cheek	**0.20 (0.05+0.15)**
			Body	Rear 10mm	**1.01 (0.49+0.52)**
	LTE Band 66 (A2)	n41	Head	Left Cheek	**0.35 (0.05+0.30)**
			Body	Bottom 10mm	**1.06 (0.63+0.43)**

According to the above tables, the highest sum of reported SAR values is **1.50 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 2.8: 0mm Reported SAR for phablet

Exposure Configuration	Technology Band	Highest Reported SAR 10g(W/kg)	Limited SAR 10g(W/kg)
10-g extremity SAR (Separation Distance 0mm)	WCDMA1900	3.81	4.0
	LTE Band66	3.30	
	WiFi2450-Trasmit with WWAN	0.23	
	WiFi5G-Trasmit alone	3.34	
	WiFi5G-Trasmit with WWAN	0.24	

3 Client Information

3.1 Applicant Information

Company Name:	TCL Communication Ltd.
Address/Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person:	Gong Zhizhou
Contact Email:	zhizhou.gong@tcl.com
Telephone:	0086-755-36611722

3.2 Manufacturer Information

Company Name:	TCL Communication Ltd.
Address/Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person:	Gong Zhizhou
Contact Email:	zhizhou.gong@tcl.com
Telephone:	0086-755-36611722

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

4.1 About EUT

Description:	5G NR/LTE/WCDMA/GSM mobile phone
Model name:	T810S
Operating mode(s):	GSM850/900/1800/1900, WCDMA B1/B2/B4/B5/B8 LTEBand1/2/3/4/5/7/8/12/13/14/17/20/25/26/28/29/30/38/40/41/48/66/71 BT, Wi-Fi(2.4G/5G) / 5G NR n2/n5/n7/n41/n66/n71
Tested Tx Frequency:	824 – 849 MHz (GSM 850)
	1850 – 1910 MHz (GSM 1900)
	824 – 849 MHz (WCDMA 850 Band V)
	1850 – 1910 MHz (WCDMA1900 Band IV)
	1710-1755 MHz (WCDMA1700 Band II)
	1850.7 – 1909.3 MHz (LTE Band 2)
	1710.7 – 1754.3 MHz (LTE Band 4)
	824.7 – 848.3 MHz (LTE Band 5)
	2500 – 2570 MHz (LTE Band 7)
	699.7 – 715.3 MHz (LTE Band 12)
	779.5 –784.5 MHz (LTE Band 13)
	779.5 –784.5 MHz (LTE Band 14)
	1850.7 –1914.3 MHz (LTE Band 25)
	814.7–848.3 MHz (LTE Band 26)
	2307.5–2312.5 MHz (LTE Band 30)
	2498.5 – 2687.5 MHz (LTE Band41)
	3552.5 – 3697.5 MHz (LTE Band48)
	1710.7 –1779.3 MHz (LTE Band 66)
	665.5 –695.5 MHz (LTE Band 71)
	2412 – 2462 MHz (Wi-Fi 2.4G)
	5180 – 5240 MHz (Wi-Fi 5.2G)
	5260 – 5320 MHz (Wi-Fi 5.3G)
	5500 – 5720 MHz (Wi-Fi 5.5G)
	5745 – 5825 MHz (Wi-Fi 5.8G)
	2400 – 2483.5 MHz (Bluetooth)
	1850 – 1910 MHz(n2)
	824 – 849 MHz(n5)
	2500 – 2570 MHz(n7)
	2496 – 2690 MHz(n41)
	1710 – 1780 MHz(n66)
	663 – 698 MHz(n71)
	13.56 MHz(NFC)
GPRS/EGPRS Multislot Class:	12
Test device production information:	Production unit
Device type:	Portable device
Antenna type:	Integrated antenna
Hotspot mode:	Support

4.2 Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	015920000200941	03	v3.0.3CD0
EUT2	015920000201170	03	v3.0.3CD0
EUT3	015920000201089	03	v3.0.3CD0
EUT4	015920000201006	03	v3.0.3CD0
EUT5	015920000201261	03	v3.0.3CD0
EUT6	015920000201279	03	v3.0.3CD0
EUT7	015920000200982	03	v3.0.3CD0
EUT8	015920000200958	03	v3.0.3CD0
EUT9	015920000200420	03	v3.0.3CD0
EUT10	015920000200818	03	v3.0.3CD0
EUT11	015920000200446	03	v3.0.3CD0

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

Note: It is performed to do SAR with the EUT1~8 and conducted power with the EUT9~11.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	TLp043D1	/	BYD
AE2	Battery	TLp043D7	/	VEKEN
AE3	Headset	WH70	/	Lianchuang

*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

TCB Workshop Nov 2017:RF Exposure Procedures (Carrier Aggregation SAR)

TCB Workshop Nov 2019:RF Exposure Policy Updates (5G NR NSA Sub 6G SAR)

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 head 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

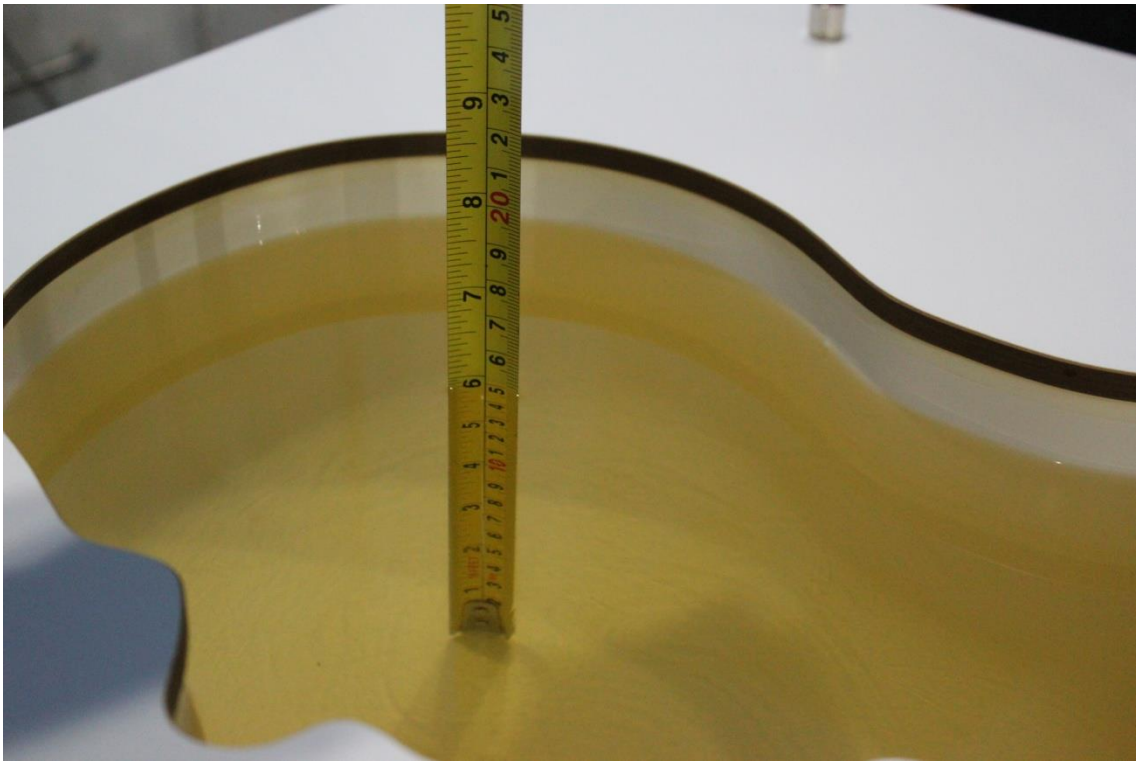
Frequency(MHz)	Liquid Type	Conductivity(σ)	± 5% Range	Permittivity(ε)	± 5% Range
750	Head	0.89	0.85～0.93	41.94	39.8～44.0
835	Head	0.90	0.86～0.95	41.5	39.4～43.6
1750	Head	1.37	1.30～1.44	40.08	38.1～42.1
1900	Head	1.40	1.33～1.47	40.0	38.0～42.0
2450	Head	1.67	1.59～1.75	39.47	37.5～41.4
2600	Head	1.96	1.86～2.06	39.01	37.1～41.0
3500	Head	2.91	2.76～3.06	37.93	36.03～39.83
5250	Head	4.66	4.43～4.89	35.99	34.19～37.79
5600	Head	5.07	4.82～5.32	35.53	33.75～37.31
5750	Head	5.27	5.01～5.53	35.3	33.5～37.1

7.2 Dielectric Performance

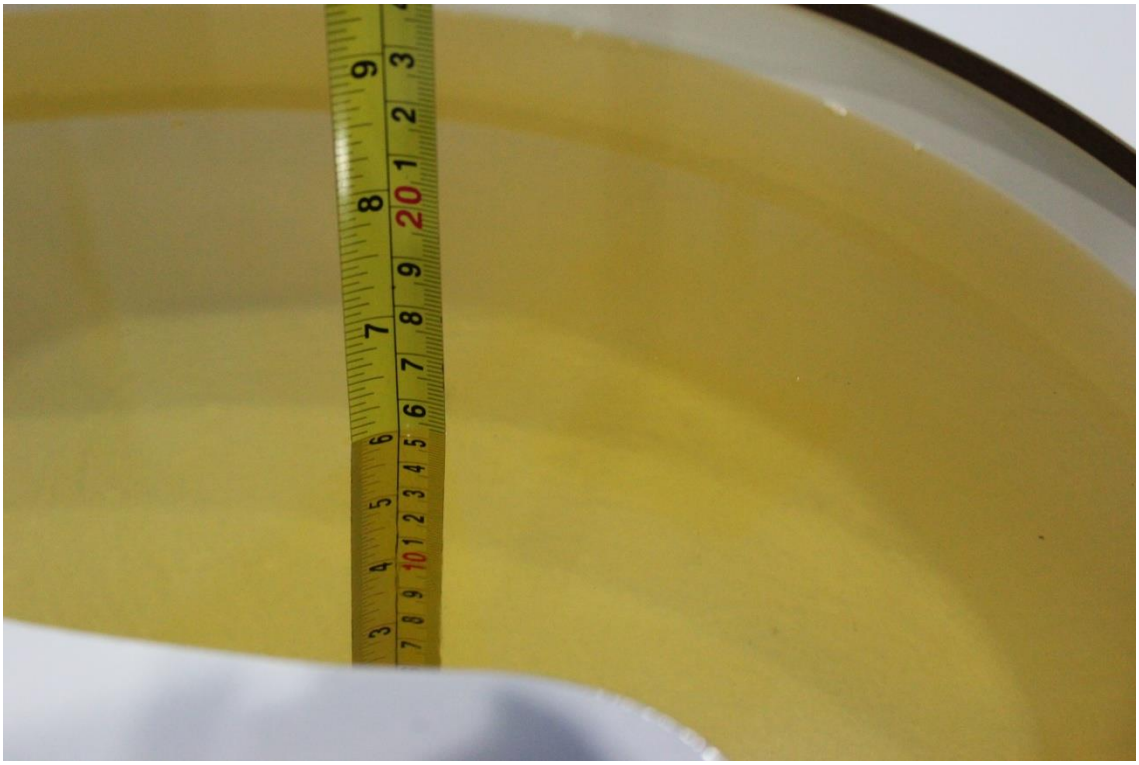
Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity ε	Drift (%)	Conductivity σ (S/m)	Drift (%)
2021-1-23	Head	750 MHz	42.07	0.31	0.897	0.79
2021-1-24	Head	835 MHz	41.45	-0.12	0.884	-1.78
2021-1-25	Head	835 MHz	40.8	-1.69	0.889	-1.22
2021-1-26	Head	1750 MHz	39.44	-1.60	1.374	0.29
2021-1-27	Head	1750 MHz	40.1	0.05	1.38	0.73
2021-1-28	Head	1900 MHz	39.33	-1.68	1.382	-1.29
2021-1-29	Head	1900 MHz	39.37	-1.58	1.4	0.00
2021-1-30	Head	2300 MHz	39.52	0.05	1.682	0.72
2021-1-31	Head	2450 MHz	38.58	-1.58	1.8	0.00
2021-2-1	Head	2600 MHz	38.46	-1.41	1.956	-0.20
2021-2-2	Head	3600 MHz	39.6	1.51	1.974	0.71
2021-2-3	Head	5250 MHz	35.58	-0.97	4.667	-0.91
2020-2-4	Head	5600 MHz	36.18	1.83	5.097	0.53
2020-2-5	Head	5750 MHz	35.35	-0.03	5.324	1.99

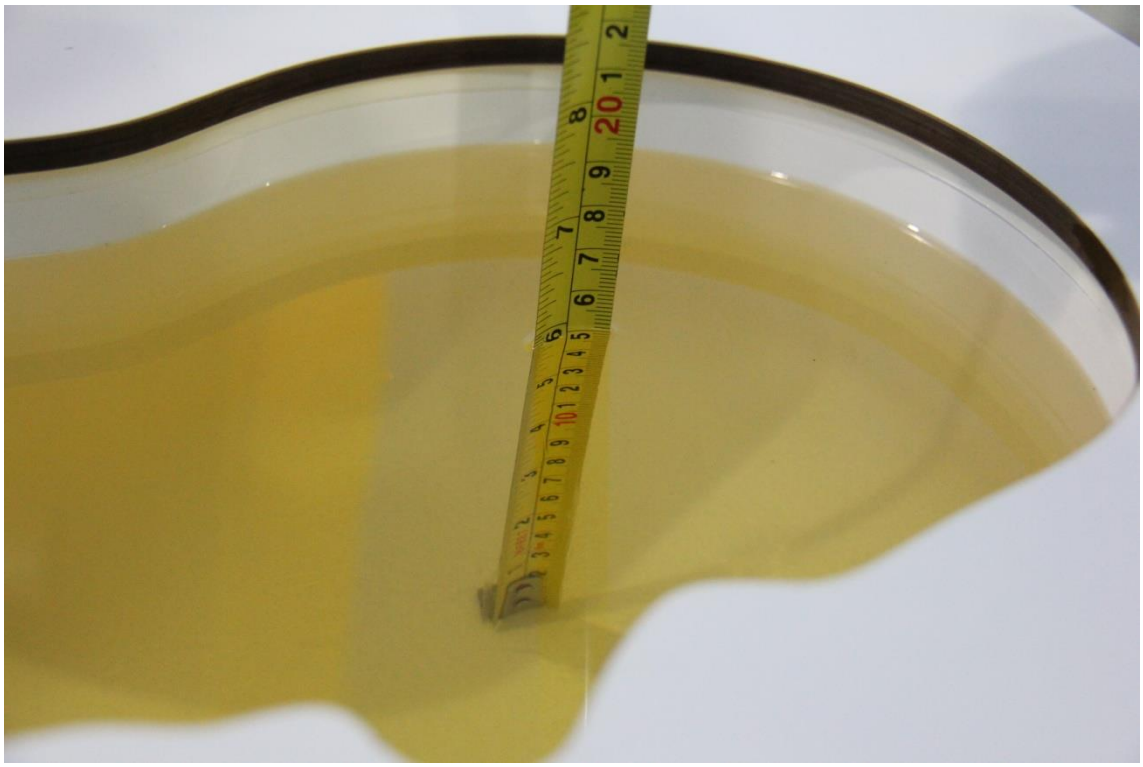
Note: The liquid temperature is 22.0°C



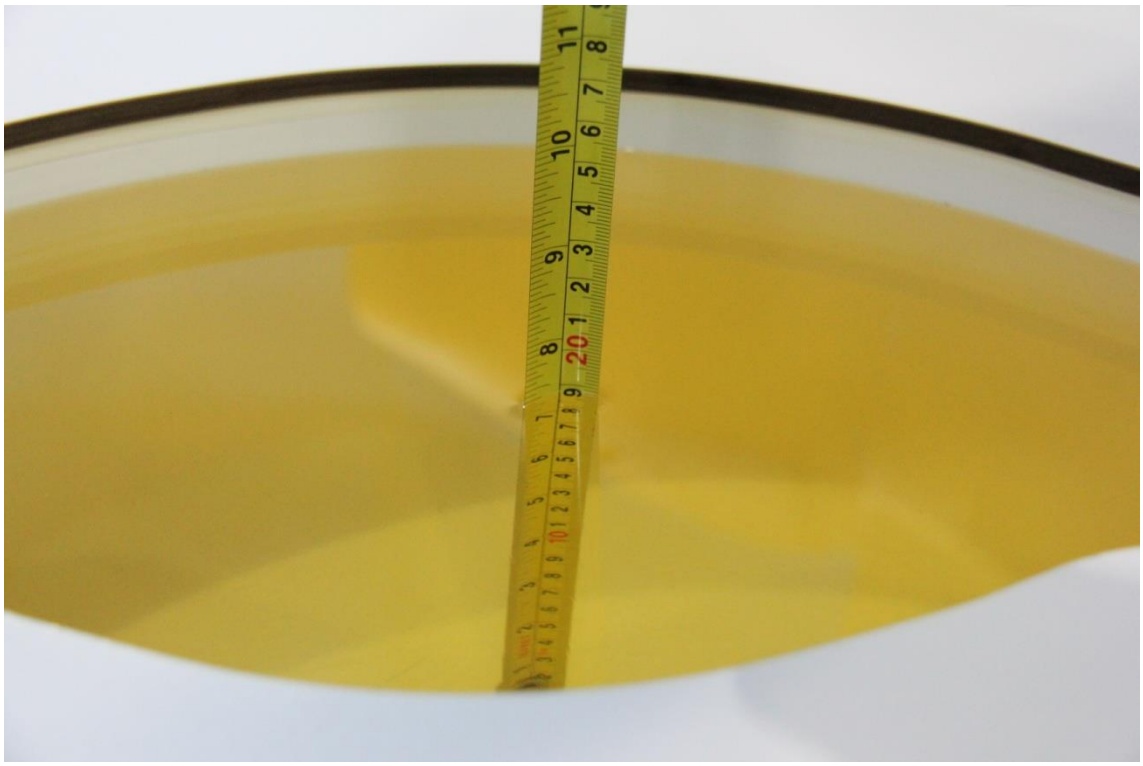
Picture 7-1 Liquid depth in the Head Phantom (750MHz)



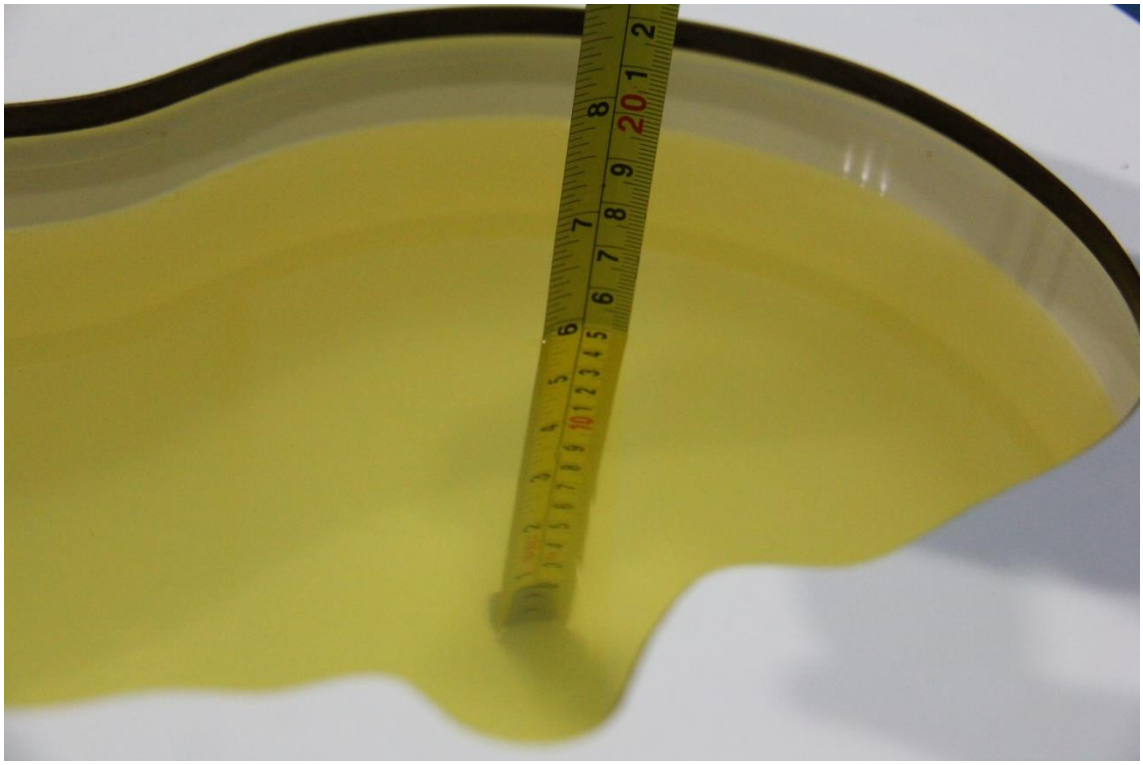
Picture 7-2 Liquid depth in the Flat Phantom (750MHz)



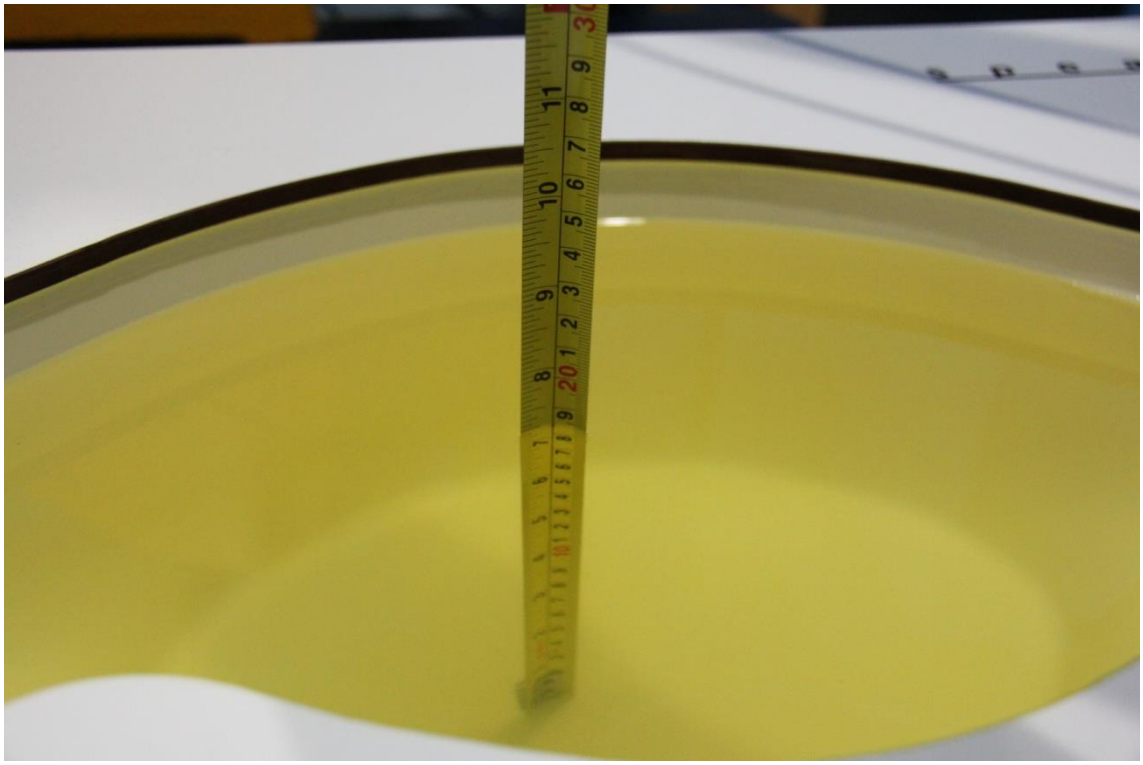
Picture 7-3 Liquid depth in the Head Phantom (835 MHz)



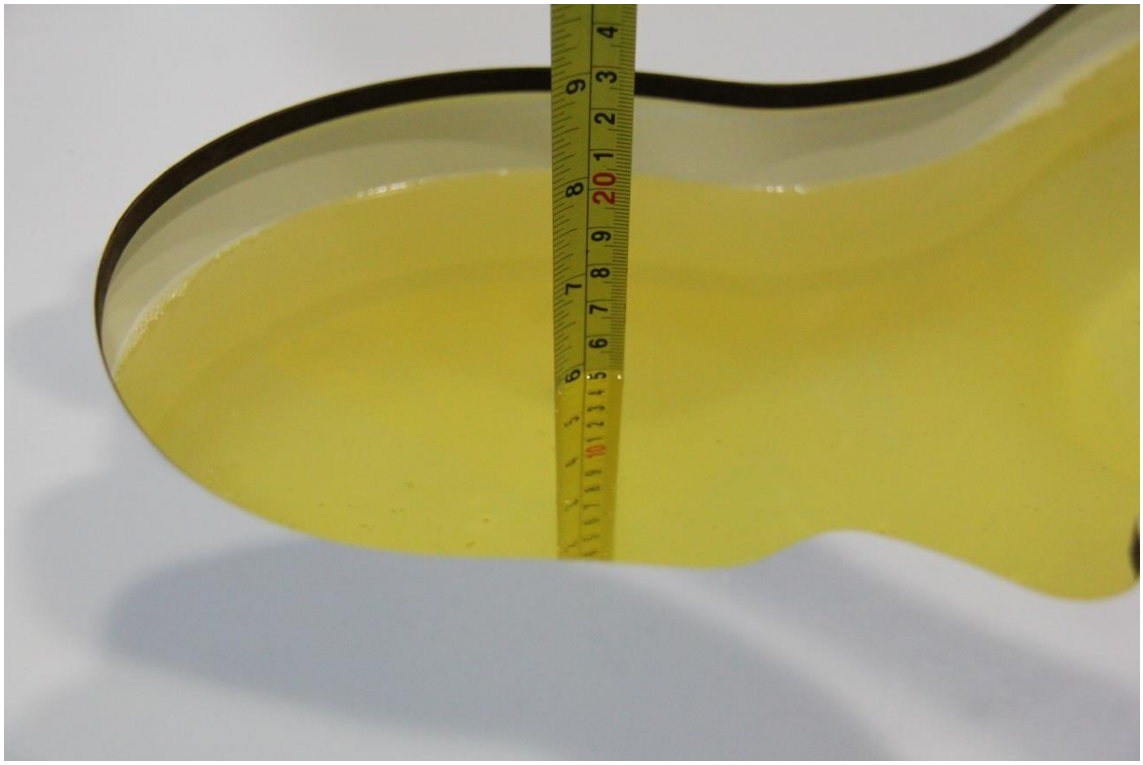
Picture 7-4 Liquid depth in the Flat Phantom (835 MHz)



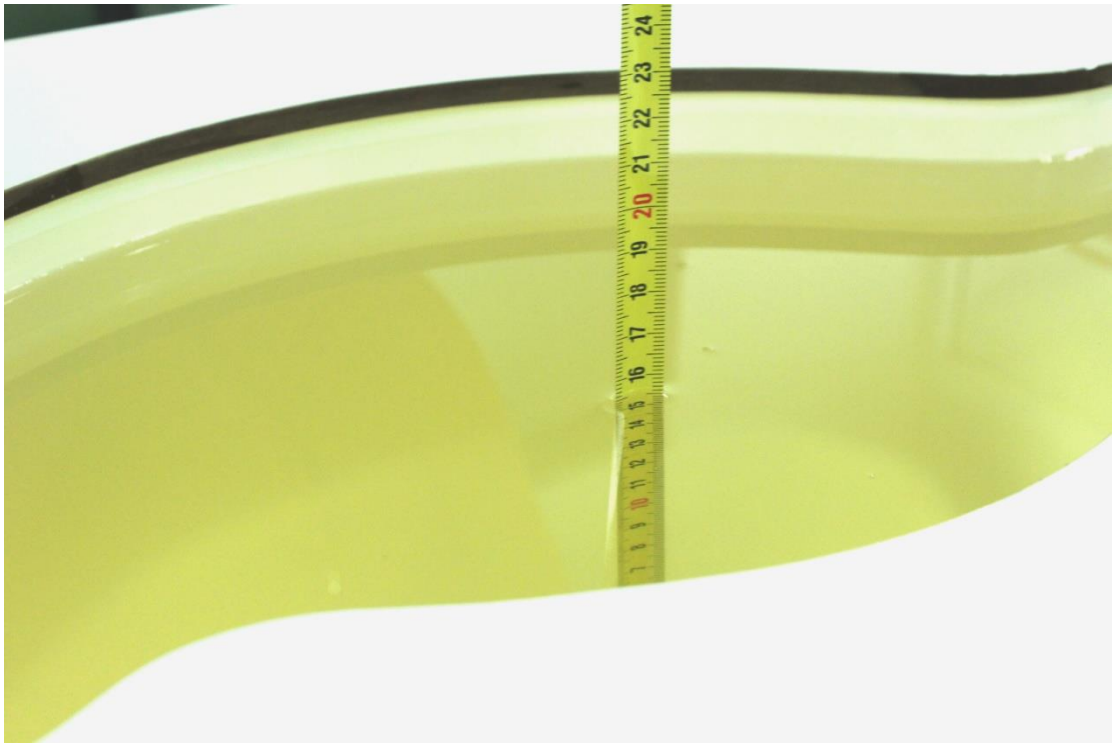
Picture 7-5 Liquid depth in the Head Phantom (1900 MHz)



Picture 7-6 Liquid depth in the Flat Phantom (1900MHz)

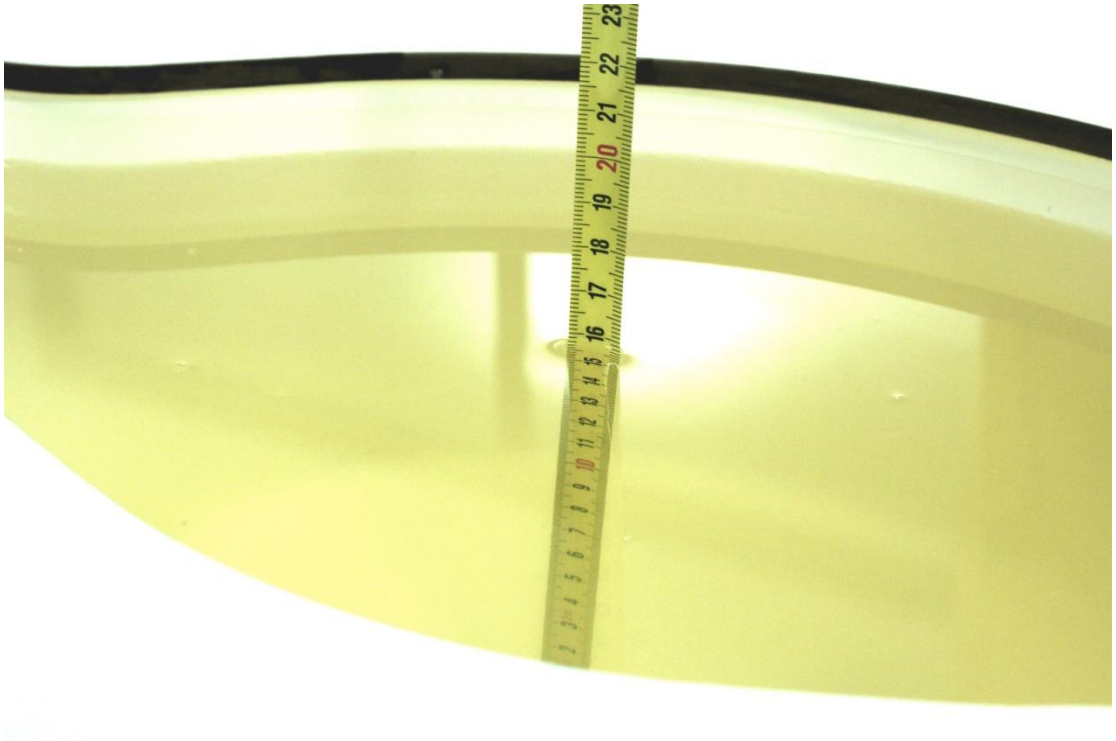


Picture 7-7 Liquid depth in the Head Phantom (2450MHz)

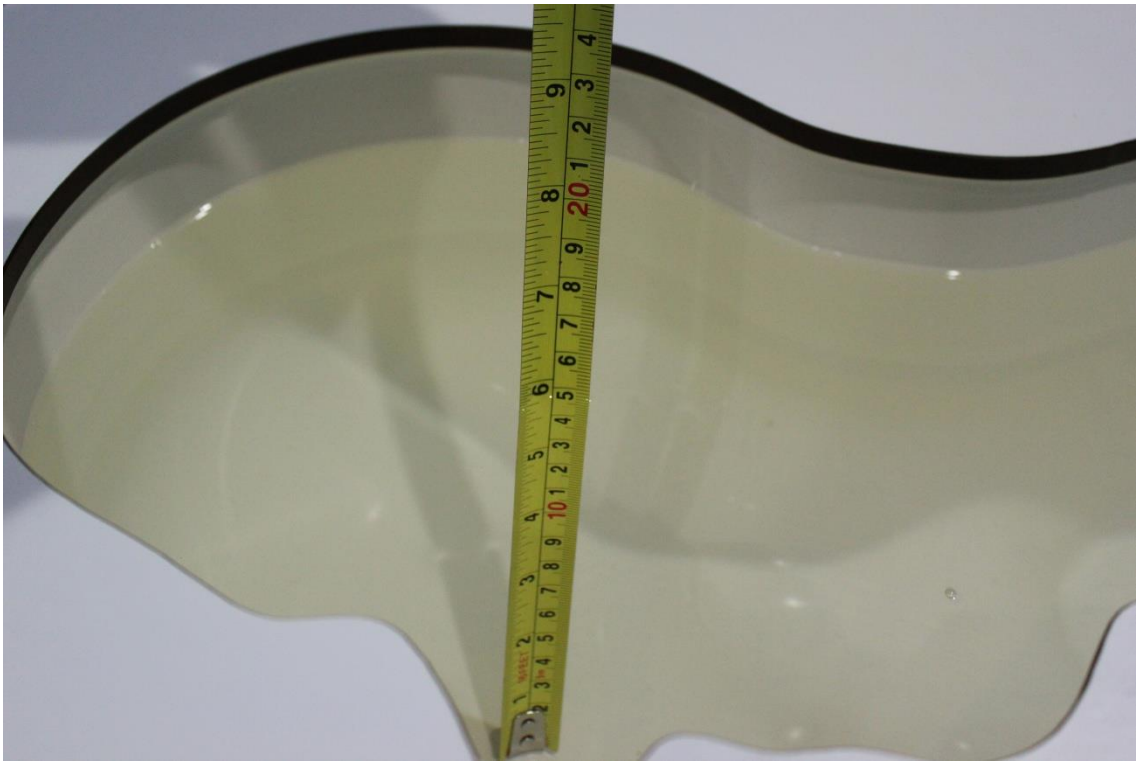


Picture 7-8 Liquid depth in the Flat Phantom (2450MHz)

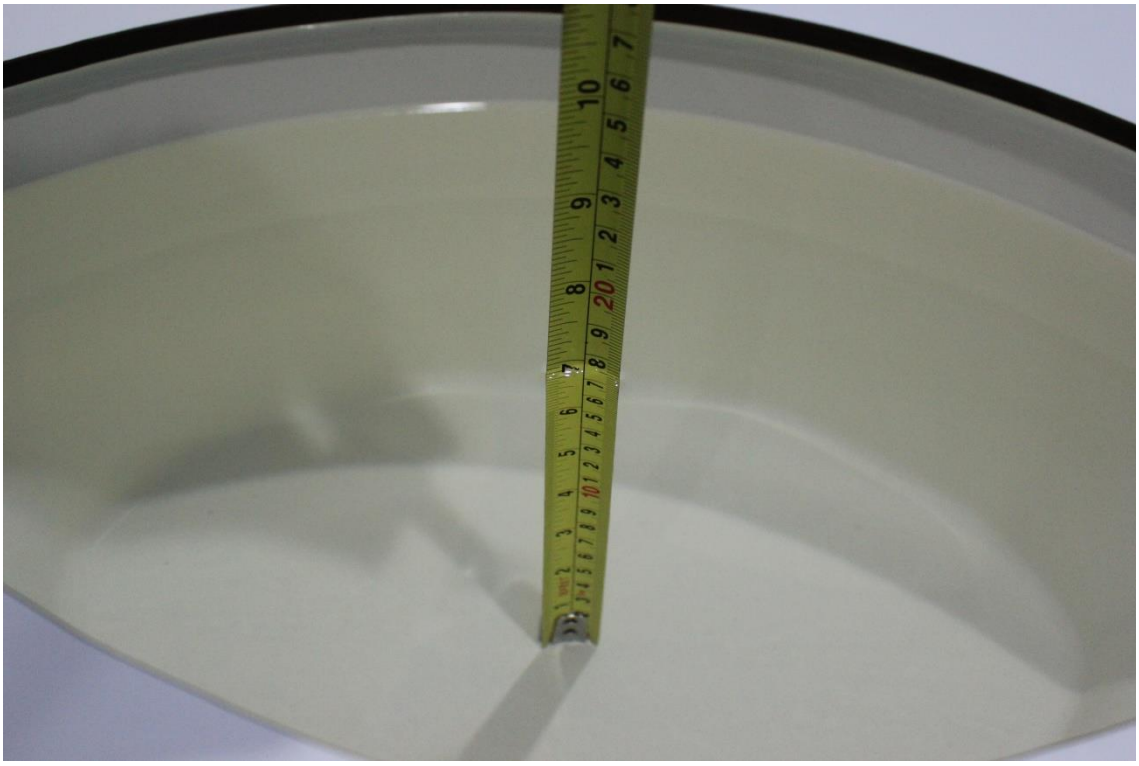
Picture 7-9 Liquid depth in the Head Phantom (2600 MHz)



Picture 7-10 Liquid depth in the Flat Phantom (2600MHz)



Picture 7-11 Liquid depth in the Head Phantom (5GHz)

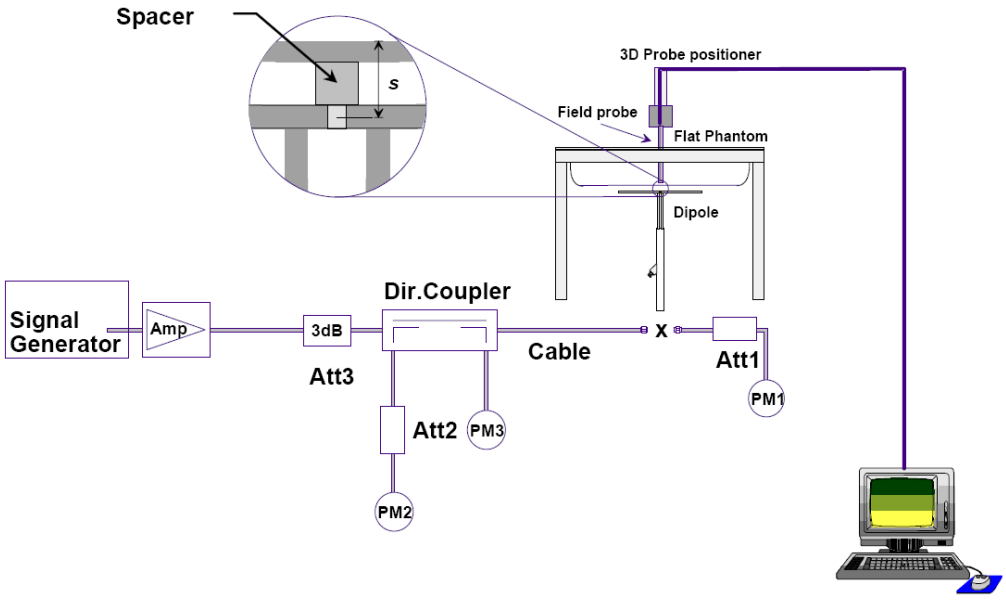


Picture 7-12 Liquid depth in the Flat Phantom (5GHz)

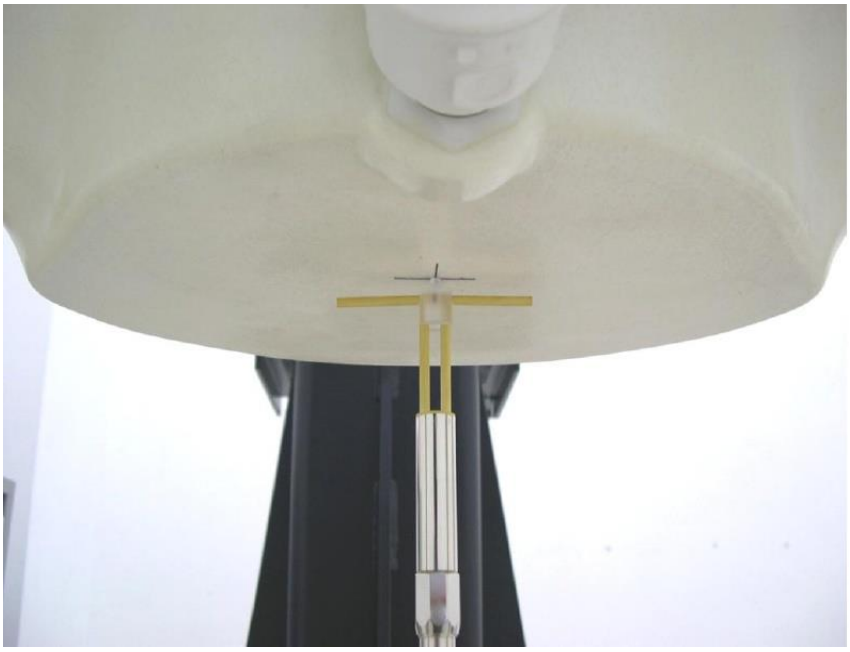
8 System verification

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
2021-1-23	750 MHz	5.53	8.47	5.6	8.44	1.27%	-0.35%
2021-1-24	835 MHz	6.25	9.60	6.2	9.68	-0.80%	0.83%
2021-1-25	835 MHz	6.25	9.60	6.36	9.64	1.76%	0.42%
2021-1-26	1750 MHz	19.1	36.5	19.04	36.52	-0.31%	0
2021-1-27	1750 MHz	19.1	36.5	18.92	36	-0.94%	-1.37%
2021-1-28	1900 MHz	20.6	39.6	20.96	39.68	1.75%	0.20%
2021-1-29	1900 MHz	20.6	39.6	20.72	38.8	0.58%	-2.02%
2021-1-30	2300 MHz	23.8	49.7	23.56	49	-1.01%	-1.41%
2021-1-31	2450 MHz	24.5	52.5	24.64	51.44	0.57%	-2.02%
2021-2-1	2600 MHz	25.3	57.0	25.72	57.2	1.66%	0.35%
2021-2-2	3600 MHz	24.7	66.7	23.8	66.4	-3.64%	0.45%
2021-2-3	5250 MHz	22.9	80.5	23.0	79.6	0.44%	-1.17%
2020-2-4	5600 MHz	23.6	83.3	23.6	83.4	0.17%	0.17%
2020-2-5	5750 MHz	22.7	80.4	23.0	80.4	1.50%	-0.05%

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.

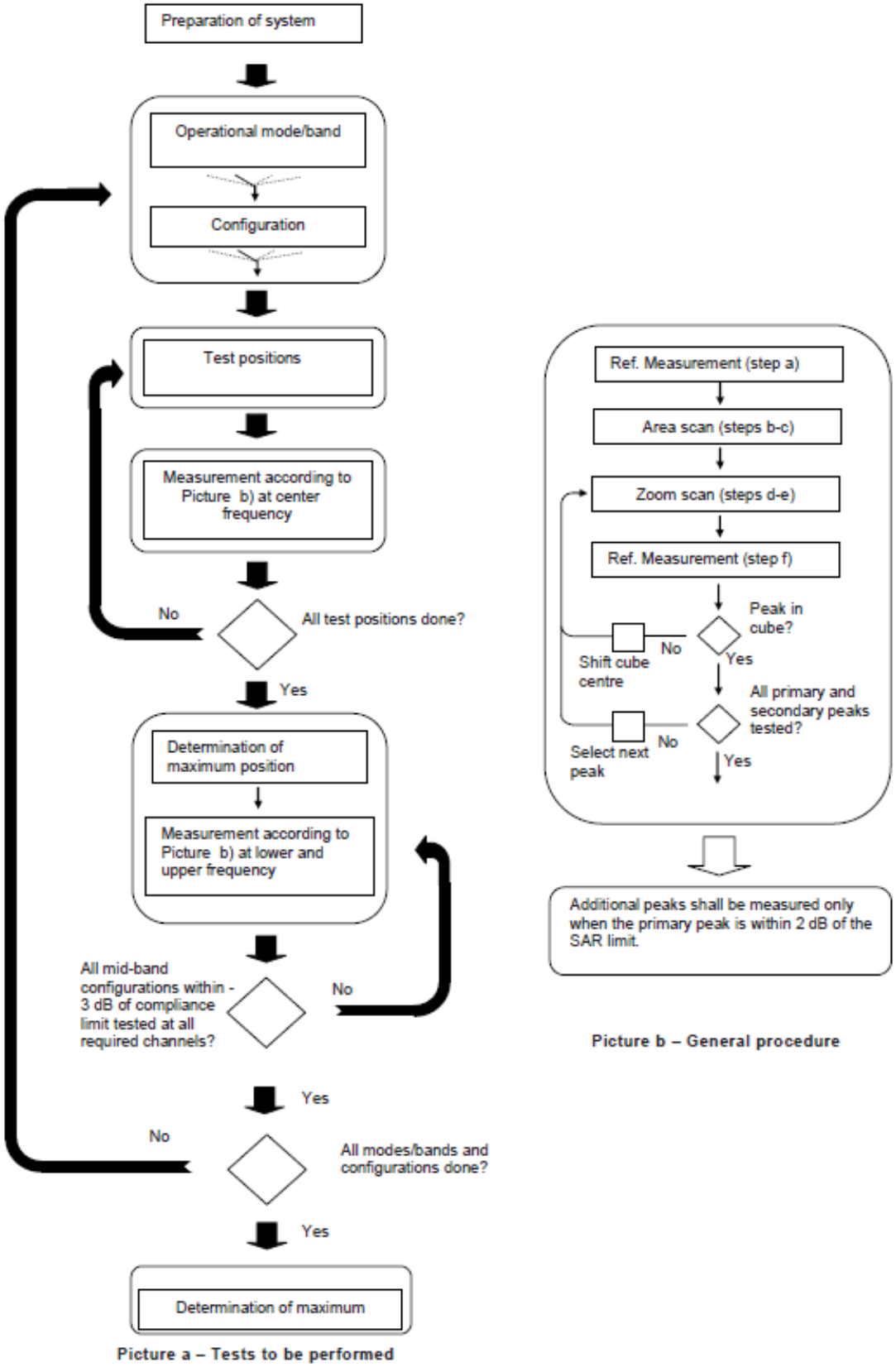
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

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 within3 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 a – Tests to be performed

Picture b – General procedure

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.

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>> 3 GHz</td></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5 ± 1 mm</td><td>½·δ·ln(2) ± 0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30° ± 1°</td><td>20° ± 1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3 – 4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}</td><td>≤ 2 GHz: ≤ 8 mm
2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm
4 – 5 GHz: ≤ 3 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm
4 – 5 GHz: ≤ 2.5 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">≤ 1.5·$\Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm
4 – 5 GHz: ≥ 25 mm
5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">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.</td></tr>
</table>

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	β_{ed1}:47/15 β_{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 & Rchwarz 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 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. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

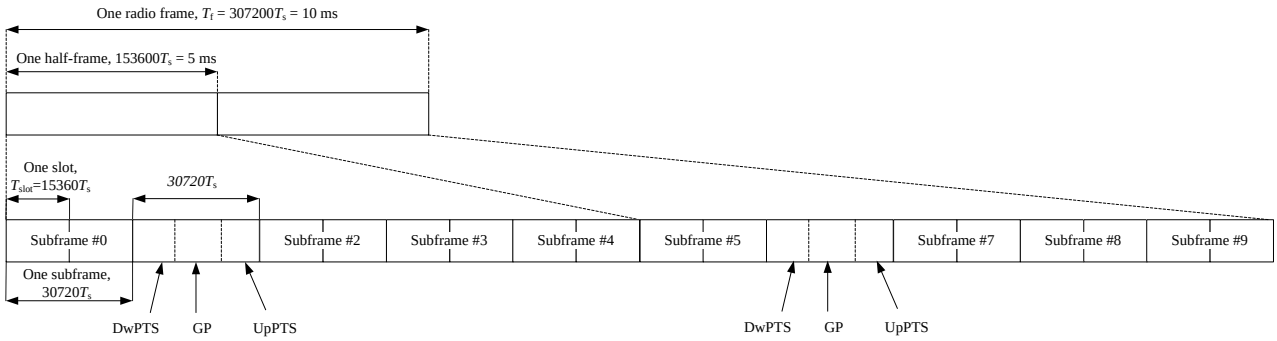


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
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:

Duty factor = uplink frame*6+UpPTS*2/one frame length

= (30720.T_s * 6+5120. T_s*2)/307200.T_s

= 0.633

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, 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 55wireless handsets. For the sample size studied, the root-mean-squared errors of the algorithm mare 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

Table11: Summary of Receiver detection mechanism

Antenna	Receiver on (head scenario -Standalone)	Receiver on (head scenario – Under ENDC/UL CA)	Receiver off (Body scenario - standalone)	Receiver off (Body scenario- Under ENDC/UL CA)
Main Antenna	Power Level A1-DSI3	Power Level B1-DSI3	Power Level C1-DSI1/DSI2	Power Level D1 DSI1/DSI2

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-Power Level C1

GSM 850	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
Speech (GMSK)	251	190	128			251	190	128
1 Txslot	33.76	33.83	33.78	34.00	/	/	/	/
GSM 850	Measured Power (dBm)				calculation	Averaged Power (dBm)		
GPRS (GMSK)	251	190	128			251	190	128
1 Txslot	33.81	33.82	33.74	34.00	-9.03	24.78	24.79	24.71
2 Txslots	30.20	30.35	30.36	31.00	-6.02	24.18	24.33	24.34
3Txslots	28.16	28.27	28.27	29.00	-4.26	23.90	24.01	24.01
4 Txslots	26.63	27.43	27.41	28.00	-3.01	23.62	24.42	24.40
GSM 850	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (GMSK)	251	190	128			251	190	128
1 Txslot	33.74	33.48	33.72	34.00	-9.03	24.71	24.45	24.69
2 Txslots	30.11	30.28	30.46	31.00	-6.02	24.09	24.26	24.44
3Txslots	28.09	28.52	28.51	29.00	-4.26	23.83	24.26	24.25
4 Txslots	27.29	27.37	27.43	28.00	-3.01	24.28	24.36	24.42
GSM 850	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (8PSK)	251	190	128			251	190	128
1 Txslot	26.64	26.53	26.70	27.00	-9.03	17.61	17.50	17.67
2 Txslots	24.92	25.26	24.71	26.00	-6.02	18.90	19.24	18.69
3Txslots	23.19	23.31	23.26	24.00	-4.26	18.93	19.05	19.00
4 Txslots	22.47	22.35	22.68	23.00	-3.01	19.46	19.34	19.67
PCS1900	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
Speech (GMSK)	810	661	512			810	661	512
1 Txslot	29.77	29.92	29.98	31.00	/	/	/	/
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
GPRS (GMSK)	810	661	512			810	661	512
1 Txslot	29.79	29.92	29.95	31.00	-9.03	20.76	20.89	20.92
2 Txslots	26.18	26.22	26.31	27.00	-6.02	20.16	20.20	20.29
3Txslots	24.68	24.52	24.49	26.00	-4.26	20.42	20.26	20.23
4 Txslots	23.28	22.95	23.22	24.00	-3.01	20.27	19.94	20.21
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (GMSK)	810	661	512			810	661	512
1 Txslot	29.77	29.91	29.94	31.00	-9.03	20.74	20.88	20.91
2 Txslots	26.16	26.21	26.30	27.00	-6.02	20.14	20.19	20.28
3Txslots	24.66	24.50	24.48	26.00	-4.26	20.40	20.24	20.22
4 Txslots	23.26	22.93	23.21	24.00	-3.01	20.25	19.92	20.20

PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (8PSK)	810	661	512			810	661	512
1 Txslot	24.72	24.80	24.75	26.00	-9.03	15.69	15.77	15.72
2 Txslots	23.05	23.07	23.08	24.00	-6.02	17.03	17.05	17.06
3Txslots	21.42	21.30	21.39	23.00	-4.26	17.16	17.04	17.13
4 Txslots	20.77	20.57	20.29	22.00	-3.01	17.76	17.56	17.28

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 1Txslots for GSM850 and GSM1900.

Table 11.1-2: The conducted power measurement results-Power Level A1

GSM 850	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
Speech (GMSK)	251	190	128			251	190	128
1 Txslot	31.23	31.42	31.45	32.00	/	/	/	/
GSM 850	Measured Power (dBm)				calculation	Averaged Power (dBm)		
GPRS (GMSK)	251	190	128			251	190	128
1 Txslot	31.05	31.26	31.29	32.00	-9.03	22.02	22.23	22.26
2 Txslots	27.01	27.08	27.13	28.00	-6.02	20.99	21.06	21.11
3Txslots	25.01	25.10	25.06	26.00	-4.26	20.75	20.84	20.80
4 Txslots	23.93	23.99	24.02	25.00	-3.01	20.92	20.98	21.01
GSM 850	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (GMSK)	251	190	128			251	190	128
1 Txslot	31.50	31.25	31.17	32.00	-9.03	22.47	22.22	22.14
2 Txslots	27.11	27.10	27.11	28.00	-6.02	21.09	21.08	21.09
3Txslots	25.07	25.06	25.06	26.00	-4.26	20.81	20.80	20.80
4 Txslots	23.85	24.02	24.09	25.00	-3.01	20.84	21.01	21.08
GSM 850	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (8PSK)	251	190	128			251	190	128
1 Txslot	27.80	26.11	26.18	27.00	-9.03	18.77	17.08	17.15
2 Txslots	24.43	24.46	24.51	26.00	-6.02	18.41	18.44	18.49
3Txslots	22.94	23.08	23.00	24.00	-4.26	18.68	18.82	18.74
4 Txslots	21.98	22.01	22.15	23.00	-3.01	18.97	19.00	19.14
PCS1900	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
Speech (GMSK)	810	661	512			810	661	512
1 Txslot	28.33	28.46	28.30	29.50	/	/	/	/
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		

GPRS (GMSK)	810	661	512			810	661	512
1 Txslot	28.51	28.41	28.51	29.50	-9.03	19.48	19.38	19.48
2 Txslots	26.28	26.23	26.40	27.00	-6.02	20.26	20.21	20.38
3Txslots	24.55	24.72	24.69	25.50	-4.26	20.29	20.46	20.43
4 Txslots	23.16	23.31	23.50	24.00	-3.01	20.15	20.30	20.49
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (GMSK)	810	661	512			810	661	512
1 Txslot	28.44	28.62	28.54	29.50	-9.03	19.41	19.59	19.51
2 Txslots	26.23	26.35	26.32	27.00	-6.02	20.21	20.33	20.30
3Txslots	24.58	24.63	24.84	25.50	-4.26	20.32	20.37	20.58
4 Txslots	23.19	23.24	23.44	24.00	-3.01	20.18	20.23	20.43
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (8PSK)	810	661	512			810	661	512
1 Txslot	25.23	24.65	24.39	26.00	-9.03	16.20	15.62	15.36
2 Txslots	23.15	23.15	22.82	24.00	-6.02	17.13	17.13	16.80
3Txslots	21.49	21.34	21.78	23.00	-4.26	17.23	17.08	17.52
4 Txslots	20.46	20.63	20.47	22.00	-3.01	17.45	17.62	17.46

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 1Txslots for GSM850 and 3Txslots for GSM1900.

11.2 WCDMA Measurement result

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

WCDMA850	**FDDV result (dBm)**			**Tune up**
	4233/4458	**4183/4408**	**4132/4357**	
	(846.6MHz)	**(836.6MHz)**	**(826.4MHz)**	
	22.33	22.44	22.47	22.50
HSUPA	21.01	21.02	21.00	22.00
	19.06	19.04	19.01	20.00
	20.04	20.04	20.11	21.00
	19.06	19.04	19.16	20.00
	21.02	21.07	21.01	22.00
DC-HSDPA	21.02	21.06	21.23	22.00
	21.13	21.07	21.07	22.00
	20.66	20.56	20.61	21.50
	20.53	20.51	20.52	21.50
WCDMA1900	**FDDII result (dBm)**			**Tune up**
	9538/9938	**9400/9800**	**9262/9662**	
	(1907.6MHz)	**(1880MHz)**	**(1852.4MHz)**	
	18.76	18.73	18.71	20.00
HSUPA	17.58	17.70	17.62	19.00
	15.69	15.65	15.59	17.00
	16.65	16.64	16.57	18.00
	15.62	15.60	15.58	17.00
	17.58	17.68	17.61	19.00
DC-HSDPA	17.53	17.59	17.57	19.00
	17.57	17.61	17.59	19.00
	17.09	17.10	17.08	18.00
	17.08	17.06	17.08	18.00

WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738	1412/1637	1312/1537	
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	19.71	19.71	19.66	20.50
HSUPA	18.61	18.60	18.66	19.50
	16.69	16.70	16.81	17.50
	17.63	17.73	17.70	18.50
	16.69	16.69	16.89	17.50
	18.59	18.58	18.65	19.50
DC-HSDPA	18.66	18.67	18.69	19.50
	18.66	18.68	18.75	19.50
	18.21	18.22	18.09	19.50
	18.12	18.17	18.15	19.50

Table 11.2-2: The conducted Power for WCDMA Level C1

WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738	1412/1637	1312/1537	
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	21.66	21.65	21.58	23.00
HSUPA	20.60	20.63	20.54	22.00
	18.75	18.66	18.66	20.00
	18.55	18.70	18.61	20.00
	18.74	18.63	18.60	20.00
	20.60	20.62	20.77	22.00
DC-HSDPA	20.60	20.66	20.70	22.00
	20.77	20.69	20.61	22.00
	20.20	20.19	20.23	21.00
	20.09	20.18	20.10	21.00

WCDMA850	FDDV result (dBm)			Tune up
	4233/4458	4183/4408	4132/4357	
	(846.6MHz)	(836.6MHz)	(826.4MHz)	
	22.33	22.44	22.47	23.00
HSUPA	20.98	20.99	21.00	23.00
	19.06	19.04	19.01	23.00
	20.04	20.04	20.11	23.00
	19.06	19.04	19.16	23.00
	20.98	21.07	21.01	23.00
DC-HSDPA	20.97	21.06	21.23	23.00
	21.13	21.07	21.07	23.00
	20.66	20.56	20.61	23.00
	20.44	20.51	20.20	23.00
WCDMA1900	FDDII result (dBm)			Tune up
	9538/9938	9400/9800	9262/9662	
	(1907.6MHz)	(1880MHz)	(1852.4MHz)	
	23.66	23.71	23.58	24.00
HSUPA	22.54	22.63	22.50	23.00
	20.57	20.60	20.52	21.00
	21.51	21.58	21.50	22.00
	20.52	20.56	20.48	21.00
	22.50	22.58	22.52	23.00
DC-HSDPA	22.56	22.57	22.54	23.00
	22.54	22.56	22.53	23.00
	22.09	22.10	22.05	23.00
	22.08	22.11	22.04	23.00

11.3 LTE Measurement result

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

Band	Tune up (dBm)			
	Level A1	Level B1	Level C1	Level D1
Band 2(ANT3)	19.5	17.5	23.5	22.5
Band 2(ANT2)	/	24.5	/	19
Band 4(ANT3)	21.5	18.5	23.5	20.5
Band 4(ANT2)	/	24.5	/	20
Band 5	22.5	19	25	25
Band 7	25	25	23	19.5
Band 12	23	19.5	25	25
Band 13	23	20	25	24
Band 14	23	/	24	/
Band 17	23	/	25	/
Band 25	19.5	/	24.5	/
Band 26	22	/	24	/
Band 30	24	24	24	23
Band 41	24	24	24	24
Band 48	23	/	23	/
Band 66(ANT3)	20.5	17.5	24.5	21.5
Band 66(ANT2)	/	24.5	/	20
Band 71	24	/	24	/

Power Level A1

Band2-ANT3-Power Level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	18.05	18.01	18.02
		1880 (18900)	18.03	17.93	17.84
		1850.7 (18607)	18.13	18.10	18.14
	1RB-Middle (3)	1909.3 (19193)	18.13	18.15	18.24
		1880 (18900)	17.95	18.04	18.09
		1850.7 (18607)	18.09	18.17	18.24
	1RB-Low (0)	1909.3 (19193)	18.20	18.12	18.14
		1880 (18900)	17.88	17.99	18.08
		1850.7 (18607)	18.14	18.12	18.01
	3RB-High (3)	1909.3 (19193)	18.17	18.22	18.29
		1880 (18900)	18.20	18.27	18.23
		1850.7 (18607)	18.11	18.17	18.23
	3RB-Middle (1)	1909.3 (19193)	17.96	18.08	17.96
		1880 (18900)	18.13	18.25	18.37
		1850.7 (18607)	18.29	18.25	18.25
	3RB-Low (0)	1909.3 (19193)	18.12	18.17	18.07
		1880 (18900)	18.11	17.98	17.90
		1850.7 (18607)	18.32	18.33	18.29
	6RB (0)	1909.3 (19193)	18.07	18.16	18.23
		1880 (18900)	18.21	18.29	18.16
		1850.7 (18607)	18.20	18.09	18.01
3MHz	1RB-High (14)	1908.5 (19185)	18.13	18.24	18.17
		1880 (18900)	17.94	17.84	17.78
		1851.5 (18615)	17.97	17.99	17.87
	1RB-Middle (7)	1908.5 (19185)	18.11	18.03	18.10
		1880 (18900)	18.11	18.20	18.20
		1851.5 (18615)	17.94	18.02	17.89
	1RB-Low (0)	1908.5 (19185)	18.11	18.22	18.23
		1880 (18900)	17.99	17.94	17.93
		1851.5 (18615)	18.03	18.03	17.90
	8RB-High (7)	1908.5 (19185)	18.13	18.21	18.19
		1880 (18900)	18.32	18.44	18.33
		1851.5 (18615)	18.05	18.02	18.12
	8RB-Middle (4)	1908.5 (19185)	18.25	18.31	18.34
		1880 (18900)	18.27	18.37	18.39
		1851.5 (18615)	18.28	18.27	18.30
	8RB-Low (0)	1908.5 (19185)	17.99	17.86	17.75
		1880 (18900)	18.25	18.21	18.16
		1851.5 (18615)	18.18	18.27	18.27
	15RB (0)	1908.5 (19185)	18.13	18.09	18.10
		1880 (18900)	18.11	18.00	18.07
		1851.5 (18615)	18.04	18.10	18.04

5MHz	1RB-High (24)	1907.5 (19175)	17.99	18.05	18.09
		1880 (18900)	17.95	17.85	17.90
		1852.5 (18625)	17.93	17.96	17.98
	1RB-Middle (12)	1907.5 (19175)	18.04	17.92	18.02
		1880 (18900)	18.19	18.27	18.16
		1852.5 (18625)	18.24	18.32	18.23
	1RB-Low (0)	1907.5 (19175)	18.08	18.11	18.01
		1880 (18900)	17.85	17.90	17.98
		1852.5 (18625)	18.09	18.08	18.04
	12RB-High (13)	1907.5 (19175)	18.22	18.15	18.06
		1880 (18900)	18.27	18.31	18.18
		1852.5 (18625)	18.25	18.23	18.28
	12RB-Middle (6)	1907.5 (19175)	18.01	18.07	17.99
		1880 (18900)	18.13	18.24	18.18
		1852.5 (18625)	18.20	18.10	18.07
	12RB-Low (0)	1907.5 (19175)	18.21	18.25	18.21
		1880 (18900)	18.26	18.26	18.31
		1852.5 (18625)	18.15	18.12	18.02
	25RB (0)	1907.5 (19175)	18.14	18.19	18.15
		1880 (18900)	18.30	18.29	18.32
		1852.5 (18625)	18.13	18.18	18.29
10MHz	1RB-High (49)	1905 (19150)	18.17	18.06	18.07
		1880 (18900)	18.09	18.18	18.18
		1855 (18650)	18.14	18.14	18.04
	1RB-Middle (24)	1905 (19150)	17.99	18.05	18.07
		1880 (18900)	17.95	17.94	18.05
		1855 (18650)	18.24	18.36	18.35
	1RB-Low (0)	1905 (19150)	18.13	18.03	18.03
		1880 (18900)	18.07	18.11	18.18
		1855 (18650)	18.02	18.03	18.00
	25RB-High (25)	1905 (19150)	18.02	18.00	17.91
		1880 (18900)	18.33	18.28	18.26
		1855 (18650)	18.20	18.20	18.08
	25RB-Middle (12)	1905 (19150)	18.06	18.13	18.11
		1880 (18900)	18.16	18.08	17.95
		1855 (18650)	18.17	18.04	17.97
	25RB-Low (0)	1905 (19150)	18.10	18.13	18.00
		1880 (18900)	18.06	18.08	18.10
		1855 (18650)	18.04	18.13	18.22
	50RB (0)	1905 (19150)	18.04	18.14	18.13
		1880 (18900)	18.30	18.32	18.33
		1855 (18650)	18.36	18.24	18.22

15MHz	1RB-High (74)	1902.5 (19125)	17.95	17.90	17.83
		1880 (18900)	17.98	18.01	18.04
		1857.5 (18675)	18.00	17.91	17.92
	1RB-Middle (37)	1902.5 (19125)	17.87	17.79	17.74
		1880 (18900)	18.17	18.16	18.13
		1857.5 (18675)	17.98	18.08	18.02
	1RB-Low (0)	1902.5 (19125)	17.95	17.97	17.89
		1880 (18900)	18.05	17.94	17.93
		1857.5 (18675)	18.12	18.23	18.32
	36RB-High (38)	1902.5 (19125)	18.14	18.18	18.23
		1880 (18900)	18.13	18.08	18.00
		1857.5 (18675)	18.12	18.04	18.12
	36RB-Middle (19)	1902.5 (19125)	18.01	18.00	18.09
		1880 (18900)	18.28	18.21	18.08
		1857.5 (18675)	18.29	18.30	18.18
	36RB-Low (0)	1902.5 (19125)	18.22	18.09	18.11
		1880 (18900)	18.14	18.06	18.01
		1857.5 (18675)	18.14	18.01	18.05
	75RB (0)	1902.5 (19125)	17.94	17.85	17.91
		1880 (18900)	18.11	18.21	18.33
		1857.5 (18675)	18.26	18.32	18.41
20MHz	1RB-High (99)	1900 (19100)	18.23	18.56	18.67
		1880 (18900)	18.16	18.51	18.56
		1860 (18700)	18.25	18.38	18.32
	1RB-Middle (50)	1900 (19100)	18.18	18.62	18.71
		1880 (18900)	18.27	18.51	18.59
		1860 (18700)	18.25	18.40	18.27
	1RB-Low (0)	1900 (19100)	18.25	18.53	18.52
		1880 (18900)	18.18	18.54	18.62
		1860 (18700)	18.26	18.35	18.28
	50RB-High (50)	1900 (19100)	18.33	18.11	18.13
		1880 (18900)	18.38	18.11	18.00
		1860 (18700)	18.37	18.13	18.03
	50RB-Middle (25)	1900 (19100)	18.26	18.05	18.12
		1880 (18900)	18.39	18.14	18.10
		1860 (18700)	18.40	18.13	18.14
	50RB-Low (0)	1900 (19100)	18.26	18.05	18.08
		1880 (18900)	18.31	18.07	18.12
		1860 (18700)	18.35	18.08	18.09
	100RB (0)	1900 (19100)	18.26	18.02	17.90
		1880 (18900)	18.39	18.11	18.01
		1860 (18700)	18.36	18.13	18.02

Band4-ANT3-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1754.3 (20393)	19.96	20.04	20.08
		1732.5 (20175)	20.20	20.11	20.20
		1710.7 (19957)	20.18	20.08	20.15
	1RB-Middle (3)	1754.3 (20393)	20.05	20.01	20.03
		1732.5 (20175)	20.16	20.08	20.04
		1710.7 (19957)	20.01	19.91	19.92
	1RB-Low (0)	1754.3 (20393)	19.94	19.98	20.06
		1732.5 (20175)	20.16	20.24	20.19
		1710.7 (19957)	20.10	19.97	20.09
	3RB-High (3)	1754.3 (20393)	20.18	20.23	20.18
		1732.5 (20175)	20.11	20.22	20.14
		1710.7 (19957)	20.04	20.05	19.96
	3RB-Middle (1)	1754.3 (20393)	20.21	20.24	20.16
		1732.5 (20175)	20.22	20.34	20.42
		1710.7 (19957)	20.27	20.36	20.41
	3RB-Low (0)	1754.3 (20393)	20.21	20.14	20.11
		1732.5 (20175)	20.08	20.14	20.26
		1710.7 (19957)	20.15	20.19	20.30
	6RB (0)	1754.3 (20393)	20.05	20.00	20.00
		1732.5 (20175)	20.05	20.07	20.08
		1710.7 (19957)	20.21	20.26	20.23
3MHz	1RB-High (14)	1753.5 (20385)	20.10	20.12	20.04
		1732.5 (20175)	19.98	19.92	19.87
		1711.5 (19965)	19.94	19.89	19.75
	1RB-Middle (7)	1753.5 (20385)	19.86	19.74	19.78
		1732.5 (20175)	20.18	20.29	20.40
		1711.5 (19965)	19.94	19.87	19.76
	1RB-Low (0)	1753.5 (20385)	20.17	20.27	20.35
		1732.5 (20175)	20.08	20.04	20.14
		1711.5 (19965)	20.10	20.21	20.09
	8RB-High (7)	1753.5 (20385)	20.26	20.24	20.28
		1732.5 (20175)	20.27	20.14	20.13
		1711.5 (19965)	20.25	20.20	20.16
	8RB-Middle (4)	1753.5 (20385)	20.19	20.19	20.30
		1732.5 (20175)	20.14	20.24	20.31
		1711.5 (19965)	20.10	20.05	20.03
	8RB-Low (0)	1753.5 (20385)	20.18	20.22	20.23
		1732.5 (20175)	20.10	20.06	20.01
		1711.5 (19965)	20.01	20.10	20.08
	15RB (0)	1753.5 (20385)	20.22	20.16	20.23
		1732.5 (20175)	20.08	20.14	20.14
		1711.5 (19965)	20.22	20.16	20.09

5MHz	1RB-High (24)	1752.5 (20375)	19.89	19.94	19.82
		1732.5 (20175)	19.99	19.87	19.81
		1712.5 (19975)	19.92	19.88	19.91
	1RB-Middle (12)	1752.5 (20375)	19.89	19.86	19.74
		1732.5 (20175)	19.98	20.00	19.94
		1712.5 (19975)	19.94	19.93	19.98
	1RB-Low (0)	1752.5 (20375)	20.04	20.09	20.14
		1732.5 (20175)	19.89	20.00	20.03
		1712.5 (19975)	20.17	20.19	20.14
	12RB-High (13)	1752.5 (20375)	20.28	20.36	20.24
		1732.5 (20175)	20.26	20.24	20.14
		1712.5 (19975)	20.28	20.38	20.39
	12RB-Middle (6)	1752.5 (20375)	20.15	20.05	20.07
		1732.5 (20175)	20.17	20.12	20.21
		1712.5 (19975)	20.19	20.09	20.08
	12RB-Low (0)	1752.5 (20375)	20.27	20.39	20.29
		1732.5 (20175)	20.04	19.94	20.03
		1712.5 (19975)	20.20	20.16	20.03
	25RB (0)	1752.5 (20375)	20.30	20.22	20.32
		1732.5 (20175)	20.27	20.31	20.20
		1712.5 (19975)	20.03	20.01	20.10
10MHz	1RB-High (49)	1750 (20350)	20.16	20.21	20.19
		1732.5 (20175)	20.17	20.07	20.18
		1715 (20000)	19.93	19.84	19.82
	1RB-Middle (24)	1750 (20350)	19.96	19.88	19.82
		1732.5 (20175)	20.17	20.16	20.09
		1715 (20000)	20.18	20.27	20.33
	1RB-Low (0)	1750 (20350)	20.01	20.04	20.05
		1732.5 (20175)	20.10	19.97	19.84
		1715 (20000)	20.05	19.96	20.01
	25RB-High (25)	1750 (20350)	20.26	20.13	20.07
		1732.5 (20175)	20.10	19.97	19.90
		1715 (20000)	20.36	20.25	20.17
	25RB-Middle (12)	1750 (20350)	20.25	20.22	20.24
		1732.5 (20175)	20.27	20.27	20.36
		1715 (20000)	20.34	20.36	20.46
	25RB-Low (0)	1750 (20350)	20.19	20.24	20.16
		1732.5 (20175)	20.14	20.19	20.29
		1715 (20000)	19.97	20.01	20.01
	50RB (0)	1750 (20350)	20.22	20.34	20.46
		1732.5 (20175)	20.12	20.17	20.06
		1715 (20000)	20.20	20.27	20.28

15MHz	1RB-High (74)	1747.5 (20325)	19.99	19.87	19.99
		1732.5 (20175)	20.12	20.21	20.10
		1717.5 (20025)	20.08	20.03	20.14
	1RB-Middle (37)	1747.5 (20325)	20.03	19.99	20.06
		1732.5 (20175)	20.24	20.22	20.30
		1717.5 (20025)	20.21	20.27	20.36
	1RB-Low (0)	1747.5 (20325)	19.88	19.84	19.73
		1732.5 (20175)	20.00	19.91	19.89
		1717.5 (20025)	19.96	20.08	20.12
	36RB-High (38)	1747.5 (20325)	20.31	20.22	20.13
		1732.5 (20175)	20.25	20.33	20.30
		1717.5 (20025)	20.31	20.19	20.13
	36RB-Middle (19)	1747.5 (20325)	20.16	20.22	20.29
		1732.5 (20175)	20.14	20.03	20.07
		1717.5 (20025)	20.31	20.18	20.18
	36RB-Low (0)	1747.5 (20325)	20.25	20.33	20.27
		1732.5 (20175)	20.05	20.09	20.19
		1717.5 (20025)	20.15	20.04	20.03
	75RB (0)	1747.5 (20325)	20.30	20.41	20.45
		1732.5 (20175)	20.06	19.98	19.90
		1717.5 (20025)	20.19	20.26	20.27
20MHz	1RB-High (99)	1745 (20300)	20.21	20.45	20.54
		1732.5 (20175)	20.27	20.38	20.38
		1720 (20050)	20.24	20.53	20.43
	1RB-Middle (50)	1745 (20300)	20.15	20.51	20.57
		1732.5 (20175)	20.28	20.39	20.33
		1720 (20050)	20.24	20.55	20.50
	1RB-Low (0)	1745 (20300)	20.20	20.49	20.38
		1732.5 (20175)	20.20	20.34	20.28
		1720 (20050)	20.25	20.53	20.48
	50RB-High (50)	1745 (20300)	20.35	20.06	19.94
		1732.5 (20175)	20.40	20.05	20.08
		1720 (20050)	20.36	20.07	20.17
	50RB-Middle (25)	1745 (20300)	20.36	20.09	20.15
		1732.5 (20175)	20.34	20.12	20.12
		1720 (20050)	20.39	20.09	19.97
	50RB-Low (0)	1745 (20300)	20.35	20.05	20.00
		1732.5 (20175)	20.31	20.05	20.02
		1720 (20050)	20.30	20.03	20.03
	100RB (0)	1745 (20300)	20.31	20.05	20.16
		1732.5 (20175)	20.29	20.03	20.13
		1720 (20050)	20.36	20.10	19.99

Band5-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	848.3 (20643)	21.74	21.66	21.60
		836.5 (20525)	21.86	21.90	21.93
		824.7 (20407)	21.78	21.86	21.73
	1RB-Middle (3)	848.3 (20643)	21.75	21.68	21.73
		836.5 (20525)	21.85	21.84	21.72
		824.7 (20407)	21.79	21.71	21.69
	1RB-Low (0)	848.3 (20643)	21.96	22.00	21.88
		836.5 (20525)	21.89	21.91	21.80
		824.7 (20407)	21.71	21.82	21.70
	3RB-High (3)	848.3 (20643)	21.86	21.93	22.03
		836.5 (20525)	22.06	22.05	21.93
		824.7 (20407)	22.05	22.07	22.14
	3RB-Middle (1)	848.3 (20643)	21.75	21.65	21.74
		836.5 (20525)	21.80	21.67	21.59
		824.7 (20407)	22.09	22.02	22.02
	3RB-Low (0)	848.3 (20643)	21.68	21.60	21.56
		836.5 (20525)	22.05	22.13	22.01
		824.7 (20407)	22.02	22.13	22.15
	6RB (0)	848.3 (20643)	21.79	21.72	21.62
		836.5 (20525)	21.86	21.83	21.92
		824.7 (20407)	22.03	22.14	22.22
3MHz	1RB-High (14)	847.5 (20635)	21.62	21.56	21.55
		836.5 (20525)	21.86	21.97	22.05
		825.5 (20415)	21.58	21.46	21.54
	1RB-Middle (7)	847.5 (20635)	21.90	21.84	21.89
		836.5 (20525)	21.69	21.68	21.79
		825.5 (20415)	21.90	21.84	21.90
	1RB-Low (0)	847.5 (20635)	21.97	21.83	21.84
		836.5 (20525)	22.00	21.91	21.96
		825.5 (20415)	21.65	21.60	21.48
	8RB-High (7)	847.5 (20635)	21.81	21.86	21.90
		836.5 (20525)	22.01	21.93	22.00
		825.5 (20415)	21.85	21.84	21.90
	8RB-Middle (4)	847.5 (20635)	22.05	22.06	21.97
		836.5 (20525)	21.82	21.85	21.83
		825.5 (20415)	22.19	22.14	22.03
	8RB-Low (0)	847.5 (20635)	21.83	21.90	22.00
		836.5 (20525)	22.05	21.99	22.09
		825.5 (20415)	21.96	21.92	21.82
	15RB (0)	847.5 (20635)	22.00	22.09	22.08
		836.5 (20525)	21.82	21.73	21.76
		825.5 (20415)	21.85	21.75	21.68

5MHz	1RB-High (24)	846.5 (20625)	21.84	21.83	21.94
		836.5 (20525)	21.74	21.69	21.74
		826.5 (20425)	21.77	21.69	21.68
	1RB-Middle (12)	846.5 (20625)	21.63	21.53	21.47
		836.5 (20525)	21.69	21.79	21.83
		826.5 (20425)	21.73	21.67	21.57
	1RB-Low (0)	846.5 (20625)	21.90	21.85	21.82
		836.5 (20525)	21.77	21.77	21.71
		826.5 (20425)	21.77	21.88	22.00
	12RB-High (13)	846.5 (20625)	22.05	22.12	22.14
		836.5 (20525)	22.01	21.88	21.96
		826.5 (20425)	21.83	21.87	21.82
	12RB-Middle (6)	846.5 (20625)	22.04	22.08	22.04
		836.5 (20525)	21.87	21.93	21.91
		826.5 (20425)	21.96	21.91	21.80
	12RB-Low (0)	846.5 (20625)	21.76	21.84	21.93
		836.5 (20525)	21.88	21.80	21.69
		826.5 (20425)	21.80	21.73	21.76
	25RB (0)	846.5 (20625)	21.77	21.68	21.62
		836.5 (20525)	21.79	21.88	21.85
		826.5 (20425)	22.10	22.19	22.31
10MHz	1RB-High (49)	844 (20600)	21.95	22.33	22.23
		836.5 (20525)	22.05	21.98	21.95
		829 (20450)	21.89	21.97	22.05
	1RB-Middle (24)	844 (20600)	21.93	22.37	22.44
		836.5 (20525)	22.02	22.09	22.09
		829 (20450)	22.05	22.22	22.26
	1RB-Low (0)	844 (20600)	22.04	22.28	22.20
		836.5 (20525)	22.04	22.15	22.19
		829 (20450)	21.92	21.91	21.93
	25RB-High (25)	844 (20600)	22.07	22.10	22.10
		836.5 (20525)	22.15	22.28	22.20
		829 (20450)	22.14	22.22	22.33
	25RB-Middle (12)	844 (20600)	22.08	22.04	21.97
		836.5 (20525)	22.09	22.21	22.25
		829 (20450)	22.20	22.29	22.25
	25RB-Low (0)	844 (20600)	22.01	22.07	22.08
		836.5 (20525)	22.08	22.21	22.28
		829 (20450)	22.07	22.18	22.11
	50RB (0)	844 (20600)	22.05	22.06	22.13
		836.5 (20525)	22.08	22.17	22.16
		829 (20450)	22.17	22.20	22.11

Band7-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2567.5 (21425)	24.10	23.27	22.72
		2535 (21100)	24.17	23.26	22.73
		2502.5 (20775)	24.03	23.28	22.53
	1RB-Middle (12)	2567.5 (21425)	24.03	23.27	22.62
		2535 (21100)	24.20	23.32	22.81
		2502.5 (20775)	24.04	23.33	22.61
	1RB-Low (0)	2567.5 (21425)	24.05	23.30	22.54
		2535 (21100)	24.20	23.32	22.83
		2502.5 (20775)	23.95	23.41	22.72
	12RB-High (13)	2567.5 (21425)	23.19	22.25	21.58
		2535 (21100)	23.13	22.28	21.73
		2502.5 (20775)	23.11	22.26	21.68
	12RB-Middle (6)	2567.5 (21425)	23.18	22.19	21.59
		2535 (21100)	23.11	22.24	21.66
		2502.5 (20775)	23.09	22.23	21.62
	12RB-Low (0)	2567.5 (21425)	23.09	22.14	21.48
		2535 (21100)	23.09	22.17	21.63
		2502.5 (20775)	23.02	22.14	21.56
	25RB (0)	2567.5 (21425)	23.15	22.13	21.56
		2535 (21100)	23.09	22.12	21.70
		2502.5 (20775)	23.12	22.15	21.63
10MHz	1RB-High (49)	2565 (21400)	24.06	23.08	22.67
		2535 (21100)	24.11	23.15	22.74
		2505 (20800)	24.08	23.39	22.51
	1RB-Middle (24)	2565 (21400)	23.95	22.94	22.60
		2535 (21100)	24.05	23.15	22.75
		2505 (20800)	24.03	23.40	22.69
	1RB-Low (0)	2565 (21400)	24.01	23.09	22.67
		2535 (21100)	24.05	23.14	22.80
		2505 (20800)	23.98	23.31	22.67
	25RB-High (25)	2565 (21400)	23.11	22.23	21.51
		2535 (21100)	23.13	22.16	21.62
		2505 (20800)	23.03	22.07	21.60
	25RB-Middle (12)	2565 (21400)	23.11	22.19	21.61
		2535 (21100)	23.10	22.16	21.63
		2505 (20800)	23.03	22.08	21.56
	25RB-Low (0)	2565 (21400)	23.08	22.19	21.65
		2535 (21100)	23.17	22.23	21.69
		2505 (20800)	23.07	22.14	21.55
	50RB (0)	2565 (21400)	23.14	22.14	21.62
		2535 (21100)	23.09	22.16	21.64
		2505 (20800)	23.00	22.09	21.31

15MHz	1RB-High (74)	2562.5 (21375)	23.72	23.13	22.26
		2535 (21100)	23.84	23.34	22.53
		2507.5 (20825)	23.73	22.80	22.38
	1RB-Middle (37)	2562.5 (21375)	23.77	23.19	22.35
		2535 (21100)	23.81	23.22	22.54
		2507.5 (20825)	23.77	22.82	22.31
	1RB-Low (0)	2562.5 (21375)	23.78	23.09	22.38
		2535 (21100)	23.75	23.31	22.49
		2507.5 (20825)	23.76	22.65	22.53
	36RB-High (38)	2562.5 (21375)	22.81	21.88	21.27
		2535 (21100)	22.86	21.93	21.48
		2507.5 (20825)	22.78	21.85	21.32
	36RB-Middle (19)	2562.5 (21375)	22.89	21.96	21.36
		2535 (21100)	22.85	21.87	21.40
		2507.5 (20825)	22.84	21.83	21.26
	36RB-Low (0)	2562.5 (21375)	22.91	21.91	21.52
		2535 (21100)	22.88	21.91	21.55
		2507.5 (20825)	22.89	21.86	21.46
	75RB (0)	2562.5 (21375)	22.88	21.94	21.37
		2535 (21100)	22.85	21.92	21.39
		2507.5 (20825)	22.80	21.84	21.27
20MHz	1RB-High (99)	2560 (21350)	23.63	23.24	22.20
		2535 (21100)	23.73	23.24	22.55
		2510 (20850)	23.67	23.23	22.32
	1RB-Middle (50)	2560 (21350)	23.65	23.23	22.47
		2535 (21100)	23.71	23.13	22.51
		2510 (20850)	23.51	23.17	22.36
	1RB-Low (0)	2560 (21350)	23.52	23.07	22.37
		2535 (21100)	23.56	22.99	22.38
		2510 (20850)	23.56	23.10	22.39
	50RB-High (50)	2560 (21350)	22.73	21.79	21.24
		2535 (21100)	22.82	21.79	21.35
		2510 (20850)	22.73	21.75	21.42
	50RB-Middle (25)	2560 (21350)	22.83	21.86	21.46
		2535 (21100)	22.78	21.76	21.36
		2510 (20850)	22.79	21.80	21.33
	50RB-Low (0)	2560 (21350)	22.75	21.83	21.45
		2535 (21100)	22.81	21.78	21.47
		2510 (20850)	22.74	21.76	21.38
	100RB (0)	2560 (21350)	22.82	21.81	21.39
		2535 (21100)	22.78	21.78	21.41
		2510 (20850)	22.72	21.71	21.30

Band12-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	715.3 (23173)	21.56	21.46	21.35
		707.5 (23095)	21.51	21.40	21.43
		699.7 (23017)	21.67	21.60	21.49
	1RB-Middle (3)	715.3 (23173)	21.54	21.41	21.39
		707.5 (23095)	21.67	21.76	21.80
		699.7 (23017)	21.42	21.54	21.42
	1RB-Low (0)	715.3 (23173)	21.83	21.91	21.80
		707.5 (23095)	21.48	21.41	21.42
		699.7 (23017)	21.59	21.66	21.66
	3RB-High (3)	715.3 (23173)	21.84	21.95	21.99
		707.5 (23095)	21.86	21.87	21.97
		699.7 (23017)	21.70	21.74	21.62
	3RB-Middle (1)	715.3 (23173)	21.67	21.76	21.83
		707.5 (23095)	21.58	21.68	21.71
		699.7 (23017)	21.80	21.69	21.76
	3RB-Low (0)	715.3 (23173)	21.78	21.86	21.82
		707.5 (23095)	21.64	21.73	21.63
		699.7 (23017)	21.56	21.46	21.37
	6RB (0)	715.3 (23173)	21.55	21.67	21.57
		707.5 (23095)	21.45	21.52	21.45
		699.7 (23017)	21.55	21.50	21.53
3MHz	1RB-High (14)	714.5 (23165)	21.57	21.45	21.33
		707.5 (23095)	21.48	21.55	21.57
		700.5 (23025)	21.42	21.49	21.43
	1RB-Middle (7)	714.5 (23165)	21.57	21.50	21.61
		707.5 (23095)	21.67	21.63	21.55
		700.5 (23025)	21.37	21.38	21.28
	1RB-Low (0)	714.5 (23165)	21.59	21.54	21.64
		707.5 (23095)	21.52	21.46	21.56
		700.5 (23025)	21.54	21.51	21.41
	8RB-High (7)	714.5 (23165)	21.61	21.50	21.48
		707.5 (23095)	21.73	21.64	21.64
		700.5 (23025)	21.82	21.73	21.81
	8RB-Middle (4)	714.5 (23165)	21.57	21.50	21.55
		707.5 (23095)	21.70	21.65	21.67
		700.5 (23025)	21.68	21.57	21.52
	8RB-Low (0)	714.5 (23165)	21.53	21.63	21.50
		707.5 (23095)	21.69	21.62	21.62
		700.5 (23025)	21.45	21.43	21.44
	15RB (0)	714.5 (23165)	21.53	21.45	21.48
		707.5 (23095)	21.65	21.72	21.74
		700.5 (23025)	21.65	21.55	21.46

5MHz	1RB-High (24)	713.5 (23155)	21.47	21.50	21.55
		707.5 (23095)	21.67	21.64	21.59
		701.5 (23035)	21.46	21.49	21.37
	1RB-Middle (12)	713.5 (23155)	21.64	21.67	21.63
		707.5 (23095)	21.35	21.30	21.30
		701.5 (23035)	21.58	21.63	21.54
	1RB-Low (0)	713.5 (23155)	21.81	21.79	21.76
		707.5 (23095)	21.58	21.63	21.69
		701.5 (23035)	21.44	21.39	21.39
	12RB-High (13)	713.5 (23155)	21.73	21.74	21.77
		707.5 (23095)	21.79	21.72	21.78
		701.5 (23035)	21.72	21.70	21.62
	12RB-Middle (6)	713.5 (23155)	21.49	21.37	21.31
		707.5 (23095)	21.58	21.53	21.50
		701.5 (23035)	21.58	21.46	21.50
	12RB-Low (0)	713.5 (23155)	21.81	21.75	21.70
		707.5 (23095)	21.75	21.87	21.82
		701.5 (23035)	21.50	21.60	21.63
	25RB (0)	713.5 (23155)	21.71	21.71	21.73
		707.5 (23095)	21.64	21.55	21.43
		701.5 (23035)	21.83	21.95	21.95
10MHz	1RB-High (49)	711 (23130)	21.77	22.01	21.97
		707.5 (23095)	21.76	21.45	21.54
		704 (23060)	21.67	21.55	21.58
	1RB-Middle (24)	711 (23130)	21.74	21.93	21.87
		707.5 (23095)	21.68	21.51	21.40
		704 (23060)	21.61	21.56	21.59
	1RB-Low (0)	711 (23130)	21.84	21.97	22.09
		707.5 (23095)	21.77	21.45	21.34
		704 (23060)	21.71	21.55	21.44
	25RB-High (25)	711 (23130)	21.86	21.61	21.73
		707.5 (23095)	21.87	21.66	21.76
		704 (23060)	21.85	21.55	21.64
	25RB-Middle (12)	711 (23130)	21.81	21.56	21.65
		707.5 (23095)	21.78	21.58	21.53
		704 (23060)	21.84	21.63	21.51
	25RB-Low (0)	711 (23130)	21.83	21.57	21.64
		707.5 (23095)	21.80	21.60	21.57
		704 (23060)	21.77	21.54	21.64
	50RB (0)	711 (23130)	21.86	21.48	21.44
		707.5 (23095)	21.79	21.60	21.58
		704 (23060)	21.85	21.54	21.44

Band13-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	784.5 (23255)	21.94	22.47	22.37
		782 (23230)	21.96	22.09	21.99
		779.5 (23205)	22.03	22.15	22.10
	1RB-Middle (12)	784.5 (23255)	21.94	22.46	22.51
		782 (23230)	21.96	22.08	22.02
		779.5 (23205)	22.01	22.12	22.11
	1RB-Low (0)	784.5 (23255)	21.87	22.47	22.52
		782 (23230)	21.91	22.01	21.90
		779.5 (23205)	21.93	22.03	22.11
	12RB-High (13)	784.5 (23255)	22.01	22.13	22.11
		782 (23230)	22.04	22.10	21.98
		779.5 (23205)	22.04	22.07	22.19
	12RB-Middle (6)	784.5 (23255)	21.99	22.17	22.24
		782 (23230)	22.00	22.03	22.03
		779.5 (23205)	22.02	22.11	22.23
	12RB-Low (0)	784.5 (23255)	21.94	22.08	21.98
		782 (23230)	21.95	22.04	22.06
		779.5 (23205)	21.92	22.01	21.96
	25RB (0)	784.5 (23255)	21.97	22.05	21.93
		782 (23230)	21.97	21.92	22.00
		779.5 (23205)	22.04	22.02	22.11
10MHz	1RB-High (49)	782 (23230)	21.90	21.87	21.78
	1RB-Middle (24)	782 (23230)	21.95	22.00	22.00
	1RB-Low (0)	782 (23230)	21.86	21.98	22.01
	25RB-High (25)	782 (23230)	22.01	22.13	22.14
	25RB-Middle (12)	782 (23230)	21.99	22.11	22.14
	25RB-Low (0)	782 (23230)	21.97	22.07	22.17
	50RB (0)	782 (23230)	21.95	22.07	22.01

Band14-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	795.5 (23355)	21.82	22.03	22.01
		793 (23330)	21.92	21.99	21.93
		790.5 (23305)	21.99	22.54	22.57
	1RB-Middle (12)	795.5 (23355)	21.88	21.97	22.04
		793 (23330)	22.07	22.04	21.96
		790.5 (23305)	21.95	22.41	22.45
	1RB-Low (0)	795.5 (23355)	21.95	22.14	22.13
		793 (23330)	21.95	22.06	21.93
		790.5 (23305)	21.99	22.49	22.51
	12RB-High (13)	795.5 (23355)	21.96	21.10	21.07
		793 (23330)	21.93	21.01	21.07
		790.5 (23305)	21.97	21.13	21.17
	12RB-Middle (6)	795.5 (23355)	22.05	21.09	21.15
		793 (23330)	21.96	21.06	21.18
		790.5 (23305)	22.05	21.18	21.10
	12RB-Low (0)	795.5 (23355)	22.03	21.13	21.24
		793 (23330)	21.98	21.04	20.92
		790.5 (23305)	22.05	21.20	21.16
	25RB (0)	795.5 (23355)	21.97	21.11	21.06
		793 (23330)	21.97	21.16	21.12
		790.5 (23305)	22.01	21.09	20.99
10MHz	1RB-High (49)	793 (23330)	21.73	21.96	21.84
	1RB-Middle (24)	793 (23330)	21.76	21.98	22.08
	1RB-Low (0)	793 (23330)	21.82	22.14	22.13
	25RB-High (25)	793 (23330)	21.88	21.06	20.93
	25RB-Middle (12)	793 (23330)	21.97	21.05	21.04
	25RB-Low (0)	793 (23330)	21.98	21.01	20.97
	50RB (0)	793 (23330)	21.94	21.17	21.15

Band25-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1914.3 (26683)	17.87	17.92	17.99
		1882.5 (26365)	17.99	17.94	17.88
		1850.7 (26047)	18.03	17.90	17.77
	1RB-Middle (3)	1914.3 (26683)	17.94	17.96	17.85
		1882.5 (26365)	18.18	18.16	18.14
		1850.7 (26047)	18.02	18.02	17.95
	1RB-Low (0)	1914.3 (26683)	18.01	18.07	18.10
		1882.5 (26365)	18.02	17.92	17.97
		1850.7 (26047)	18.10	18.13	18.14
	3RB-High (3)	1914.3 (26683)	18.34	18.36	18.26
		1882.5 (26365)	18.43	18.42	18.48
		1850.7 (26047)	18.21	18.27	18.28
	3RB-Middle (1)	1914.3 (26683)	18.20	18.31	18.18
		1882.5 (26365)	18.40	18.40	18.50
		1850.7 (26047)	18.16	18.08	17.97
	3RB-Low (0)	1914.3 (26683)	18.23	18.24	18.19
		1882.5 (26365)	18.14	18.24	18.17
		1850.7 (26047)	18.09	18.11	18.18
	6RB (0)	1914.3 (26683)	18.35	18.28	18.28
		1882.5 (26365)	18.39	18.48	18.45
		1850.7 (26047)	18.26	18.27	18.21
3MHz	1RB-High (14)	1913.5 (26675)	18.09	18.08	18.10
		1882.5 (26365)	18.10	18.01	18.02
		1851.5 (26055)	18.08	17.99	18.05
	1RB-Middle (7)	1913.5 (26675)	17.98	17.96	18.06
		1882.5 (26365)	18.23	18.29	18.23
		1851.5 (26055)	18.14	18.08	18.09
	1RB-Low (0)	1913.5 (26675)	18.00	17.92	17.81
		1882.5 (26365)	18.14	18.04	18.10
		1851.5 (26055)	18.10	18.04	18.10
	8RB-High (7)	1913.5 (26675)	18.35	18.36	18.39
		1882.5 (26365)	18.36	18.25	18.28
		1851.5 (26055)	18.22	18.27	18.29
	8RB-Middle (4)	1913.5 (26675)	18.22	18.21	18.30
		1882.5 (26365)	18.12	18.14	18.14
		1851.5 (26055)	18.33	18.24	18.15
	8RB-Low (0)	1913.5 (26675)	18.20	18.24	18.20
		1882.5 (26365)	18.28	18.29	18.23
		1851.5 (26055)	18.09	18.07	17.95
	15RB (0)	1913.5 (26675)	18.27	18.16	18.22
		1882.5 (26365)	18.32	18.38	18.44
		1851.5 (26055)	18.34	18.26	18.17

5MHz	1RB-High (24)	1912.5 (26665)	18.06	18.14	18.25
		1882.5 (26365)	18.15	18.24	18.22
		1852.5 (26065)	18.14	18.18	18.25
	1RB-Middle (12)	1912.5 (26665)	18.21	18.11	18.07
		1882.5 (26365)	18.08	18.14	18.04
		1852.5 (26065)	17.98	18.00	17.97
	1RB-Low (0)	1912.5 (26665)	18.05	17.95	17.87
		1882.5 (26365)	17.97	18.09	18.02
		1852.5 (26065)	18.19	18.17	18.03
	12RB-High (13)	1912.5 (26665)	18.16	18.23	18.19
		1882.5 (26365)	18.36	18.40	18.46
		1852.5 (26065)	18.16	18.28	18.36
	12RB-Middle (6)	1912.5 (26665)	18.12	18.06	17.93
		1882.5 (26365)	18.16	18.08	18.02
		1852.5 (26065)	18.43	18.42	18.52
	12RB-Low (0)	1912.5 (26665)	18.25	18.20	18.18
		1882.5 (26365)	18.11	17.97	17.84
		1852.5 (26065)	18.21	18.16	18.16
	25RB (0)	1912.5 (26665)	18.28	18.15	18.12
		1882.5 (26365)	18.40	18.33	18.41
		1852.5 (26065)	18.11	18.18	18.25
10MHz	1RB-High (49)	1910 (26640)	18.04	18.00	18.06
		1882.5 (26365)	18.22	18.14	18.04
		1855 (26090)	18.03	18.09	17.99
	1RB-Middle (24)	1910 (26640)	18.16	18.18	18.29
		1882.5 (26365)	17.95	17.98	17.98
		1855 (26090)	18.16	18.12	18.05
	1RB-Low (0)	1910 (26640)	17.85	17.88	17.77
		1882.5 (26365)	18.13	18.08	18.18
		1855 (26090)	18.03	18.03	18.03
	25RB-High (25)	1910 (26640)	18.23	18.33	18.30
		1882.5 (26365)	18.35	18.37	18.38
		1855 (26090)	18.37	18.31	18.35
	25RB-Middle (12)	1910 (26640)	18.27	18.24	18.18
		1882.5 (26365)	18.43	18.41	18.43
		1855 (26090)	18.18	18.25	18.25
	25RB-Low (0)	1910 (26640)	18.17	18.21	18.09
		1882.5 (26365)	18.31	18.27	18.31
		1855 (26090)	18.40	18.50	18.39
	50RB (0)	1910 (26640)	18.38	18.50	18.47
		1882.5 (26365)	18.28	18.38	18.48
		1855 (26090)	18.25	18.28	18.35

15MHz	1RB-High (74)	1907.5 (26615)	17.93	18.02	17.99
		1882.5 (26365)	18.21	18.21	18.12
		1857.5 (26115)	18.26	18.28	18.20
	1RB-Middle (37)	1907.5 (26615)	17.93	17.87	17.96
		1882.5 (26365)	18.04	18.12	18.05
		1857.5 (26115)	18.15	18.19	18.13
	1RB-Low (0)	1907.5 (26615)	18.04	18.11	18.18
		1882.5 (26365)	18.27	18.18	18.22
		1857.5 (26115)	18.07	18.05	18.10
	36RB-High (38)	1907.5 (26615)	18.31	18.19	18.14
		1882.5 (26365)	18.17	18.06	18.00
		1857.5 (26115)	18.18	18.11	18.11
	36RB-Middle (19)	1907.5 (26615)	18.30	18.38	18.28
		1882.5 (26365)	18.26	18.26	18.31
		1857.5 (26115)	18.46	18.34	18.21
	36RB-Low (0)	1907.5 (26615)	18.08	17.98	17.95
		1882.5 (26365)	18.36	18.36	18.27
		1857.5 (26115)	18.17	18.06	18.04
	75RB (0)	1907.5 (26615)	18.42	18.53	18.42
		1882.5 (26365)	18.23	18.30	18.27
		1857.5 (26115)	18.21	18.26	18.26
20MHz	1RB-High (99)	1905 (26590)	18.18	18.81	18.82
		1882.5 (26365)	18.31	18.52	18.62
		1860 (26140)	18.28	18.77	18.86
	1RB-Middle (50)	1905 (26590)	18.22	18.66	18.76
		1882.5 (26365)	18.27	18.53	18.54
		1860 (26140)	18.25	18.72	18.61
	1RB-Low (0)	1905 (26590)	18.16	18.72	18.65
		1882.5 (26365)	18.29	18.47	18.57
		1860 (26140)	18.27	18.65	18.57
	50RB-High (50)	1905 (26590)	18.40	18.28	18.20
		1882.5 (26365)	18.44	18.26	18.37
		1860 (26140)	18.43	18.29	18.36
	50RB-Middle (25)	1905 (26590)	18.41	18.28	18.27
		1882.5 (26365)	18.45	18.31	18.32
		1860 (26140)	18.46	18.28	18.24
	50RB-Low (0)	1905 (26590)	18.36	18.16	18.04
		1882.5 (26365)	18.38	18.18	18.27
		1860 (26140)	18.40	18.27	18.30
	100RB (0)	1905 (26590)	18.47	18.27	18.17
		1882.5 (26365)	18.45	18.28	18.30
		1860 (26140)	18.42	18.29	18.39

Band26-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	848.3 (27033)	20.36	20.39	20.27
		831.5 (26865)	20.35	20.35	20.39
		814.7 (26697)	20.45	20.43	20.55
	1RB-Middle (3)	848.3 (27033)	20.48	20.53	20.46
		831.5 (26865)	20.47	20.50	20.56
		814.7 (26697)	20.23	20.31	20.33
	1RB-Low (0)	848.3 (27033)	20.37	20.34	20.32
		831.5 (26865)	20.54	20.56	20.59
		814.7 (26697)	20.47	20.55	20.65
	3RB-High (3)	848.3 (27033)	20.60	20.47	20.48
		831.5 (26865)	20.73	20.80	20.73
		814.7 (26697)	20.68	20.71	20.81
	3RB-Middle (1)	848.3 (27033)	20.33	20.35	20.43
		831.5 (26865)	20.45	20.54	20.47
		814.7 (26697)	20.56	20.50	20.53
	3RB-Low (0)	848.3 (27033)	20.35	20.43	20.48
		831.5 (26865)	20.53	20.53	20.56
		814.7 (26697)	20.47	20.38	20.40
	6RB (0)	848.3 (27033)	20.39	20.44	20.33
		831.5 (26865)	20.46	20.45	20.41
		814.7 (26697)	20.56	20.45	20.51
3MHz	1RB-High (14)	847.5 (27025)	20.21	20.12	20.15
		831.5 (26865)	20.50	20.46	20.47
		815.5 (26705)	20.39	20.27	20.32
	1RB-Middle (7)	847.5 (27025)	20.24	20.13	20.03
		831.5 (26865)	20.50	20.55	20.59
		815.5 (26705)	20.31	20.20	20.23
	1RB-Low (0)	847.5 (27025)	20.58	20.62	20.64
		831.5 (26865)	20.45	20.55	20.47
		815.5 (26705)	20.45	20.56	20.50
	8RB-High (7)	847.5 (27025)	20.60	20.66	20.57
		831.5 (26865)	20.62	20.70	20.60
		815.5 (26705)	20.64	20.69	20.74
	8RB-Middle (4)	847.5 (27025)	20.54	20.58	20.55
		831.5 (26865)	20.44	20.38	20.38
		815.5 (26705)	20.43	20.38	20.44
	8RB-Low (0)	847.5 (27025)	20.56	20.54	20.66
		831.5 (26865)	20.45	20.49	20.48
		815.5 (26705)	20.49	20.59	20.64
	15RB (0)	847.5 (27025)	20.61	20.63	20.72
		831.5 (26865)	20.69	20.56	20.44
		815.5 (26705)	20.52	20.58	20.50

5MHz	1RB-High (24)	846.5 (27015)	20.46	20.42	20.54
		831.5 (26865)	20.34	20.28	20.17
		816.5 (26715)	20.27	20.35	20.43
	1RB-Middle (12)	846.5 (27015)	20.21	20.17	20.17
		831.5 (26865)	20.42	20.53	20.63
		816.5 (26715)	20.43	20.31	20.42
	1RB-Low (0)	846.5 (27015)	20.42	20.49	20.36
		831.5 (26865)	20.47	20.49	20.59
		816.5 (26715)	20.57	20.63	20.56
	12RB-High (13)	846.5 (27015)	20.47	20.55	20.57
		831.5 (26865)	20.73	20.82	20.88
		816.5 (26715)	20.54	20.50	20.57
	12RB-Middle (6)	846.5 (27015)	20.46	20.53	20.42
		831.5 (26865)	20.55	20.46	20.36
		816.5 (26715)	20.68	20.72	20.61
	12RB-Low (0)	846.5 (27015)	20.39	20.33	20.33
		831.5 (26865)	20.47	20.42	20.45
		816.5 (26715)	20.51	20.61	20.48
	25RB (0)	846.5 (27015)	20.37	20.45	20.45
		831.5 (26865)	20.65	20.68	20.64
		816.5 (26715)	20.60	20.63	20.63
10MHz	1RB-High (49)	844 (26990)	20.47	20.48	20.54
		831.5 (26865)	20.46	20.34	20.22
		820 (26750)	20.45	20.36	20.40
	1RB-Middle (24)	844 (26990)	20.27	20.20	20.25
		831.5 (26865)	20.45	20.51	20.55
		820 (26750)	20.49	20.53	20.50
	1RB-Low (0)	844 (26990)	20.59	20.54	20.55
		831.5 (26865)	20.58	20.46	20.36
		820 (26750)	20.54	20.58	20.47
	25RB-High (25)	844 (26990)	20.50	20.55	20.57
		831.5 (26865)	20.71	20.61	20.68
		820 (26750)	20.73	20.75	20.69
	25RB-Middle (12)	844 (26990)	20.34	20.31	20.26
		831.5 (26865)	20.47	20.40	20.32
		820 (26750)	20.47	20.57	20.66
	25RB-Low (0)	844 (26990)	20.49	20.53	20.58
		831.5 (26865)	20.48	20.49	20.40
		820 (26750)	20.57	20.46	20.38
	50RB (0)	844 (26990)	20.44	20.33	20.24
		831.5 (26865)	20.49	20.48	20.38
		820 (26750)	20.51	20.62	20.59

15MHz	1RB-High (74)	841.5 (26965)	20.53	20.67	20.70
		831.5 (26865)	20.63	20.75	20.69
		822.5 (26775)	20.59	20.50	20.58
	1RB-Middle (37)	841.5 (26965)	20.54	20.79	20.91
		831.5 (26865)	20.68	20.75	20.64
		822.5 (26775)	20.54	20.44	20.36
	1RB-Low (0)	841.5 (26965)	20.66	20.79	20.88
		831.5 (26865)	20.69	20.74	20.84
		822.5 (26775)	20.62	20.50	20.38
	36RB-High (38)	841.5 (26965)	20.76	20.55	20.58
		831.5 (26865)	20.76	20.57	20.50
		822.5 (26775)	20.79	20.59	20.48
	36RB-Middle (19)	841.5 (26965)	20.65	20.50	20.56
		831.5 (26865)	20.70	20.48	20.54
		822.5 (26775)	20.74	20.60	20.68
	36RB-Low (0)	841.5 (26965)	20.66	20.58	20.53
		831.5 (26865)	20.73	20.53	20.63
		822.5 (26775)	20.72	20.54	20.61
	75RB (0)	841.5 (26965)	20.68	20.53	20.60
		831.5 (26865)	20.70	20.53	20.62
		822.5 (26775)	20.77	20.59	20.71

Band30-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2312.5 (27735)	22.92	22.13	21.50
		2310 (27710)	23.02	22.19	21.57
		2307.5 (27685)	22.95	22.42	21.63
	1RB-Middle (12)	2312.5 (27735)	22.93	22.31	21.80
		2310 (27710)	23.11	22.20	21.93
		2307.5 (27685)	22.90	22.48	21.78
	1RB-Low (0)	2312.5 (27735)	23.05	22.19	21.81
		2310 (27710)	23.06	22.25	22.00
		2307.5 (27685)	22.88	22.48	21.74
	12RB-High (13)	2312.5 (27735)	21.95	21.01	20.55
		2310 (27710)	21.93	21.06	20.62
		2307.5 (27685)	22.04	21.17	20.65
	12RB-Middle (6)	2312.5 (27735)	22.08	21.11	20.69
		2310 (27710)	22.00	21.13	20.61
		2307.5 (27685)	22.04	21.18	20.65
	12RB-Low (0)	2312.5 (27735)	21.98	21.10	20.62
		2310 (27710)	21.93	21.10	20.57
		2307.5 (27685)	22.03	21.15	20.62
	25RB (0)	2312.5 (27735)	21.98	20.99	20.58
		2310 (27710)	21.99	20.99	20.61
		2307.5 (27685)	22.05	21.08	20.58
10MHz	1RB-High (49)	2310 (27710)	22.99	21.92	21.65
	1RB-Middle (24)	2310 (27710)	22.99	21.95	21.73
	1RB-Low (0)	2310 (27710)	22.94	22.02	22.00
	25RB-High (25)	2310 (27710)	21.95	21.06	20.54
	25RB-Middle (12)	2310 (27710)	21.98	21.06	20.57
	25RB-Low (0)	2310 (27710)	21.95	21.00	20.63
	50RB (0)	2310 (27710)	21.91	20.96	20.38

Band41-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	22.91	21.93	21.36
		2640.3(41093)	22.83	22.13	21.39
		2593 (40620)	23.09	21.93	21.41
		2545.8(40148)	22.93	21.91	21.43
		2498.5 (39675)	22.83	22.09	21.43
	1RB-Middle (12)	2687.5 (41565)	22.70	21.92	21.41
		2640.3(41093)	22.78	22.13	21.45
		2593 (40620)	23.21	21.99	21.46
		2545.8(40148)	22.89	21.93	21.48
		2498.5 (39675)	22.79	22.07	21.37
	1RB-Low (0)	2687.5 (41565)	22.84	21.84	21.38
		2640.3(41093)	22.86	22.16	21.45
		2593 (40620)	23.02	21.97	21.39
		2545.8(40148)	22.88	21.89	21.46
		2498.5 (39675)	22.76	22.06	21.41
	12RB-High (13)	2687.5 (41565)	21.99	20.93	20.46
		2640.3(41093)	21.95	21.03	20.48
		2593 (40620)	22.03	21.00	20.47
		2545.8(40148)	21.91	20.86	20.50
		2498.5 (39675)	21.92	20.99	20.48
	12RB-Middle (6)	2687.5 (41565)	21.98	20.94	20.48
		2640.3(41093)	22.01	21.08	20.56
		2593 (40620)	22.08	21.03	20.48
		2545.8(40148)	22.00	20.94	20.58
		2498.5 (39675)	21.95	21.05	20.52
	12RB-Low (0)	2687.5 (41565)	21.97	20.86	20.43
		2640.3(41093)	21.95	21.06	20.53
		2593 (40620)	22.12	21.06	20.52
		2545.8(40148)	21.98	20.93	20.56
		2498.5 (39675)	21.91	20.98	20.49
	25RB (0)	2687.5 (41565)	21.96	20.99	20.45
		2640.3(41093)	21.98	20.97	20.53
		2593 (40620)	22.01	21.00	20.41
		2545.8(40148)	21.93	20.91	20.47
		2498.5 (39675)	21.92	20.92	20.46

10MHz	1RB-High (49)	2685 (41540)	22.91	21.88	21.36
		2639(41080)	22.84	21.95	21.45
		2593 (40620)	22.99	22.10	21.33
		2547(40160)	22.98	21.85	21.31
		2501 (39700)	22.82	21.98	21.37
	1RB-Middle (24)	2685 (41540)	22.79	21.80	21.39
		2639(41080)	22.89	22.10	21.53
		2593 (40620)	23.05	22.12	21.58
		2547(40160)	22.92	21.76	21.42
		2501 (39700)	22.86	21.96	21.63
	1RB-Low (0)	2685 (41540)	22.83	21.79	21.24
		2639(41080)	22.78	21.97	21.54
		2593 (40620)	23.04	22.08	21.53
		2547(40160)	22.98	21.89	21.50
		2501 (39700)	22.78	22.00	21.71
	25RB-High (25)	2685 (41540)	21.98	20.98	20.44
		2639(41080)	21.91	20.91	20.49
		2593 (40620)	22.02	21.03	20.47
		2547(40160)	21.98	20.93	20.54
		2501 (39700)	21.90	20.92	20.34
	25RB-Middle (12)	2685 (41540)	21.99	20.91	20.48
		2639(41080)	21.90	20.90	20.54
		2593 (40620)	21.97	21.01	20.53
		2547(40160)	22.01	20.99	20.64
		2501 (39700)	21.93	20.91	20.38
	25RB-Low (0)	2685 (41540)	21.94	20.88	20.44
		2639(41080)	21.93	20.94	20.56
		2593 (40620)	22.01	21.06	20.55
		2547(40160)	21.98	20.94	20.57
		2501 (39700)	21.96	20.95	20.37
	50RB (0)	2685 (41540)	21.95	20.97	20.35
		2639(41080)	21.89	20.93	20.44
		2593 (40620)	21.96	20.97	20.42
		2547(40160)	22.01	21.00	20.54
		2501 (39700)	21.93	20.89	20.38

15MHz	1RB-High (74)	2682.5 (41515)	22.74	21.82	20.93
		2637.8(41068)	22.73	21.76	21.26
		2593 (40620)	22.76	21.79	21.19
		2548.3(40173)	22.77	21.69	21.05
		2503.5 (39725)	22.67	21.62	20.95
	1RB-Middle (37)	2682.5 (41515)	22.59	21.72	20.89
		2637.8(41068)	22.66	21.70	21.21
		2593 (40620)	22.75	21.82	21.16
		2548.3(40173)	22.66	21.64	21.09
		2503.5 (39725)	22.66	21.63	21.00
	1RB-Low (0)	2682.5 (41515)	22.58	21.72	20.98
		2637.8(41068)	22.67	21.70	21.21
		2593 (40620)	22.80	21.88	21.28
		2548.3(40173)	22.77	21.73	21.21
		2503.5 (39725)	22.62	21.62	20.99
	36RB-High (38)	2682.5 (41515)	21.75	20.71	20.16
		2637.8(41068)	21.77	20.74	20.25
		2593 (40620)	21.80	20.85	20.22
		2548.3(40173)	21.74	20.71	20.23
		2503.5 (39725)	21.72	20.67	20.16
	36RB-Middle (19)	2682.5 (41515)	21.77	20.76	20.19
		2637.8(41068)	21.79	20.78	20.34
		2593 (40620)	21.75	20.79	20.21
		2548.3(40173)	21.79	20.77	20.30
		2503.5 (39725)	21.78	20.75	20.23
	36RB-Low (0)	2682.5 (41515)	21.73	20.73	20.18
		2637.8(41068)	21.74	20.75	20.39
		2593 (40620)	21.86	20.86	20.34
		2548.3(40173)	21.81	20.78	20.34
		2503.5 (39725)	21.74	20.75	20.17
	75RB (0)	2682.5 (41515)	21.76	20.74	20.25
		2637.8(41068)	21.69	20.70	20.29
		2593 (40620)	21.80	20.77	20.23
		2548.3(40173)	21.78	20.79	20.32
		2503.5 (39725)	21.68	20.71	20.13

20MHz	1RB-High (99)	2680 (41490)	22.69	21.75	21.12
		2636.5(41055)	22.70	21.68	21.24
		2593 (40620)	22.88	21.83	21.20
		2549.5(40185)	22.67	21.73	21.04
		2506 (39750)	22.72	21.55	21.01
	1RB-Middle (50)	2680 (41490)	22.48	21.58	20.94
		2636.5(41055)	22.57	21.59	21.25
		2593 (40620)	22.81	21.67	21.18
		2549.5(40185)	22.63	21.71	21.07
		2506 (39750)	22.67	21.50	20.92
	1RB-Low (0)	2680 (41490)	22.58	21.65	21.16
		2636.5(41055)	22.59	21.60	21.24
		2593 (40620)	22.82	21.73	21.30
		2549.5(40185)	22.61	21.63	21.12
		2506 (39750)	22.60	21.49	20.99
	50RB-High (50)	2680 (41490)	21.64	20.64	20.22
		2636.5(41055)	21.73	20.67	20.32
		2593 (40620)	21.82	20.79	20.24
		2549.5(40185)	21.70	20.73	20.21
		2506 (39750)	21.68	20.60	20.21
	50RB-Middle (25)	2680 (41490)	21.65	20.70	20.28
		2636.5(41055)	21.73	20.66	20.34
		2593 (40620)	21.81	20.82	20.25
		2549.5(40185)	21.76	20.80	20.35
		2506 (39750)	21.67	20.57	20.23
	50RB-Low (0)	2680 (41490)	21.64	20.63	20.20
		2636.5(41055)	21.77	20.65	20.35
		2593 (40620)	21.85	20.82	20.33
		2549.5(40185)	21.70	20.73	20.32
		2506 (39750)	21.71	20.66	20.24
	100RB (0)	2680 (41490)	21.68	20.64	20.24
		2636.5(41055)	21.70	20.64	20.31
		2593 (40620)	21.77	20.77	20.22
		2549.5(40185)	21.74	20.73	20.31
		2506 (39750)	21.64	20.66	20.22

Band48-Power Level A1/C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	3697.5(56715)	22.45	22.50	22.58
		3625(55990)	21.99	22.05	22.11
		3552.5(55265)	22.10	22.13	22.13
	1RB-Middle (12)	3697.5(56715)	22.46	22.48	22.51
		3625(55990)	21.93	21.99	21.94
		3552.5(55265)	22.00	22.04	21.97
	1RB-Low (0)	3697.5(56715)	22.43	22.45	22.54
		3625(55990)	21.86	21.88	21.91
		3552.5(55265)	21.92	22.00	21.99
	12RB-High (13)	3697.5(56715)	22.54	22.34	22.39
		3625(55990)	21.99	21.83	21.82
		3552.5(55265)	22.05	21.88	21.87
	12RB-Middle (6)	3697.5(56715)	22.56	22.43	22.42
		3625(55990)	22.06	21.89	21.87
		3552.5(55265)	22.12	21.92	21.92
	12RB-Low (0)	3697.5(56715)	22.57	22.38	22.40
		3625(55990)	21.94	21.81	21.78
		3552.5(55265)	22.03	21.91	21.88
	25RB (0)	3697.5(56715)	22.53	22.39	22.34
		3625(55990)	21.97	21.80	21.72
		3552.5(55265)	22.03	21.93	21.91
10MHz	1RB-High (49)	3695(56690)	22.34	22.53	22.42
		3625(55990)	21.99	22.08	21.96
		3555(55290)	22.07	22.11	22.08
	1RB-Middle (24)	3695(56690)	22.38	22.45	22.45
		3625(55990)	21.92	21.93	21.87
		3555(55290)	22.02	22.02	21.95
	1RB-Low (0)	3695(56690)	22.47	22.62	22.55
		3625(55990)	21.90	22.01	21.91
		3555(55290)	21.93	22.04	22.01
	25RB-High (25)	3695(56690)	22.56	22.40	22.37
		3625(55990)	22.01	21.88	21.81
		3555(55290)	22.10	21.95	21.93
	25RB-Middle (12)	3695(56690)	22.46	22.35	22.31
		3625(55990)	21.92	21.78	21.76
		3555(55290)	22.10	21.94	21.89
	25RB-Low (0)	3695(56690)	22.45	22.34	22.28
		3625(55990)	21.89	21.73	21.68
		3555(55290)	22.02	21.89	21.87
	50RB (0)	3695(56690)	22.48	22.36	22.27
		3625(55990)	21.90	21.76	21.72
		3555(55290)	22.08	21.91	21.89

15MHz	1RB-High (74)	3692.5(56665)	22.13	22.37	22.29
		3625(55990)	21.77	21.93	21.91
		3557.5(55315)	21.83	22.00	21.94
	1RB-Middle (37)	3692.5(56665)	22.17	22.38	22.28
		3625(55990)	21.61	21.79	21.76
		3557.5(55315)	21.77	21.92	21.86
	1RB-Low (0)	3692.5(56665)	22.21	22.43	22.32
		3625(55990)	21.60	21.75	21.74
		3557.5(55315)	21.70	21.89	21.85
	36RB-High (38)	3692.5(56665)	22.38	22.24	22.24
		3625(55990)	21.89	21.70	21.74
		3557.5(55315)	22.01	21.80	21.83
	36RB-Middle (19)	3692.5(56665)	22.39	22.22	22.22
		3625(55990)	21.80	21.59	21.59
		3557.5(55315)	22.00	21.77	21.78
	36RB-Low (0)	3692.5(56665)	22.33	22.19	22.18
		3625(55990)	21.69	21.53	21.53
		3557.5(55315)	21.88	21.66	21.66
	75RB (0)	3692.5(56665)	22.33	22.19	22.15
		3625(55990)	21.77	21.64	21.63
		3557.5(55315)	21.99	21.80	21.80
20MHz	1RB-High (99)	3690(56640)	22.19	22.40	22.25
		3625(55990)	22.01	22.17	21.89
		3560(55340)	22.20	22.39	21.92
	1RB-Middle (50)	3690(56640)	22.19	22.42	22.26
		3625(55990)	21.87	22.08	21.72
		3560(55340)	22.19	22.38	21.84
	1RB-Low (0)	3690(56640)	22.28	22.35	22.33
		3625(55990)	21.78	22.02	21.73
		3560(55340)	22.11	22.36	21.82
	50RB-High (50)	3690(56640)	22.40	22.48	22.17
		3625(55990)	22.21	22.19	21.71
		3560(55340)	22.40	22.42	21.78
	50RB-Middle (25)	3690(56640)	22.41	22.49	22.24
		3625(55990)	21.98	22.03	21.56
		3560(55340)	22.39	22.41	21.78
	50RB-Low (0)	3690(56640)	22.39	22.42	22.13
		3625(55990)	21.94	22.03	21.50
		3560(55340)	22.24	22.31	21.62
	100RB (0)	3690(56640)	22.49	22.54	22.29
		3625(55990)	21.98	22.08	21.65
		3560(55340)	22.41	22.48	21.85

Band66-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	19.13	19.01	19.03
		1745 (132322)	19.16	19.03	18.99
		1710.7 (131979)	18.99	18.98	19.06
	1RB-Middle (3)	1779.3 (132665)	19.09	19.06	19.06
		1745 (132322)	19.13	19.06	19.06
		1710.7 (131979)	18.90	18.90	19.00
	1RB-Low (0)	1779.3 (132665)	19.04	19.02	19.10
		1745 (132322)	18.96	18.83	18.85
		1710.7 (131979)	18.97	18.99	19.10
	3RB-High (3)	1779.3 (132665)	19.37	19.47	19.48
		1745 (132322)	19.44	19.49	19.36
		1710.7 (131979)	19.38	19.30	19.35
	3RB-Middle (1)	1779.3 (132665)	19.18	19.24	19.24
		1745 (132322)	19.21	19.17	19.23
		1710.7 (131979)	19.13	19.15	19.22
	3RB-Low (0)	1779.3 (132665)	19.26	19.13	19.00
		1745 (132322)	19.07	19.07	19.15
		1710.7 (131979)	19.00	19.00	18.89
	6RB (0)	1779.3 (132665)	19.13	19.10	19.00
		1745 (132322)	19.23	19.33	19.32
		1710.7 (131979)	19.35	19.23	19.15
3MHz	1RB-High (14)	1778.5 (132657)	19.17	19.04	19.01
		1745 (132322)	19.07	18.98	18.92
		1711.5 (131987)	19.02	18.92	19.01
	1RB-Middle (7)	1778.5 (132657)	19.11	19.23	19.33
		1745 (132322)	19.04	19.15	19.09
		1711.5 (131987)	18.98	19.10	18.98
	1RB-Low (0)	1778.5 (132657)	19.35	19.32	19.28
		1745 (132322)	19.12	19.15	19.02
		1711.5 (131987)	19.05	19.12	19.19
	8RB-High (7)	1778.5 (132657)	19.18	19.21	19.20
		1745 (132322)	19.17	19.05	19.11
		1711.5 (131987)	19.20	19.23	19.10
	8RB-Middle (4)	1778.5 (132657)	19.06	19.08	19.20
		1745 (132322)	19.14	19.24	19.13
		1711.5 (131987)	19.33	19.27	19.28
	8RB-Low (0)	1778.5 (132657)	19.35	19.24	19.35
		1745 (132322)	19.05	19.15	19.24
		1711.5 (131987)	19.09	19.05	19.09
	15RB (0)	1778.5 (132657)	19.11	19.07	19.09
		1745 (132322)	19.07	19.09	19.21
		1711.5 (131987)	19.21	19.09	18.96

5MHz	1RB-High (24)	1777.5 (132647)	19.25	19.28	19.38
		1745 (132322)	19.20	19.32	19.34
		1712.5 (131997)	19.09	19.11	18.98
	1RB-Middle (12)	1777.5 (132647)	19.18	19.29	19.18
		1745 (132322)	19.22	19.26	19.17
		1712.5 (131997)	18.91	18.83	18.82
	1RB-Low (0)	1777.5 (132647)	19.15	19.08	19.10
		1745 (132322)	18.87	18.89	18.78
		1712.5 (131997)	19.21	19.24	19.19
	12RB-High (13)	1777.5 (132647)	19.44	19.52	19.60
		1745 (132322)	19.14	19.04	19.07
		1712.5 (131997)	19.25	19.19	19.18
	12RB-Middle (6)	1777.5 (132647)	19.14	19.12	19.06
		1745 (132322)	19.22	19.22	19.22
		1712.5 (131997)	19.15	19.20	19.32
	12RB-Low (0)	1777.5 (132647)	19.19	19.13	19.04
		1745 (132322)	19.29	19.33	19.30
		1712.5 (131997)	18.98	19.00	18.91
	25RB (0)	1777.5 (132647)	19.16	19.06	19.03
		1745 (132322)	19.20	19.10	19.06
		1712.5 (131997)	19.29	19.39	19.50
10MHz	1RB-High (49)	1775 (132622)	19.22	19.24	19.14
		1745 (132322)	19.20	19.31	19.40
		1715 (132022)	19.24	19.24	19.11
	1RB-Middle (24)	1775 (132622)	19.10	19.10	19.21
		1745 (132322)	19.22	19.18	19.23
		1715 (132022)	19.21	19.24	19.32
	1RB-Low (0)	1775 (132622)	19.03	18.94	18.84
		1745 (132322)	19.12	18.98	18.98
		1715 (132022)	19.13	19.12	19.15
	25RB-High (25)	1775 (132622)	19.35	19.30	19.27
		1745 (132322)	19.34	19.28	19.20
		1715 (132022)	19.26	19.34	19.39
	25RB-Middle (12)	1775 (132622)	19.13	19.06	19.14
		1745 (132322)	19.06	19.13	19.14
		1715 (132022)	19.27	19.32	19.33
	25RB-Low (0)	1775 (132622)	19.35	19.31	19.26
		1745 (132322)	19.13	19.14	19.01
		1715 (132022)	19.26	19.18	19.09
	50RB (0)	1775 (132622)	19.05	19.05	19.01
		1745 (132322)	19.03	18.90	18.97
		1715 (132022)	19.15	19.26	19.30

15MHz	1RB-High (74)	1772.5 (132597)	19.14	19.15	19.21
		1745 (132322)	19.12	19.10	19.08
		1717.5 (132047)	19.13	19.25	19.19
	1RB-Middle (37)	1772.5 (132597)	19.11	19.19	19.29
		1745 (132322)	19.16	19.07	19.05
		1717.5 (132047)	19.04	18.93	18.98
	1RB-Low (0)	1772.5 (132597)	19.29	19.28	19.35
		1745 (132322)	19.15	19.18	19.16
		1717.5 (132047)	19.09	19.13	19.16
	36RB-High (38)	1772.5 (132597)	19.36	19.23	19.27
		1745 (132322)	19.19	19.26	19.25
		1717.5 (132047)	19.10	19.14	19.14
	36RB-Middle (19)	1772.5 (132597)	19.16	19.11	19.02
		1745 (132322)	19.04	19.13	19.04
		1717.5 (132047)	19.26	19.19	19.09
	36RB-Low (0)	1772.5 (132597)	19.06	19.08	19.01
		1745 (132322)	19.02	19.03	18.98
		1717.5 (132047)	19.02	19.13	19.16
	75RB (0)	1772.5 (132597)	19.19	19.26	19.31
		1745 (132322)	19.10	19.13	19.25
		1717.5 (132047)	19.11	19.11	19.09
20MHz	1RB-High (99)	1770 (132572)	19.39	19.72	19.69
		1745 (132322)	19.30	19.62	19.71
		1720 (132072)	19.31	19.44	19.39
	1RB-Middle (50)	1770 (132572)	19.32	19.74	19.86
		1745 (132322)	19.25	19.61	19.51
		1720 (132072)	19.24	19.39	19.41
	1RB-Low (0)	1770 (132572)	19.36	19.60	19.66
		1745 (132322)	19.17	19.54	19.44
		1720 (132072)	19.22	19.36	19.36
	50RB-High (50)	1770 (132572)	19.45	19.22	19.28
		1745 (132322)	19.44	19.19	19.25
		1720 (132072)	19.39	19.09	19.03
	50RB-Middle (25)	1770 (132572)	19.38	19.15	19.25
		1745 (132322)	19.36	19.09	19.09
		1720 (132072)	19.38	19.05	19.17
	50RB-Low (0)	1770 (132572)	19.35	19.09	18.99
		1745 (132322)	19.32	19.05	18.93
		1720 (132072)	19.28	18.98	18.92
	100RB (0)	1770 (132572)	19.37	19.08	19.15
		1745 (132322)	19.33	19.06	18.94
		1720 (132072)	19.35	19.09	19.12

Band71-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	695.5 (133447)	22.91	22.46	21.49
		680.5 (133297)	22.88	22.11	21.70
		665.5 (133147)	23.08	22.21	21.64
	1RB-Middle (12)	695.5 (133447)	22.97	22.42	21.56
		680.5 (133297)	23.08	22.07	21.77
		665.5 (133147)	23.42	22.22	21.71
	1RB-Low (0)	695.5 (133447)	22.90	22.44	21.57
		680.5 (133297)	22.90	22.05	21.57
		665.5 (133147)	23.18	22.30	21.83
	12RB-High (13)	695.5 (133447)	21.96	21.10	20.53
		680.5 (133297)	22.02	21.10	20.59
		665.5 (133147)	22.10	21.16	20.76
	12RB-Middle (6)	695.5 (133447)	21.93	21.10	20.52
		680.5 (133297)	22.02	21.07	20.54
		665.5 (133147)	22.14	21.24	20.72
	12RB-Low (0)	695.5 (133447)	21.89	21.04	20.49
		680.5 (133297)	22.00	21.04	20.57
		665.5 (133147)	22.13	21.23	20.72
	25RB (0)	695.5 (133447)	21.89	20.93	20.45
		680.5 (133297)	21.97	20.90	20.56
		665.5 (133147)	22.15	21.14	20.58
10MHz	1RB-High (49)	693 (132422)	22.82	22.41	21.72
		680.5 (133297)	22.98	21.90	21.62
		668 (133172)	22.95	21.85	21.55
	1RB-Middle (24)	693 (132422)	22.84	22.43	21.77
		680.5 (133297)	22.98	22.02	21.55
		668 (133172)	22.87	21.96	21.68
	1RB-Low (0)	693 (132422)	22.96	22.23	21.80
		680.5 (133297)	23.00	22.00	21.56
		668 (133172)	23.06	22.15	21.83
	25RB-High (25)	693 (132422)	21.93	20.98	20.46
		680.5 (133297)	22.02	21.12	20.50
		668 (133172)	22.04	21.09	20.57
	25RB-Middle (12)	693 (132422)	21.91	20.94	20.56
		680.5 (133297)	21.98	21.10	20.51
		668 (133172)	22.11	21.16	20.61
	25RB-Low (0)	693 (132422)	21.89	20.92	20.49
		680.5 (133297)	21.98	21.04	20.54
		668 (133172)	22.13	21.15	20.65
	50RB (0)	693 (132422)	21.90	20.93	20.57
		680.5 (133297)	21.96	21.03	20.54
		668 (133172)	22.05	21.06	20.68

15MHz	1RB-High (74)	690.5 (133397)	22.68	22.01	21.27
		680.5 (133297)	22.85	21.90	21.50
		670.5 (133197)	22.76	21.77	21.54
	1RB-Middle (37)	690.5 (133397)	22.78	22.08	21.44
		680.5 (133297)	22.84	22.06	21.55
		670.5 (133197)	22.68	21.78	21.48
	1RB-Low (0)	690.5 (133397)	22.83	22.14	21.46
		680.5 (133297)	22.81	22.09	21.54
		670.5 (133197)	22.82	21.83	21.68
	36RB-High (38)	690.5 (133397)	21.77	20.88	20.41
		680.5 (133297)	21.86	20.86	20.45
		670.5 (133197)	21.88	20.87	20.45
	36RB-Middle (19)	690.5 (133397)	21.81	20.88	20.39
		680.5 (133297)	21.80	20.83	20.40
		670.5 (133197)	21.88	20.92	20.51
	36RB-Low (0)	690.5 (133397)	21.76	20.80	20.44
		680.5 (133297)	21.83	20.80	20.44
		670.5 (133197)	21.81	20.86	20.48
	75RB (0)	690.5 (133397)	21.81	20.82	20.37
		680.5 (133297)	21.78	20.80	20.37
		670.5 (133197)	21.90	20.90	20.49
20MHz	1RB-High (99)	688 (133372)	22.60	22.23	21.43
		683 (133322)	22.57	22.37	21.49
		673 (133222)	22.80	22.19	21.49
	1RB-Middle (50)	688 (133372)	22.68	22.31	21.47
		683 (133322)	22.60	22.37	21.58
		673 (133222)	22.71	22.14	21.48
	1RB-Low (0)	688 (133372)	22.69	22.29	21.67
		683 (133322)	22.63	22.34	21.52
		673 (133222)	22.82	22.22	21.61
	50RB-High (50)	688 (133372)	21.74	20.79	20.33
		683 (133322)	21.77	20.80	20.37
		673 (133222)	21.79	20.80	20.35
	50RB-Middle (25)	688 (133372)	21.81	20.85	20.47
		683 (133322)	21.75	20.80	20.36
		673 (133222)	21.85	20.87	20.51
	50RB-Low (0)	688 (133372)	21.75	20.76	20.46
		683 (133322)	21.78	20.79	20.48
		673 (133222)	21.82	20.76	20.45
	100RB (0)	688 (133372)	21.78	20.82	20.44
		683 (133322)	21.70	20.74	20.38
		673 (133222)	21.93	20.94	20.47

Power level B1

Band2-ANT3-Power Level B1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	16.26	16.35	16.40
		1880 (18900)	16.33	16.51	16.57
		1850.7 (18607)	16.28	16.65	16.56
	1RB-Middle (3)	1909.3 (19193)	16.31	16.43	16.43
		1880 (18900)	16.39	16.56	16.45
		1850.7 (18607)	16.38	16.81	16.87
	1RB-Low (0)	1909.3 (19193)	16.29	16.39	16.47
		1880 (18900)	16.38	16.57	16.56
		1850.7 (18607)	16.39	16.73	16.61
	3RB-High (3)	1909.3 (19193)	16.26	16.53	16.52
		1880 (18900)	16.29	16.38	16.38
		1850.7 (18607)	16.28	16.55	16.45
	3RB-Middle (1)	1909.3 (19193)	16.31	16.62	16.55
		1880 (18900)	16.34	16.47	16.48
		1850.7 (18607)	16.37	16.62	16.64
	3RB-Low (0)	1909.3 (19193)	16.27	16.57	16.64
		1880 (18900)	16.31	16.48	16.58
		1850.7 (18607)	16.32	16.61	16.66
	6RB (0)	1909.3 (19193)	16.34	16.54	16.64
		1880 (18900)	16.39	16.55	16.44
		1850.7 (18607)	16.36	16.28	16.24
3MHz	1RB-High (14)	1908.5 (19185)	16.26	16.38	16.28
		1880 (18900)	16.29	16.23	16.11
		1851.5 (18615)	16.31	16.74	16.64
	1RB-Middle (7)	1908.5 (19185)	16.31	16.40	16.30
		1880 (18900)	16.33	16.25	16.29
		1851.5 (18615)	16.41	16.69	16.77
	1RB-Low (0)	1908.5 (19185)	16.41	16.57	16.63
		1880 (18900)	16.43	16.40	16.49
		1851.5 (18615)	16.46	16.85	16.88
	8RB-High (7)	1908.5 (19185)	16.37	16.43	16.45
		1880 (18900)	16.38	16.51	16.63
		1851.5 (18615)	16.38	16.49	16.58
	8RB-Middle (4)	1908.5 (19185)	16.44	16.51	16.63
		1880 (18900)	16.49	16.61	16.67
		1851.5 (18615)	16.45	16.54	16.47
	8RB-Low (0)	1908.5 (19185)	16.49	16.54	16.49
		1880 (18900)	16.52	16.64	16.55
		1851.5 (18615)	16.49	16.57	16.61
	15RB (0)	1908.5 (19185)	16.44	16.44	16.41
		1880 (18900)	16.50	16.51	16.39
		1851.5 (18615)	16.45	16.50	16.52

5MHz	1RB-High (24)	1907.5 (19175)	16.37	16.51	16.57
		1880 (18900)	16.44	16.59	16.59
		1852.5 (18625)	16.40	16.91	17.00
	1RB-Middle (12)	1907.5 (19175)	16.43	16.40	16.46
		1880 (18900)	16.66	16.48	16.39
		1852.5 (18625)	16.38	16.89	16.86
	1RB-Low (0)	1907.5 (19175)	16.44	16.47	16.59
		1880 (18900)	16.51	16.64	16.61
		1852.5 (18625)	16.43	16.98	17.03
	12RB-High (13)	1907.5 (19175)	16.40	16.47	16.49
		1880 (18900)	16.41	16.53	16.43
		1852.5 (18625)	16.40	16.54	16.54
	12RB-Middle (6)	1907.5 (19175)	16.53	16.58	16.56
		1880 (18900)	16.51	16.62	16.63
		1852.5 (18625)	16.50	16.64	16.74
	12RB-Low (0)	1907.5 (19175)	16.50	16.56	16.46
		1880 (18900)	16.49	16.60	16.62
		1852.5 (18625)	16.53	16.67	16.56
	25RB (0)	1907.5 (19175)	16.46	16.41	16.37
		1880 (18900)	16.45	16.50	16.61
		1852.5 (18625)	16.47	16.54	16.50
10MHz	1RB-High (49)	1905 (19150)	16.30	16.39	16.36
		1880 (18900)	16.24	16.36	16.34
		1855 (18650)	16.34	16.89	16.81
	1RB-Middle (24)	1905 (19150)	16.32	16.41	16.34
		1880 (18900)	16.25	16.45	16.51
		1855 (18650)	16.34	16.81	16.72
	1RB-Low (0)	1905 (19150)	16.24	16.44	16.54
		1880 (18900)	16.12	16.45	16.40
		1855 (18650)	16.37	16.84	16.81
	25RB-High (25)	1905 (19150)	16.44	16.55	16.42
		1880 (18900)	16.47	16.54	16.49
		1855 (18650)	16.43	16.50	16.62
	25RB-Middle (12)	1905 (19150)	16.46	16.59	16.63
		1880 (18900)	16.51	16.57	16.67
		1855 (18650)	16.50	16.51	16.46
	25RB-Low (0)	1905 (19150)	16.46	16.60	16.51
		1880 (18900)	16.51	16.59	16.52
		1855 (18650)	16.49	16.53	16.43
	50RB (0)	1905 (19150)	16.49	16.54	16.65
		1880 (18900)	16.46	16.50	16.38
		1855 (18650)	16.49	16.51	16.41

15MHz	1RB-High (74)	1902.5 (19125)	16.23	16.50	16.52
		1880 (18900)	16.19	16.17	16.08
		1857.5 (18675)	16.25	16.63	16.57
	1RB-Middle (37)	1902.5 (19125)	16.25	16.60	16.58
		1880 (18900)	16.20	16.17	16.25
		1857.5 (18675)	16.25	16.66	16.60
	1RB-Low (0)	1902.5 (19125)	16.25	16.55	16.54
		1880 (18900)	16.21	16.19	16.26
		1857.5 (18675)	16.28	16.68	16.78
	36RB-High (38)	1902.5 (19125)	16.36	16.38	16.43
		1880 (18900)	16.34	16.37	16.24
		1857.5 (18675)	16.37	16.49	16.43
	36RB-Middle (19)	1902.5 (19125)	16.36	16.34	16.28
		1880 (18900)	16.40	16.37	16.39
		1857.5 (18675)	16.35	16.42	16.39
	36RB-Low (0)	1902.5 (19125)	16.27	16.29	16.26
		1880 (18900)	16.26	16.31	16.24
		1857.5 (18675)	16.36	16.41	16.50
	75RB (0)	1902.5 (19125)	16.29	16.27	16.36
		1880 (18900)	16.38	16.37	16.28
		1857.5 (18675)	16.33	16.41	16.40
20MHz	1RB-High (99)	1900 (19100)	16.26	16.43	16.38
		1880 (18900)	16.25	16.68	16.56
		1860 (18700)	16.19	16.69	16.74
	1RB-Middle (50)	1900 (19100)	16.23	16.48	16.37
		1880 (18900)	16.27	16.68	16.60
		1860 (18700)	16.19	16.62	16.63
	1RB-Low (0)	1900 (19100)	16.24	16.44	16.51
		1880 (18900)	16.24	16.66	16.59
		1860 (18700)	16.17	16.63	16.63
	50RB-High (50)	1900 (19100)	16.36	16.36	16.34
		1880 (18900)	16.39	16.44	16.49
		1860 (18700)	16.39	16.41	16.46
	50RB-Middle (25)	1900 (19100)	16.30	16.34	16.37
		1880 (18900)	16.39	16.44	16.37
		1860 (18700)	16.40	16.42	16.50
	50RB-Low (0)	1900 (19100)	16.29	16.29	16.23
		1880 (18900)	16.31	16.36	16.23
		1860 (18700)	16.42	16.41	16.39
	100RB (0)	1900 (19100)	16.28	16.28	16.40
		1880 (18900)	16.37	16.42	16.31
		1860 (18700)	16.38	16.40	16.35

Band2-ANT2-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	23.24	22.33	21.35
		1880 (18900)	24.06	23.14	21.88
		1850.7 (18607)	23.88	23.27	21.88
	1RB-Middle (3)	1909.3 (19193)	23.27	22.34	21.46
		1880 (18900)	24.10	23.18	21.95
		1850.7 (18607)	23.93	23.29	21.79
	1RB-Low (0)	1909.3 (19193)	23.24	22.33	21.44
		1880 (18900)	24.10	23.17	21.91
		1850.7 (18607)	23.89	23.27	21.77
	3RB-High (3)	1909.3 (19193)	23.19	22.40	21.38
		1880 (18900)	23.96	23.06	21.11
		1850.7 (18607)	23.84	23.01	21.20
	3RB-Middle (1)	1909.3 (19193)	23.23	22.47	21.41
		1880 (18900)	24.00	23.11	21.99
		1850.7 (18607)	23.89	23.09	21.79
	3RB-Low (0)	1909.3 (19193)	23.17	22.43	21.32
		1880 (18900)	23.96	23.09	21.92
		1850.7 (18607)	23.87	23.05	21.74
	6RB (0)	1909.3 (19193)	22.28	21.46	20.21
		1880 (18900)	23.08	22.23	20.74
		1850.7 (18607)	22.92	21.81	21.33
3MHz	1RB-High (14)	1908.5 (19185)	23.40	22.45	21.54
		1880 (18900)	24.18	23.05	22.11
		1851.5 (18615)	24.01	23.39	21.96
	1RB-Middle (7)	1908.5 (19185)	23.28	22.36	21.39
		1880 (18900)	24.07	22.99	22.00
		1851.5 (18615)	23.89	23.26	21.75
	1RB-Low (0)	1908.5 (19185)	23.48	22.67	21.61
		1880 (18900)	24.25	23.19	22.14
		1851.5 (18615)	24.04	23.42	21.96
	8RB-High (7)	1908.5 (19185)	22.40	21.49	20.66
		1880 (18900)	23.17	22.28	20.94
		1851.5 (18615)	22.98	22.02	20.75
	8RB-Middle (4)	1908.5 (19185)	22.43	21.50	20.86
		1880 (18900)	23.21	22.31	20.93
		1851.5 (18615)	22.99	22.05	20.73
	8RB-Low (0)	1908.5 (19185)	22.46	21.50	20.75
		1880 (18900)	23.25	22.36	20.94
		1851.5 (18615)	23.01	22.06	20.69
	15RB (0)	1908.5 (19185)	22.43	21.45	20.65
		1880 (18900)	23.24	22.26	20.86
		1851.5 (18615)	23.00	22.02	20.69

5MHz	1RB-High (24)	1907.5 (19175)	23.68	22.68	21.63
		1880 (18900)	24.35	23.43	22.27
		1852.5 (18625)	24.17	23.42	22.15
	1RB-Middle (12)	1907.5 (19175)	23.50	22.51	21.47
		1880 (18900)	24.24	23.30	21.98
		1852.5 (18625)	23.86	23.42	21.79
	1RB-Low (0)	1907.5 (19175)	24.04	23.09	22.03
		1880 (18900)	24.42	23.46	22.30
		1852.5 (18625)	24.13	23.41	22.01
	12RB-High (13)	1907.5 (19175)	22.55	21.54	20.88
		1880 (18900)	23.26	22.31	20.97
		1852.5 (18625)	23.05	22.17	20.87
	12RB-Middle (6)	1907.5 (19175)	22.58	21.57	20.66
		1880 (18900)	23.28	22.35	20.94
		1852.5 (18625)	23.00	22.11	20.75
	12RB-Low (0)	1907.5 (19175)	22.75	21.77	20.55
		1880 (18900)	23.39	22.45	20.99
		1852.5 (18625)	23.07	22.19	20.76
	25RB (0)	1907.5 (19175)	22.62	21.55	20.68
		1880 (18900)	23.34	22.33	20.92
		1852.5 (18625)	23.06	22.08	20.75
10MHz	1RB-High (49)	1905 (19150)	23.39	22.40	21.44
		1880 (18900)	24.24	23.22	22.44
		1855 (18650)	24.23	23.41	22.41
	1RB-Middle (24)	1905 (19150)	23.72	22.77	21.77
		1880 (18900)	24.11	23.05	21.97
		1855 (18650)	23.86	23.23	21.85
	1RB-Low (0)	1905 (19150)	24.19	23.25	22.03
		1880 (18900)	24.18	23.41	22.40
		1855 (18650)	24.21	23.42	22.14
	25RB-High (25)	1905 (19150)	22.69	21.76	21.18
		1880 (18900)	23.33	22.33	21.06
		1855 (18650)	23.20	22.24	21.05
	25RB-Middle (12)	1905 (19150)	22.95	22.03	20.76
		1880 (18900)	23.35	22.36	20.98
		1855 (18650)	23.03	22.06	20.84
	25RB-Low (0)	1905 (19150)	23.36	22.40	21.09
		1880 (18900)	23.41	22.42	21.09
		1855 (18650)	23.12	22.14	20.86
	50RB (0)	1905 (19150)	23.07	22.11	20.88
		1880 (18900)	23.42	22.39	20.95
		1855 (18650)	23.16	22.17	20.94

15MHz	1RB-High (74)	1902.5 (19125)	23.50	22.73	21.36
		1880 (18900)	23.95	23.22	21.97
		1857.5 (18675)	24.11	23.21	22.15
	1RB-Middle (37)	1902.5 (19125)	24.14	23.43	21.90
		1880 (18900)	24.19	23.45	21.95
		1857.5 (18675)	23.82	22.72	21.80
	1RB-Low (0)	1902.5 (19125)	24.30	23.42	21.91
		1880 (18900)	24.15	23.46	21.76
		1857.5 (18675)	24.05	22.99	21.93
	36RB-High (38)	1902.5 (19125)	22.86	21.82	20.50
		1880 (18900)	23.19	22.11	20.88
		1857.5 (18675)	23.10	22.09	20.92
	36RB-Middle (19)	1902.5 (19125)	23.22	22.26	20.80
		1880 (18900)	23.30	22.24	20.85
		1857.5 (18675)	22.97	21.94	20.81
	36RB-Low (0)	1902.5 (19125)	23.23	22.28	21.07
		1880 (18900)	23.26	22.24	20.93
		1857.5 (18675)	23.01	21.96	20.77
	75RB (0)	1902.5 (19125)	23.15	22.18	20.81
		1880 (18900)	23.27	22.25	20.86
		1857.5 (18675)	23.05	22.03	20.83
20MHz	1RB-High (99)	1900 (19100)	23.15	22.75	21.38
		1880 (18900)	23.79	23.25	21.96
		1860 (18700)	23.81	23.23	21.66
	1RB-Middle (50)	1900 (19100)	23.97	23.48	21.97
		1880 (18900)	23.91	23.36	21.95
		1860 (18700)	23.75	23.17	21.91
	1RB-Low (0)	1900 (19100)	23.84	23.40	21.95
		1880 (18900)	23.79	23.26	21.70
		1860 (18700)	23.75	23.16	21.81
	50RB-High (50)	1900 (19100)	22.75	21.79	20.66
		1880 (18900)	22.99	22.02	20.57
		1860 (18700)	23.08	22.04	20.90
	50RB-Middle (25)	1900 (19100)	23.15	22.20	20.88
		1880 (18900)	23.11	22.16	20.92
		1860 (18700)	22.91	21.90	20.81
	50RB-Low (0)	1900 (19100)	23.19	22.22	21.04
		1880 (18900)	23.21	22.23	20.88
		1860 (18700)	22.88	21.86	20.78
	100RB (0)	1900 (19100)	23.04	22.09	20.60
		1880 (18900)	23.11	22.14	20.86
		1860 (18700)	22.98	21.99	20.78

Band4-ANT3-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1754.3 (20393)	17.26	17.43	17.46
		1732.5 (20175)	17.34	17.55	17.67
		1710.7 (19957)	17.28	17.66	17.76
	1RB-Middle (3)	1754.3 (20393)	17.31	17.47	17.46
		1732.5 (20175)	17.41	17.59	17.46
		1710.7 (19957)	17.34	17.75	17.64
	1RB-Low (0)	1754.3 (20393)	17.26	17.42	17.32
		1732.5 (20175)	17.34	17.52	17.57
		1710.7 (19957)	17.28	17.67	17.67
	3RB-High (3)	1754.3 (20393)	17.26	17.58	17.70
		1732.5 (20175)	17.31	17.45	17.48
		1710.7 (19957)	17.27	17.49	17.40
	3RB-Middle (1)	1754.3 (20393)	17.32	17.61	17.48
		1732.5 (20175)	17.33	17.50	17.61
		1710.7 (19957)	17.31	17.58	17.68
	3RB-Low (0)	1754.3 (20393)	17.25	17.58	17.66
		1732.5 (20175)	17.27	17.45	17.51
		1710.7 (19957)	17.27	17.55	17.54
	6RB (0)	1754.3 (20393)	17.35	17.56	17.58
		1732.5 (20175)	17.37	17.54	17.48
		1710.7 (19957)	17.32	17.26	17.24
3MHz	1RB-High (14)	1753.5 (20385)	17.31	17.47	17.52
		1732.5 (20175)	17.36	17.34	17.24
		1711.5 (19965)	17.34	17.77	17.66
	1RB-Middle (7)	1753.5 (20385)	17.29	17.43	17.40
		1732.5 (20175)	17.35	17.30	17.27
		1711.5 (19965)	17.35	17.69	17.65
	1RB-Low (0)	1753.5 (20385)	17.35	17.51	17.40
		1732.5 (20175)	17.30	17.29	17.17
		1711.5 (19965)	17.37	17.73	17.83
	8RB-High (7)	1753.5 (20385)	17.41	17.52	17.45
		1732.5 (20175)	17.44	17.54	17.50
		1711.5 (19965)	17.36	17.49	17.48
	8RB-Middle (4)	1753.5 (20385)	17.45	17.51	17.63
		1732.5 (20175)	17.49	17.61	17.48
		1711.5 (19965)	17.43	17.50	17.53
	8RB-Low (0)	1753.5 (20385)	17.41	17.50	17.45
		1732.5 (20175)	17.38	17.52	17.61
		1711.5 (19965)	17.39	17.48	17.37
	15RB (0)	1753.5 (20385)	17.42	17.43	17.32
		1732.5 (20175)	17.40	17.42	17.44
		1711.5 (19965)	17.42	17.47	17.37

5MHz	1RB-High (24)	1752.5 (20375)	17.43	17.63	17.64
		1732.5 (20175)	17.48	17.78	17.90
		1712.5 (19975)	17.38	17.94	18.06
	1RB-Middle (12)	1752.5 (20375)	17.39	17.47	17.43
		1732.5 (20175)	17.60	17.57	17.45
		1712.5 (19975)	17.39	17.87	17.91
	1RB-Low (0)	1752.5 (20375)	17.40	17.58	17.61
		1732.5 (20175)	17.46	17.57	17.64
		1712.5 (19975)	17.37	17.96	17.86
	12RB-High (13)	1752.5 (20375)	17.48	17.58	17.46
		1732.5 (20175)	17.46	17.56	17.52
		1712.5 (19975)	17.43	17.54	17.44
	12RB-Middle (6)	1752.5 (20375)	17.46	17.55	17.46
		1732.5 (20175)	17.43	17.50	17.40
		1712.5 (19975)	17.43	17.55	17.64
	12RB-Low (0)	1752.5 (20375)	17.44	17.55	17.61
		1732.5 (20175)	17.38	17.51	17.50
		1712.5 (19975)	17.39	17.61	17.56
	25RB (0)	1752.5 (20375)	17.43	17.55	17.48
		1732.5 (20175)	17.42	17.47	17.46
		1712.5 (19975)	17.43	17.49	17.42
10MHz	1RB-High (49)	1750 (20350)	17.28	17.52	17.63
		1732.5 (20175)	17.27	17.45	17.39
		1715 (20000)	17.29	17.76	17.86
	1RB-Middle (24)	1750 (20350)	17.32	17.38	17.32
		1732.5 (20175)	17.29	17.39	17.48
		1715 (20000)	17.27	17.71	17.72
	1RB-Low (0)	1750 (20350)	17.35	17.52	17.45
		1732.5 (20175)	17.14	17.38	17.39
		1715 (20000)	17.24	17.77	17.69
	25RB-High (25)	1750 (20350)	17.44	17.57	17.53
		1732.5 (20175)	17.50	17.53	17.53
		1715 (20000)	17.43	17.51	17.58
	25RB-Middle (12)	1750 (20350)	17.47	17.58	17.64
		1732.5 (20175)	17.43	17.50	17.60
		1715 (20000)	17.42	17.47	17.37
	25RB-Low (0)	1750 (20350)	17.44	17.56	17.55
		1732.5 (20175)	17.40	17.46	17.33
		1715 (20000)	17.37	17.46	17.36
	50RB (0)	1750 (20350)	17.45	17.49	17.60
		1732.5 (20175)	17.43	17.43	17.45
		1715 (20000)	17.41	17.46	17.37

15MHz	1RB-High (74)	1747.5 (20325)	17.24	17.57	17.48
		1732.5 (20175)	17.14	17.12	17.04
		1717.5 (20025)	17.18	17.61	17.62
	1RB-Middle (37)	1747.5 (20325)	17.20	17.55	17.65
		1732.5 (20175)	17.17	17.21	17.24
		1717.5 (20025)	17.17	17.58	17.48
	1RB-Low (0)	1747.5 (20325)	17.27	17.61	17.57
		1732.5 (20175)	17.15	17.13	17.21
		1717.5 (20025)	17.15	17.60	17.65
	36RB-High (38)	1747.5 (20325)	17.28	17.31	17.19
		1732.5 (20175)	17.32	17.36	17.41
		1717.5 (20025)	17.25	17.39	17.47
	36RB-Middle (19)	1747.5 (20325)	17.32	17.33	17.41
		1732.5 (20175)	17.24	17.26	17.19
		1717.5 (20025)	17.31	17.39	17.27
	36RB-Low (0)	1747.5 (20325)	17.26	17.31	17.22
		1732.5 (20175)	17.24	17.26	17.37
		1717.5 (20025)	17.26	17.35	17.39
	75RB (0)	1747.5 (20325)	17.24	17.27	17.34
		1732.5 (20175)	17.20	17.26	17.36
		1717.5 (20025)	17.24	17.31	17.28
20MHz	1RB-High (99)	1745 (20300)	17.32	17.59	17.50
		1732.5 (20175)	17.24	17.61	17.61
		1720 (20050)	17.27	17.35	17.41
	1RB-Middle (50)	1745 (20300)	17.23	17.63	17.72
		1732.5 (20175)	17.26	17.57	17.62
		1720 (20050)	17.20	17.34	17.35
	1RB-Low (0)	1745 (20300)	17.26	17.56	17.63
		1732.5 (20175)	17.19	17.52	17.40
		1720 (20050)	17.19	17.33	17.27
	50RB-High (50)	1745 (20300)	17.34	17.40	17.44
		1732.5 (20175)	17.40	17.42	17.49
		1720 (20050)	17.33	17.33	17.37
	50RB-Middle (25)	1745 (20300)	17.39	17.44	17.53
		1732.5 (20175)	17.31	17.37	17.38
		1720 (20050)	17.35	17.33	17.38
	50RB-Low (0)	1745 (20300)	17.38	17.40	17.38
		1732.5 (20175)	17.29	17.33	17.37
		1720 (20050)	17.22	17.25	17.32
	100RB (0)	1745 (20300)	17.37	17.43	17.51
		1732.5 (20175)	17.33	17.33	17.40
		1720 (20050)	17.34	17.35	17.33

Band4-ANT2-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1754.3 (20393)	24.04	23.07	22.16
		1732.5 (20175)	24.13	23.40	22.20
		1710.7 (19957)	24.24	23.45	22.42
	1RB-Middle (3)	1754.3 (20393)	24.10	23.10	22.26
		1732.5 (20175)	24.15	23.43	22.32
		1710.7 (19957)	24.30	23.46	22.45
	1RB-Low (0)	1754.3 (20393)	24.03	23.01	22.12
		1732.5 (20175)	24.13	23.37	22.21
		1710.7 (19957)	24.22	23.49	22.36
	3RB-High (3)	1754.3 (20393)	24.04	23.26	22.15
		1732.5 (20175)	24.12	23.13	22.27
		1710.7 (19957)	24.10	23.37	22.22
	3RB-Middle (1)	1754.3 (20393)	24.03	23.32	22.33
		1732.5 (20175)	24.13	23.19	22.29
		1710.7 (19957)	24.15	23.38	22.36
	3RB-Low (0)	1754.3 (20393)	24.03	23.29	22.15
		1732.5 (20175)	24.08	23.14	22.30
		1710.7 (19957)	24.12	23.42	22.16
	6RB (0)	1754.3 (20393)	23.00	22.24	21.14
		1732.5 (20175)	23.14	22.30	21.15
		1710.7 (19957)	23.13	22.04	21.19
3MHz	1RB-High (14)	1753.5 (20385)	24.03	23.08	22.28
		1732.5 (20175)	24.13	23.10	22.31
		1711.5 (19965)	24.17	23.46	22.47
	1RB-Middle (7)	1753.5 (20385)	23.98	23.05	22.36
		1732.5 (20175)	24.10	23.11	22.25
		1711.5 (19965)	24.10	23.46	22.32
	1RB-Low (0)	1753.5 (20385)	24.09	23.13	22.27
		1732.5 (20175)	24.02	23.05	22.30
		1711.5 (19965)	24.21	23.42	22.29
	8RB-High (7)	1753.5 (20385)	23.12	22.14	21.22
		1732.5 (20175)	23.19	22.35	21.20
		1711.5 (19965)	23.17	22.26	21.29
	8RB-Middle (4)	1753.5 (20385)	23.14	22.22	21.24
		1732.5 (20175)	23.21	22.35	21.22
		1711.5 (19965)	23.22	22.25	21.27
	8RB-Low (0)	1753.5 (20385)	23.15	22.20	21.24
		1732.5 (20175)	23.15	22.24	21.20
		1711.5 (19965)	23.17	22.26	21.27
	15RB (0)	1753.5 (20385)	23.13	22.09	21.19
		1732.5 (20175)	23.14	22.18	21.16
		1711.5 (19965)	23.25	22.21	21.26

5MHz	1RB-High (24)	1752.5 (20375)	24.17	23.30	22.30
		1732.5 (20175)	24.30	23.35	22.40
		1712.5 (19975)	24.43	23.49	22.35
	1RB-Middle (12)	1752.5 (20375)	24.08	23.20	22.27
		1732.5 (20175)	24.27	23.40	22.26
		1712.5 (19975)	24.19	23.40	22.21
	1RB-Low (0)	1752.5 (20375)	24.11	23.11	22.43
		1732.5 (20175)	24.24	23.26	22.31
		1712.5 (19975)	24.40	23.49	22.42
	12RB-High (13)	1752.5 (20375)	23.24	22.25	21.23
		1732.5 (20175)	23.24	22.29	21.25
		1712.5 (19975)	23.23	22.36	21.32
	12RB-Middle (6)	1752.5 (20375)	23.22	22.23	21.25
		1732.5 (20175)	23.25	22.32	21.25
		1712.5 (19975)	23.26	22.38	21.36
	12RB-Low (0)	1752.5 (20375)	23.23	22.22	21.24
		1732.5 (20175)	23.16	22.24	21.19
		1712.5 (19975)	23.26	22.38	21.29
	25RB (0)	1752.5 (20375)	23.18	22.11	21.22
		1732.5 (20175)	23.20	22.21	21.21
		1712.5 (19975)	23.23	22.28	21.26
10MHz	1RB-High (49)	1750 (20350)	24.04	23.05	22.28
		1732.5 (20175)	24.05	23.25	22.40
		1715 (20000)	24.11	23.38	22.43
	1RB-Middle (24)	1750 (20350)	24.10	23.04	22.46
		1732.5 (20175)	24.06	23.38	22.34
		1715 (20000)	24.19	23.46	22.41
	1RB-Low (0)	1750 (20350)	24.07	23.02	22.30
		1732.5 (20175)	23.99	23.13	22.34
		1715 (20000)	24.09	23.45	22.39
	25RB-High (25)	1750 (20350)	23.17	22.26	21.28
		1732.5 (20175)	23.28	22.30	21.28
		1715 (20000)	23.24	22.28	21.27
	25RB-Middle (12)	1750 (20350)	23.18	22.29	21.25
		1732.5 (20175)	23.20	22.26	21.17
		1715 (20000)	23.24	22.24	21.28
	25RB-Low (0)	1750 (20350)	23.17	22.25	21.27
		1732.5 (20175)	23.16	22.18	21.24
		1715 (20000)	23.22	22.27	21.32
	50RB (0)	1750 (20350)	23.16	22.23	21.22
		1732.5 (20175)	23.19	22.15	21.23
		1715 (20000)	23.23	22.26	21.33

15MHz	1RB-High (74)	1747.5 (20325)	24.00	23.28	22.14
		1732.5 (20175)	23.97	23.13	22.17
		1717.5 (20025)	23.99	23.40	22.29
	1RB-Middle (37)	1747.5 (20325)	23.99	23.29	22.24
		1732.5 (20175)	23.99	23.09	22.23
		1717.5 (20025)	23.97	23.31	22.06
	1RB-Low (0)	1747.5 (20325)	24.10	23.26	22.18
		1732.5 (20175)	23.92	23.13	22.14
		1717.5 (20025)	23.98	23.39	22.06
	36RB-High (38)	1747.5 (20325)	23.05	22.03	21.09
		1732.5 (20175)	23.07	22.10	21.08
		1717.5 (20025)	23.05	22.13	21.15
	36RB-Middle (19)	1747.5 (20325)	23.06	22.06	21.18
		1732.5 (20175)	23.03	22.04	21.06
		1717.5 (20025)	23.10	22.17	21.24
	36RB-Low (0)	1747.5 (20325)	23.04	22.04	21.11
		1732.5 (20175)	23.01	22.04	21.06
		1717.5 (20025)	23.06	22.15	21.12
	75RB (0)	1747.5 (20325)	23.01	22.04	21.11
		1732.5 (20175)	23.02	22.00	20.97
		1717.5 (20025)	23.07	22.09	21.09
20MHz	1RB-High (99)	1745 (20300)	23.78	23.46	22.40
		1732.5 (20175)	24.01	23.37	22.23
		1720 (20050)	23.94	23.49	22.20
	1RB-Middle (50)	1745 (20300)	23.76	23.45	22.33
		1732.5 (20175)	23.99	23.38	22.12
		1720 (20050)	23.90	23.49	22.19
	1RB-Low (0)	1745 (20300)	23.84	23.41	22.24
		1732.5 (20175)	23.96	23.37	22.17
		1720 (20050)	23.89	23.46	22.22
	50RB-High (50)	1745 (20300)	23.02	22.02	21.12
		1732.5 (20175)	23.06	22.03	21.17
		1720 (20050)	23.02	22.08	21.10
	50RB-Middle (25)	1745 (20300)	23.03	22.05	21.11
		1732.5 (20175)	23.02	21.95	21.07
		1720 (20050)	23.05	22.10	21.11
	50RB-Low (0)	1745 (20300)	23.04	22.03	21.22
		1732.5 (20175)	22.98	21.97	21.07
		1720 (20050)	22.95	22.01	21.09
	100RB (0)	1745 (20300)	22.99	22.03	21.07
		1732.5 (20175)	22.99	21.97	21.04
		1720 (20050)	23.01	22.09	21.06

Band5-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	848.3 (20643)	17.50	17.58	17.58
		836.5 (20525)	17.67	17.80	17.89
		824.7 (20407)	17.72	17.98	18.08
	1RB-Middle (3)	848.3 (20643)	17.55	17.60	17.49
		836.5 (20525)	17.72	17.87	17.95
		824.7 (20407)	17.73	18.12	18.12
	1RB-Low (0)	848.3 (20643)	17.50	17.54	17.62
		836.5 (20525)	17.62	17.72	17.61
		824.7 (20407)	17.65	18.01	17.93
	3RB-High (3)	848.3 (20643)	17.50	17.73	17.83
		836.5 (20525)	17.63	17.75	17.78
		824.7 (20407)	17.64	17.90	17.89
	3RB-Middle (1)	848.3 (20643)	17.53	17.77	17.87
		836.5 (20525)	17.65	17.76	17.74
		824.7 (20407)	17.67	17.96	17.98
	3RB-Low (0)	848.3 (20643)	17.48	17.73	17.77
		836.5 (20525)	17.55	17.65	17.56
		824.7 (20407)	17.65	17.94	17.93
	6RB (0)	848.3 (20643)	17.57	17.71	17.59
		836.5 (20525)	17.61	17.76	17.75
		824.7 (20407)	17.68	17.61	17.52
3MHz	1RB-High (14)	847.5 (20635)	17.57	17.64	17.53
		836.5 (20525)	17.70	17.62	17.52
		825.5 (20415)	17.73	18.14	18.12
	1RB-Middle (7)	847.5 (20635)	17.51	17.59	17.56
		836.5 (20525)	17.64	17.58	17.67
		825.5 (20415)	17.76	18.05	18.17
	1RB-Low (0)	847.5 (20635)	17.60	17.71	17.64
		836.5 (20525)	17.63	17.62	17.73
		825.5 (20415)	17.78	18.17	18.29
	8RB-High (7)	847.5 (20635)	17.66	17.68	17.63
		836.5 (20525)	17.75	17.85	17.80
		825.5 (20415)	17.80	17.83	17.88
	8RB-Middle (4)	847.5 (20635)	17.67	17.72	17.79
		836.5 (20525)	17.70	17.79	17.66
		825.5 (20415)	17.82	17.86	17.84
	8RB-Low (0)	847.5 (20635)	17.65	17.73	17.71
		836.5 (20525)	17.72	17.80	17.79
		825.5 (20415)	17.76	17.85	17.73
	15RB (0)	847.5 (20635)	17.66	17.66	17.54
		836.5 (20525)	17.71	17.73	17.79
		825.5 (20415)	17.82	17.85	17.85

5MHz	1RB-High (24)	846.5 (20625)	17.66	18.16	18.05
		836.5 (20525)	17.80	17.94	18.05
		826.5 (20425)	17.83	17.98	17.97
	1RB-Middle (12)	846.5 (20625)	17.70	18.15	18.23
		836.5 (20525)	17.75	17.77	17.88
		826.5 (20425)	17.80	17.82	17.90
	1RB-Low (0)	846.5 (20625)	17.62	18.14	18.04
		836.5 (20525)	17.75	17.88	17.74
		826.5 (20425)	17.85	17.99	17.86
	12RB-High (13)	846.5 (20625)	17.73	17.84	17.73
		836.5 (20525)	17.83	17.87	17.95
		826.5 (20425)	17.79	17.88	17.96
	12RB-Middle (6)	846.5 (20625)	17.68	17.78	17.66
		836.5 (20525)	17.77	17.82	17.79
		826.5 (20425)	17.80	17.87	17.78
	12RB-Low (0)	846.5 (20625)	17.69	17.78	17.89
		836.5 (20525)	17.79	17.83	17.93
		826.5 (20425)	17.79	17.89	18.00
	25RB (0)	846.5 (20625)	17.66	17.67	17.72
		836.5 (20525)	17.75	17.68	17.61
		826.5 (20425)	17.84	17.84	17.92
10MHz	1RB-High (49)	844 (20600)	17.74	18.15	18.17
		836.5 (20525)	17.73	17.75	17.79
		829 (20450)	17.63	17.73	17.73
	1RB-Middle (24)	844 (20600)	17.70	18.07	18.00
		836.5 (20525)	17.71	17.75	17.87
		829 (20450)	17.62	17.78	17.84
	1RB-Low (0)	844 (20600)	17.82	18.08	18.11
		836.5 (20525)	17.60	17.78	17.69
		829 (20450)	17.64	17.73	17.67
	25RB-High (25)	844 (20600)	17.81	17.81	17.89
		836.5 (20525)	17.88	17.96	18.08
		829 (20450)	17.90	17.94	18.01
	25RB-Middle (12)	844 (20600)	17.81	17.78	17.67
		836.5 (20525)	17.84	17.94	18.06
		829 (20450)	17.91	17.94	17.99
	25RB-Low (0)	844 (20600)	17.82	17.79	17.67
		836.5 (20525)	17.81	17.92	18.03
		829 (20450)	17.81	17.86	17.89
	50RB (0)	844 (20600)	17.73	17.74	17.74
		836.5 (20525)	17.78	17.83	17.95
		829 (20450)	17.86	17.87	17.80

Band12-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	715.3 (23173)	18.37	18.78	18.75
		707.5 (23095)	18.34	18.44	18.44
		699.7 (23017)	18.32	18.56	18.62
	1RB-Middle (3)	715.3 (23173)	18.40	18.92	18.91
		707.5 (23095)	18.40	18.52	18.62
		699.7 (23017)	18.37	18.61	18.48
	1RB-Low (0)	715.3 (23173)	18.35	18.81	18.74
		707.5 (23095)	18.33	18.44	18.46
		699.7 (23017)	18.34	18.57	18.63
	3RB-High (3)	715.3 (23173)	18.33	18.65	18.77
		707.5 (23095)	18.33	18.61	18.65
		699.7 (23017)	18.33	18.45	18.49
	3RB-Middle (1)	715.3 (23173)	18.37	18.70	18.64
		707.5 (23095)	18.36	18.61	18.62
		699.7 (23017)	18.37	18.51	18.60
	3RB-Low (0)	715.3 (23173)	18.34	18.69	18.77
		707.5 (23095)	18.33	18.61	18.69
		699.7 (23017)	18.33	18.50	18.57
	6RB (0)	715.3 (23173)	18.33	18.40	18.40
		707.5 (23095)	18.37	18.60	18.50
		699.7 (23017)	18.36	18.59	18.69
3MHz	1RB-High (14)	714.5 (23165)	18.47	18.51	18.49
		707.5 (23095)	18.44	18.35	18.28
		700.5 (23025)	18.36	18.83	18.78
	1RB-Middle (7)	714.5 (23165)	18.50	18.50	18.60
		707.5 (23095)	18.41	18.34	18.35
		700.5 (23025)	18.36	18.81	18.71
	1RB-Low (0)	714.5 (23165)	18.41	18.56	18.61
		707.5 (23095)	18.43	18.36	18.31
		700.5 (23025)	18.44	18.89	19.01
	8RB-High (7)	714.5 (23165)	18.45	18.59	18.51
		707.5 (23095)	18.44	18.57	18.57
		700.5 (23025)	18.50	18.52	18.52
	8RB-Middle (4)	714.5 (23165)	18.54	18.64	18.73
		707.5 (23095)	18.51	18.66	18.66
		700.5 (23025)	18.51	18.62	18.69
	8RB-Low (0)	714.5 (23165)	18.46	18.58	18.57
		707.5 (23095)	18.46	18.61	18.70
		700.5 (23025)	18.49	18.60	18.63
	15RB (0)	714.5 (23165)	18.45	18.47	18.35
		707.5 (23095)	18.43	18.50	18.43
		700.5 (23025)	18.44	18.54	18.43

5MHz	1RB-High (24)	713.5 (23155)	18.55	18.66	18.57
		707.5 (23095)	18.55	18.69	18.61
		701.5 (23035)	18.45	18.75	18.80
	1RB-Middle (12)	713.5 (23155)	18.44	18.64	18.59
		707.5 (23095)	18.53	18.61	18.55
		701.5 (23035)	18.45	18.77	18.82
	1RB-Low (0)	713.5 (23155)	18.34	18.65	18.75
		707.5 (23095)	18.45	18.60	18.67
		701.5 (23035)	18.36	18.77	18.70
	12RB-High (13)	713.5 (23155)	18.49	18.58	18.61
		707.5 (23095)	18.50	18.57	18.59
		701.5 (23035)	18.50	18.65	18.67
	12RB-Middle (6)	713.5 (23155)	18.47	18.60	18.69
		707.5 (23095)	18.46	18.58	18.68
		701.5 (23035)	18.53	18.69	18.69
	12RB-Low (0)	713.5 (23155)	18.46	18.60	18.58
		707.5 (23095)	18.49	18.60	18.67
		701.5 (23035)	18.48	18.65	18.69
	25RB (0)	713.5 (23155)	18.46	18.47	18.58
		707.5 (23095)	18.46	18.50	18.38
		701.5 (23035)	18.49	18.61	18.54
10MHz	1RB-High (49)	711 (23130)	18.50	18.77	18.81
		707.5 (23095)	18.47	18.44	18.44
		704 (23060)	18.39	18.54	18.62
	1RB-Middle (24)	711 (23130)	18.50	18.94	19.00
		707.5 (23095)	18.42	18.49	18.61
		704 (23060)	18.35	18.49	18.48
	1RB-Low (0)	711 (23130)	18.48	18.72	18.63
		707.5 (23095)	18.48	18.49	18.46
		704 (23060)	18.27	18.44	18.52
	25RB-High (25)	711 (23130)	18.52	18.59	18.50
		707.5 (23095)	18.54	18.67	18.56
		704 (23060)	18.52	18.58	18.50
	25RB-Middle (12)	711 (23130)	18.50	18.55	18.55
		707.5 (23095)	18.48	18.62	18.60
		704 (23060)	18.51	18.64	18.71
	25RB-Low (0)	711 (23130)	18.51	18.57	18.68
		707.5 (23095)	18.48	18.60	18.55
		704 (23060)	18.46	18.54	18.59
	50RB (0)	711 (23130)	18.49	18.50	18.41
		707.5 (23095)	18.50	18.53	18.60
		704 (23060)	18.55	18.52	18.45

Band13-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	784.5 (23255)	18.66	18.83	18.85
		782 (23230)	18.65	18.65	18.66
		779.5 (23205)	18.58	18.88	18.81
	1RB-Middle (12)	784.5 (23255)	18.60	18.76	18.77
		782 (23230)	18.64	18.72	18.80
		779.5 (23205)	18.63	18.77	18.81
	1RB-Low (0)	784.5 (23255)	18.65	18.79	18.70
		782 (23230)	18.57	18.75	18.74
		779.5 (23205)	18.60	18.77	18.85
	12RB-High (13)	784.5 (23255)	18.63	18.74	18.64
		782 (23230)	18.68	18.76	18.72
		779.5 (23205)	18.71	18.71	18.62
	12RB-Middle (6)	784.5 (23255)	18.70	18.77	18.73
		782 (23230)	18.68	18.83	18.74
		779.5 (23205)	18.70	18.81	18.70
	12RB-Low (0)	784.5 (23255)	18.62	18.68	18.64
		782 (23230)	18.62	18.75	18.70
		779.5 (23205)	18.62	18.70	18.66
	25RB (0)	784.5 (23255)	18.66	18.69	18.58
		782 (23230)	18.63	18.72	18.72
		779.5 (23205)	18.69	18.62	18.60
10MHz	1RB-High (49)	782 (23230)	18.63	18.69	18.61
	1RB-Middle (24)	782 (23230)	18.60	18.61	18.71
	1RB-Low (0)	782 (23230)	18.43	18.58	18.54
	25RB-High (25)	782 (23230)	18.66	18.76	18.65
	25RB-Middle (12)	782 (23230)	18.59	18.75	18.71
	25RB-Low (0)	782 (23230)	18.61	18.70	18.76
	50RB (0)	782 (23230)	18.65	18.73	18.84

Band66-ANT3-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	16.35	16.43	16.54
		1745 (132322)	16.33	16.52	16.51
		1710.7 (131979)	16.24	16.62	16.52
	1RB-Middle (3)	1779.3 (132665)	16.39	16.50	16.37
		1745 (132322)	16.39	16.60	16.50
		1710.7 (131979)	16.32	16.73	16.60
	1RB-Low (0)	1779.3 (132665)	16.35	16.43	16.35
		1745 (132322)	16.34	16.55	16.55
		1710.7 (131979)	16.26	16.62	16.65
	3RB-High (3)	1779.3 (132665)	16.36	16.61	16.51
		1745 (132322)	16.33	16.45	16.38
		1710.7 (131979)	16.24	16.50	16.46
	3RB-Middle (1)	1779.3 (132665)	16.39	16.69	16.65
		1745 (132322)	16.33	16.47	16.38
		1710.7 (131979)	16.28	16.52	16.48
	3RB-Low (0)	1779.3 (132665)	16.35	16.62	16.60
		1745 (132322)	16.33	16.44	16.48
		1710.7 (131979)	16.24	16.51	16.38
	6RB (0)	1779.3 (132665)	16.41	16.62	16.74
		1745 (132322)	16.38	16.50	16.53
		1710.7 (131979)	16.29	16.23	16.22
3MHz	1RB-High (14)	1778.5 (132657)	16.41	16.32	16.22
		1745 (132322)	16.40	16.81	16.93
		1711.5 (131987)	16.27	16.39	16.28
	1RB-Middle (7)	1778.5 (132657)	16.51	16.28	16.28
		1745 (132322)	16.40	16.70	16.79
		1711.5 (131987)	16.22	16.34	16.22
	1RB-Low (0)	1778.5 (132657)	16.36	16.30	16.32
		1745 (132322)	16.40	16.76	16.69
		1711.5 (131987)	16.31	16.42	16.51
	8RB-High (7)	1778.5 (132657)	16.48	16.55	16.58
		1745 (132322)	16.39	16.51	16.58
		1711.5 (131987)	16.38	16.42	16.42
	8RB-Middle (4)	1778.5 (132657)	16.48	16.62	16.49
		1745 (132322)	16.46	16.55	16.54
		1711.5 (131987)	16.39	16.44	16.37
	8RB-Low (0)	1778.5 (132657)	16.48	16.61	16.68
		1745 (132322)	16.40	16.51	16.54
		1711.5 (131987)	16.35	16.40	16.48
	15RB (0)	1778.5 (132657)	16.49	16.53	16.47
		1745 (132322)	16.41	16.46	16.37
		1711.5 (131987)	16.38	16.35	16.42

5MHz	1RB-High (24)	1777.5 (132647)	16.49	16.66	16.72
		1745 (132322)	16.51	16.63	16.60
		1712.5 (131997)	16.39	16.89	16.96
	1RB-Middle (12)	1777.5 (132647)	16.46	16.43	16.34
		1745 (132322)	16.51	16.54	16.58
		1712.5 (131997)	16.36	16.85	16.84
	1RB-Low (0)	1777.5 (132647)	16.48	16.65	16.56
		1745 (132322)	16.47	16.56	16.43
		1712.5 (131997)	16.37	16.92	16.79
	12RB-High (13)	1777.5 (132647)	16.52	16.59	16.59
		1745 (132322)	16.45	16.56	16.56
		1712.5 (131997)	16.38	16.57	16.56
	12RB-Middle (6)	1777.5 (132647)	16.54	16.56	16.46
		1745 (132322)	16.49	16.58	16.62
		1712.5 (131997)	16.44	16.56	16.47
	12RB-Low (0)	1777.5 (132647)	16.53	16.57	16.63
		1745 (132322)	16.39	16.48	16.53
		1712.5 (131997)	16.41	16.53	16.59
	25RB (0)	1777.5 (132647)	16.50	16.47	16.58
		1745 (132322)	16.45	16.42	16.29
		1712.5 (131997)	16.38	16.49	16.54
10MHz	1RB-High (49)	1775 (132622)	16.40	16.59	16.67
		1745 (132322)	16.37	16.41	16.50
		1715 (132022)	16.27	16.73	16.72
	1RB-Middle (24)	1775 (132622)	16.38	16.46	16.33
		1745 (132322)	16.26	16.45	16.52
		1715 (132022)	16.35	16.67	16.73
	1RB-Low (0)	1775 (132622)	16.36	16.60	16.50
		1745 (132322)	16.21	16.49	16.44
		1715 (132022)	16.29	16.74	16.83
	25RB-High (25)	1775 (132622)	16.52	16.60	16.64
		1745 (132322)	16.49	16.52	16.42
		1715 (132022)	16.40	16.45	16.38
	25RB-Middle (12)	1775 (132622)	16.56	16.64	16.55
		1745 (132322)	16.42	16.50	16.57
		1715 (132022)	16.42	16.43	16.46
	25RB-Low (0)	1775 (132622)	16.52	16.61	16.56
		1745 (132322)	16.41	16.42	16.40
		1715 (132022)	16.38	16.42	16.49
	50RB (0)	1775 (132622)	16.55	16.57	16.56
		1745 (132322)	16.43	16.43	16.43
		1715 (132022)	16.42	16.47	16.37

15MHz	1RB-High (74)	1772.5 (132597)	16.32	16.73	16.62
		1745 (132322)	16.34	16.50	16.62
		1717.5 (132047)	16.18	16.13	16.21
	1RB-Middle (37)	1772.5 (132597)	16.34	16.73	16.77
		1745 (132322)	16.30	16.61	16.52
		1717.5 (132047)	16.22	16.14	16.24
	1RB-Low (0)	1772.5 (132597)	16.28	16.69	16.77
		1745 (132322)	16.22	16.48	16.38
		1717.5 (132047)	16.11	16.10	16.22
	36RB-High (38)	1772.5 (132597)	16.38	16.47	16.37
		1745 (132322)	16.37	16.33	16.37
		1717.5 (132047)	16.31	16.28	16.33
	36RB-Middle (19)	1772.5 (132597)	16.31	16.38	16.46
		1745 (132322)	16.28	16.27	16.29
		1717.5 (132047)	16.31	16.29	16.41
	36RB-Low (0)	1772.5 (132597)	16.28	16.35	16.42
		1745 (132322)	16.30	16.24	16.22
		1717.5 (132047)	16.30	16.24	16.15
	75RB (0)	1772.5 (132597)	16.28	16.33	16.24
		1745 (132322)	16.24	16.24	16.36
		1717.5 (132047)	16.26	16.29	16.26
20MHz	1RB-High (99)	1770 (132572)	16.40	16.45	16.41
		1745 (132322)	16.35	16.65	16.55
		1720 (132072)	16.21	16.46	16.46
	1RB-Middle (50)	1770 (132572)	16.35	16.45	16.44
		1745 (132322)	16.30	16.59	16.65
		1720 (132072)	16.21	16.42	16.43
	1RB-Low (0)	1770 (132572)	16.28	16.39	16.41
		1745 (132322)	16.23	16.52	16.42
		1720 (132072)	16.12	16.39	16.51
	50RB-High (50)	1770 (132572)	16.45	16.39	16.37
		1745 (132322)	16.41	16.45	16.51
		1720 (132072)	16.33	16.35	16.36
	50RB-Middle (25)	1770 (132572)	16.36	16.33	16.28
		1745 (132322)	16.30	16.34	16.42
		1720 (132072)	16.36	16.36	16.26
	50RB-Low (0)	1770 (132572)	16.34	16.30	16.23
		1745 (132322)	16.30	16.31	16.23
		1720 (132072)	16.24	16.25	16.12
	100RB (0)	1770 (132572)	16.36	16.30	16.36
		1745 (132322)	16.30	16.33	16.20
		1720 (132072)	16.32	16.30	16.39

Band66-ANT2-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	23.97	23.22	22.17
		1745 (132322)	24.01	23.34	21.58
		1710.7 (131979)	23.99	23.00	21.93
	1RB-Middle (3)	1779.3 (132665)	24.00	23.37	22.32
		1745 (132322)	24.05	23.42	22.30
		1710.7 (131979)	24.10	23.01	22.14
	1RB-Low (0)	1779.3 (132665)	23.96	23.25	22.35
		1745 (132322)	24.03	23.34	22.09
		1710.7 (131979)	24.05	22.99	22.31
	3RB-High (3)	1779.3 (132665)	23.98	23.02	22.14
		1745 (132322)	23.90	23.15	22.25
		1710.7 (131979)	24.02	23.25	22.17
	3RB-Middle (1)	1779.3 (132665)	23.96	23.05	22.31
		1745 (132322)	23.93	23.21	22.31
		1710.7 (131979)	24.02	23.32	22.36
	3RB-Low (0)	1779.3 (132665)	23.96	23.04	22.28
		1745 (132322)	23.90	23.18	22.23
		1710.7 (131979)	24.04	23.27	22.10
	6RB (0)	1779.3 (132665)	22.99	22.16	21.19
		1745 (132322)	23.03	21.96	21.13
		1710.7 (131979)	23.00	22.24	21.18
3MHz	1RB-High (14)	1778.5 (132657)	24.01	22.89	22.37
		1745 (132322)	24.04	23.47	22.31
		1711.5 (131987)	24.01	22.99	22.48
	1RB-Middle (7)	1778.5 (132657)	23.95	22.83	22.25
		1745 (132322)	24.02	23.42	22.19
		1711.5 (131987)	23.90	22.93	22.28
	1RB-Low (0)	1778.5 (132657)	23.89	22.91	22.30
		1745 (132322)	24.05	23.49	22.31
		1711.5 (131987)	24.02	23.07	22.24
	8RB-High (7)	1778.5 (132657)	23.06	22.16	21.44
		1745 (132322)	23.06	22.13	21.20
		1711.5 (131987)	23.07	22.14	21.26
	8RB-Middle (4)	1778.5 (132657)	23.08	22.20	21.33
		1745 (132322)	23.10	22.17	21.29
		1711.5 (131987)	23.10	22.20	21.29
	8RB-Low (0)	1778.5 (132657)	23.06	22.17	21.32
		1745 (132322)	23.06	22.13	21.25
		1711.5 (131987)	23.11	22.15	21.27
	15RB (0)	1778.5 (132657)	23.07	22.14	21.22
		1745 (132322)	23.09	22.15	21.23
		1711.5 (131987)	23.11	22.08	21.27

5MHz	1RB-High (24)	1777.5 (132647)	24.10	23.16	22.39
		1745 (132322)	24.08	23.18	22.35
		1712.5 (131997)	24.26	23.44	22.31
	1RB-Middle (12)	1777.5 (132647)	23.96	23.02	22.25
		1745 (132322)	24.11	23.12	22.33
		1712.5 (131997)	24.15	23.42	22.27
	1RB-Low (0)	1777.5 (132647)	24.03	23.16	22.37
		1745 (132322)	24.06	23.11	22.32
		1712.5 (131997)	24.25	23.46	22.32
	12RB-High (13)	1777.5 (132647)	23.13	22.16	21.22
		1745 (132322)	23.07	22.17	21.30
		1712.5 (131997)	23.15	22.27	21.31
	12RB-Middle (6)	1777.5 (132647)	23.16	22.16	21.34
		1745 (132322)	23.10	22.21	21.29
		1712.5 (131997)	23.19	22.30	21.31
	12RB-Low (0)	1777.5 (132647)	23.11	22.14	21.25
		1745 (132322)	23.04	22.10	21.23
		1712.5 (131997)	23.18	22.30	21.29
	25RB (0)	1777.5 (132647)	23.09	22.03	21.36
		1745 (132322)	23.08	22.07	21.37
		1712.5 (131997)	23.14	22.20	20.75
10MHz	1RB-High (49)	1775 (132622)	23.85	22.96	22.41
		1745 (132322)	23.97	23.41	22.26
		1715 (132022)	24.07	22.88	22.17
	1RB-Middle (24)	1775 (132622)	23.85	23.15	22.37
		1745 (132322)	23.95	23.47	22.24
		1715 (132022)	24.03	23.07	22.34
	1RB-Low (0)	1775 (132622)	23.85	23.10	22.32
		1745 (132322)	24.03	23.23	22.27
		1715 (132022)	24.12	22.94	22.30
	25RB-High (25)	1775 (132622)	23.11	22.15	21.30
		1745 (132322)	23.13	22.16	21.08
		1715 (132022)	23.14	22.25	21.24
	25RB-Middle (12)	1775 (132622)	23.16	22.21	21.37
		1745 (132322)	23.07	22.11	21.23
		1715 (132022)	23.12	22.29	21.24
	25RB-Low (0)	1775 (132622)	23.04	22.04	21.21
		1745 (132322)	23.06	22.08	21.17
		1715 (132022)	23.14	22.27	21.31
	50RB (0)	1775 (132622)	23.00	22.04	21.01
		1745 (132322)	23.04	22.09	21.17
		1715 (132022)	23.10	22.21	21.22

15MHz	1RB-High (74)	1772.5 (132597)	23.95	23.34	22.15
		1745 (132322)	23.97	23.13	22.29
		1717.5 (132047)	23.82	23.08	22.18
	1RB-Middle (37)	1772.5 (132597)	23.91	23.28	22.04
		1745 (132322)	23.95	23.26	22.15
		1717.5 (132047)	23.80	23.04	22.12
	1RB-Low (0)	1772.5 (132597)	23.93	23.26	22.00
		1745 (132322)	23.91	23.20	21.99
		1717.5 (132047)	23.83	23.03	22.16
	36RB-High (38)	1772.5 (132597)	22.98	22.06	21.22
		1745 (132322)	22.98	22.01	21.09
		1717.5 (132047)	22.96	22.01	21.13
	36RB-Middle (19)	1772.5 (132597)	22.91	21.99	20.97
		1745 (132322)	22.93	21.92	20.96
		1717.5 (132047)	22.97	22.01	21.14
	36RB-Low (0)	1772.5 (132597)	22.89	21.95	21.06
		1745 (132322)	22.91	21.90	21.04
		1717.5 (132047)	22.97	22.01	21.13
	75RB (0)	1772.5 (132597)	22.86	21.92	20.87
		1745 (132322)	22.86	21.90	21.07
		1717.5 (132047)	22.97	21.99	21.11
20MHz	1RB-High (99)	1770 (132572)	23.85	23.49	22.20
		1745 (132322)	23.86	23.49	22.16
		1720 (132072)	23.94	23.20	22.32
	1RB-Middle (50)	1770 (132572)	23.87	23.44	22.01
		1745 (132322)	23.98	23.41	22.11
		1720 (132072)	23.93	23.29	22.20
	1RB-Low (0)	1770 (132572)	23.84	23.44	22.19
		1745 (132322)	23.88	23.47	22.15
		1720 (132072)	23.95	23.26	22.20
	50RB-High (50)	1770 (132572)	22.98	21.89	21.13
		1745 (132322)	22.99	21.92	21.09
		1720 (132072)	23.02	21.86	21.12
	50RB-Middle (25)	1770 (132572)	22.97	21.88	21.11
		1745 (132322)	22.97	21.85	21.00
		1720 (132072)	23.03	21.91	21.04
	50RB-Low (0)	1770 (132572)	22.86	21.78	21.02
		1745 (132322)	22.93	21.82	21.02
		1720 (132072)	23.00	21.86	21.07
	100RB (0)	1770 (132572)	22.87	21.80	21.04
		1745 (132322)	22.92	21.83	21.06
		1720 (132072)	23.01	21.94	21.04

Power Level C1

Band2-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	22.33	22.41	22.32
		1880 (18900)	22.44	22.63	22.59
		1850.7 (18607)	22.39	22.76	22.81
	1RB-Middle (3)	1909.3 (19193)	22.41	22.55	22.65
		1880 (18900)	22.54	22.71	22.82
		1850.7 (18607)	22.48	22.68	22.82
	1RB-Low (0)	1909.3 (19193)	22.40	22.53	22.45
		1880 (18900)	22.53	22.72	22.62
		1850.7 (18607)	22.45	22.67	22.80
	3RB-High (3)	1909.3 (19193)	22.33	22.65	22.70
		1880 (18900)	22.41	22.53	22.45
		1850.7 (18607)	22.40	22.64	22.72
	3RB-Middle (1)	1909.3 (19193)	22.42	22.75	22.79
		1880 (18900)	22.47	22.60	22.70
		1850.7 (18607)	22.43	22.70	22.71
	3RB-Low (0)	1909.3 (19193)	22.38	22.70	22.58
		1880 (18900)	22.44	22.57	22.44
		1850.7 (18607)	22.43	22.72	22.64
	6RB (0)	1909.3 (19193)	22.46	21.67	21.56
		1880 (18900)	22.49	21.62	21.54
		1850.7 (18607)	22.46	21.38	21.45
3MHz	1RB-High (14)	1908.5 (19185)	22.35	22.49	22.39
		1880 (18900)	22.41	22.36	22.27
		1851.5 (18615)	22.41	22.84	22.88
	1RB-Middle (7)	1908.5 (19185)	22.40	22.51	22.49
		1880 (18900)	22.44	22.39	22.47
		1851.5 (18615)	22.52	22.84	22.84
	1RB-Low (0)	1908.5 (19185)	22.51	22.64	22.67
		1880 (18900)	22.51	22.51	22.40
		1851.5 (18615)	22.55	22.96	22.86
	8RB-High (7)	1908.5 (19185)	22.49	21.55	21.52
		1880 (18900)	22.48	21.61	21.59
		1851.5 (18615)	22.49	21.58	21.50
	8RB-Middle (4)	1908.5 (19185)	22.56	21.62	21.57
		1880 (18900)	22.60	21.65	21.72
		1851.5 (18615)	22.54	21.64	21.61
	8RB-Low (0)	1908.5 (19185)	22.56	21.65	21.68
		1880 (18900)	22.60	21.74	21.82
		1851.5 (18615)	22.59	21.64	21.52
	15RB (0)	1908.5 (19185)	22.55	21.52	21.43
		1880 (18900)	22.60	21.58	21.67
		1851.5 (18615)	22.54	21.59	21.67

5MHz	1RB-High (24)	1907.5 (19175)	22.47	22.64	22.69
		1880 (18900)	22.54	22.65	22.54
		1852.5 (18625)	22.58	23.05	23.04
	1RB-Middle (12)	1907.5 (19175)	22.49	22.61	22.53
		1880 (18900)	22.62	22.70	22.72
		1852.5 (18625)	22.49	23.02	22.75
	1RB-Low (0)	1907.5 (19175)	22.54	22.68	22.58
		1880 (18900)	22.61	22.74	22.74
		1852.5 (18625)	22.54	23.09	23.11
	12RB-High (13)	1907.5 (19175)	22.50	21.58	21.50
		1880 (18900)	22.52	21.61	21.52
		1852.5 (18625)	22.51	21.63	21.70
	12RB-Middle (6)	1907.5 (19175)	22.61	21.68	21.60
		1880 (18900)	22.60	21.71	21.65
		1852.5 (18625)	22.62	21.70	21.78
	12RB-Low (0)	1907.5 (19175)	22.63	21.67	21.60
		1880 (18900)	22.63	21.69	21.68
		1852.5 (18625)	22.65	21.75	21.67
	25RB (0)	1907.5 (19175)	22.53	21.52	21.55
		1880 (18900)	22.56	21.61	21.69
		1852.5 (18625)	22.61	21.64	21.75
10MHz	1RB-High (49)	1905 (19150)	22.44	22.56	22.68
		1880 (18900)	22.36	22.52	22.58
		1855 (18650)	22.42	23.04	22.58
	1RB-Middle (24)	1905 (19150)	22.48	22.47	22.41
		1880 (18900)	22.39	22.59	22.66
		1855 (18650)	22.48	22.93	23.00
	1RB-Low (0)	1905 (19150)	22.44	22.71	22.83
		1880 (18900)	22.37	22.66	22.76
		1855 (18650)	22.53	22.99	22.89
	25RB-High (25)	1905 (19150)	22.54	21.65	21.59
		1880 (18900)	22.57	21.60	21.48
		1855 (18650)	22.55	21.63	21.62
	25RB-Middle (12)	1905 (19150)	22.56	21.66	21.63
		1880 (18900)	22.61	21.67	21.61
		1855 (18650)	22.62	21.61	21.58
	25RB-Low (0)	1905 (19150)	22.55	21.69	21.70
		1880 (18900)	22.62	21.64	21.53
		1855 (18650)	22.59	21.61	21.61
	50RB (0)	1905 (19150)	22.55	21.60	21.67
		1880 (18900)	22.60	21.63	21.75
		1855 (18650)	22.55	21.61	21.57

Band4-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1754.3 (20393)	22.12	22.02	21.99
		1732.5 (20175)	22.40	22.39	22.51
		1710.7 (19957)	22.40	22.29	22.31
	1RB-Middle (3)	1754.3 (20393)	22.33	22.23	22.26
		1732.5 (20175)	22.31	22.31	22.41
		1710.7 (19957)	22.30	22.38	22.25
	1RB-Low (0)	1754.3 (20393)	22.23	22.17	22.25
		1732.5 (20175)	22.25	22.17	22.04
		1710.7 (19957)	22.20	22.32	22.43
	3RB-High (3)	1754.3 (20393)	22.21	22.26	22.27
		1732.5 (20175)	22.51	22.62	22.69
		1710.7 (19957)	22.44	22.50	22.39
	3RB-Middle (1)	1754.3 (20393)	22.27	22.27	22.33
		1732.5 (20175)	22.35	22.40	22.47
		1710.7 (19957)	22.32	22.32	22.21
	3RB-Low (0)	1754.3 (20393)	22.21	22.29	22.31
		1732.5 (20175)	22.45	22.41	22.39
		1710.7 (19957)	22.28	22.28	22.32
	6RB (0)	1754.3 (20393)	22.48	22.51	22.44
		1732.5 (20175)	22.15	22.18	22.24
		1710.7 (19957)	22.38	22.47	22.48
3MHz	1RB-High (14)	1753.5 (20385)	22.19	22.21	22.28
		1732.5 (20175)	22.10	22.11	22.19
		1711.5 (19965)	22.11	22.17	22.06
	1RB-Middle (7)	1753.5 (20385)	22.38	22.48	22.59
		1732.5 (20175)	22.08	22.08	22.12
		1711.5 (19965)	22.27	22.19	22.30
	1RB-Low (0)	1753.5 (20385)	22.25	22.24	22.12
		1732.5 (20175)	22.30	22.41	22.53
		1711.5 (19965)	22.05	22.15	22.11
	8RB-High (7)	1753.5 (20385)	22.25	22.26	22.15
		1732.5 (20175)	22.47	22.46	22.34
		1711.5 (19965)	22.44	22.43	22.55
	8RB-Middle (4)	1753.5 (20385)	22.34	22.39	22.50
		1732.5 (20175)	22.31	22.42	22.39
		1711.5 (19965)	22.24	22.37	22.40
	8RB-Low (0)	1753.5 (20385)	22.48	22.39	22.51
		1732.5 (20175)	22.32	22.43	22.49
		1711.5 (19965)	22.24	22.23	22.13
	15RB (0)	1753.5 (20385)	22.29	22.18	22.13
		1732.5 (20175)	22.39	22.49	22.49
		1711.5 (19965)	22.35	22.42	22.43

15MHz	1RB-High (74)	1902.5 (19125)	22.34	22.66	22.68
		1880 (18900)	22.34	22.29	22.29
		1857.5 (18675)	22.37	22.74	22.73
	1RB-Middle (37)	1902.5 (19125)	22.36	22.68	22.58
		1880 (18900)	22.31	22.31	22.43
		1857.5 (18675)	22.33	22.72	22.71
	1RB-Low (0)	1902.5 (19125)	22.33	22.63	22.57
		1880 (18900)	22.29	22.37	22.40
		1857.5 (18675)	22.39	22.76	22.73
	36RB-High (38)	1902.5 (19125)	22.41	21.46	21.51
		1880 (18900)	22.43	21.46	21.46
		1857.5 (18675)	22.41	21.55	21.57
	36RB-Middle (19)	1902.5 (19125)	22.41	21.44	21.54
		1880 (18900)	22.45	21.44	21.52
		1857.5 (18675)	22.42	21.53	21.47
	36RB-Low (0)	1902.5 (19125)	22.35	21.37	21.40
		1880 (18900)	22.38	21.38	21.41
		1857.5 (18675)	22.44	21.52	21.44
	75RB (0)	1902.5 (19125)	22.31	21.34	21.34
		1880 (18900)	22.41	21.44	21.52
		1857.5 (18675)	22.40	21.50	21.58
20MHz	1RB-High (99)	1900 (19100)	22.33	22.86	22.58
		1880 (18900)	22.34	22.64	22.61
		1860 (18700)	22.38	22.63	22.76
	1RB-Middle (50)	1900 (19100)	22.34	22.83	22.77
		1880 (18900)	22.32	22.65	22.65
		1860 (18700)	22.41	22.57	22.62
	1RB-Low (0)	1900 (19100)	22.39	22.59	22.53
		1880 (18900)	22.32	22.65	22.72
		1860 (18700)	22.35	22.54	22.42
	50RB-High (50)	1900 (19100)	22.48	21.63	21.70
		1880 (18900)	22.50	21.65	21.57
		1860 (18700)	22.51	21.59	21.68
	50RB-Middle (25)	1900 (19100)	22.41	21.57	21.55
		1880 (18900)	22.54	21.67	21.79
		1860 (18700)	22.52	21.59	21.57
	50RB-Low (0)	1900 (19100)	22.43	21.57	21.46
		1880 (18900)	22.46	21.57	21.46
		1860 (18700)	22.52	21.55	21.64
	100RB (0)	1900 (19100)	22.40	21.53	21.61
		1880 (18900)	22.50	21.64	21.70
		1860 (18700)	22.50	21.61	21.63

5MHz	1RB-High (24)	1752.5 (20375)	22.36	22.44	22.39
		1732.5 (20175)	22.39	22.27	22.15
		1712.5 (19975)	22.15	22.07	22.15
	1RB-Middle (12)	1752.5 (20375)	22.30	22.40	22.45
		1732.5 (20175)	22.08	22.01	21.92
		1712.5 (19975)	22.31	22.42	22.44
	1RB-Low (0)	1752.5 (20375)	22.26	22.34	22.21
		1732.5 (20175)	22.25	22.27	22.26
		1712.5 (19975)	22.17	22.23	22.30
	12RB-High (13)	1752.5 (20375)	22.47	22.36	22.44
		1732.5 (20175)	22.22	22.12	22.00
		1712.5 (19975)	22.32	22.20	22.16
	12RB-Middle (6)	1752.5 (20375)	22.38	22.27	22.24
		1732.5 (20175)	22.24	22.19	22.30
		1712.5 (19975)	22.35	22.39	22.36
	12RB-Low (0)	1752.5 (20375)	22.26	22.21	22.15
		1732.5 (20175)	22.12	22.08	22.18
		1712.5 (19975)	22.36	22.47	22.59
	25RB (0)	1752.5 (20375)	22.26	22.35	22.34
		1732.5 (20175)	22.37	22.26	22.37
		1712.5 (19975)	22.15	22.07	21.96
10MHz	1RB-High (49)	1750 (20350)	22.18	22.30	22.29
		1732.5 (20175)	22.12	22.23	22.19
		1715 (20000)	22.32	22.40	22.31
	1RB-Middle (24)	1750 (20350)	22.15	22.08	22.04
		1732.5 (20175)	22.16	22.09	22.08
		1715 (20000)	22.19	22.22	22.26
	1RB-Low (0)	1750 (20350)	22.28	22.25	22.23
		1732.5 (20175)	22.14	22.02	22.08
		1715 (20000)	22.03	22.01	21.97
	25RB-High (25)	1750 (20350)	22.42	22.29	22.40
		1732.5 (20175)	22.32	22.36	22.32
		1715 (20000)	22.25	22.19	22.23
	25RB-Middle (12)	1750 (20350)	22.32	22.43	22.46
		1732.5 (20175)	22.35	22.40	22.38
		1715 (20000)	22.46	22.38	22.42
	25RB-Low (0)	1750 (20350)	22.39	22.33	22.34
		1732.5 (20175)	22.43	22.46	22.33
		1715 (20000)	22.05	21.95	21.95
	50RB (0)	1750 (20350)	22.24	22.35	22.30
		1732.5 (20175)	22.39	22.37	22.37
		1715 (20000)	22.40	22.42	22.29

15MHz	1RB-High (74)	1747.5 (20325)	22.28	22.32	22.43
		1732.5 (20175)	22.33	22.39	22.36
		1717.5 (20025)	22.19	22.27	22.29
	1RB-Middle (37)	1747.5 (20325)	22.26	22.22	22.10
		1732.5 (20175)	22.17	22.09	22.19
		1717.5 (20025)	22.30	22.25	22.32
	1RB-Low (0)	1747.5 (20325)	22.24	22.11	22.02
		1732.5 (20175)	22.28	22.15	22.25
		1717.5 (20025)	22.08	22.13	22.08
	36RB-High (38)	1747.5 (20325)	22.40	22.46	22.41
		1732.5 (20175)	22.35	22.43	22.47
		1717.5 (20025)	22.39	22.34	22.30
	36RB-Middle (19)	1747.5 (20325)	22.41	22.33	22.21
		1732.5 (20175)	22.25	22.16	22.28
		1717.5 (20025)	22.25	22.16	22.10
	36RB-Low (0)	1747.5 (20325)	22.39	22.26	22.29
		1732.5 (20175)	22.34	22.24	22.20
		1717.5 (20025)	22.32	22.23	22.12
	75RB (0)	1747.5 (20325)	22.19	22.07	22.10
		1732.5 (20175)	22.25	22.29	22.32
		1717.5 (20025)	22.43	22.49	22.56
20MHz	1RB-High (99)	1745 (20300)	22.39	22.84	22.82
		1732.5 (20175)	22.40	22.86	22.73
		1720 (20050)	22.43	22.65	22.71
	1RB-Middle (50)	1745 (20300)	22.38	22.84	22.94
		1732.5 (20175)	22.37	22.76	22.88
		1720 (20050)	22.35	22.56	22.60
	1RB-Low (0)	1745 (20300)	22.39	22.78	22.66
		1732.5 (20175)	22.30	22.75	22.73
		1720 (20050)	22.33	22.56	22.59
	50RB-High (50)	1745 (20300)	22.50	21.56	21.65
		1732.5 (20175)	22.52	21.57	21.54
		1720 (20050)	22.50	21.57	21.68
	50RB-Middle (25)	1745 (20300)	22.51	21.55	21.52
		1732.5 (20175)	22.47	21.50	21.58
		1720 (20050)	22.51	21.57	21.67
	50RB-Low (0)	1745 (20300)	22.50	21.55	21.51
		1732.5 (20175)	22.45	21.54	21.51
		1720 (20050)	22.39	21.58	21.54
	100RB (0)	1745 (20300)	22.49	21.54	21.55
		1732.5 (20175)	22.45	21.55	21.57
		1720 (20050)	22.48	21.50	21.58

Band5-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	848.3 (20643)	23.91	22.98	22.51
		836.5 (20525)	24.08	23.27	22.60
		824.7 (20407)	24.11	23.45	22.67
	1RB-Middle (3)	848.3 (20643)	23.94	23.04	22.64
		836.5 (20525)	24.14	23.29	22.64
		824.7 (20407)	24.13	23.45	22.72
	1RB-Low (0)	848.3 (20643)	23.89	22.96	22.39
		836.5 (20525)	24.03	23.18	22.46
		824.7 (20407)	24.14	23.46	22.59
	3RB-High (3)	848.3 (20643)	23.92	23.21	22.48
		836.5 (20525)	24.04	23.14	22.59
		824.7 (20407)	24.07	23.31	22.52
	3RB-Middle (1)	848.3 (20643)	23.94	23.22	22.53
		836.5 (20525)	24.08	23.16	22.68
		824.7 (20407)	24.07	23.36	22.66
	3RB-Low (0)	848.3 (20643)	23.88	23.19	22.49
		836.5 (20525)	23.97	23.07	22.58
		824.7 (20407)	24.06	23.35	22.52
	6RB (0)	848.3 (20643)	22.96	22.15	21.38
		836.5 (20525)	23.01	22.19	21.49
		824.7 (20407)	23.09	22.05	21.53
3MHz	1RB-High (14)	847.5 (20635)	23.97	23.08	22.62
		836.5 (20525)	24.06	23.08	22.67
		825.5 (20415)	24.13	23.47	22.74
	1RB-Middle (7)	847.5 (20635)	23.91	23.01	22.56
		836.5 (20525)	24.04	23.00	22.68
		825.5 (20415)	24.10	23.47	22.62
	1RB-Low (0)	847.5 (20635)	24.04	23.12	22.69
		836.5 (20525)	24.02	23.01	22.68
		825.5 (20415)	24.20	23.45	22.71
	8RB-High (7)	847.5 (20635)	23.04	22.12	21.50
		836.5 (20525)	23.15	22.26	21.61
		825.5 (20415)	23.17	22.24	21.92
	8RB-Middle (4)	847.5 (20635)	23.07	22.14	21.47
		836.5 (20525)	23.14	22.23	21.58
		825.5 (20415)	23.18	22.26	21.65
	8RB-Low (0)	847.5 (20635)	23.08	22.14	21.55
		836.5 (20525)	23.11	22.23	21.57
		825.5 (20415)	23.17	22.24	21.59
	15RB (0)	847.5 (20635)	23.09	22.04	21.55
		836.5 (20525)	23.12	22.18	21.55
		825.5 (20415)	23.19	22.25	21.57

5MHz	1RB-High (24)	846.5 (20625)	24.05	23.19	22.54
		836.5 (20525)	24.20	23.36	22.79
		826.5 (20425)	24.28	23.42	22.65
	1RB-Middle (12)	846.5 (20625)	24.01	23.16	22.56
		836.5 (20525)	24.22	23.31	22.81
		826.5 (20425)	24.16	23.41	22.64
	1RB-Low (0)	846.5 (20625)	24.02	23.21	22.64
		836.5 (20525)	24.19	23.29	22.82
		826.5 (20425)	24.27	23.44	22.74
	12RB-High (13)	846.5 (20625)	23.12	22.16	21.87
		836.5 (20525)	23.20	22.24	21.63
		826.5 (20425)	23.19	22.36	21.70
	12RB-Middle (6)	846.5 (20625)	23.08	22.09	21.48
		836.5 (20525)	23.16	22.19	21.60
		826.5 (20425)	23.21	22.37	21.67
	12RB-Low (0)	846.5 (20625)	23.09	22.14	21.45
		836.5 (20525)	23.15	22.22	21.56
		826.5 (20425)	23.20	22.36	21.49
	25RB (0)	846.5 (20625)	23.07	22.04	21.50
		836.5 (20525)	23.17	22.13	21.68
		826.5 (20425)	23.20	22.27	21.58
10MHz	1RB-High (49)	844 (20600)	24.11	23.01	22.62
		836.5 (20525)	24.11	23.02	22.60
		829 (20450)	24.13	23.41	22.77
	1RB-Middle (24)	844 (20600)	24.07	23.12	22.56
		836.5 (20525)	24.14	23.22	22.80
		829 (20450)	24.16	23.42	22.70
	1RB-Low (0)	844 (20600)	24.17	23.06	22.62
		836.5 (20525)	24.11	23.19	22.85
		829 (20450)	24.19	23.47	22.75
	25RB-High (25)	844 (20600)	23.17	22.30	21.50
		836.5 (20525)	23.24	22.30	21.55
		829 (20450)	23.24	22.27	21.68
	25RB-Middle (12)	844 (20600)	23.12	22.24	21.50
		836.5 (20525)	23.24	22.27	21.55
		829 (20450)	23.26	22.30	21.62
	25RB-Low (0)	844 (20600)	23.17	22.25	21.61
		836.5 (20525)	23.22	22.24	21.65
		829 (20450)	23.16	22.20	21.59
	50RB (0)	844 (20600)	23.18	22.22	21.53
		836.5 (20525)	23.21	22.22	21.63
		829 (20450)	23.26	22.28	21.58

Band7-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2567.5 (21425)	21.31	21.52	21.59
		2535 (21100)	21.34	21.47	21.46
		2502.5 (20775)	21.22	21.85	21.75
	1RB-Middle (12)	2567.5 (21425)	21.19	21.40	21.33
		2535 (21100)	21.33	21.57	21.51
		2502.5 (20775)	21.18	21.82	21.71
	1RB-Low (0)	2567.5 (21425)	21.23	21.43	21.41
		2535 (21100)	21.33	21.46	21.51
		2502.5 (20775)	21.13	21.78	21.69
	12RB-High (13)	2567.5 (21425)	21.38	21.43	21.51
		2535 (21100)	21.32	21.41	21.34
		2502.5 (20775)	21.31	21.48	21.50
	12RB-Middle (6)	2567.5 (21425)	21.32	21.40	21.41
		2535 (21100)	21.30	21.38	21.42
		2502.5 (20775)	21.27	21.46	21.35
	12RB-Low (0)	2567.5 (21425)	21.28	21.33	21.30
		2535 (21100)	21.24	21.37	21.33
		2502.5 (20775)	21.19	21.38	21.50
	25RB (0)	2567.5 (21425)	21.32	21.29	21.21
		2535 (21100)	21.25	21.34	21.33
		2502.5 (20775)	21.30	21.37	21.37
10MHz	1RB-High (49)	2565 (21400)	21.29	21.34	21.45
		2535 (21100)	21.32	21.30	21.34
		2505 (20800)	21.25	21.58	21.52
	1RB-Middle (24)	2565 (21400)	21.18	21.18	21.14
		2535 (21100)	21.18	21.30	21.35
		2505 (20800)	21.23	21.59	21.60
	1RB-Low (0)	2565 (21400)	21.22	21.12	21.01
		2535 (21100)	21.14	21.23	21.15
		2505 (20800)	21.18	21.48	21.57
	25RB-High (25)	2565 (21400)	21.30	21.39	21.29
		2535 (21100)	21.28	21.33	21.36
		2505 (20800)	21.20	21.30	21.36
	25RB-Middle (12)	2565 (21400)	21.33	21.38	21.26
		2535 (21100)	21.26	21.31	21.20
		2505 (20800)	21.19	21.24	21.31
	25RB-Low (0)	2565 (21400)	21.26	21.40	21.36
		2535 (21100)	21.30	21.33	21.38
		2505 (20800)	21.26	21.31	21.39
	50RB (0)	2565 (21400)	21.32	21.33	21.44
		2535 (21100)	21.28	21.32	21.28
		2505 (20800)	21.19	21.26	21.14

15MHz	1RB-High (74)	2562.5 (21375)	21.00	21.06	21.07
		2535 (21100)	21.13	21.50	21.38
		2507.5 (20825)	21.05	21.45	21.48
	1RB-Middle (37)	2562.5 (21375)	21.15	21.02	21.24
		2535 (21100)	21.11	21.40	21.37
		2507.5 (20825)	21.32	21.44	21.41
	1RB-Low (0)	2562.5 (21375)	21.26	21.06	21.17
		2535 (21100)	21.08	21.42	21.30
		2507.5 (20825)	21.33	21.27	21.19
	36RB-High (38)	2562.5 (21375)	21.08	21.10	21.15
		2535 (21100)	21.16	21.18	21.06
		2507.5 (20825)	21.09	21.05	21.12
	36RB-Middle (19)	2562.5 (21375)	21.12	21.14	21.10
		2535 (21100)	21.11	21.17	21.20
		2507.5 (20825)	21.07	21.01	21.05
	36RB-Low (0)	2562.5 (21375)	21.09	21.14	21.09
		2535 (21100)	21.16	21.22	21.11
		2507.5 (20825)	21.07	21.04	21.08
	75RB (0)	2562.5 (21375)	21.14	21.13	21.11
		2535 (21100)	21.08	21.13	21.08
		2507.5 (20825)	21.04	21.07	21.12
20MHz	1RB-High (99)	2560 (21350)	21.66	21.93	21.94
		2535 (21100)	21.68	21.92	21.85
		2510 (20850)	21.65	21.71	21.58
	1RB-Middle (50)	2560 (21350)	21.65	21.94	22.01
		2535 (21100)	21.66	21.93	22.04
		2510 (20850)	21.56	21.68	21.77
	1RB-Low (0)	2560 (21350)	21.57	21.87	21.79
		2535 (21100)	21.59	21.74	21.82
		2510 (20850)	21.47	21.62	21.60
	50RB-High (50)	2560 (21350)	21.76	21.46	21.34
		2535 (21100)	21.80	21.51	21.46
		2510 (20850)	21.68	21.37	21.48
	50RB-Middle (25)	2560 (21350)	21.81	21.56	21.49
		2535 (21100)	21.78	21.52	21.55
		2510 (20850)	21.76	21.45	21.37
	50RB-Low (0)	2560 (21350)	21.78	21.49	21.47
		2535 (21100)	21.80	21.52	21.58
		2510 (20850)	21.71	21.38	21.27
	100RB (0)	2560 (21350)	21.81	21.55	21.43
		2535 (21100)	21.77	21.48	21.56
		2510 (20850)	21.64	21.40	21.33

Band12-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	715.3 (23173)	23.72	22.80	22.46
		707.5 (23095)	23.80	22.97	22.55
		699.7 (23017)	23.70	23.11	22.43
	1RB-Middle (3)	715.3 (23173)	23.82	22.90	22.52
		707.5 (23095)	23.84	23.04	22.50
		699.7 (23017)	23.81	23.23	22.49
	1RB-Low (0)	715.3 (23173)	23.79	22.86	22.53
		707.5 (23095)	23.81	22.97	22.38
		699.7 (23017)	23.76	23.21	22.44
	3RB-High (3)	715.3 (23173)	23.73	23.01	22.36
		707.5 (23095)	23.75	22.83	22.44
		699.7 (23017)	23.68	22.95	22.42
	3RB-Middle (1)	715.3 (23173)	23.78	23.10	22.54
		707.5 (23095)	23.73	22.81	22.44
		699.7 (23017)	23.77	23.00	22.54
	3RB-Low (0)	715.3 (23173)	23.76	23.03	22.49
		707.5 (23095)	23.72	22.81	22.37
		699.7 (23017)	23.75	23.02	22.55
	6RB (0)	715.3 (23173)	22.82	22.02	21.35
		707.5 (23095)	22.75	21.92	21.24
		699.7 (23017)	22.78	21.70	21.31
3MHz	1RB-High (14)	714.5 (23165)	23.75	22.88	22.53
		707.5 (23095)	23.77	22.73	22.57
		700.5 (23025)	23.79	23.19	22.48
	1RB-Middle (7)	714.5 (23165)	23.78	22.87	22.57
		707.5 (23095)	23.74	22.70	22.56
		700.5 (23025)	23.82	23.18	22.42
	1RB-Low (0)	714.5 (23165)	23.81	22.90	22.55
		707.5 (23095)	23.72	22.69	22.51
		700.5 (23025)	23.87	23.29	22.65
	8RB-High (7)	714.5 (23165)	22.91	21.91	21.52
		707.5 (23095)	22.86	21.95	21.38
		700.5 (23025)	22.80	21.88	21.32
	8RB-Middle (4)	714.5 (23165)	22.96	21.98	21.50
		707.5 (23095)	22.91	21.99	21.42
		700.5 (23025)	22.85	21.91	21.43
	8RB-Low (0)	714.5 (23165)	22.90	21.94	21.50
		707.5 (23095)	22.85	21.97	21.39
		700.5 (23025)	22.87	21.92	21.44
	15RB (0)	714.5 (23165)	22.87	21.88	21.35
		707.5 (23095)	22.85	21.90	21.39
		700.5 (23025)	22.87	21.90	21.42

5MHz	1RB-High (24)	713.5 (23155)	23.92	23.04	22.59
		707.5 (23095)	23.88	23.41	22.56
		701.5 (23035)	23.85	22.99	22.98
	1RB-Middle (12)	713.5 (23155)	23.89	23.17	22.59
		707.5 (23095)	23.85	23.37	22.57
		701.5 (23035)	23.81	22.94	22.53
	1RB-Low (0)	713.5 (23155)	23.88	23.00	22.57
		707.5 (23095)	23.82	23.31	22.64
		701.5 (23035)	23.77	22.92	22.56
	12RB-High (13)	713.5 (23155)	22.88	21.98	21.45
		707.5 (23095)	22.91	22.03	21.40
		701.5 (23035)	22.86	21.91	21.39
	12RB-Middle (6)	713.5 (23155)	22.85	21.99	21.49
		707.5 (23095)	22.90	22.00	21.45
		701.5 (23035)	22.89	21.93	21.42
	12RB-Low (0)	713.5 (23155)	22.84	21.94	21.45
		707.5 (23095)	22.86	22.00	21.44
		701.5 (23035)	22.90	21.95	21.41
	25RB (0)	713.5 (23155)	22.85	21.89	21.31
		707.5 (23095)	22.87	21.86	21.35
		701.5 (23035)	22.84	21.80	21.44
10MHz	1RB-High (49)	711 (23130)	23.69	22.87	22.61
		707.5 (23095)	23.75	22.98	22.56
		704 (23060)	23.85	22.81	22.51
	1RB-Middle (24)	711 (23130)	23.68	22.88	22.55
		707.5 (23095)	23.81	22.93	22.72
		704 (23060)	23.75	22.81	22.62
	1RB-Low (0)	711 (23130)	23.68	22.92	22.57
		707.5 (23095)	23.79	22.95	22.46
		704 (23060)	23.88	22.79	22.64
	25RB-High (25)	711 (23130)	22.84	21.87	21.44
		707.5 (23095)	22.86	21.93	21.51
		704 (23060)	22.81	21.94	21.56
	25RB-Middle (12)	711 (23130)	22.80	21.89	21.38
		707.5 (23095)	22.79	21.83	21.37
		704 (23060)	22.85	21.98	21.37
	25RB-Low (0)	711 (23130)	22.82	21.87	21.39
		707.5 (23095)	22.82	21.86	21.38
		704 (23060)	22.80	21.88	21.33
	50RB (0)	711 (23130)	22.78	21.82	21.38
		707.5 (23095)	22.79	21.82	21.42
		704 (23060)	22.83	21.90	21.36

Band13-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	784.5 (23255)	23.94	23.13	22.48
		782 (23230)	24.04	23.35	22.55
		779.5 (23205)	23.94	23.15	22.61
	1RB-Middle (12)	784.5 (23255)	23.95	23.17	22.31
		782 (23230)	24.03	23.48	22.50
		779.5 (23205)	23.97	23.03	22.45
	1RB-Low (0)	784.5 (23255)	23.91	23.09	22.56
		782 (23230)	23.94	23.41	22.48
		779.5 (23205)	23.88	23.10	22.44
	12RB-High (13)	784.5 (23255)	22.95	22.04	21.38
		782 (23230)	23.00	22.15	21.41
		779.5 (23205)	23.05	22.11	21.43
	12RB-Middle (6)	784.5 (23255)	23.01	22.11	21.49
		782 (23230)	22.99	22.13	21.47
		779.5 (23205)	23.03	22.12	21.46
	12RB-Low (0)	784.5 (23255)	22.88	21.99	21.31
		782 (23230)	22.95	22.07	21.42
		779.5 (23205)	22.93	22.01	21.35
	25RB (0)	784.5 (23255)	22.99	21.99	21.36
		782 (23230)	22.96	22.03	21.39
		779.5 (23205)	23.00	21.93	21.34
10MHz	1RB-High (49)	782 (23230)	23.73	23.04	22.70
	1RB-Middle (24)	782 (23230)	23.80	23.03	22.81
	1RB-Low (0)	782 (23230)	23.78	23.08	22.84
	25RB-High (25)	782 (23230)	23.02	22.07	21.56
	25RB-Middle (12)	782 (23230)	22.98	22.07	21.60
	25RB-Low (0)	782 (23230)	22.99	22.02	21.54
	50RB (0)	782 (23230)	22.96	21.99	21.49

Band14-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	
5MHz	1RB-High (24)	795.5 (23355)	22.89	22.04	21.50
		793 (23330)	22.87	22.01	21.53
		790.5 (23305)	23.03	22.49	21.52
	1RB-Middle (12)	795.5 (23355)	22.87	22.00	21.42
		793 (23330)	22.99	22.10	21.48
		790.5 (23305)	22.97	22.44	21.62
	1RB-Low (0)	795.5 (23355)	22.97	22.18	21.49
		793 (23330)	22.97	22.11	21.53
		790.5 (23305)	22.99	22.46	21.59
	12RB-High (13)	795.5 (23355)	21.96	21.02	20.39
		793 (23330)	21.92	20.99	20.30
		790.5 (23305)	22.01	21.15	20.42
	12RB-Middle (6)	795.5 (23355)	22.06	21.11	20.54
		793 (23330)	21.98	21.07	20.52
		790.5 (23305)	22.09	21.23	20.52
	12RB-Low (0)	795.5 (23355)	22.07	21.12	20.52
		793 (23330)	21.97	21.08	20.50
		790.5 (23305)	22.07	21.20	20.51
	25RB (0)	795.5 (23355)	22.01	20.96	20.47
		793 (23330)	21.98	20.99	20.40
		790.5 (23305)	22.04	21.08	20.38
10MHz	1RB-High (49)	793 (23330)	22.77	22.00	20.41
	1RB-Middle (24)	793 (23330)	22.81	22.05	20.41
	1RB-Low (0)	793 (23330)	22.79	22.10	20.50
	25RB-High (25)	793 (23330)	21.95	20.99	20.41
	25RB-Middle (12)	793 (23330)	22.02	21.10	20.29
	25RB-Low (0)	793 (23330)	21.99	21.09	20.38
	50RB (0)	793 (23330)	21.94	20.94	20.33

Band25-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1914.3 (26683)	23.40	22.47	22.31
		1882.5 (26365)	23.39	22.56	22.08
		1850.7 (26047)	23.30	22.69	22.15
	1RB-Middle (3)	1914.3 (26683)	23.46	22.51	22.16
		1882.5 (26365)	23.44	22.62	22.23
		1850.7 (26047)	23.37	22.79	22.18
	1RB-Low (0)	1914.3 (26683)	23.44	22.45	22.24
		1882.5 (26365)	23.42	22.56	22.16
		1850.7 (26047)	23.33	22.71	22.10
	3RB-High (3)	1914.3 (26683)	23.49	22.73	22.13
		1882.5 (26365)	23.37	22.46	22.13
		1850.7 (26047)	23.27	22.50	22.06
	3RB-Middle (1)	1914.3 (26683)	23.45	22.72	22.29
		1882.5 (26365)	23.39	22.48	22.14
		1850.7 (26047)	23.31	22.57	22.19
	3RB-Low (0)	1914.3 (26683)	23.41	22.66	22.26
		1882.5 (26365)	23.36	22.44	22.08
		1850.7 (26047)	23.27	22.55	22.12
	6RB (0)	1914.3 (26683)	22.46	21.62	21.09
		1882.5 (26365)	22.40	21.56	21.44
		1850.7 (26047)	22.31	21.28	20.97
3MHz	1RB-High (14)	1913.5 (26675)	23.45	22.49	22.37
		1882.5 (26365)	23.43	22.38	22.25
		1851.5 (26055)	23.40	22.81	22.31
	1RB-Middle (7)	1913.5 (26675)	23.39	22.38	22.09
		1882.5 (26365)	23.36	22.34	22.14
		1851.5 (26055)	23.33	22.70	22.13
	1RB-Low (0)	1913.5 (26675)	23.47	22.52	22.32
		1882.5 (26365)	23.40	22.42	22.30
		1851.5 (26055)	23.40	22.80	22.21
	8RB-High (7)	1913.5 (26675)	22.51	21.60	21.15
		1882.5 (26365)	22.49	21.60	21.14
		1851.5 (26055)	22.40	21.47	21.05
	8RB-Middle (4)	1913.5 (26675)	22.51	21.64	21.24
		1882.5 (26365)	22.52	21.62	21.19
		1851.5 (26055)	22.43	21.53	21.16
	8RB-Low (0)	1913.5 (26675)	22.51	21.58	21.15
		1882.5 (26365)	22.51	21.57	21.17
		1851.5 (26055)	22.43	21.49	21.08
	15RB (0)	1913.5 (26675)	22.55	21.50	21.12
		1882.5 (26365)	22.51	21.51	21.03
		1851.5 (26055)	22.44	21.44	20.88

5MHz	1RB-High (24)	1912.5 (26665)	23.48	22.67	22.15
		1882.5 (26365)	23.54	22.68	22.22
		1852.5 (26065)	23.46	23.00	22.23
	1RB-Middle (12)	1912.5 (26665)	23.42	22.52	22.09
		1882.5 (26365)	23.52	22.62	22.16
		1852.5 (26065)	23.38	22.88	22.22
	1RB-Low (0)	1912.5 (26665)	23.47	22.64	22.32
		1882.5 (26365)	23.56	22.69	22.35
		1852.5 (26065)	23.46	22.98	22.26
	12RB-High (13)	1912.5 (26665)	22.57	21.64	21.22
		1882.5 (26365)	22.49	21.57	21.15
		1852.5 (26065)	22.47	21.56	21.10
	12RB-Middle (6)	1912.5 (26665)	22.59	21.62	21.22
		1882.5 (26365)	22.47	21.56	21.19
		1852.5 (26065)	22.45	21.58	21.15
	12RB-Low (0)	1912.5 (26665)	22.58	21.63	21.20
		1882.5 (26365)	22.52	21.57	21.11
		1852.5 (26065)	22.43	21.60	21.20
	25RB (0)	1912.5 (26665)	22.54	21.51	21.24
		1882.5 (26365)	22.53	21.56	21.16
		1852.5 (26065)	22.43	21.51	21.09
10MHz	1RB-High (49)	1910 (26640)	23.34	22.59	22.18
		1882.5 (26365)	23.42	22.82	22.20
		1855 (26090)	23.30	22.32	22.04
	1RB-Middle (24)	1910 (26640)	23.32	22.48	22.40
		1882.5 (26365)	23.40	22.80	22.23
		1855 (26090)	23.36	22.38	22.35
	1RB-Low (0)	1910 (26640)	23.37	22.55	22.27
		1882.5 (26365)	23.43	22.93	22.23
		1855 (26090)	23.35	22.47	22.15
	25RB-High (25)	1910 (26640)	22.57	21.62	20.61
		1882.5 (26365)	22.55	21.57	20.53
		1855 (26090)	22.48	21.57	21.16
	25RB-Middle (12)	1910 (26640)	22.60	21.63	21.16
		1882.5 (26365)	22.58	21.55	21.13
		1855 (26090)	22.48	21.58	21.14
	25RB-Low (0)	1910 (26640)	22.50	21.55	21.18
		1882.5 (26365)	22.52	21.53	21.14
		1855 (26090)	22.45	21.53	21.13
	50RB (0)	1910 (26640)	22.58	21.58	21.18
		1882.5 (26365)	22.51	21.55	20.89
		1855 (26090)	22.47	21.49	21.14

15MHz	1RB-High (74)	1907.5 (26615)	23.14	22.33	22.05
		1882.5 (26365)	23.29	22.67	22.01
		1857.5 (26115)	23.29	22.56	22.19
	1RB-Middle (37)	1907.5 (26615)	23.24	22.27	22.00
		1882.5 (26365)	23.31	22.65	21.99
		1857.5 (26115)	23.25	22.48	22.03
	1RB-Low (0)	1907.5 (26615)	23.20	22.23	22.10
		1882.5 (26365)	23.24	22.61	21.97
		1857.5 (26115)	23.28	22.58	22.09
	36RB-High (38)	1907.5 (26615)	22.42	21.44	20.97
		1882.5 (26365)	22.42	21.48	21.00
		1857.5 (26115)	22.34	21.32	20.91
	36RB-Middle (19)	1907.5 (26615)	22.34	21.36	20.90
		1882.5 (26365)	22.42	21.44	21.03
		1857.5 (26115)	22.31	21.30	21.01
	36RB-Low (0)	1907.5 (26615)	22.33	21.30	20.90
		1882.5 (26365)	22.32	21.35	20.91
		1857.5 (26115)	22.28	21.25	20.96
	75RB (0)	1907.5 (26615)	22.32	21.33	20.93
		1882.5 (26365)	22.35	21.39	20.82
		1857.5 (26115)	22.27	21.28	20.93
20MHz	1RB-High (99)	1905 (26590)	23.49	22.98	22.13
		1882.5 (26365)	23.42	22.89	22.02
		1860 (26140)	23.47	22.69	22.07
	1RB-Middle (50)	1905 (26590)	23.42	22.91	22.06
		1882.5 (26365)	23.44	22.96	22.02
		1860 (26140)	23.43	22.66	22.04
	1RB-Low (0)	1905 (26590)	23.48	22.91	22.01
		1882.5 (26365)	23.40	22.96	22.02
		1860 (26140)	23.40	22.64	21.90
	50RB-High (50)	1905 (26590)	22.61	21.52	20.98
		1882.5 (26365)	22.62	21.48	20.91
		1860 (26140)	22.61	21.39	20.97
	50RB-Middle (25)	1905 (26590)	22.60	21.52	21.06
		1882.5 (26365)	22.65	21.49	20.98
		1860 (26140)	22.61	21.40	20.94
	50RB-Low (0)	1905 (26590)	22.51	21.41	20.94
		1882.5 (26365)	22.53	21.40	20.92
		1860 (26140)	22.54	21.38	21.01
	100RB (0)	1905 (26590)	22.61	21.49	20.58
		1882.5 (26365)	22.64	21.45	20.97
		1860 (26140)	22.57	21.45	20.98

Band26-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	848.3 (27033)	22.90	21.97	21.40
		831.5 (26865)	23.07	22.20	21.54
		814.7 (26697)	23.09	22.40	21.15
	1RB-Middle (3)	848.3 (27033)	22.92	22.02	21.53
		831.5 (26865)	23.09	22.36	21.65
		814.7 (26697)	23.14	22.45	21.64
	1RB-Low (0)	848.3 (27033)	22.87	21.98	21.58
		831.5 (26865)	23.03	22.18	21.57
		814.7 (26697)	23.05	22.40	21.62
	3RB-High (3)	848.3 (27033)	22.87	22.17	21.21
		831.5 (26865)	23.06	22.12	21.53
		814.7 (26697)	23.01	22.31	21.58
	3RB-Middle (1)	848.3 (27033)	22.93	22.21	21.54
		831.5 (26865)	23.03	22.17	21.69
		814.7 (26697)	23.06	22.34	21.60
	3RB-Low (0)	848.3 (27033)	22.87	22.18	21.56
		831.5 (26865)	22.99	22.07	21.53
		814.7 (26697)	23.04	22.29	21.53
	6RB (0)	848.3 (27033)	21.95	21.20	20.39
		831.5 (26865)	22.02	21.16	20.42
		814.7 (26697)	22.07	21.03	20.53
3MHz	1RB-High (14)	847.5 (27025)	22.94	22.40	21.53
		831.5 (26865)	23.05	22.13	21.69
		815.5 (26705)	23.03	22.12	21.97
	1RB-Middle (7)	847.5 (27025)	22.92	22.32	21.56
		831.5 (26865)	23.02	22.09	21.69
		815.5 (26705)	23.00	22.07	21.19
	1RB-Low (0)	847.5 (27025)	22.98	22.50	21.67
		831.5 (26865)	22.94	22.12	21.69
		815.5 (26705)	22.93	22.10	21.21
	8RB-High (7)	847.5 (27025)	22.05	21.13	20.24
		831.5 (26865)	22.14	21.21	20.61
		815.5 (26705)	22.13	21.22	20.78
	8RB-Middle (4)	847.5 (27025)	22.07	21.14	20.49
		831.5 (26865)	22.16	21.22	20.68
		815.5 (26705)	22.17	21.23	20.39
	8RB-Low (0)	847.5 (27025)	22.09	21.14	20.56
		831.5 (26865)	22.10	21.17	20.51
		815.5 (26705)	22.10	21.16	20.47
	15RB (0)	847.5 (27025)	22.09	21.14	20.50
		831.5 (26865)	22.12	21.03	20.58
		815.5 (26705)	22.10	21.06	20.49

5MHz	1RB-High (24)	846.5 (27015)	23.02	22.17	21.53
		831.5 (26865)	23.13	22.29	21.74
		816.5 (26715)	23.13	22.47	21.77
	1RB-Middle (12)	846.5 (27015)	23.02	22.15	21.61
		831.5 (26865)	23.16	22.25	21.67
		816.5 (26715)	23.21	22.48	21.64
	1RB-Low (0)	846.5 (27015)	23.07	22.24	21.64
		831.5 (26865)	23.08	22.23	21.73
		816.5 (26715)	23.20	22.47	21.74
	12RB-High (13)	846.5 (27015)	22.12	21.14	20.57
		831.5 (26865)	22.13	21.24	20.60
		816.5 (26715)	22.19	21.26	20.42
	12RB-Middle (6)	846.5 (27015)	22.09	21.15	20.57
		831.5 (26865)	22.08	21.20	20.58
		816.5 (26715)	22.20	21.33	20.60
	12RB-Low (0)	846.5 (27015)	22.12	21.15	20.54
		831.5 (26865)	22.07	21.19	20.56
		816.5 (26715)	22.21	21.37	20.62
	25RB (0)	846.5 (27015)	22.13	21.05	20.51
		831.5 (26865)	22.10	21.11	20.60
		816.5 (26715)	22.19	21.23	20.58
10MHz	1RB-High (49)	844 (26990)	22.99	22.10	21.56
		831.5 (26865)	23.05	22.46	21.66
		820 (26750)	23.03	22.02	21.76
	1RB-Middle (24)	844 (26990)	22.91	22.08	21.53
		831.5 (26865)	23.08	22.48	21.72
		820 (26750)	23.07	22.08	21.74
	1RB-Low (0)	844 (26990)	22.95	22.19	21.68
		831.5 (26865)	23.14	22.47	21.65
		820 (26750)	23.20	22.12	21.60
	25RB-High (25)	844 (26990)	22.10	21.16	20.62
		831.5 (26865)	22.18	21.20	20.62
		820 (26750)	22.17	21.27	20.64
	25RB-Middle (12)	844 (26990)	22.05	21.12	20.53
		831.5 (26865)	22.13	21.13	20.56
		820 (26750)	22.19	21.30	20.65
	25RB-Low (0)	844 (26990)	22.07	21.10	20.54
		831.5 (26865)	22.13	21.17	20.61
		820 (26750)	22.10	21.22	20.52
	50RB (0)	844 (26990)	22.01	21.10	20.44
		831.5 (26865)	22.16	21.13	20.57
		820 (26750)	22.16	21.21	20.71

15MHz	1RB-High (74)	841.5 (26965)	22.83	22.18	21.34
		831.5 (26865)	22.78	21.77	21.35
		822.5 (26775)	22.90	22.27	21.55
	1RB-Middle (37)	841.5 (26965)	22.85	22.14	21.34
		831.5 (26865)	22.84	21.86	21.53
		822.5 (26775)	22.92	22.24	21.53
	1RB-Low (0)	841.5 (26965)	22.88	22.20	21.42
		831.5 (26865)	22.78	21.88	21.46
		822.5 (26775)	22.98	22.28	21.47
	36RB-High (38)	841.5 (26965)	21.96	20.99	20.36
		831.5 (26865)	22.02	21.04	20.23
		822.5 (26775)	22.04	21.11	20.53
	36RB-Middle (19)	841.5 (26965)	21.89	20.88	20.32
		831.5 (26865)	21.96	20.97	20.38
		822.5 (26775)	22.03	21.13	20.43
	36RB-Low (0)	841.5 (26965)	21.91	20.92	20.40
		831.5 (26865)	21.97	21.00	20.48
		822.5 (26775)	21.98	21.06	20.39
	75RB (0)	841.5 (26965)	21.92	20.91	20.27
		831.5 (26865)	21.97	21.00	20.22
		822.5 (26775)	22.03	21.11	20.33

Band66-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	23.35	22.45	21.98
		1745 (132322)	23.37	22.55	22.04
		1710.7 (131979)	23.37	22.79	22.15
	1RB-Middle (3)	1779.3 (132665)	23.41	22.48	22.14
		1745 (132322)	23.41	22.64	22.24
		1710.7 (131979)	23.47	22.88	22.21
	1RB-Low (0)	1779.3 (132665)	23.36	22.42	22.14
		1745 (132322)	23.39	22.56	22.10
		1710.7 (131979)	23.40	22.82	22.20
	3RB-High (3)	1779.3 (132665)	23.33	22.59	22.03
		1745 (132322)	23.37	22.48	22.05
		1710.7 (131979)	23.38	22.61	22.07
	3RB-Middle (1)	1779.3 (132665)	23.38	22.63	22.07
		1745 (132322)	23.40	22.48	22.09
		1710.7 (131979)	23.41	22.67	22.11
	3RB-Low (0)	1779.3 (132665)	23.32	22.61	22.11
		1745 (132322)	23.34	22.46	22.13
		1710.7 (131979)	23.39	22.65	22.12
	6RB (0)	1779.3 (132665)	22.40	21.61	20.96
		1745 (132322)	22.41	21.59	20.94
		1710.7 (131979)	22.45	21.40	20.90
3MHz	1RB-High (14)	1778.5 (132657)	23.35	22.46	22.13
		1745 (132322)	23.37	22.37	22.22
		1711.5 (131987)	23.46	22.90	22.19
	1RB-Middle (7)	1778.5 (132657)	23.28	22.44	22.14
		1745 (132322)	23.35	22.34	22.16
		1711.5 (131987)	23.44	22.87	22.07
	1RB-Low (0)	1778.5 (132657)	23.31	22.52	22.19
		1745 (132322)	23.36	22.42	22.20
		1711.5 (131987)	23.46	22.89	22.25
	8RB-High (7)	1778.5 (132657)	22.45	21.56	21.02
		1745 (132322)	22.48	21.55	21.05
		1711.5 (131987)	22.50	21.59	21.10
	8RB-Middle (4)	1778.5 (132657)	22.46	21.55	21.07
		1745 (132322)	22.51	21.61	21.15
		1711.5 (131987)	22.48	21.60	21.18
	8RB-Low (0)	1778.5 (132657)	22.44	21.54	21.06
		1745 (132322)	22.49	21.57	21.13
		1711.5 (131987)	22.47	21.57	21.11
	15RB (0)	1778.5 (132657)	22.45	21.50	21.06
		1745 (132322)	22.50	21.51	21.10
		1711.5 (131987)	22.48	21.56	21.24

5MHz	1RB-High (24)	1777.5 (132647)	23.50	22.65	22.16
		1745 (132322)	23.51	22.68	22.18
		1712.5 (131997)	23.44	22.85	22.49
	1RB-Middle (12)	1777.5 (132647)	23.55	22.57	22.17
		1745 (132322)	23.63	22.63	22.18
		1712.5 (131997)	23.50	22.96	22.16
	1RB-Low (0)	1777.5 (132647)	23.47	22.64	22.21
		1745 (132322)	23.49	22.59	22.25
		1712.5 (131997)	23.47	22.95	22.20
	12RB-High (13)	1777.5 (132647)	22.53	21.60	21.14
		1745 (132322)	22.53	21.57	21.08
		1712.5 (131997)	22.49	21.66	21.16
	12RB-Middle (6)	1777.5 (132647)	22.50	21.61	21.15
		1745 (132322)	22.54	21.63	21.14
		1712.5 (131997)	22.52	21.67	21.15
	12RB-Low (0)	1777.5 (132647)	22.42	21.56	21.08
		1745 (132322)	22.45	21.53	21.01
		1712.5 (131997)	22.51	21.66	21.06
	25RB (0)	1777.5 (132647)	22.41	21.44	21.01
		1745 (132322)	22.46	21.48	21.03
		1712.5 (131997)	22.53	21.60	21.04
10MHz	1RB-High (49)	1775 (132622)	23.32	22.36	22.10
		1745 (132322)	23.33	22.44	22.23
		1715 (132022)	23.37	22.91	22.22
	1RB-Middle (24)	1775 (132622)	23.27	22.39	22.37
		1745 (132322)	23.32	22.47	22.38
		1715 (132022)	23.43	22.78	22.26
	1RB-Low (0)	1775 (132622)	23.25	22.55	22.18
		1745 (132322)	23.24	22.42	22.15
		1715 (132022)	23.38	22.81	22.11
	25RB-High (25)	1775 (132622)	22.51	21.60	21.19
		1745 (132322)	22.51	21.54	21.14
		1715 (132022)	22.52	21.57	21.13
	25RB-Middle (12)	1775 (132622)	22.42	21.62	21.13
		1745 (132322)	22.40	21.50	21.06
		1715 (132022)	22.54	21.55	21.04
	25RB-Low (0)	1775 (132622)	22.38	21.63	21.08
		1745 (132322)	22.40	21.46	21.06
		1715 (132022)	22.51	21.51	21.11
	50RB (0)	1775 (132622)	22.44	21.59	21.02
		1745 (132322)	22.41	21.44	21.17
		1715 (132022)	22.50	21.55	21.10

15MHz	1RB-High (74)	1772.5 (132597)	23.24	22.30	22.00
		1745 (132322)	23.28	22.59	21.96
		1717.5 (132047)	23.25	22.60	21.96
	1RB-Middle (37)	1772.5 (132597)	23.25	22.29	22.03
		1745 (132322)	23.34	22.65	22.15
		1717.5 (132047)	23.32	22.75	22.05
	1RB-Low (0)	1772.5 (132597)	23.29	22.26	22.01
		1745 (132322)	23.31	22.64	21.85
		1717.5 (132047)	23.31	22.68	21.99
	36RB-High (38)	1772.5 (132597)	22.33	21.37	21.05
		1745 (132322)	22.38	21.44	21.02
		1717.5 (132047)	22.35	21.39	20.98
	36RB-Middle (19)	1772.5 (132597)	22.29	21.30	20.93
		1745 (132322)	22.31	21.37	20.91
		1717.5 (132047)	22.38	21.38	20.93
	36RB-Low (0)	1772.5 (132597)	22.28	21.28	20.91
		1745 (132322)	22.30	21.33	20.92
		1717.5 (132047)	22.36	21.38	21.00
	75RB (0)	1772.5 (132597)	22.29	21.28	20.82
		1745 (132322)	22.26	21.30	20.89
		1717.5 (132047)	22.35	21.37	20.90
20MHz	1RB-High (99)	1770 (132572)	23.52	22.95	22.04
		1745 (132322)	23.55	22.79	21.99
		1720 (132072)	23.57	22.99	21.99
	1RB-Middle (50)	1770 (132572)	23.27	22.93	22.08
		1745 (132322)	23.32	22.76	22.05
		1720 (132072)	23.34	22.95	21.89
	1RB-Low (0)	1770 (132572)	23.25	22.86	21.95
		1745 (132322)	23.28	22.72	21.94
		1720 (132072)	23.31	22.89	21.92
	50RB-High (50)	1770 (132572)	22.46	21.48	20.95
		1745 (132322)	22.45	21.45	20.97
		1720 (132072)	22.47	21.48	20.91
	50RB-Middle (25)	1770 (132572)	22.38	21.41	20.89
		1745 (132322)	22.39	21.41	20.87
		1720 (132072)	22.45	21.50	20.95
	50RB-Low (0)	1770 (132572)	22.38	21.40	20.96
		1745 (132322)	22.35	21.36	20.84
		1720 (132072)	22.38	21.38	20.95
	100RB (0)	1770 (132572)	22.37	21.37	20.81
		1745 (132322)	22.36	21.39	20.94
		1720 (132072)	22.46	21.49	20.99

Power Level D1

Band2-ANT3-Power Level D1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	21.43	21.65	21.60
		1880 (18900)	21.44	21.43	21.54
		1850.7 (18607)	21.40	21.55	21.51
	1RB-Middle (3)	1909.3 (19193)	21.50	21.84	21.80
		1880 (18900)	21.45	21.51	21.40
		1850.7 (18607)	21.48	21.66	21.64
	1RB-Low (0)	1909.3 (19193)	21.43	21.79	21.85
		1880 (18900)	21.46	21.46	21.33
		1850.7 (18607)	21.40	21.65	21.68
	3RB-High (3)	1909.3 (19193)	21.38	21.58	21.49
		1880 (18900)	21.37	21.60	21.60
		1850.7 (18607)	21.42	21.46	21.58
	3RB-Middle (1)	1909.3 (19193)	21.42	21.64	21.58
		1880 (18900)	21.44	21.67	21.64
		1850.7 (18607)	21.42	21.52	21.58
	3RB-Low (0)	1909.3 (19193)	21.45	21.66	21.70
		1880 (18900)	21.44	21.68	21.79
		1850.7 (18607)	21.37	21.51	21.56
	6RB (0)	1909.3 (19193)	21.45	21.35	21.46
		1880 (18900)	21.46	21.64	21.67
		1850.7 (18607)	21.44	21.58	21.47
3MHz	1RB-High (14)	1908.5 (19185)	21.49	21.40	21.32
		1880 (18900)	21.40	21.26	21.28
		1851.5 (18615)	21.47	21.80	21.76
	1RB-Middle (7)	1908.5 (19185)	21.50	21.50	21.37
		1880 (18900)	21.48	21.37	21.25
		1851.5 (18615)	21.44	21.77	21.89
	1RB-Low (0)	1908.5 (19185)	21.57	21.64	21.76
		1880 (18900)	21.54	21.46	21.34
		1851.5 (18615)	21.54	21.93	21.94
	8RB-High (7)	1908.5 (19185)	21.47	21.52	21.43
		1880 (18900)	21.51	21.57	21.66
		1851.5 (18615)	21.49	21.53	21.59
	8RB-Middle (4)	1908.5 (19185)	21.54	21.59	21.71
		1880 (18900)	21.55	21.67	21.75
		1851.5 (18615)	21.54	21.62	21.72
	8RB-Low (0)	1908.5 (19185)	21.55	21.63	21.74
		1880 (18900)	21.59	21.69	21.56
		1851.5 (18615)	21.58	21.65	21.54
	15RB (0)	1908.5 (19185)	21.53	21.49	21.39
		1880 (18900)	21.56	21.61	21.52
		1851.5 (18615)	21.55	21.58	21.50

5MHz	1RB-High (24)	1907.5 (19175)	21.39	21.62	21.65
		1880 (18900)	21.44	21.67	21.70
		1852.5 (18625)	21.47	22.01	22.01
	1RB-Middle (12)	1907.5 (19175)	21.44	21.56	21.59
		1880 (18900)	21.40	21.66	21.64
		1852.5 (18625)	21.46	22.00	21.98
	1RB-Low (0)	1907.5 (19175)	21.45	21.64	21.76
		1880 (18900)	21.53	21.73	21.64
		1852.5 (18625)	21.52	22.10	22.01
	12RB-High (13)	1907.5 (19175)	21.51	21.55	21.44
		1880 (18900)	21.50	21.59	21.61
		1852.5 (18625)	21.48	21.64	21.68
	12RB-Middle (6)	1907.5 (19175)	21.60	21.65	21.70
		1880 (18900)	21.58	21.68	21.65
		1852.5 (18625)	21.58	21.71	21.61
	12RB-Low (0)	1907.5 (19175)	21.59	21.65	21.74
		1880 (18900)	21.65	21.71	21.59
		1852.5 (18625)	21.60	21.74	21.83
	25RB (0)	1907.5 (19175)	21.56	21.51	21.41
		1880 (18900)	21.60	21.57	21.58
		1852.5 (18625)	21.54	21.62	21.52
10MHz	1RB-High (49)	1905 (19150)	21.52	21.65	21.59
		1880 (18900)	21.46	21.48	21.36
		1855 (18650)	21.50	21.87	21.88
	1RB-Middle (24)	1905 (19150)	21.53	21.48	21.48
		1880 (18900)	21.51	21.56	21.53
		1855 (18650)	21.46	21.86	21.82
	1RB-Low (0)	1905 (19150)	21.56	21.70	21.59
		1880 (18900)	21.55	21.49	21.43
		1855 (18650)	21.50	21.96	22.07
	25RB-High (25)	1905 (19150)	21.58	21.64	21.69
		1880 (18900)	21.56	21.60	21.60
		1855 (18650)	21.51	21.57	21.62
	25RB-Middle (12)	1905 (19150)	21.62	21.69	21.76
		1880 (18900)	21.62	21.66	21.75
		1855 (18650)	21.60	21.59	21.48
	25RB-Low (0)	1905 (19150)	21.63	21.69	21.64
		1880 (18900)	21.61	21.61	21.61
		1855 (18650)	21.57	21.58	21.67
	50RB (0)	1905 (19150)	21.59	21.58	21.48
		1880 (18900)	21.58	21.62	21.56
		1855 (18650)	21.57	21.56	21.65

15MHz	1RB-High (74)	1902.5 (19125)	21.34	21.73	21.71
		1880 (18900)	21.36	21.36	21.24
		1857.5 (18675)	21.51	21.73	21.68
	1RB-Middle (37)	1902.5 (19125)	21.35	21.63	21.55
		1880 (18900)	21.36	21.42	21.32
		1857.5 (18675)	21.45	21.69	21.74
	1RB-Low (0)	1902.5 (19125)	21.35	21.70	21.76
		1880 (18900)	21.37	21.39	21.47
		1857.5 (18675)	21.48	21.82	21.78
	36RB-High (38)	1902.5 (19125)	21.48	21.46	21.58
		1880 (18900)	21.51	21.51	21.51
		1857.5 (18675)	21.49	21.59	21.68
	36RB-Middle (19)	1902.5 (19125)	21.46	21.47	21.38
		1880 (18900)	21.49	21.48	21.39
		1857.5 (18675)	21.50	21.56	21.50
	36RB-Low (0)	1902.5 (19125)	21.43	21.40	21.40
		1880 (18900)	21.44	21.42	21.32
		1857.5 (18675)	21.48	21.55	21.44
	75RB (0)	1902.5 (19125)	21.40	21.38	21.35
		1880 (18900)	21.50	21.52	21.50
		1857.5 (18675)	21.49	21.49	21.54
20MHz	1RB-High (99)	1900 (19100)	21.31	21.60	21.59
		1880 (18900)	21.35	21.62	21.49
		1860 (18700)	21.38	21.67	21.55
	1RB-Middle (50)	1900 (19100)	21.30	21.61	21.48
		1880 (18900)	21.35	21.71	21.71
		1860 (18700)	21.23	21.74	21.76
	1RB-Low (0)	1900 (19100)	21.29	21.71	21.80
		1880 (18900)	21.32	21.64	21.75
		1860 (18700)	21.22	21.66	21.68
	50RB-High (50)	1900 (19100)	21.39	21.40	21.49
		1880 (18900)	21.43	21.47	21.50
		1860 (18700)	21.48	21.49	21.55
	50RB-Middle (25)	1900 (19100)	21.34	21.36	21.35
		1880 (18900)	21.48	21.51	21.46
		1860 (18700)	21.46	21.50	21.44
	50RB-Low (0)	1900 (19100)	21.36	21.35	21.36
		1880 (18900)	21.40	21.41	21.31
		1860 (18700)	21.47	21.44	21.56
	100RB (0)	1900 (19100)	21.36	21.34	21.42
		1880 (18900)	21.48	21.50	21.48
		1860 (18700)	21.43	21.47	21.52

Band2-ANT2-Power Level D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	17.98	18.40	18.40
		1880 (18900)	18.12	18.18	18.77
		1850.7 (18607)	18.05	18.21	18.64
	1RB-Middle (3)	1909.3 (19193)	17.96	18.51	18.52
		1880 (18900)	18.13	18.23	18.91
		1850.7 (18607)	17.90	18.25	18.71
	1RB-Low (0)	1909.3 (19193)	17.95	18.50	18.44
		1880 (18900)	18.11	18.24	18.87
		1850.7 (18607)	17.88	18.25	18.70
	3RB-High (3)	1909.3 (19193)	18.00	18.24	18.62
		1880 (18900)	18.13	18.35	18.68
		1850.7 (18607)	18.00	18.09	18.62
	3RB-Middle (1)	1909.3 (19193)	18.06	18.35	18.79
		1880 (18900)	18.21	18.42	18.74
		1850.7 (18607)	18.06	18.18	18.74
	3RB-Low (0)	1909.3 (19193)	18.03	18.32	18.74
		1880 (18900)	18.19	18.38	18.75
		1850.7 (18607)	18.02	18.17	18.72
	6RB (0)	1909.3 (19193)	18.08	18.02	18.62
		1880 (18900)	18.19	18.38	18.56
		1850.7 (18607)	18.10	18.21	18.49
3MHz	1RB-High (14)	1908.5 (19185)	17.98	18.09	18.75
		1880 (18900)	18.04	18.04	18.77
		1851.5 (18615)	17.99	18.44	18.78
	1RB-Middle (7)	1908.5 (19185)	18.01	18.21	18.74
		1880 (18900)	18.19	18.03	18.79
		1851.5 (18615)	18.12	18.41	18.78
	1RB-Low (0)	1908.5 (19185)	18.17	18.28	18.97
		1880 (18900)	18.26	18.17	18.91
		1851.5 (18615)	18.17	18.59	18.94
	8RB-High (7)	1908.5 (19185)	18.04	18.19	18.63
		1880 (18900)	18.16	18.30	18.51
		1851.5 (18615)	18.10	18.20	18.61
	8RB-Middle (4)	1908.5 (19185)	18.11	18.23	18.70
		1880 (18900)	18.27	18.38	18.74
		1851.5 (18615)	18.14	18.23	18.71
	8RB-Low (0)	1908.5 (19185)	18.12	18.27	18.80
		1880 (18900)	18.26	18.39	18.75
		1851.5 (18615)	18.19	18.25	18.78
	15RB (0)	1908.5 (19185)	18.08	18.15	18.62
		1880 (18900)	18.25	18.29	18.68
		1851.5 (18615)	18.16	18.19	18.67

5MHz	1RB-High (24)	1907.5 (19175)	17.93	18.21	18.86
		1880 (18900)	18.15	18.68	18.75
		1852.5 (18625)	18.00	18.19	18.79
	1RB-Middle (12)	1907.5 (19175)	18.04	18.20	18.72
		1880 (18900)	18.12	18.68	18.78
		1852.5 (18625)	18.01	18.08	18.82
	1RB-Low (0)	1907.5 (19175)	18.10	18.29	18.82
		1880 (18900)	18.20	18.73	18.80
		1852.5 (18625)	18.01	18.21	18.79
	12RB-High (13)	1907.5 (19175)	18.05	18.16	18.72
		1880 (18900)	18.15	18.32	18.74
		1852.5 (18625)	18.03	18.14	18.64
	12RB-Middle (6)	1907.5 (19175)	18.15	18.28	18.81
		1880 (18900)	18.21	18.36	18.80
		1852.5 (18625)	18.08	18.17	18.74
	12RB-Low (0)	1907.5 (19175)	18.22	18.26	18.79
		1880 (18900)	18.22	18.38	18.77
		1852.5 (18625)	18.13	18.22	18.76
	25RB (0)	1907.5 (19175)	18.12	18.16	8.53
		1880 (18900)	18.17	18.22	18.70
		1852.5 (18625)	18.04	18.03	18.63
10MHz	1RB-High (49)	1905 (19150)	18.06	18.06	18.77
		1880 (18900)	18.14	18.20	18.72
		1855 (18650)	18.02	18.47	18.42
	1RB-Middle (24)	1905 (19150)	18.04	18.16	18.81
		1880 (18900)	18.17	18.22	18.79
		1855 (18650)	18.04	18.47	18.84
	1RB-Low (0)	1905 (19150)	18.11	18.19	18.87
		1880 (18900)	17.99	18.06	18.92
		1855 (18650)	18.05	18.48	18.78
	25RB-High (25)	1905 (19150)	18.15	18.23	18.73
		1880 (18900)	18.22	18.22	18.68
		1855 (18650)	18.07	18.09	18.63
	25RB-Middle (12)	1905 (19150)	18.14	18.23	18.69
		1880 (18900)	18.22	18.27	18.83
		1855 (18650)	18.08	18.07	18.66
	25RB-Low (0)	1905 (19150)	18.18	18.25	18.78
		1880 (18900)	18.22	18.24	18.84
		1855 (18650)	18.13	18.16	18.69
	50RB (0)	1905 (19150)	18.15	18.18	18.70
		1880 (18900)	18.21	18.23	18.85
		1855 (18650)	17.98	18.10	18.60

15MHz	1RB-High (74)	1902.5 (19125)	17.93	18.18	18.58
		1880 (18900)	18.01	18.05	18.73
		1857.5 (18675)	18.06	18.37	18.44
	1RB-Middle (37)	1902.5 (19125)	17.97	18.29	18.58
		1880 (18900)	17.95	17.94	18.80
		1857.5 (18675)	18.01	18.34	18.59
	1RB-Low (0)	1902.5 (19125)	18.10	18.41	18.74
		1880 (18900)	17.99	17.94	18.84
		1857.5 (18675)	18.01	18.31	18.60
	36RB-High (38)	1902.5 (19125)	18.08	18.09	18.59
		1880 (18900)	18.14	18.16	18.52
		1857.5 (18675)	18.01	18.09	18.50
	36RB-Middle (19)	1902.5 (19125)	18.08	18.05	18.59
		1880 (18900)	18.11	18.13	18.66
		1857.5 (18675)	17.94	18.01	18.42
	36RB-Low (0)	1902.5 (19125)	18.11	18.12	18.56
		1880 (18900)	18.10	18.12	18.52
		1857.5 (18675)	18.05	18.10	18.60
	75RB (0)	1902.5 (19125)	18.06	18.07	18.54
		1880 (18900)	18.11	18.15	18.63
		1857.5 (18675)	17.93	17.97	18.49
20MHz	1RB-High (99)	1900 (19100)	18.43	18.73	18.65
		1880 (18900)	18.64	18.81	18.79
		1860 (18700)	18.53	18.76	18.67
	1RB-Middle (50)	1900 (19100)	18.55	18.93	18.70
		1880 (18900)	18.52	18.70	18.56
		1860 (18700)	18.43	18.83	18.64
	1RB-Low (0)	1900 (19100)	18.59	18.98	18.71
		1880 (18900)	18.47	18.66	18.65
		1860 (18700)	18.41	18.78	18.56
	50RB-High (50)	1900 (19100)	18.63	18.40	18.62
		1880 (18900)	18.68	18.42	18.50
		1860 (18700)	18.54	18.33	18.57
	50RB-Middle (25)	1900 (19100)	18.70	18.47	18.65
		1880 (18900)	18.67	18.45	18.57
		1860 (18700)	18.50	18.29	18.47
	50RB-Low (0)	1900 (19100)	18.66	18.45	18.58
		1880 (18900)	18.62	18.38	18.57
		1860 (18700)	18.54	18.39	18.52
	100RB (0)	1900 (19100)	18.56	18.36	18.56
		1880 (18900)	18.67	18.44	18.27
		1860 (18700)	18.46	18.27	18.36

Band4-ANT3-Power Level D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1754.3 (20393)	19.34	19.45	19.39
		1732.5 (20175)	19.39	19.59	19.52
		1710.7 (19957)	19.29	19.69	19.69
	1RB-Middle (3)	1754.3 (20393)	19.39	19.50	19.53
		1732.5 (20175)	19.47	19.65	19.60
		1710.7 (19957)	19.35	19.77	19.77
	1RB-Low (0)	1754.3 (20393)	19.34	19.46	19.50
		1732.5 (20175)	19.41	19.55	19.50
		1710.7 (19957)	19.31	19.74	19.75
	3RB-High (3)	1754.3 (20393)	19.34	19.63	19.62
		1732.5 (20175)	19.40	19.49	19.52
		1710.7 (19957)	19.30	19.51	19.54
	3RB-Middle (1)	1754.3 (20393)	19.42	19.64	19.59
		1732.5 (20175)	19.39	19.53	19.43
		1710.7 (19957)	19.32	19.60	19.65
	3RB-Low (0)	1754.3 (20393)	19.34	19.62	19.61
		1732.5 (20175)	19.34	19.51	19.42
		1710.7 (19957)	19.29	19.55	19.62
	6RB (0)	1754.3 (20393)	19.45	19.63	19.68
		1732.5 (20175)	19.45	19.59	19.71
		1710.7 (19957)	19.36	19.26	19.19
3MHz	1RB-High (14)	1753.5 (20385)	19.41	19.50	19.41
		1732.5 (20175)	19.42	19.37	19.48
		1711.5 (19965)	19.39	19.78	19.90
	1RB-Middle (7)	1753.5 (20385)	19.36	19.50	19.44
		1732.5 (20175)	19.40	19.32	19.31
		1711.5 (19965)	19.39	19.74	19.68
	1RB-Low (0)	1753.5 (20385)	19.42	19.56	19.65
		1732.5 (20175)	19.35	19.34	19.21
		1711.5 (19965)	19.39	19.77	19.89
	8RB-High (7)	1753.5 (20385)	19.51	19.55	19.49
		1732.5 (20175)	19.51	19.58	19.45
		1711.5 (19965)	19.40	19.51	19.54
	8RB-Middle (4)	1753.5 (20385)	19.52	19.58	19.50
		1732.5 (20175)	19.54	19.63	19.54
		1711.5 (19965)	19.47	19.51	19.57
	8RB-Low (0)	1753.5 (20385)	19.54	19.54	19.48
		1732.5 (20175)	19.42	19.54	19.48
		1711.5 (19965)	19.43	19.48	19.36
	15RB (0)	1753.5 (20385)	19.51	19.48	19.48
		1732.5 (20175)	19.47	19.46	19.58
		1711.5 (19965)	19.45	19.46	19.52

5MHz	1RB-High (24)	1752.5 (20375)	19.50	19.75	19.79
		1732.5 (20175)	19.59	19.68	19.63
		1712.5 (19975)	19.41	19.96	19.85
	1RB-Middle (12)	1752.5 (20375)	19.57	19.62	19.65
		1732.5 (20175)	19.47	19.65	19.60
		1712.5 (19975)	19.41	19.89	19.88
	1RB-Low (0)	1752.5 (20375)	19.48	19.63	19.63
		1732.5 (20175)	19.52	19.62	19.52
		1712.5 (19975)	19.43	19.96	19.83
	12RB-High (13)	1752.5 (20375)	19.52	19.61	19.54
		1732.5 (20175)	19.51	19.58	19.57
		1712.5 (19975)	19.46	19.49	19.54
	12RB-Middle (6)	1752.5 (20375)	19.58	19.63	19.54
		1732.5 (20175)	19.49	19.54	19.41
		1712.5 (19975)	19.46	19.53	19.63
	12RB-Low (0)	1752.5 (20375)	19.53	19.62	19.53
		1732.5 (20175)	19.46	19.56	19.51
		1712.5 (19975)	19.44	19.51	19.58
	25RB (0)	1752.5 (20375)	19.53	19.50	19.53
		1732.5 (20175)	19.48	19.50	19.36
		1712.5 (19975)	19.46	19.44	19.47
10MHz	1RB-High (49)	1750 (20350)	19.39	19.37	19.37
		1732.5 (20175)	19.37	19.50	19.44
		1715 (20000)	19.32	19.76	19.67
	1RB-Middle (24)	1750 (20350)	19.36	19.43	19.37
		1732.5 (20175)	19.35	19.50	19.41
		1715 (20000)	19.33	19.77	19.71
	1RB-Low (0)	1750 (20350)	19.36	19.57	19.56
		1732.5 (20175)	19.28	19.41	19.41
		1715 (20000)	19.35	19.83	19.86
	25RB-High (25)	1750 (20350)	19.51	19.64	19.56
		1732.5 (20175)	19.56	19.62	19.72
		1715 (20000)	19.47	19.51	19.55
	25RB-Middle (12)	1750 (20350)	19.54	19.64	19.71
		1732.5 (20175)	19.49	19.54	19.49
		1715 (20000)	19.50	19.49	19.37
	25RB-Low (0)	1750 (20350)	19.52	19.61	19.56
		1732.5 (20175)	19.46	19.48	19.60
		1715 (20000)	19.44	19.46	19.48
	50RB (0)	1750 (20350)	19.50	19.57	19.69
		1732.5 (20175)	19.48	19.49	19.46
		1715 (20000)	19.47	19.49	19.40

Band4-ANT2-Power Level D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1754.3 (20393)	18.87	18.98	19.34
		1732.5 (20175)	18.97	19.16	19.47
		1710.7 (19957)	18.98	19.43	19.45
	1RB-Middle (3)	1754.3 (20393)	18.89	18.98	19.51
		1732.5 (20175)	19.05	19.22	19.40
		1710.7 (19957)	19.05	19.46	19.42
	1RB-Low (0)	1754.3 (20393)	18.88	18.94	19.34
		1732.5 (20175)	19.02	19.16	19.26
		1710.7 (19957)	18.96	19.44	19.35
	3RB-High (3)	1754.3 (20393)	18.87	19.14	19.35
		1732.5 (20175)	18.96	19.07	19.34
		1710.7 (19957)	18.97	19.19	19.52
	3RB-Middle (1)	1754.3 (20393)	18.90	19.17	19.37
		1732.5 (20175)	18.98	19.10	19.35
		1710.7 (19957)	19.01	19.26	19.54
	3RB-Low (0)	1754.3 (20393)	18.84	19.13	19.33
		1732.5 (20175)	18.94	19.05	19.40
		1710.7 (19957)	18.98	19.22	19.48
	6RB (0)	1754.3 (20393)	18.94	19.14	18.61
		1732.5 (20175)	19.02	19.18	18.91
		1710.7 (19957)	19.03	18.97	19.34
3MHz	1RB-High (14)	1753.5 (20385)	18.90	18.99	19.48
		1732.5 (20175)	19.04	19.00	19.48
		1711.5 (19965)	19.03	19.50	19.62
	1RB-Middle (7)	1753.5 (20385)	18.89	19.02	19.44
		1732.5 (20175)	19.00	19.01	19.51
		1711.5 (19965)	19.00	19.42	19.48
	1RB-Low (0)	1753.5 (20385)	18.96	19.04	19.61
		1732.5 (20175)	18.94	18.97	19.40
		1711.5 (19965)	19.09	19.49	19.54
	8RB-High (7)	1753.5 (20385)	19.00	19.06	19.31
		1732.5 (20175)	19.08	19.23	19.53
		1711.5 (19965)	19.10	19.17	19.38
	8RB-Middle (4)	1753.5 (20385)	19.02	19.10	19.33
		1732.5 (20175)	19.11	19.27	19.42
		1711.5 (19965)	19.11	19.22	19.42
	8RB-Low (0)	1753.5 (20385)	19.03	19.09	19.34
		1732.5 (20175)	19.01	19.19	19.37
		1711.5 (19965)	19.08	19.19	19.37
	15RB (0)	1753.5 (20385)	19.02	19.02	19.37
		1732.5 (20175)	19.04	19.12	19.29
		1711.5 (19965)	19.10	19.19	19.37

15MHz	1RB-High (74)	1747.5 (20325)	19.30	19.54	19.55
		1732.5 (20175)	19.24	19.27	19.15
		1717.5 (20025)	19.23	19.63	19.65
	1RB-Middle (37)	1747.5 (20325)	19.28	19.65	19.63
		1732.5 (20175)	19.28	19.26	19.16
		1717.5 (20025)	19.20	19.63	19.58
	1RB-Low (0)	1747.5 (20325)	19.31	19.66	19.55
		1732.5 (20175)	19.22	19.22	19.26
		1717.5 (20025)	19.23	19.60	19.54
	36RB-High (38)	1747.5 (20325)	19.38	19.39	19.29
		1732.5 (20175)	19.36	19.42	19.34
		1717.5 (20025)	19.32	19.41	19.50
	36RB-Middle (19)	1747.5 (20325)	19.40	19.39	19.36
		1732.5 (20175)	19.30	19.36	19.23
		1717.5 (20025)	19.32	19.41	19.46
	36RB-Low (0)	1747.5 (20325)	19.34	19.38	19.43
		1732.5 (20175)	19.27	19.31	19.33
		1717.5 (20025)	19.32	19.36	19.25
	75RB (0)	1747.5 (20325)	19.31	19.38	19.27
		1732.5 (20175)	19.26	19.29	19.27
		1717.5 (20025)	19.27	19.34	19.37
20MHz	1RB-High (99)	1745 (20300)	19.32	19.63	19.54
		1732.5 (20175)	19.27	19.64	19.63
		1720 (20050)	19.34	19.38	19.38
	1RB-Middle (50)	1745 (20300)	19.19	19.66	19.62
		1732.5 (20175)	19.25	19.52	19.53
		1720 (20050)	19.21	19.35	19.32
	1RB-Low (0)	1745 (20300)	19.33	19.59	19.64
		1732.5 (20175)	19.22	19.47	19.45
		1720 (20050)	19.24	19.36	19.26
	50RB-High (50)	1745 (20300)	19.39	19.44	19.45
		1732.5 (20175)	19.39	19.45	19.47
		1720 (20050)	19.37	19.35	19.29
	50RB-Middle (25)	1745 (20300)	19.39	19.43	19.48
		1732.5 (20175)	19.31	19.37	19.28
		1720 (20050)	19.40	19.37	19.45
	50RB-Low (0)	1745 (20300)	19.39	19.43	19.38
		1732.5 (20175)	19.31	19.37	19.37
		1720 (20050)	19.27	19.26	19.23
	100RB (0)	1745 (20300)	19.37	19.43	19.50
		1732.5 (20175)	19.30	19.32	19.36
		1720 (20050)	19.35	19.38	19.36

5MHz	1RB-High (24)	1752.5 (20375)	18.82	19.14	19.51
		1732.5 (20175)	19.16	19.28	19.50
		1712.5 (19975)	19.16	19.62	19.52
	1RB-Middle (12)	1752.5 (20375)	18.99	19.11	19.51
		1732.5 (20175)	19.21	19.23	19.49
		1712.5 (19975)	19.09	19.57	19.56
	1RB-Low (0)	1752.5 (20375)	19.01	19.21	19.56
		1732.5 (20175)	19.14	19.22	19.61
		1712.5 (19975)	19.08	19.67	19.57
	12RB-High (13)	1752.5 (20375)	19.08	19.13	19.36
		1732.5 (20175)	19.12	19.20	19.43
		1712.5 (19975)	19.11	19.25	19.40
	12RB-Middle (6)	1752.5 (20375)	19.08	19.12	19.40
		1732.5 (20175)	19.12	19.24	19.41
		1712.5 (19975)	19.11	19.28	19.42
	12RB-Low (0)	1752.5 (20375)	19.09	19.13	19.38
		1732.5 (20175)	19.04	19.18	19.34
		1712.5 (19975)	19.12	19.28	19.43
	25RB (0)	1752.5 (20375)	19.05	19.01	19.19
		1732.5 (20175)	19.08	19.09	19.36
		1712.5 (19975)	19.12	19.19	19.43
10MHz	1RB-High (49)	1750 (20350)	18.90	19.09	19.42
		1732.5 (20175)	18.91	19.05	19.55
		1715 (20000)	19.00	19.63	19.45
	1RB-Middle (24)	1750 (20350)	18.95	18.92	19.50
		1732.5 (20175)	18.99	19.04	19.48
		1715 (20000)	19.03	19.46	19.41
	1RB-Low (0)	1750 (20350)	18.92	19.08	19.55
		1732.5 (20175)	18.92	19.15	19.34
		1715 (20000)	19.06	19.32	19.58
	25RB-High (25)	1750 (20350)	19.06	19.16	19.36
		1732.5 (20175)	19.14	19.15	19.42
		1715 (20000)	19.14	19.16	19.41
	25RB-Middle (12)	1750 (20350)	19.08	19.21	19.39
		1732.5 (20175)	19.08	19.10	19.32
		1715 (20000)	19.13	19.14	19.41
	25RB-Low (0)	1750 (20350)	19.07	19.16	19.47
		1732.5 (20175)	19.05	19.08	19.40
		1715 (20000)	19.12	19.15	19.39
	50RB (0)	1750 (20350)	19.02	19.10	19.15
		1732.5 (20175)	19.03	19.10	19.14
		1715 (20000)	19.13	19.10	19.48

15MHz	1RB-High (74)	1747.5 (20325)	18.81	19.25	19.31
		1732.5 (20175)	18.92	19.23	19.38
		1717.5 (20025)	18.84	18.90	19.26
	1RB-Middle (37)	1747.5 (20325)	18.84	19.22	19.23
		1732.5 (20175)	18.92	19.25	19.21
		1717.5 (20025)	18.85	18.96	19.25
	1RB-Low (0)	1747.5 (20325)	18.90	19.25	19.35
		1732.5 (20175)	18.95	19.31	19.26
		1717.5 (20025)	18.84	18.97	19.28
	36RB-High (38)	1747.5 (20325)	18.88	19.00	19.22
		1732.5 (20175)	19.00	18.96	19.25
		1717.5 (20025)	18.97	18.98	18.69
	36RB-Middle (19)	1747.5 (20325)	18.93	19.04	19.17
		1732.5 (20175)	18.95	18.93	19.15
		1717.5 (20025)	18.99	19.01	19.18
	36RB-Low (0)	1747.5 (20325)	18.94	19.00	19.11
		1732.5 (20175)	18.91	18.90	19.19
		1717.5 (20025)	18.98	18.94	19.09
	75RB (0)	1747.5 (20325)	18.91	18.94	19.11
		1732.5 (20175)	18.88	18.89	19.18
		1717.5 (20025)	18.95	18.97	19.20
20MHz	1RB-High (99)	1745 (20300)	18.86	19.28	19.38
		1732.5 (20175)	18.83	19.06	19.29
		1720 (20050)	18.93	19.08	19.36
	1RB-Middle (50)	1745 (20300)	18.83	19.22	19.21
		1732.5 (20175)	18.87	19.09	19.28
		1720 (20050)	18.92	19.11	19.28
	1RB-Low (0)	1745 (20300)	18.88	19.25	19.31
		1732.5 (20175)	18.85	19.34	19.24
		1720 (20050)	18.89	19.07	19.21
	50RB-High (50)	1745 (20300)	18.96	19.01	19.10
		1732.5 (20175)	19.00	19.05	19.25
		1720 (20050)	18.98	18.96	19.16
	50RB-Middle (25)	1745 (20300)	19.01	18.99	19.29
		1732.5 (20175)	18.95	18.96	19.20
		1720 (20050)	18.99	18.99	19.22
	50RB-Low (0)	1745 (20300)	19.00	18.99	19.24
		1732.5 (20175)	18.93	18.94	19.14
		1720 (20050)	18.91	18.87	19.10
	100RB (0)	1745 (20300)	18.98	18.99	19.15
		1732.5 (20175)	18.92	18.92	19.15
		1720 (20050)	18.98	18.95	19.42

Band7-Power Level D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2567.5 (21425)	18.13	18.30	18.40
		2535 (21100)	18.13	18.25	18.17
		2502.5 (20775)	18.09	18.63	18.75
	1RB-Middle (12)	2567.5 (21425)	18.00	18.16	18.12
		2535 (21100)	18.16	18.17	18.12
		2502.5 (20775)	18.07	18.59	18.46
	1RB-Low (0)	2567.5 (21425)	18.03	18.19	18.13
		2535 (21100)	18.10	18.25	18.12
		2502.5 (20775)	17.97	18.52	18.42
	12RB-High (13)	2567.5 (21425)	18.17	18.23	18.12
		2535 (21100)	18.13	18.22	18.09
		2502.5 (20775)	18.15	18.23	18.14
	12RB-Middle (6)	2567.5 (21425)	18.16	18.17	18.14
		2535 (21100)	18.10	18.13	18.10
		2502.5 (20775)	18.13	18.18	18.12
	12RB-Low (0)	2567.5 (21425)	18.09	18.12	18.00
		2535 (21100)	18.07	18.13	18.01
		2502.5 (20775)	18.04	18.12	18.08
	25RB (0)	2567.5 (21425)	18.12	18.07	18.02
		2535 (21100)	18.12	18.11	18.14
		2502.5 (20775)	18.11	18.12	18.19
10MHz	1RB-High (49)	2565 (21400)	17.93	18.21	18.11
		2535 (21100)	18.02	18.14	18.23
		2505 (20800)	18.04	18.53	18.45
	1RB-Middle (24)	2565 (21400)	17.97	18.03	18.08
		2535 (21100)	17.93	18.07	18.03
		2505 (20800)	17.96	18.40	18.32
	1RB-Low (0)	2565 (21400)	17.98	17.98	17.91
		2535 (21100)	17.84	18.09	18.04
		2505 (20800)	18.03	18.38	18.34
	25RB-High (25)	2565 (21400)	18.09	18.22	18.21
		2535 (21100)	18.06	18.11	18.15
		2505 (20800)	17.99	18.06	18.08
	25RB-Middle (12)	2565 (21400)	18.09	18.23	18.29
		2535 (21100)	18.06	18.15	18.07
		2505 (20800)	17.99	18.07	17.99
	25RB-Low (0)	2565 (21400)	18.03	18.18	18.22
		2535 (21100)	18.09	18.16	18.20
		2505 (20800)	18.06	18.13	18.18
	50RB (0)	2565 (21400)	18.08	18.15	18.11
		2535 (21100)	18.08	18.13	18.20
		2505 (20800)	18.01	18.03	17.98

15MHz	1RB-High (74)	2562.5 (21375)	17.93	18.20	18.24
		2535 (21100)	17.97	18.27	18.22
		2507.5 (20825)	17.86	17.86	17.92
	1RB-Middle (37)	2562.5 (21375)	17.88	18.11	18.10
		2535 (21100)	17.93	18.18	18.27
		2507.5 (20825)	17.80	17.78	17.79
	1RB-Low (0)	2562.5 (21375)	17.84	18.12	18.09
		2535 (21100)	17.89	18.19	18.18
		2507.5 (20825)	17.68	17.80	17.76
	36RB-High (38)	2562.5 (21375)	17.91	17.93	17.82
		2535 (21100)	17.97	17.94	17.87
		2507.5 (20825)	17.78	17.90	17.98
	36RB-Middle (19)	2562.5 (21375)	17.98	18.00	18.08
		2535 (21100)	18.00	17.89	17.95
		2507.5 (20825)	17.72	17.85	17.88
	36RB-Low (0)	2562.5 (21375)	18.00	17.99	18.08
		2535 (21100)	18.03	17.92	17.92
		2507.5 (20825)	17.78	17.92	18.02
	75RB (0)	2562.5 (21375)	17.99	17.98	18.01
		2535 (21100)	17.91	17.94	18.01
		2507.5 (20825)	17.79	17.86	17.89
20MHz	1RB-High (99)	2560 (21350)	18.44	18.81	18.69
		2535 (21100)	18.50	18.71	18.79
		2510 (20850)	18.45	18.88	18.88
	1RB-Middle (50)	2560 (21350)	18.42	18.74	18.64
		2535 (21100)	18.51	18.62	18.65
		2510 (20850)	18.44	18.78	18.88
	1RB-Low (0)	2560 (21350)	18.33	18.70	18.63
		2535 (21100)	18.37	18.53	18.53
		2510 (20850)	18.31	18.66	18.54
	50RB-High (50)	2560 (21350)	18.55	18.58	18.67
		2535 (21100)	18.60	18.60	18.49
		2510 (20850)	18.51	18.54	18.43
	50RB-Middle (25)	2560 (21350)	18.63	18.68	18.76
		2535 (21100)	18.59	18.58	18.60
		2510 (20850)	18.59	18.63	18.57
	50RB-Low (0)	2560 (21350)	18.57	18.61	18.57
		2535 (21100)	18.59	18.61	18.64
		2510 (20850)	18.53	18.58	18.68
	100RB (0)	2560 (21350)	18.59	18.64	18.62
		2535 (21100)	18.58	18.65	18.76
		2510 (20850)	18.53	18.58	18.53

Band30-Power Level D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2312.5 (27735)	21.75	22.07	21.99
		2310 (27710)	21.74	22.04	21.96
		2307.5 (27685)	21.90	22.12	22.22
	1RB-Middle (12)	2312.5 (27735)	21.83	22.12	22.20
		2310 (27710)	21.81	22.19	22.29
		2307.5 (27685)	21.82	22.15	22.03
	1RB-Low (0)	2312.5 (27735)	21.83	22.15	22.10
		2310 (27710)	21.80	22.16	22.24
		2307.5 (27685)	21.80	22.15	22.16
	12RB-High (13)	2312.5 (27735)	21.80	20.90	20.78
		2310 (27710)	21.84	20.96	21.05
		2307.5 (27685)	21.88	21.06	21.10
	12RB-Middle (6)	2312.5 (27735)	21.90	20.99	21.00
		2310 (27710)	21.88	21.01	21.01
		2307.5 (27685)	21.96	21.09	20.96
	12RB-Low (0)	2312.5 (27735)	21.87	20.98	20.95
		2310 (27710)	21.83	20.98	21.04
		2307.5 (27685)	21.88	21.09	21.18
	25RB (0)	2312.5 (27735)	21.88	20.89	20.98
		2310 (27710)	21.83	20.93	21.00
		2307.5 (27685)	21.90	20.99	20.92
10MHz	1RB-High (49)	2310 (27710)	21.85	21.83	21.71
	1RB-Middle (24)	2310 (27710)	21.80	21.92	22.03
	1RB-Low (0)	2310 (27710)	21.91	21.66	21.73
	25RB-High (25)	2310 (27710)	21.76	20.84	20.79
	25RB-Middle (12)	2310 (27710)	21.81	20.86	20.92
	25RB-Low (0)	2310 (27710)	21.79	20.78	20.90
	50RB (0)	2310 (27710)	21.74	20.77	20.71

Band66-ANT3-Power Level D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	20.42	20.45	20.33
		1745 (132322)	20.41	20.60	20.58
		1710.7 (131979)	20.30	20.66	20.61
	1RB-Middle (3)	1779.3 (132665)	20.49	20.51	20.40
		1745 (132322)	20.45	20.63	20.69
		1710.7 (131979)	20.36	20.74	20.67
	1RB-Low (0)	1779.3 (132665)	20.44	20.45	20.39
		1745 (132322)	20.37	20.55	20.43
		1710.7 (131979)	20.29	20.71	20.80
	3RB-High (3)	1779.3 (132665)	20.41	20.64	20.73
		1745 (132322)	20.36	20.46	20.33
		1710.7 (131979)	20.29	20.53	20.45
	3RB-Middle (1)	1779.3 (132665)	20.45	20.68	20.72
		1745 (132322)	20.40	20.51	20.38
		1710.7 (131979)	20.32	20.59	20.60
	3RB-Low (0)	1779.3 (132665)	20.39	20.64	20.57
		1745 (132322)	20.35	20.49	20.38
		1710.7 (131979)	20.29	20.53	20.64
	6RB (0)	1779.3 (132665)	20.47	20.62	20.54
		1745 (132322)	20.43	20.56	20.55
		1710.7 (131979)	20.31	20.26	20.35
3MHz	1RB-High (14)	1778.5 (132657)	20.45	20.34	20.22
		1745 (132322)	20.45	20.86	20.79
		1711.5 (131987)	20.34	20.46	20.38
	1RB-Middle (7)	1778.5 (132657)	20.44	20.30	20.39
		1745 (132322)	20.47	20.74	20.72
		1711.5 (131987)	20.29	20.42	20.30
	1RB-Low (0)	1778.5 (132657)	20.45	20.40	20.36
		1745 (132322)	20.46	20.85	20.83
		1711.5 (131987)	20.35	20.48	20.51
	8RB-High (7)	1778.5 (132657)	20.52	20.60	20.50
		1745 (132322)	20.47	20.56	20.65
		1711.5 (131987)	20.40	20.45	20.55
	8RB-Middle (4)	1778.5 (132657)	20.57	20.62	20.72
		1745 (132322)	20.52	20.57	20.60
		1711.5 (131987)	20.47	20.53	20.48
	8RB-Low (0)	1778.5 (132657)	20.53	20.62	20.71
		1745 (132322)	20.53	20.56	20.47
		1711.5 (131987)	20.41	20.47	20.52
	15RB (0)	1778.5 (132657)	20.56	20.56	20.44
		1745 (132322)	20.52	20.54	20.64
		1711.5 (131987)	20.45	20.42	20.38

5MHz	1RB-High (24)	1777.5 (132647)	20.54	20.70	20.62
		1745 (132322)	20.50	21.02	20.97
		1712.5 (131997)	20.42	20.59	20.59
	1RB-Middle (12)	1777.5 (132647)	20.77	20.58	20.60
		1745 (132322)	20.48	20.95	20.99
		1712.5 (131997)	20.37	20.53	20.47
	1RB-Low (0)	1777.5 (132647)	20.52	20.66	20.69
		1745 (132322)	20.41	20.94	20.89
		1712.5 (131997)	20.44	20.59	20.68
	12RB-High (13)	1777.5 (132647)	20.51	20.59	20.67
		1745 (132322)	20.48	20.65	20.66
		1712.5 (131997)	20.45	20.53	20.48
	12RB-Middle (6)	1777.5 (132647)	20.51	20.61	20.49
		1745 (132322)	20.51	20.67	20.67
		1712.5 (131997)	20.46	20.52	20.64
	12RB-Low (0)	1777.5 (132647)	20.50	20.61	20.62
		1745 (132322)	20.46	20.59	20.46
		1712.5 (131997)	20.43	20.49	20.54
	25RB (0)	1777.5 (132647)	20.52	20.58	20.53
		1745 (132322)	20.47	20.51	20.62
		1712.5 (131997)	20.45	20.42	20.36
10MHz	1RB-High (49)	1775 (132622)	20.40	20.52	20.49
		1745 (132322)	20.43	20.93	20.87
		1715 (132022)	20.29	20.37	20.39
	1RB-Middle (24)	1775 (132622)	20.31	20.42	20.49
		1745 (132322)	20.38	20.83	20.81
		1715 (132022)	20.32	20.34	20.42
	1RB-Low (0)	1775 (132622)	20.32	20.58	20.63
		1745 (132322)	20.38	20.68	20.71
		1715 (132022)	20.39	20.34	20.25
	25RB-High (25)	1775 (132622)	20.56	20.57	20.63
		1745 (132322)	20.49	20.55	20.46
		1715 (132022)	20.46	20.52	20.38
	25RB-Middle (12)	1775 (132622)	20.58	20.63	20.64
		1745 (132322)	20.44	20.47	20.50
		1715 (132022)	20.47	20.56	20.61
	25RB-Low (0)	1775 (132622)	20.55	20.58	20.63
		1745 (132322)	20.42	20.45	20.54
		1715 (132022)	20.44	20.54	20.53
	50RB (0)	1775 (132622)	20.58	20.55	20.67
		1745 (132322)	20.48	20.49	20.52
		1715 (132022)	20.46	20.50	20.44

15MHz	1RB-High (74)	1772.5 (132597)	20.32	20.35	20.25
		1745 (132322)	20.35	20.73	20.85
		1717.5 (132047)	20.29	20.62	20.51
	1RB-Middle (37)	1772.5 (132597)	20.38	20.39	20.41
		1745 (132322)	20.37	20.73	20.63
		1717.5 (132047)	20.31	20.68	20.58
	1RB-Low (0)	1772.5 (132597)	20.31	20.34	20.36
		1745 (132322)	20.25	20.66	20.73
		1717.5 (132047)	20.24	20.57	20.48
	36RB-High (38)	1772.5 (132597)	20.44	20.48	20.35
		1745 (132322)	20.39	20.48	20.48
		1717.5 (132047)	20.35	20.35	20.41
	36RB-Middle (19)	1772.5 (132597)	20.39	20.42	20.34
		1745 (132322)	20.35	20.42	20.42
		1717.5 (132047)	20.37	20.37	20.29
	36RB-Low (0)	1772.5 (132597)	20.35	20.39	20.28
		1745 (132322)	20.32	20.40	20.34
		1717.5 (132047)	20.33	20.32	20.23
	75RB (0)	1772.5 (132597)	20.35	20.39	20.35
		1745 (132322)	20.32	20.32	20.27
		1717.5 (132047)	20.30	20.34	20.37
20MHz	1RB-High (99)	1770 (132572)	20.36	20.59	20.51
		1745 (132322)	20.33	20.71	20.59
		1720 (132072)	20.19	20.68	20.70
	1RB-Middle (50)	1770 (132572)	20.30	20.61	20.65
		1745 (132322)	20.31	20.81	20.75
		1720 (132072)	20.14	20.59	20.49
	1RB-Low (0)	1770 (132572)	20.28	20.54	20.45
		1745 (132322)	20.22	20.68	20.64
		1720 (132072)	20.11	20.59	20.70
	50RB-High (50)	1770 (132572)	20.43	20.44	20.53
		1745 (132322)	20.42	20.49	20.46
		1720 (132072)	20.38	20.41	20.53
	50RB-Middle (25)	1770 (132572)	20.37	20.38	20.28
		1745 (132322)	20.37	20.42	20.41
		1720 (132072)	20.38	20.39	20.28
	50RB-Low (0)	1770 (132572)	20.35	20.37	20.44
		1745 (132322)	20.33	20.38	20.50
		1720 (132072)	20.24	20.29	20.17
	100RB (0)	1770 (132572)	20.38	20.43	20.38
		1745 (132322)	20.36	20.40	20.50
		1720 (132072)	20.37	20.38	20.31

Band66-ANT2-Power Level D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	18.89	19.12	19.63
		1745 (132322)	18.91	19.30	19.53
		1710.7 (131979)	18.89	19.00	19.58
	1RB-Middle (3)	1779.3 (132665)	18.96	19.15	19.75
		1745 (132322)	18.96	19.41	19.64
		1710.7 (131979)	18.93	19.06	19.56
	1RB-Low (0)	1779.3 (132665)	18.93	19.09	19.69
		1745 (132322)	18.89	19.30	19.61
		1710.7 (131979)	18.88	18.99	19.69
	3RB-High (3)	1779.3 (132665)	18.85	19.02	19.58
		1745 (132322)	18.89	19.13	18.94
		1710.7 (131979)	18.88	19.18	19.56
	3RB-Middle (1)	1779.3 (132665)	18.89	19.01	19.59
		1745 (132322)	18.93	19.18	19.58
		1710.7 (131979)	18.94	19.20	19.63
	3RB-Low (0)	1779.3 (132665)	18.89	18.98	19.58
		1745 (132322)	18.89	19.14	19.55
		1710.7 (131979)	18.88	19.15	19.51
	6RB (0)	1779.3 (132665)	18.96	19.06	18.87
		1745 (132322)	18.96	18.86	19.34
		1710.7 (131979)	18.98	19.15	19.45
3MHz	1RB-High (14)	1778.5 (132657)	18.92	18.86	19.77
		1745 (132322)	18.99	19.41	19.55
		1711.5 (131987)	18.94	19.07	19.77
	1RB-Middle (7)	1778.5 (132657)	18.89	18.86	19.61
		1745 (132322)	19.04	19.36	19.55
		1711.5 (131987)	18.95	19.02	19.70
	1RB-Low (0)	1778.5 (132657)	18.89	18.92	19.71
		1745 (132322)	19.01	19.45	19.72
		1711.5 (131987)	18.98	19.12	19.74
	8RB-High (7)	1778.5 (132657)	18.99	19.16	19.57
		1745 (132322)	19.02	19.06	19.56
		1711.5 (131987)	19.08	19.12	19.58
	8RB-Middle (4)	1778.5 (132657)	19.06	19.19	19.59
		1745 (132322)	19.04	19.15	19.59
		1711.5 (131987)	19.06	19.10	19.56
	8RB-Low (0)	1778.5 (132657)	19.04	19.18	19.57
		1745 (132322)	19.02	19.14	19.59
		1711.5 (131987)	19.08	19.12	19.53
	15RB (0)	1778.5 (132657)	19.03	19.10	19.57
		1745 (132322)	19.00	19.11	19.60
		1711.5 (131987)	19.05	19.05	18.94

5MHz	1RB-High (24)	1777.5 (132647)	19.02	19.14	19.77
		1745 (132322)	19.08	19.19	19.67
		1712.5 (131997)	19.03	19.57	19.72
	1RB-Middle (12)	1777.5 (132647)	18.97	18.99	19.43
		1745 (132322)	19.12	19.11	19.70
		1712.5 (131997)	19.04	19.54	19.62
	1RB-Low (0)	1777.5 (132647)	19.01	19.15	19.67
		1745 (132322)	19.04	19.10	19.63
		1712.5 (131997)	19.04	19.59	19.77
	12RB-High (13)	1777.5 (132647)	19.04	19.08	19.63
		1745 (132322)	19.01	19.12	19.64
		1712.5 (131997)	19.05	19.15	19.59
	12RB-Middle (6)	1777.5 (132647)	19.05	19.11	19.62
		1745 (132322)	19.05	19.10	19.61
		1712.5 (131997)	19.07	19.21	19.61
	12RB-Low (0)	1777.5 (132647)	19.03	19.10	19.58
		1745 (132322)	18.95	19.04	19.59
		1712.5 (131997)	19.06	19.17	19.62
	25RB (0)	1777.5 (132647)	19.03	18.99	19.51
		1745 (132322)	18.99	18.99	19.47
		1712.5 (131997)	19.07	19.13	19.62
10MHz	1RB-High (49)	1775 (132622)	18.86	18.96	19.64
		1745 (132322)	18.97	19.44	19.66
		1715 (132022)	19.01	19.04	19.51
	1RB-Middle (24)	1775 (132622)	18.86	18.91	19.65
		1745 (132322)	19.01	19.36	19.64
		1715 (132022)	18.97	19.01	19.61
	1RB-Low (0)	1775 (132622)	18.80	19.03	19.66
		1745 (132322)	18.96	19.27	19.55
		1715 (132022)	18.98	18.99	19.58
	25RB-High (25)	1775 (132622)	19.05	19.05	19.60
		1745 (132322)	19.06	19.10	19.56
		1715 (132022)	19.05	19.17	19.53
	25RB-Middle (12)	1775 (132622)	19.04	19.10	19.59
		1745 (132322)	19.01	19.01	19.51
		1715 (132022)	19.09	19.17	19.55
	25RB-Low (0)	1775 (132622)	18.96	18.96	19.52
		1745 (132322)	18.97	19.02	19.52
		1715 (132022)	19.08	19.17	19.61
	50RB (0)	1775 (132622)	18.98	18.96	19.51
		1745 (132322)	18.98	19.02	19.52
		1715 (132022)	19.05	19.08	19.51

15MHz	1RB-High (74)	1772.5 (132597)	18.81	18.81	19.61
		1745 (132322)	18.82	19.27	19.64
		1717.5 (132047)	18.83	19.28	19.51
	1RB-Middle (37)	1772.5 (132597)	18.77	18.75	19.44
		1745 (132322)	18.90	19.23	19.64
		1717.5 (132047)	18.94	19.25	19.61
	1RB-Low (0)	1772.5 (132597)	18.88	18.78	19.48
		1745 (132322)	18.85	19.23	19.42
		1717.5 (132047)	18.89	19.20	19.50
	36RB-High (38)	1772.5 (132597)	18.91	18.93	19.64
		1745 (132322)	18.93	18.99	19.46
		1717.5 (132047)	18.99	18.91	19.39
	36RB-Middle (19)	1772.5 (132597)	18.86	18.83	19.40
		1745 (132322)	18.86	18.92	19.35
		1717.5 (132047)	18.98	18.93	19.40
	36RB-Low (0)	1772.5 (132597)	18.82	18.85	19.40
		1745 (132322)	18.85	18.92	19.34
		1717.5 (132047)	18.96	18.95	19.41
	75RB (0)	1772.5 (132597)	18.86	18.86	19.30
		1745 (132322)	18.84	18.88	9.72
		1717.5 (132047)	18.97	18.95	19.45
20MHz	1RB-High (99)	1770 (132572)	19.28	19.61	19.41
		1745 (132322)	19.31	19.47	19.50
		1720 (132072)	19.31	19.59	19.45
	1RB-Middle (50)	1770 (132572)	19.26	19.52	19.53
		1745 (132322)	19.33	19.39	19.53
		1720 (132072)	19.35	19.67	19.46
	1RB-Low (0)	1770 (132572)	19.27	19.51	19.56
		1745 (132322)	19.31	19.40	19.30
		1720 (132072)	19.35	19.68	19.51
	50RB-High (50)	1770 (132572)	19.45	19.15	19.43
		1745 (132322)	19.48	19.12	19.45
		1720 (132072)	19.47	19.17	19.35
	50RB-Middle (25)	1770 (132572)	19.46	19.16	19.52
		1745 (132322)	19.43	19.03	19.35
		1720 (132072)	19.47	19.17	19.40
	50RB-Low (0)	1770 (132572)	19.36	19.02	19.39
		1745 (132322)	19.39	19.02	19.34
		1720 (132072)	19.48	19.17	19.44
	100RB (0)	1770 (132572)	19.41	19.03	19.33
		1745 (132322)	19.39	19.05	19.49
		1720 (132072)	19.46	19.14	19.31

Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive. SAR test is not required since maximum output power when downlink carrier aggregation active is not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

The device supports Intra-band uplink LTE Carrier Aggregation (CA) CA_B41C. The conducted power measurement results of LTE CA are provided as follow.
All other uplink communications are identical to the release 8 specifications. Other LTE Rel.10 or higher features are not supported, including Enhanced SC-FDMA or Uplink MIMO etc.

The conducted power measurement results of LTE uplink 2CA are as below :

UL LTE CA Class	PCC				SCC				Power	
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_41C	20M	39750	1	99	5M	39867	1	0	24	23.57
CA_41C	15M	39725	1	74	10M	39845	1	0	24	23.49
CA_41C	20M	39750	1	99	10M	39894	1	0	24	23.54
CA_41C	20M	39750	1	99	15M	39921	1	0	24	23.55
CA_41C	20M	39750	1	99	20M	39948	1	0	24	23.5
CA_41C	20M	41490	1	0	5M	41373	1	99	24	23.12
CA_41C	15M	41515	1	0	10M	41395	1	99	24	23.77
CA_41C	20M	41490	1	0	10M	41346	1	99	24	23.46
CA_41C	15M	41515	1	0	15M	41365	1	99	24	23.79
CA_41C	20M	41490	1	0	15M	41319	1	99	24	23.77
CA_41C	20M	41490	1	0	20M	41292	1	99	24	23.8

11.5 5G NR Measurement result

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

Band	Tune up (dBm)			
	Level A1	Level B1	Level C1	Level D1
5G-n2(ANT3)	/	18	/	23
5G-n2(ANT2)	/	24	/	20
5G-n5	/	19	/	24
5G-n7	/	24	/	20
5G-n41	/	24	/	20
5G-n66(ANT3)	22	18	24	22
5G-n66(ANT2)	/	24	/	20
5G-n71	24	21	24	24

Power Level A1

5G-n66-Power Level A1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n66
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1777.5	355500	355050	21.18
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	348550	21.30
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1712.5	342500	342050	21.41
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1770	354000	352092	21.24
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	21.46
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1720	344000	342092	21.36
15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	1745	349000	347092	20.9
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	1745	349000	347092	21.65
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	1745	349000	347092	20.02
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	1745	349000	347092	17.68
15	20	CP-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	21.66
15	20	CP-OFDM 16QAM	Inner_Full	50@25	1745	349000	347092	21.32
15	20	CP-OFDM 64QAM	Inner_Full	50@25	1745	349000	347092	19.37
15	20	CP-OFDM 256QAM	Inner_Full	50@25	1745	349000	347092	15.95
15	20	CP-OFDM QPSK	Edge_Full_Right	2@104	1745	349000	347092	20.22
15	20	CP-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	347092	20.18
15	20	CP-OFDM QPSK	Inner_1RB_Right	1@104	1745	349000	347092	21.62
15	20	CP-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	347092	21.63
15	20	CP-OFDM QPSK	Outer_Full	100@0	1745	349000	347092	20.06
15	10	CP-OFDM QPSK	Inner_Full	25@12	1745	349000	348064	21.85
15	15	CP-OFDM QPSK	Inner_Full	36@19	1745	349000	347578	21.71

5G-n71-Power Level A1/C1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n71
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	695.5	139100	138650	22.28
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	680.5	136100	135650	23.31
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	665.5	133100	132650	22.64
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	688	137600	135692	22.23
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	680.5	136100	134192	23.39
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	673	134600	132692	22.59
15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	680.5	136100	134192	23.27
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	680.5	136100	134192	22.32
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	680.5	136100	134192	20.83
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	680.5	136100	134192	18.85
15	20	CP-OFDM QPSK	Inner_Full	50@25	680.5	136100	134192	21.78
15	20	CP-OFDM 16QAM	Inner_Full	50@25	680.5	136100	134192	21.30
15	20	CP-OFDM 64QAM	Inner_Full	50@25	680.5	136100	134192	19.82
15	20	CP-OFDM 256QAM	Inner_Full	50@25	680.5	136100	134192	16.73
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	680.5	136100	134192	22.20
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	680.5	136100	134192	22.32
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	680.5	136100	134192	23.36
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	680.5	136100	134192	23.51
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	680.5	136100	134192	22.34
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	680.5	136100	135164	23.45
15	15	DFT-s-OFDM QPSK	Inner_Full	36@19	680.5	136100	134678	23.19

Power Level B1

5G-n2-ANT3-Power Level B1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n2
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1907.5	381500	381050	17.53
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	375550	17.42
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1852.5	370500	370050	17.55
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1900	380000	378092	17.52
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	374092	17.38
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1860	372000	370092	17.42
15	5	DFT-s-OFDM PI/2 BPSK1	Edge_1RB_Left	1@0	1852.5	370500	370050	17.07
15	5	DFT-s-OFDM 16QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	17.14
15	5	DFT-s-OFDM 64QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	17.6
15	5	DFT-s-OFDM 256QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	17.26
15	5	CP-OFDM QPSK	Edge_1RB_Left	1@0	1852.5	370500	370050	17.72
15	5	CP-OFDM 16QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	17.43
15	5	CP-OFDM 64QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	17.53
15	5	CP-OFDM 256QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	16.65
15	5	CP-OFDM QPSK	Edge_Full_Right	2@23	1852.5	370500	370050	17.53
15	5	CP-OFDM QPSK	Edge_Full_Left	2@0	1852.5	370500	370050	17.65
15	5	CP-OFDM QPSK	Inner_1RB_Right	1@23	1852.5	370500	370050	17.52
15	5	CP-OFDM QPSK	Inner_1RB_Left	1@1	1852.5	370500	370050	17.67
15	5	CP-OFDM QPSK	Outer_Full	25@0	1852.5	370500	370050	17.68
15	10	CP-OFDM QPSK	Edge_1RB_Left	1@0	1855	370064	370064	17.46
15	15	CP-OFDM QPSK	Edge_1RB_Left	1@0	1857.5	370500	370078	17.37

5G-n2-ANT2-Power Level B1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n2
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1907.5	381500	381050	22.16
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	375550	22.13
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1852.5	370500	370050	22.19
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1900	380000	378092	22.13
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	374092	22.24
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1860	372000	370092	22.16
15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	1880	376000	374092	22.22
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880	376000	374092	22.14
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880	376000	374092	20.69
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880	376000	374092	18.72
15	20	CP-OFDM QPSK	Inner_Full	50@25	1880	376000	374092	21.64
15	20	CP-OFDM 16QAM	Inner_Full	50@25	1880	376000	374092	21.23
15	20	CP-OFDM 64QAM	Inner_Full	50@25	1880	376000	374092	19.70
15	20	CP-OFDM 256QAM	Inner_Full	50@25	1880	376000	374092	16.60
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880	376000	374092	22.18
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880	376000	374092	22.19
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880	376000	374092	22.21
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880	376000	374092	22.25
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	1880	376000	374092	22.22
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880	376000	375064	22.31
15	15	DFT-s-OFDM QPSK	Inner_Full	36@19	1880	376000	374578	22.17

5G-n5-Power Level B1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT设置信道	n5
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	846.5	169300	168850	17.93
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	166850	17.94
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	826.5	165300	164850	18.15
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	839	167800	165892	17.71
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	165392	17.85
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	834	166800	164892	18.02
15	5	DFT-s-OFDM PI/2 BPSK1	Edge_1RB_Left	1@0	826.5	165300	164850	18.06
15	5	DFT-s-OFDM 16QAM	Edge_1RB_Left	1@0	826.5	165300	164850	18.38
15	5	DFT-s-OFDM 64QAM	Edge_1RB_Left	1@0	826.5	165300	164850	18.27
15	5	DFT-s-OFDM 256QAM	Edge_1RB_Left	1@0	826.5	165300	164850	18.48
15	5	CP-OFDM QPSK	Edge_1RB_Left	1@0	826.5	165300	164850	18.92
15	5	CP-OFDM 16QAM	Edge_1RB_Left	1@0	826.5	165300	164850	18.81
15	5	CP-OFDM 64QAM	Edge_1RB_Left	1@0	826.5	165300	164850	18.7
15	5	CP-OFDM 256QAM	Edge_1RB_Left	1@0	826.5	165300	164850	16.71
15	5	CP-OFDM QPSK	Edge_Full_Right	2@23	826.5	165300	164850	18.86
15	5	CP-OFDM QPSK	Edge_Full_Left	2@0	826.5	165300	164850	18.95
15	5	CP-OFDM QPSK	Inner_1RB_Right	1@23	826.5	165300	164850	18.91
15	5	CP-OFDM QPSK	Inner_1RB_Left	1@1	826.5	165300	164850	18.93
15	5	CP-OFDM QPSK	Outer_Full	25@0	826.5	165300	164850	18.69
15	10	CP-OFDM QPSK	Edge_Full_Left	2@0	829	165800	164864	18.92
15	15	CP-OFDM QPSK	Edge_Full_Left	2@0	831.5	166300	164878	18.94

5G-n7-Power Level B1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n7
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	2502.5	500500	500050	22.57
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535	507000	506550	23.54
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2567.5	513500	513050	22.55
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	2510	502000	500092	22.54
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535	507000	505092	23.44
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2560	512000	510092	22.44
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	2535	507000	506550	23.34
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	2535	507000	506550	23
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	2535	507000	506550	21.34
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	2535	507000	506550	18.87
15	5	CP-OFDM QPSK	Inner_Full	13@6	2535	507000	506550	21.41
15	5	CP-OFDM 16QAM	Inner_Full	13@6	2535	507000	506550	21.46
15	5	CP-OFDM 64QAM	Inner_Full	13@6	2535	507000	506550	20.48
15	5	CP-OFDM 256QAM	Inner_Full	13@6	2535	507000	506550	17.3
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	2535	507000	506550	22.61
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535	507000	506550	22.51
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	2535	507000	506550	23.85
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535	507000	506550	23.81
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	2535	507000	506550	22.81
15	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1@50	2535	507000	506064	23.71
15	15	DFT-s-OFDM QPSK	Inner_1RB_Right	1@77	2535	507000	505578	23.63

5G-n41-Power Level B1									
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT设置信道	Tune up	n41
30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@50	2679.99	535998	534162	23.00	22.91
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	525462	24.00	23.73
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	516762	24.00	23.81
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	508065	24.00	23.79
30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2506.02	501204	499368	23.00	22.70
30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2512.02	502404	500568	23.00	22.57
30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1@272	2640	528000	518172	23.00	22.74
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	513471	24.00	23.22
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	508770	24.00	23.65
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	504072	24.00	23.61
30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2546.01	509202	499374	23.00	22.59
30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2550.01	510002	500174	23.00	22.70
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2592.99	518598	516762	23.8	23.59
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	516762	23	22.63
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	516762	21.5	21.24
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	516762	19.5	19.47
30	20	CP-OFDM QPSK	Inner_Full	25@12	2592.99	518598	516762	22.49	22.79
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	516762	21.98	22.28
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	516762	20.38	20.68
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	516762	17.5	17.49
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	2592.99	518598	516762	23	22.70
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	516762	23	22.73
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	2592.99	518598	516762	24	22.89
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	516762	24	23.74
30	20	DFT-s-OFDM QPSK	Outer_Full	100@0	2592.99	518598	516762	23	22.42
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	514782	24	23.98
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	511899	512766	24	23.74

5G-n66-ANT3-Power Level B1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n66
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1777.5	355500	355050	17.01
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	348550	17.05
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1712.5	342500	342050	17.03
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1770	354000	352092	16.93
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	17.06
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1720	344000	342092	16.97
15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	1745	349000	347092	16.83
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	1745	349000	347092	17.14
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	1745	349000	347092	17.15
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	1745	349000	347092	17.22
15	20	CP-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	17.61
15	20	CP-OFDM 16QAM	Inner_Full	50@25	1745	349000	347092	17.53
15	20	CP-OFDM 64QAM	Inner_Full	50@25	1745	349000	347092	17.51
15	20	CP-OFDM 256QAM	Inner_Full	50@25	1745	349000	347092	17.05
15	20	CP-OFDM QPSK	Edge_Full_Right	2@104	1745	349000	347092	17.57
15	20	CP-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	347092	17.49
15	20	CP-OFDM QPSK	Inner_1RB_Right	1@104	1745	349000	347092	17.53
15	20	CP-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	347092	17.47
15	20	CP-OFDM QPSK	Outer_Full	100@0	1745	349000	347092	17.57
15	10	CP-OFDM QPSK	Inner_Full	25@12	1745	349000	348064	17.73
15	15	CP-OFDM QPSK	Inner_Full	36@19	1745	349000	347578	17.53

5G-n66-ANT2-Power Level B1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n66
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1777.5	355500	355050	22.34
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	348550	22.28
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1712.5	342500	342050	22.36
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1770	354000	352092	22.33
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	22.38
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1720	344000	342092	22.37
15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	1745	349000	347092	22.30
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	1745	349000	347092	22.37
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	1745	349000	347092	20.84
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	1745	349000	347092	18.88
15	20	CP-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	21.95
15	20	CP-OFDM 16QAM	Inner_Full	50@25	1745	349000	347092	21.41
15	20	CP-OFDM 64QAM	Inner_Full	50@25	1745	349000	347092	19.84
15	20	CP-OFDM 256QAM	Inner_Full	50@25	1745	349000	347092	16.85
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1745	349000	347092	22.34
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	347092	22.33
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1745	349000	347092	22.37
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	347092	22.34
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	1745	349000	347092	22.39
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	349000	348064	22.47
15	15	DFT-s-OFDM QPSK	Inner_Full	36@19	1745	349000	347578	22.24

5G-n71-Power Level B1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n71
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	695.5	139100	138650	20.93
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	680.5	136100	135650	20.61
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	665.5	133100	132650	21.06
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	688	137600	135692	20.79
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	680.5	136100	134192	20.56
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	673	134600	132692	20.95
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	1@0	665.5	133100	132650	20.86
15	5	DFT-s-OFDM 16QAM	Inner_Full	1@0	665.5	133100	132650	21.36
15	5	DFT-s-OFDM 64QAM	Inner_Full	1@0	665.5	133100	132650	21.27
15	5	DFT-s-OFDM 256QAM	Inner_Full	1@0	665.5	133100	132650	19.62
15	5	CP-OFDM QPSK	Inner_Full	1@0	665.5	133100	132650	22.20
15	5	CP-OFDM 16QAM	Inner_Full	1@0	665.5	133100	132650	22.03
15	5	CP-OFDM 64QAM	Inner_Full	1@0	665.5	133100	132650	21.21
15	5	CP-OFDM 256QAM	Inner_Full	1@0	665.5	133100	132650	17.41
15	5	CP-OFDM QPSK	Edge_Full_Right	2@23	665.5	133100	132650	22.00
15	5	CP-OFDM QPSK	Edge_Full_Left	2@0	665.5	133100	132650	22.10
15	5	CP-OFDM QPSK	Inner_1RB_Right	1@23	665.5	133100	132650	22.05
15	5	CP-OFDM QPSK	Inner_1RB_Left	1@1	665.5	133100	132650	22.16
15	5	CP-OFDM QPSK	Outer_Full	25@0	665.5	133100	132650	22.05
15	10	CP-OFDM QPSK	Inner_Full	25@12	665.5	133100	132164	21.91
15	15	CP-OFDM QPSK	Inner_Full	36@19	665.5	133100	131678	21.98

Power Level C1

5G-n66-ANT3-Power Level C1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n66
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1777.5	355500	355050	22.11
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	348550	22.19
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1712.5	342500	342050	22.10
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1770	354000	352092	22.14
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	22.13
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1720	344000	342092	22.24
15	20	DFT-s-OFDM PI/2 BPSK1	Edge_1RB_Left	1@0	1720	344000	342092	22.22
15	20	DFT-s-OFDM 16QAM	Edge_1RB_Left	1@0	1720	344000	342092	21.49
15	20	DFT-s-OFDM 64QAM	Edge_1RB_Left	1@0	1720	344000	342092	20.79
15	20	DFT-s-OFDM 256QAM	Edge_1RB_Left	1@0	1720	344000	342092	18.39
15	20	CP-OFDM QPSK	Edge_1RB_Left	1@0	1720	344000	342092	20.13
15	20	CP-OFDM 16QAM	Edge_1RB_Left	1@0	1720	344000	342092	20.07
15	20	CP-OFDM 64QAM	Edge_1RB_Left	1@0	1720	344000	342092	19.95
15	20	CP-OFDM 256QAM	Edge_1RB_Left	1@0	1720	344000	342092	17.03
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1720	344000	342092	22.35
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1720	344000	342092	22.2
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1720	344000	342092	22.31
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1720	344000	342092	22.23
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	1720	344000	342092	22.28
15	10	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1715	343000	342064	22.38
15	15	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1717.5	343500	342078	22.33

Power Level D1

5G-n2-ANT3-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n2
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1907.5	381500	381050	22.59
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	375550	22.27
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1852.5	370500	370050	22.72
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1900	380000	378092	22.42
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	374092	22.20
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1860	372000	370092	22.54
15	5	DFT-s-OFDM PI/2 BPSK1	Edge_1RB_Left	1@0	1852.5	370500	370050	22.23
15	5	DFT-s-OFDM 16QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	21.84
15	5	DFT-s-OFDM 64QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	21.25
15	5	DFT-s-OFDM 256QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	19.06
15	5	CP-OFDM QPSK	Edge_1RB_Left	1@0	1852.5	370500	370050	21.17
15	5	CP-OFDM 16QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	21.00
15	5	CP-OFDM 64QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	20.13
15	5	CP-OFDM 256QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	16.94
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1852.5	370500	370050	22.48
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1852.5	370500	370050	22.67
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1852.5	370500	370050	22.75
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1852.5	370500	370050	22.84
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1852.5	370500	370050	22.62
15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1855	370064	370064	22.45
15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1857.5	370500	370078	22.51

5G-n2-ANT2-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n2
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1907.5	381500	381050	18.83
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	375550	19.00
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1852.5	370500	370050	18.94
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1900	380000	378092	18.64
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	374092	19.04
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1860	372000	370092	18.80
15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	1880	376000	374092	18.76
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880	376000	374092	19.05
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880	376000	374092	19.27
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880	376000	374092	18.69
15	20	CP-OFDM QPSK	Inner_Full	50@25	1880	376000	374092	19.45
15	20	CP-OFDM 16QAM	Inner_Full	50@25	1880	376000	374092	19.73
15	20	CP-OFDM 64QAM	Inner_Full	50@25	1880	376000	374092	19.79
15	20	CP-OFDM 256QAM	Inner_Full	50@25	1880	376000	374092	16.92
15	20	CP-OFDM 64QAM	Edge_Full_Right	2@104	1880	376000	374092	19.96
15	20	CP-OFDM 64QAM	Edge_Full_Left	2@0	1880	376000	374092	19.87
15	20	CP-OFDM 64QAM	Inner_1RB_Right	1@104	1880	376000	374092	19.97
15	20	CP-OFDM 64QAM	Inner_1RB_Left	1@1	1880	376000	374092	19.93
15	20	CP-OFDM 64QAM	Outer_Full	100@0	1880	376000	374092	19.80
15	10	CP-OFDM 64QAM	Inner_1RB_Right	1@50	1880	376000	375064	19.95
15	15	CP-OFDM 64QAM	Inner_1RB_Right	1@77	1880	376000	374578	19.78

5G-n5-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n5
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	846.5	169300	168850	22.58
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	166850	23.45
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	826.5	165300	164850	22.66
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	839	167800	165892	22.23
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	165392	23.55
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	834	166800	164892	22.55
15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	836.5	167300	165392	23.24
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	836.5	167300	165392	22.71
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	836.5	167300	165392	21.17
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	836.5	167300	165392	18.85
15	20	CP-OFDM QPSK	Inner_Full	53@26	836.5	167300	165392	22.45
15	20	CP-OFDM 16QAM	Inner_Full	53@26	836.5	167300	165392	21.85
15	20	CP-OFDM 64QAM	Inner_Full	53@26	836.5	167300	165392	20.32
15	20	CP-OFDM 256QAM	Inner_Full	53@26	836.5	167300	165392	16.99
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	836.5	165300	165392	22.15
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	165300	165392	22.47
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	836.5	165300	165392	23.23
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	165300	165392	23.58
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	836.5	165300	165392	22.43
15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	166436	23.43
15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	165932	23.57

5G-n7-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n7
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	2502.5	500500	500050	19.7
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535	507000	506550	19.81
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2567.5	513500	513050	19.7
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	2510	502000	500092	19.45
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535	507000	505092	19.54
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2560	512000	510092	19.56
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	2535	507000	506550	18.66
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	2535	507000	506550	19
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	2535	507000	506550	19.11
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	2535	507000	506550	18.85
15	5	CP-OFDM QPSK	Inner_Full	13@6	2535	507000	506550	19.87
15	5	CP-OFDM 16QAM	Inner_Full	13@6	2535	507000	506550	19.73
15	5	CP-OFDM 64QAM	Inner_Full	13@6	2535	507000	506550	19.83
15	5	CP-OFDM 256QAM	Inner_Full	13@6	2535	507000	506550	17.1
15	5	CP-OFDM QPSK	Edge_Full_Right	2@23	2535	507000	506550	19.86
15	5	CP-OFDM QPSK	Edge_Full_Left	2@0	2535	507000	506550	19.68
15	5	CP-OFDM QPSK	Inner_1RB_Right	1@23	2535	507000	506550	19.8
15	\	CP-OFDM QPSK	Inner_1RB_Left	1@1	2535	507000	506550	19.76
15	5	CP-OFDM QPSK	Outer_Full	25@0	2535	507000	506550	19.84
15	10	CP-OFDM QPSK	Inner_1RB_Right	1@50	2535	507000	506064	19.66
15	15	CP-OFDM QPSK	Inner_1RB_Right	1@77	2535	507000	505578	19.58

5G-n41-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n41
30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@50	2679.99	535998	534162	18.78
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	525462	19.60
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	516762	19.68
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	508065	19.66
30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2506.02	501204	499368	18.57
30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2512.02	502404	500568	18.44
30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1@272	2640	528000	518172	18.61
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	513471	19.09
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	508770	19.52
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	504072	19.48
30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2546.01	509202	499374	18.46
30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	2550.01	510002	500174	18.57
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2592.99	518598	516762	19.46
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	516762	19.11
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	516762	18.58
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	516762	17.83
30	20	CP-OFDM QPSK	Inner_Full	25@12	2592.99	518598	516762	18.66
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	516762	18.58
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	516762	18.22
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	516762	17.33
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	2592.99	518598	516762	18.57
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	516762	18.60
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	2592.99	518598	516762	18.76
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	516762	19.61
30	20	DFT-s-OFDM QPSK	Outer_Full	100@0	2592.99	518598	516762	18.29
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	514782	19.85
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	511899	512766	19.61

5G-n66-ANT3-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n66
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1777.5	355500	355050	20.66
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	348550	20.55
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1712.5	342500	342050	20.66
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1770	354000	352092	20.61
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	20.76
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1720	344000	342092	20.73
15	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	50@25	1745	349000	347092	20.3
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	1745	349000	347092	20.85
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	1745	349000	347092	20.4
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	1745	349000	347092	18.06
15	20	CP-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	21.62
15	20	CP-OFDM 16QAM	Inner_Full	50@25	1745	349000	347092	21.58
15	20	CP-OFDM 64QAM	Inner_Full	50@25	1745	349000	347092	19.76
15	20	CP-OFDM 256QAM	Inner_Full	50@25	1745	349000	347092	16.41
15	20	CP-OFDM QPSK	Edge_Full_Right	2@104	1745	349000	347092	20.47
15	20	CP-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	347092	20.43
15	20	CP-OFDM QPSK	Inner_1RB_Right	1@104	1745	349000	347092	21.51
15	20	CP-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	347092	21.41
15	20	CP-OFDM QPSK	Outer_Full	100@0	1745	349000	347092	20.46
15	10	CP-OFDM QPSK	Inner_Full	25@12	1745	349000	348064	21.85
15	15	CP-OFDM QPSK	Inner_Full	36@19	1745	349000	347578	21.58

5G-n66-ANT2-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	QRCT CH.	n66
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1777.5	355500	355050	19.10
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	348550	19.13
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1712.5	342500	342050	19.23
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1770	354000	352092	18.95
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	18.95
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1720	344000	342092	19.26
15	20	DFT-s-OFDM PI/2 BPSK1	Edge_1RB_Left	1@0	1720	344000	342092	19.05
15	20	DFT-s-OFDM 16QAM	Edge_1RB_Left	1@0	1720	344000	342092	19.02
15	20	DFT-s-OFDM 64QAM	Edge_1RB_Left	1@0	1720	344000	342092	19.32
15	20	DFT-s-OFDM 256QAM	Edge_1RB_Left	1@0	1720	344000	342092	18.85
15	20	CP-OFDM QPSK	Edge_1RB_Left	1@0	1720	344000	342092	19.96
15	20	CP-OFDM 16QAM	Edge_1RB_Left	1@0	1720	344000	342092	19.69
15	20	CP-OFDM 64QAM	Edge_1RB_Left	1@0	1720	344000	342092	19.7
15	20	CP-OFDM 256QAM	Edge_1RB_Left	1@0	1720	344000	342092	17.08
15	20	CP-OFDM QPSK	Edge_Full_Right	2@104	1720	344000	342092	19.93
15	20	CP-OFDM QPSK	Edge_Full_Left	2@0	1720	344000	342092	19.95
15	20	CP-OFDM QPSK	Inner_1RB_Right	1@104	1720	344000	342092	19.72
15	20	CP-OFDM QPSK	Inner_1RB_Left	1@1	1720	344000	342092	19.75
15	20	CP-OFDM QPSK	Outer_Full	100@0	1720	344000	342092	19.82
15	10	CP-OFDM QPSK	Edge_1RB_Left	1@0	1715	343000	342064	19.56
15	15	CP-OFDM QPSK	Edge_1RB_Left	1@0	1717.5	343500	342078	19.71

11.6 Wi-Fi and BT Measurement result

The maximum output power of BT antenna is 11.29dBm.
The maximum tune up of BT antenna is 11.5dBm.

The average conducted power for Wi-Fi 2.4G is as following:

Power for Wifi2.4G transmit standalone (Receiver on/off)

802.11b	
Channel\data rate	1Mbps
11(2462MHz)	19.30
6(2437(MHz)	18.92
1(2412MHz)	19.29
Tune up	19.50
802.11g	
Channel\data rate	6Mbps
11(2462MHz)	17.58
6(2437(MHz)	17.35
1(2412MHz)	17.71
Tune up	18.00
802.11n-20MHz	
Channel\data rate	MCS0
11(2462MHz)	16.61
6(2437(MHz)	16.15
1(2412MHz)	16.63
Tune up	17.00
802.11n-40MHz	
Channel\data rate	MCS0
9(2452MHz)	15.55
6(2437MHz)	16.55
3(2422MHz)	16.98
Tune up	17.30

Power for Wifi2.4G transmit with WWAN (Receiver on)

802.11b	
Channel\data rate	1Mbps
11(2462MHz)	15.60
6(2437(MHz)	15.78
1(2412MHz)	16.24
Tune up	16.50
802.11g	
Channel\data rate	6Mbps
11(2462MHz)	15.50
6(2437(MHz)	15.01
1(2412MHz)	15.44
Tune up	15.80
802.11n-20MHz	
Channel\data rate	MCS0
11(2462MHz)	15.25
6(2437(MHz)	14.90
1(2412MHz)	15.26
Tune up	15.50
802.11n-40MHz	
Channel\data rate	MCS0
9(2452MHz)	14.58
6(2437MHz)	15.69
3(2422MHz)	16.45
Tune up	16.50

Power for Wifi2.4G transmit with WWAN(Receiver off)

802.11b	
Channel\data rate	1Mbps
11(2462MHz)	10.11
6(2437(MHz)	10.96
1(2412MHz)	10.56
Tune up	11.30
802.11g	
Channel\data rate	6Mbps
11(2462MHz)	10.01
6(2437(MHz)	10.68
1(2412MHz)	10.24
Tune up	11.00
802.11n-20MHz	
Channel\data rate	MCS0
11(2462MHz)	9.89
6(2437(MHz)	10.55
1(2412MHz)	10.17
Tune up	10.80
802.11n-40MHz	
Channel\data rate	MCS0
9(2452MHz)	9.72
6(2437MHz)	10.33
3(2422MHz)	10.96
Tune up	11.20

Power for Wifi5G receiver on or receiver off (transmit standalone)

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	17.27
40(5200 MHz)	17.62
44(5220 MHz)	17.48
48(5240 MHz)	17.07
Tune up	18.00
52(5260 MHz)	16.50
56(5280 MHz)	16.19
60(5300 MHz)	16.01
64(5320 MHz)	16.00
Tune up	18.00
100(5500 MHz)	16.50
104(5520 MHz)	16.62
108(5540 MHz)	17.10
112(5560 MHz)	17.31
116(5580 MHz)	17.22
120(5600 MHz)	17.16
124(5620 MHz)	17.10
128(5640 MHz)	17.25
132(5660 MHz)	17.63
136(5680 MHz)	17.69
140(5700 MHz)	17.25
144(5720 MHz)	17.06
Tune up	17.80
149(5745 MHz)	16.71
153(5765 MHz)	16.83
157(5785 MHz)	17.26
161(5805 MHz)	17.31
165(5825 MHz)	17.16
Tune up	17.70

Power for Wifi5G receiver off (transmit with WWAN)

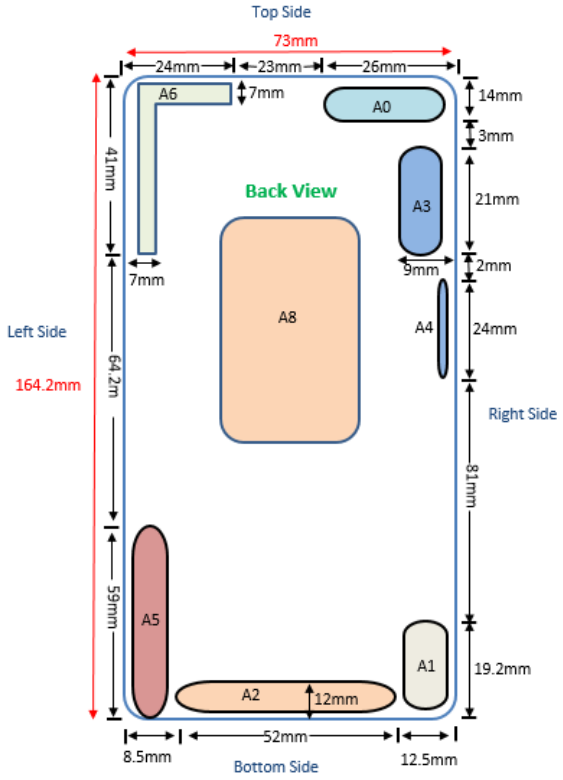
802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	9.11
40(5200 MHz)	9.32
44(5220 MHz)	9.58
48(5240 MHz)	9.12
Tune up	9.90
52(5260 MHz)	8.46
56(5280 MHz)	8.00
60(5300 MHz)	8.75
64(5320 MHz)	9.20
Tune up	9.90
100(5500 MHz)	9.55
104(5520 MHz)	9.90
108(5540 MHz)	10.23
112(5560 MHz)	10.20
116(5580 MHz)	9.91
120(5600 MHz)	9.62
124(5620 MHz)	10.01
128(5640 MHz)	10.95
132(5660 MHz)	9.71
136(5680 MHz)	10.31
140(5700 MHz)	9.92
144(5720 MHz)	9.62
Tune up	11.20
149(5745 MHz)	9.33
153(5765 MHz)	9.31
157(5785 MHz)	9.99
161(5805 MHz)	9.93
165(5825 MHz)	9.85
Tune up	10.20

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



A0.Primary Antenna0(TX/RX)
GSM 850/900
UMTS B5/8
LTE: B5/8/12/13/14/17/20/26/28/71
B5/12/13 in ENDC LB(LTE)+MB(NR)
B5/28 in ENDC LB(LTE)+HB(NR)
n5/71 in ENDC MB(LTE)+LB(NR)
n71 in ENDC HB(LTE)+LB(NR)
n71 in SA mode
A1.Primary Antenna1(TX/RX)
LTE B7/30/38/40/41
B30 for ENDC HB(LTE)+MB(NR)
n7/41 for ENDC MB(LTE)+HB(NR)
n7 for ENDC LB(LTE)+HB(NR)
B7 for ENDC LB(NR)+HB(LTE), HB(LTE)+n78(NR)
A2.Primary Antenna2(TX/RX)
n66 for ENDC MB(LTE)+MB(NR), HB(LTE)+MB(NR)
B2/66 for ENDC MB(LTE)+HB(NR)
A3.Primary Antenna3(TX/RX)
GSM 1800/1900
UMTS B1/2/4
LTE: B1/2/3/4/25/66
B2 for ENDC MB(LTE)+MB(NR)
n2/66 for ENDC LB(LTE)+MB(NR)
B2/66 for ENDC LB(NR)+MB(LTE), MB(LTE)+n78(NR)
n66 in SA mode
A4.Primary Antenna4(TX/RX)
LTE B48
n78 for ENDC LB(LTE)+n78(NR), MB(LTE)+n78(NR), HB(LTE)+n78(NR)
n78 in SA mode
A5.Primary Antenna5(TX/RX)
B5 for ENDC B5+n78
A6.Antenna 6(TX/RX)
WIFI 2.4G/Wi-Fi 5G/Bluetooth
GPS L1/GPS L5
A8.NFC Antenna

Picture 12.1 Antenna Locations

12.3 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, 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
A0	Yes	Yes	Yes	No	Yes	No
A1	Yes	Yes	Yes	No	No	Yes
A2	Yes	Yes	Yes	Yes	No	Yes
A3	Yes	Yes	Yes	No	Yes	No
A4	Yes	Yes	Yes	No	No	No
A5	Yes	Yes	No	Yes	No	Yes
A6	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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, where

- f(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	11.5	14.13	No
		Body	19.20	11.5	14.13	No
2.4GHz WLAN	2.45	Head	9.58	19.5	89.13	No
		Body	19.17	19.5	89.13	No
5GHz WLAN	5.2	Head	6.58	18	63.1	No
		Body	13.16	18	63.1	No
	5.3	Head	6.52	18	63.1	No
		Body	13.03	18	63.1	No
	5.6	Head	6.34	17.8	60.26	No
		Body	12.68	17.8	60.26	No
	5.8	Head	6.23	17.7	58.88	No
		Body	12.46	17.7	58.88	No

13 Evaluation of Simultaneous

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

	Position	Main antenna	WiFi-2.4G	Sum
Highest SAR value for Head	Right head, Cheek (LTE Band66)	1.38	0.03	**1.41**
Highest SAR value for Body	Rear 10mm (UL CA:2A-4A)	1.30	0.20	**1.50**

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

	Position	Main antenna	WiFi-5G	Sum
Highest SAR value for Head	Right head, Cheek (LTE Band66)	1.38	0.10	**1.48**
Highest SAR value for Body	Rear 10mm (UL CA:2A-4A)	1.30	0.10	**1.40**

Table 13.3: The sum of SAR values for Main antenna +BT

	Position	Main antenna	BT	Sum
Highest SAR value for Head	Right head, Cheek (LTE Band66)	1.38	<0.01	**1.38**
Highest SAR value for Body	Left 10mm (LTE Band66)	1.38	<0.01	**1.38**

Table 13.4: The sum of SAR values for Main antenna + Wifi5G + BT

	Position	Main antenna	WiFi-5G	BT	Sum
Highest SAR value for Head	Right head, Cheek (LTE Band66)	1.38	0.10	<0.01	**1.48**
Highest SAR value for Body	Rear 10mm (UL CA:2A-4A)	1.30	0.10	<0.01	**1.40**

Table 13.5: The sum of SAR values for Main antenna + Wifi (0mm SAR for Phablet)

	Position	Main antenna	WiFi	Sum
Highest SAR value for 10-g extremity SAR	Left 0mm (WCDMA1900)	3.81	0	**3.81**

Table 13.6: The SAR values for UL CA

	LTE	LTE	Mode	Position	Reported SAR 1g(W/kg)
UL CA	LTE Band 2 (A3)	LTE Band 4 (A2)	Head	Right Cheek	**0.45 (0.42+0.03)**
			Body	Rear 10mm	**1.30 (0.67+0.63)**
	LTE Band 2 (A3)	LTE Band 5	Head	Right Cheek	**0.55 (0.42+0.13)**
			Body	Rear 10mm	**1.12 (0.67+0.45)**
	LTE Band 2 (A3)	LTE Band 12	Head	Right Cheek	**0.59 (0.42+0.17)**
			Body	Left 10mm	**1.10 (0.65+0.45)**
	LTE Band 2 (A2)	LTE Band 4 (A3)	Head	Right Cheek	**0.47 (0.04+0.43)**
			Body	Rear 10mm	**0.59 (0.44+0.15)**
	LTE Band 2 (A2)	LTE Band 7	Head	Left Cheek	**0.32 (0.06+0.26)**
			Body	Rear 10mm	**0.70 (0.44+0.26)**
	LTE Band 4 (A3)	LTE Band 5	Head	Right Cheek	**0.56 (0.43+0.13)**
			Body	Rear 10mm	**0.60 (0.15+0.45)**
	LTE Band 4 (A3)	LTE Band 12	Head	Right Cheek	**0.60 (0.43+0.17)**
			Body	Front 10mm	**0.62 (0.13+0.49)**
	LTE Band 4 (A2)	LTE Band 7	Head	Left Cheek	**0.31 (0.05+0.26)**
			Body	Rear 10mm	**0.89 (0.63+0.26)**
	LTE Band 5	LTE Band 7	Head	Left Cheek	**0.34 (0.08+0.26)**
			Body	Rear 10mm	**0.71 (0.45+0.26)**

Table 13.7: The SAR values for ENDC

	LTE	NR	Mode	Position	Reported SAR 1g(W/kg)
ENDC	LTE Band 2 (A3)	n5	Head	Right Cheek	**0.95 (0.42+0.53)**
			Body	Rear 10mm	**1.09 (0.67+0.42)**
	LTE Band 2 (A3)	n66 (A2)	Head	Right Cheek	**0.54 (0.42+0.12)**
			Body	Rear 10mm	**1.12 (0.67+0.45)**
	LTE Band 2 (A3)	n71	Head	Right Cheek	**0.86 (0.42+0.44)**
			Body	Rear 10mm	**1.01 (0.67+0.34)**
	LTE Band 2 (A2)	n41	Head	Left Cheek	**0.36 (0.06+0.30)**
			Body	Bottom 10mm	**1.00 (0.57+0.43)**
	LTE Band 5	n2 (A3)	Head	Right Cheek	**0.63 (0.13+0.50)**
			Body	Rear 10mm	**0.96 (0.45+0.51)**
	LTE Band 5	n66 (A3)	Head	Right Cheek	**0.58 (0.13+0.45)**
			Body	Rear 10mm	**0.75 (0.45+0.30)**
	LTE Band 7	n5	Head	Right Cheek	**0.67 (0.14+0.53)**
			Body	Rear 10mm	**0.68 (0.26+0.42)**
	LTE Band 7	n66 (A2)	Head	Left Cheek	**0.35 (0.26+0.09)**
			Body	Rear 10mm	**0.71 (0.26+0.45)**
	LTE Band 7	n71	Head	Left Cheek	**0.59 (0.26+0.33)**
			Body	Rear 10mm	**0.60 (0.26+0.34)**
	LTE Band 12	n2 (A3)	Head	Right Cheek	**0.67 (0.17+0.50)**
			Body	Rear 10mm	**0.89 (0.38+0.51)**
	LTE Band 12	n66 (A3)	Head	Right Cheek	**0.62 (0.17+0.45)**
			Body	Left 10mm	**0.87 (0.45+0.42)**
	LTE Band 13	n66 (A3)	Head	Right Cheek	**0.56 (0.11+0.45)**
			Body	Left 10mm	**0.78 (0.36+0.42)**
	LTE Band 30	n2 (A2)	Head	Left Cheek	**0.17 (0.09+0.08)**
			Body	Rear 10mm	**0.95 (0.63+0.32)**
	LTE Band 30	n5	Head	Right Cheek	**0.58 (0.05+0.53)**
			Body	Rear 10mm	**1.05 (0.63+0.42)**
	LTE Band 30	n66 (A2)	Head	Left Cheek	**0.18 (0.09+0.09)**
			Body	Rear 10mm	**1.08 (0.63+0.45)**
	LTE Band 66 (A3)	n2 (A2)	Head	Right Cheek	**0.53 (0.44+0.09)**
			Body	Rear 10mm	**0.65 (0.33+0.32)**
	LTE Band 66 (A3)	n5	Head	Right Cheek	**0.97 (0.44+0.53)**
			Body	Rear 10mm	**0.75 (0.33+0.42)**
	LTE Band 66 (A3)	n71	Head	Right Cheek	**0.88 (0.44+0.44)**
			Body	Rear 10mm	**0.67 (0.33+0.34)**
	LTE Band 66 (A2)	n7	Head	Left Cheek	**0.20 (0.05+0.15)**
			Body	Rear 10mm	**1.01 (0.49+0.52)**
	LTE Band 66 (A2)	n41	Head	Left Cheek	**0.35 (0.05+0.30)**
			Body	Bottom 10mm	**1.06 (0.63+0.43)**

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;
where x = 7.5 for 1-g SAR.
When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

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 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-g SAR 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:

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

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
GSM850/1900	1:8.3 or 1:2.67
WCDMA&LTE FDD	1:1
LTE TDD	1:1.58
5G NR n2/n5/n7/n66/n71	1:1
5G NR n41	1:1.08

We'll perform the head measurement in all bands with the primary battery depending on the evaluation of multi-batteries and retest on highest value point with other batteries. Then, repeat the measurement in the Body test.

Table 14.1: The evaluation of multi-batteries for Head Test

Frequency		Side	Test Position	Battery	SAR(1g) (W/kg)	Power Drift(dB)
MHz	Ch.					
836.6	**190**	**Left**	**Touch**	**B1**	0.626	0.13
836.6	**190**	**Left**	**Touch**	**B2**	0.604	0.08

Note: According to the values in the above table, the **B1** is the primary battery.
We'll perform the head measurement with the **B1** and retest on highest value point with others.

Table 14.2: The evaluation of multi-batteries for Body Test

Frequency		Mode/Band	Position	Battery	SAR(1g) (W/kg)	Power Drift
MHz	Channel					
836.6	**190**	GSM850	Rear	**B1**	0.411	-0.11
836.6	**190**	GSM850	Rear	**B2**	0.401	-0.10

Note: According to the values in the above table, the **B1** is the primary battery.
We'll perform the head measurement with the **B1** and retest on highest value point with others.

Note:
The **B1** is the battery of TLp043D1 by BYD
The **B2** is the battery of TLp043D7 by VEKEN

14.1 SAR results for standalone

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

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	GSM850	190	836.6	GPRS 1TX	31.26	32	0.626	**0.74**	0.352	**0.42**	0.13
Tilt	L	GSM850	190	836.6	GPRS 1TX	31.26	32	0.614	**0.73**	0.324	**0.38**	-0.06
Cheek	R	GSM850	251	848.8	GPRS 1TX	31.05	32	0.865	**1.08**	0.438	**0.55**	0.07
Cheek	R	GSM850	190	836.6	GPRS 1TX	31.26	32	0.878	**1.04**	0.448	**0.53**	0.01
Cheek	R	GSM850	128	824.2	GPRS 1TX	31.29	32	0.901	**1.06**	0.459	**0.54**	0.13
Tilt	R	GSM850	251	848.8	GPRS 1TX	31.05	32	0.92	**1.14**	0.41	**0.51**	0.15
Tilt	R	GSM850	190	836.6	GPRS 1TX	31.26	32	0.939	**1.11**	0.419	**0.50**	-0.06
Tilt	R	GSM850	128	824.2	GPRS 1TX / Fig. A.1	31.29	32	1.11	**1.31**	0.489	**0.58**	0.09
Tilt	R	GSM850	128	824.2	GPRS 1TX B2	31.29	32	1.05	**1.24**	0.477	**0.56**	0.06

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

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	GSM850	190	836.6	Front 10mm GPRS 1TX	33.82	34	0.403	**0.42**	0.211	**0.22**	-0.03
Body	F	GSM850	251	848.8	Rear 10mm GPRS 1TX	33.81	34	0.297	**0.31**	0.177	**0.18**	-0.11
Body	F	GSM850	190	836.6	Rear 10mm GPRS 1TX / Fig.A.2	33.82	34	0.411	**0.43**	0.236	**0.25**	-0.11
Body	F	GSM850	128	824.2	Rear 10mm GPRS 1TX	33.74	34	0.306	**0.32**	0.186	**0.20**	-0.18
Body	F	GSM850	190	836.6	Left Edge 10mm GPRS 1TX	33.82	34	0.289	**0.30**	0.171	**0.18**	-0.03
Body	F	GSM850	190	836.6	Top Edge 10mm GPRS 1TX	33.82	34	0.274	**0.29**	0.167	**0.17**	-0.02
Body	F	GSM850	190	836.6	Rear 10mm EGPRS 1TX	33.48	34	0.304	**0.34**	0.173	**0.20**	-0.08
Body	F	GSM850	190	836.6	Rear 10mm GPRS 1TX B2	33.82	34	0.401	**0.42**	0.225	**0.23**	-0.1

Table 14.1-3: SAR Values (GSM 1900 MHz Band - Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	GSM1900	661	1880	GPRS 3TX	24.72	25.5	0.493	**0.59**	0.281	**0.34**	0.07
Tilt	L	GSM1900	661	1880	GPRS 3TX	24.72	25.5	0.255	**0.31**	0.135	**0.16**	0.11
Cheek	R	GSM1900	810	1909.8	GPRS 3TX	24.55	25.5	0.98	**1.22**	0.471	**0.59**	-0.01
Cheek	R	GSM1900	661	1880	GPRS 3TX / Fig.A.3	24.72	25.5	1.03	**1.23**	0.492	**0.59**	-0.01
Cheek	R	GSM1900	512	1850.2	GPRS 3TX	24.69	25.5	0.97	**1.17**	0.467	**0.56**	0.12
Tilt	R	GSM1900	661	1880	GPRS 3TX	24.72	25.5	0.47	**0.56**	0.228	**0.27**	-0.04
Cheek	R	GSM1900	661	1880	GPRS 3TX B2	24.72	25.5	0.998	**1.19**	0.485	**0.58**	-0.1

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

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	GSM1900	661	1880	Front 10mm GPRS 1TX	29.92	31	0.22	**0.28**	0.137	**0.18**	-0.19
Body	F	GSM1900	810	1909.8	Rear 10mm GPRS 1TX	29.79	31	0.576	**0.76**	0.327	**0.43**	-0.16
Body	F	GSM1900	661	1880	Rear 10mm GPRS 1TX	29.92	31	0.728	**0.93**	0.412	**0.53**	0.14
Body	F	GSM1900	512	1850.2	Rear 10mm GPRS 1TX / Fig.A.4	29.95	31	0.935	**1.19**	0.53	**0.67**	0.02
Body	F	GSM1900	661	1880	Left Edge 10mm GPRS 1TX	29.92	31	0.31	**0.40**	0.17	**0.22**	-0.16
Body	F	GSM1900	661	1880	Top Edge 10mm GPRS 1TX	29.92	31	0.137	**0.18**	0.078	**0.10**	-0.01
Body	F	GSM1900	512	1850.2	Rear 10mm EGPRS 1TX	29.94	31	0.911	**1.16**	0.508	**0.65**	0.05
Body	F	GSM1900	512	1850.2	Rear 10mm GPRS 1TX B2	29.95	31	0.922	**1.17**	0.512	**0.65**	0.12

Table 14.1-5: SAR Values (WCDMA 1900 MHz Band - Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	WCDMA1900	9400	1880	RMC	18.73	20	0.221	**0.30**	0.138	**0.18**	-0.08
Tilt	L	WCDMA1900	9400	1880	RMC	18.73	20	0.163	**0.22**	0.091	**0.12**	0.02
Cheek	R	WCDMA1900	9538	1907.6	RMC / Fig.A.5	18.76	20	0.883	**1.17**	0.429	**0.57**	-0.06
Cheek	R	WCDMA1900	9400	1880	RMC	18.73	20	0.845	**1.13**	0.413	**0.55**	-0.01
Cheek	R	WCDMA1900	9262	1852.4	RMC	18.71	20	0.855	**1.15**	0.426	**0.57**	0.15
Tilt	R	WCDMA1900	9400	1880	RMC	18.73	20	0.346	**0.46**	0.172	**0.23**	0.16
Cheek	R	WCDMA1900	9538	1907.6	RMC B2	18.76	20	0.866	**1.15**	0.411	**0.55**	-0.09

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

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	WCDMA1900	9400	1880	Front 10mm	23.71	24	0.321	**0.34**	0.198	**0.21**	-0.03
Body	F	WCDMA1900	9538	1907.6	Rear 10mm	23.66	24	0.973	**1.05**	0.514	**0.56**	-0.12
Body	F	WCDMA1900	9400	1880	Rear 10mm	23.71	24	0.793	**0.85**	0.438	**0.47**	0.12
Body	F	WCDMA1900	9262	1852.4	Rear 10mm	23.58	24	1	**1.10**	0.563	**0.62**	0.04
Body	F	WCDMA1900	9538	1907.6	Left Edge 10mm / Fig.A.6	23.66	24	1.2	**1.30**	0.596	**0.64**	0.13
Body	F	WCDMA1900	9400	9400	Left Edge 10mm	23.71	24	0.906	**0.97**	0.449	**0.48**	-0.12
Body	F	WCDMA1900	9262	9262	Left Edge 10mm	23.58	24	0.913	**1.01**	0.453	**0.50**	0.06
Body	F	WCDMA1900	9400	1880	Top Edge 10mm	23.71	24	0.248	**0.27**	0.139	**0.15**	0.17
Body	F	WCDMA1900	9538	9538	Left Edge 10mm B2	23.66	24	1.12	**1.21**	0.521	**0.56**	0.03
Body	F	WCDMA1900	9538	9538	Left Edge 10mm Headset	23.66	24	1.09	**1.18**	0.514	**0.56**	0.12

Table 14.1-7: SAR Values (WCDMA 1700 MHz Band -Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	WCDMA1700	1412	1732.4	RMC	19.71	20.5	0.254	**0.30**	0.158	**0.19**	0.15
Cheek	L	WCDMA1700	1312	1712.4		19.71	20.5	<0.01	**<0.01**	<0.01	**<0.01**	/
Tilt	L	WCDMA1700	1412	1732.4	RMC	19.71	20.5	0.167	**0.20**	0.097	**0.12**	0.07
Cheek	R	WCDMA1700	1513	1752.6	RMC / Fig.A.7	19.75	20.5	1.1	**1.31**	0.521	**0.62**	0.01
Cheek	R	WCDMA1700	1412	1732.4	RMC	19.71	20.5	0.971	**1.16**	0.455	**0.55**	-0.07
Cheek	R	WCDMA1700	1312	1712.4	RMC	19.66	20.5	0.813	**0.99**	0.382	**0.46**	0.09
Tilt	R	WCDMA1700	1412	1732.4	RMC	19.71	20.5	0.336	**0.40**	0.178	**0.21**	0.1
Cheek	R	WCDMA1700	1513	1752.6	RMC B2	19.75	20.5	1.02	**1.21**	0.512	**0.61**	0.1

Table 14.1-8: SAR Values (WCDMA 1700 MHz Band -Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	WCDMA1700	1412	1732.5	Front 10mm	21.65	23	0.205	**0.28**	0.114	**0.16**	-0.12
Body	F	WCDMA1700	1513	1752.6	Rear 10mm / Fig.A.8	21.66	23	0.451	**0.61**	0.25	**0.34**	0.09
Body	F	WCDMA1700	1412	1732.5	Rear 10mm	21.65	23	0.417	**0.57**	0.233	**0.32**	-0.11
Body	F	WCDMA1700	1312	1712.4	Rear 10mm	21.58	23	0.363	**0.50**	0.2	**0.28**	0.06
Body	F	WCDMA1700	1412	1732.5	Left Edge 10mm	21.65	23	0.205	**0.28**	0.114	**0.16**	0.11
Body	F	WCDMA1700	1412	1732.5	Top Edge 10mm	21.65	23	0.149	**0.20**	0.083	**0.11**	-0.17
Body	F	WCDMA1700	1513	1752.6	Rear 10mm B2	21.66	23	0.436	**0.59**	0.237	**0.32**	-0.09

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

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	WCDMA 850	4233	846.6	RMC	22.33	22.5	0.834	**0.87**	0.512	**0.53**	-0.11
Cheek	L	WCDMA 850	4183	836.6	RMC	22.44	22.5	0.87	**0.88**	0.529	**0.54**	-0.18
Cheek	L	WCDMA 850	4132	826.4	RMC	22.47	22.5	0.903	**0.91**	0.556	**0.56**	0.12
Tilt	L	WCDMA 850	4233	846.6	RMC	22.33	22.5	0.821	**0.85**	0.489	**0.51**	0.03
Tilt	L	WCDMA 850	4183	836.6	RMC	22.44	22.5	0.838	**0.85**	0.455	**0.46**	-0.1
Tilt	L	WCDMA 850	4132	826.4	RMC	22.47	22.5	0.851	**0.86**	0.463	**0.47**	-0.09
Cheek	R	WCDMA 850	4233	846.6	RMC	22.33	22.5	1.04	**1.08**	0.576	**0.60**	0
Cheek	R	WCDMA 850	4183	836.6	RMC	22.44	22.5	1.13	**1.15**	0.623	**0.63**	-0.19
Cheek	R	WCDMA 850	4132	826.4	RMC / Fig.A.9	22.47	22.5	1.21	**1.22**	0.66	**0.66**	-0.01
Tilt	R	WCDMA 850	4233	846.6	RMC	22.33	22.5	0.989	**1.03**	0.571	**0.59**	0.06
Tilt	R	WCDMA 850	4183	836.6	RMC	22.44	22.5	1.09	**1.11**	0.602	**0.61**	-0.04
Tilt	R	WCDMA 850	4132	826.4	RMC	22.47	22.5	1.07	**1.08**	0.588	**0.59**	0.06
Cheek	R	WCDMA 850	4132	826.4	RMC B2	22.47	22.5	1.14	**1.15**	0.59	**0.59**	-0.11

Table 14.1-10: SAR Values (WCDMA 850 MHz Band -Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	WCDMA 850	4183	836.6	Front 10mm	24.39	25	0.456	**0.52**	0.242	**0.28**	-0.15
Body	F	WCDMA 850	4233	846.6	Rear 10mm	24.35	25	0.431	**0.50**	0.251	**0.29**	-0.06
Body	F	WCDMA 850	4183	836.6	Rear 10mm / Fig.A.10	24.39	25	0.486	**0.56**	0.279	**0.32**	-0.03
Body	F	WCDMA 850	4132	826.4	Rear 10mm	24.48	25	0.467	**0.53**	0.273	**0.31**	0.19
Body	F	WCDMA 850	4183	836.6	Left Edge 10mm	24.39	25	0.202	**0.23**	0.124	**0.14**	0.12
Body	F	WCDMA 850	4183	836.6	Top Edge 10mm	24.39	25	0.476	**0.55**	0.268	**0.31**	0.02
Body	F	WCDMA 850	4183	836.6	Rear 10mm B2	24.39	25	0.469	**0.54**	0.261	**0.30**	0.03

Table 14.1-11: SAR Values (LTE Band2 - Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band2	18900	1880	1RB-Mid	18.27	19.5	0.345	**0.46**	0.19	**0.25**	-0.11
Tilt	L	LTE Band2	18900	1880	1RB-Mid	18.27	19.5	0.183	**0.24**	0.091	**0.12**	0.07
Cheek	R	LTE Band2	19100	1900	1RB-Low	18.25	19.5	0.937	**1.25**	0.45	**0.60**	-0.14
Cheek	R	LTE Band2	18900	1880	1RB-Mid / Fig.A.11	18.27	19.5	0.965	**1.28**	0.463	**0.61**	0.14
Cheek	R	LTE Band2	18700	1860	1RB-Low	18.26	19.5	0.902	**1.20**	0.435	**0.58**	0.11
Tilt	R	LTE Band2	18900	1880	1RB-Mid	18.27	19.5	0.487	**0.65**	0.226	**0.30**	-0.09
Cheek	L	LTE Band2	18700	1860	50RB-Mid	18.4	19.5	0.361	**0.47**	0.201	**0.26**	0.06
Tilt	L	LTE Band2	18700	1860	50RB-Mid	18.4	19.5	0.182	**0.23**	0.093	**0.12**	0.04
Cheek	R	LTE Band2	19100	1900	50RB-High	18.33	19.5	0.959	**1.26**	0.452	**0.59**	0.14
Cheek	R	LTE Band2	18900	1880	50RB-Mid	18.39	19.5	0.963	**1.24**	0.46	**0.59**	0.04
Cheek	R	LTE Band2	18700	1860	50RB-Mid	18.4	19.5	0.944	**1.22**	0.453	**0.58**	0.18
Tilt	R	LTE Band2	18700	1860	50RB-Mid	18.4	19.5	0.517	**0.67**	0.198	**0.26**	0.09
Cheek	R	LTE Band2	18900	1880	100RB	18.39	19.5	0.962	**1.24**	0.458	**0.59**	0.01
Cheek	R	LTE Band2	18900	1880	1RB-Mid B2	18.27	19.5	0.929	**1.23**	0.436	**0.58**	0.1

Note: The LTE mode is QPSK_20MHz.

Table 14.1-12: SAR Values (LTE Band2 - Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band2	18700	1860	1RB-Mid Front 10mm	22.41	23.5	0.284	**0.37**	0.167	**0.21**	0.12
Body	F	LTE Band2	18700	1860	1RB-Mid Rear 10mm	22.41	23.5	0.575	**0.74**	0.321	**0.41**	-0.06
Body	F	LTE Band2	18700	1860	1RB-Mid Left Edge 10mm	22.41	23.5	0.526	**0.68**	0.277	**0.36**	-0.11
Body	F	LTE Band2	18700	1860	1RB-Middle Top 10mm	22.41	23.5	0.179	**0.23**	0.104	**0.13**	0.07
Body	F	LTE Band2	18900	1880	50RB-Mid Front 10mm	22.54	23.5	0.312	**0.39**	0.181	**0.23**	0.09
Body	F	LTE Band2	18900	1880	50RB-Mid Rear 10mm / Fig.A.12	22.54	23.5	0.607	**0.76**	0.334	**0.42**	-0.03
Body	F	LTE Band2	18900	1880	50RB-Mid Left 10mm	22.54	23.5	0.576	**0.72**	0.292	**0.36**	-0.14
Body	F	LTE Band2	18900	1880	50RB-Mid Top 10mm	22.54	23.5	0.189	**0.24**	0.108	**0.13**	-0.13
Body	F	LTE Band2	18900	1880	50RB-Mid Rear 10mm B2	22.54	23.5	0.593	**0.74**	0.318	**0.40**	-0.13

Note: The LTE mode is QPSK_20MHz.

Table 14.1-13: SAR Values (LTE Band4 - Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band4	20175	1732.5	1RB-Mid	20.28	21.5	0.369	**0.49**	0.213	**0.28**	-0.05
Tilt	L	LTE Band4	20175	1732.5	1RB-Mid	20.28	21.5	0.308	**0.41**	0.162	**0.21**	-0.12
Cheek	R	LTE Band4	20300	1745	1RB-High / Fig.A.13	20.21	21.5	1.01	**1.36**	0.488	**0.66**	0.06
Cheek	R	LTE Band4	20175	1732.5	1RB-Mid	20.28	21.5	0.903	**1.20**	0.427	**0.57**	-0.03
Cheek	R	LTE Band4	20050	1720	1RB-Low	20.25	21.5	0.827	**1.10**	0.397	**0.53**	0.05
Tilt	R	LTE Band4	20175	1732.5	1RB-Mid	20.28	21.5	0.324	**0.43**	0.156	**0.21**	0.03
Cheek	L	LTE Band4	20175	1732.5	50RB-High	20.4	21.5	0.364	**0.47**	0.209	**0.27**	0.01
Tilt	L	LTE Band4	20175	1732.5	50RB-High	20.4	21.5	0.22	**0.28**	0.122	**0.16**	0.19
Cheek	R	LTE Band4	20300	1745	50RB-Mid	20.36	21.5	0.889	**1.16**	0.437	**0.57**	-0.06
Cheek	R	LTE Band4	20175	1732.5	50RB-High	20.4	21.5	0.795	**1.02**	0.382	**0.49**	0.08
Cheek	R	LTE Band4	20050	1720	50RB-Mid	20.39	21.5	0.728	**0.94**	0.355	**0.46**	0.03
Tilt	R	LTE Band4	20175	1732.5	50RB-High	20.4	21.5	0.364	**0.47**	0.186	**0.24**	-0.16
Cheek	R	LTE Band4	20300	1745	100RB	20.31	21.5	0.988	**1.30**	0.471	**0.62**	0.12
Cheek	R	LTE Band4	20300	1745	1RB-High B2	20.21	21.5	0.962	**1.29**	0.468	**0.63**	0.01

Note: The LTE mode is QPSK_20MHz.

Table 14.1-14: SAR Values (LTE Band4 - Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band4	20050	1720	1RB-High Front 10mm	22.43	23.5	0.226	**0.29**	0.135	**0.17**	-0.11
Body	F	LTE Band4	20050	1720	1RB-High Rear 10mm	22.43	23.5	0.451	**0.58**	0.265	**0.34**	0.07
Body	F	LTE Band4	20300	1745	1RB-High Left Edge 10mm / Fig.A.14	22.39	23.5	0.738	**0.95**	0.379	**0.49**	0.03
Body	F	LTE Band4	20175	1732.5	1RB-High Left Edge 10mm	22.4	23.5	0.694	**0.89**	0.355	**0.46**	-0.06
Body	F	LTE Band4	20050	1720	1RB-High Left Edge 10mm	22.43	23.5	0.665	**0.85**	0.332	**0.42**	0.17
Body	F	LTE Band4	20300	1745	100RB Left Edge 10mm	22.49	23.5	0.712	**0.90**	0.365	**0.46**	0.08
Body	F	LTE Band4	20050	1720	1RB-High Top 10mm	22.43	23.5	0.175	**0.22**	0.1	**0.13**	0.12
Body	F	LTE Band4	20175	1732.5	50RB-Mid Front 10mm	22.52	23.5	0.229	**0.29**	0.136	**0.17**	-0.07
Body	F	LTE Band4	20175	1732.5	50RB-Mid Rear 10mm	22.52	23.5	0.488	**0.61**	0.275	**0.34**	0.12
Body	F	LTE Band4	20175	1732.5	50RB-Mid Left 10mm	22.52	23.5	0.632	**0.79**	0.321	**0.40**	-0.09
Body	F	LTE Band4	20175	1732.5	50RB-Mid Top 10mm	22.52	23.5	0.178	**0.22**	0.102	**0.13**	-0.05
Body	F	LTE Band4	20300	1745	1RB-High Left Edge 10mm B2	22.39	23.5	0.716	**0.92**	0.365	**0.47**	0.01

Note: The LTE mode is QPSK_20MHz.

Table 14.1-15: SAR Values (LTE Band5 - Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band5	20450	829	1RB-Middle	22.05	22.5	0.794	**0.88**	0.415	**0.46**	-0.04
Cheek	L	LTE Band5	20525	836.5	1RB-Low	22.04	22.5	0.727	**0.81**	0.384	**0.43**	0.13
Cheek	L	LTE Band5	20600	844	1RB-Low	22.04	22.5	0.694	**0.77**	0.364	**0.40**	0.05
Tilt	L	LTE Band5	20450	829	1RB-Middle	22.05	22.5	0.783	**0.87**	0.382	**0.42**	0
Tilt	L	LTE Band5	20525	836.5	1RB-Low	22.04	22.5	0.712	**0.79**	0.348	**0.39**	0.13
Tilt	L	LTE Band5	20600	844	1RB-Low	22.04	22.5	0.679	**0.75**	0.331	**0.37**	-0.03
Cheek	R	LTE Band5	20450	829	1RB-Middle	22.05	22.5	1.12	**1.24**	0.489	**0.54**	0.11
Cheek	R	LTE Band5	20525	836.5	1RB-Low	22.04	22.5	1.02	**1.13**	0.446	**0.50**	0.03
Cheek	R	LTE Band5	20600	844	1RB-Low	22.04	22.5	0.97	**1.08**	0.331	**0.37**	-0.14
Tilt	R	LTE Band5	20450	829	1RB-Middle	22.05	22.5	1.14	**1.26**	0.501	**0.56**	0.13
Tilt	R	LTE Band5	20525	836.5	1RB-Low	22.04	22.5	1.03	**1.15**	0.452	**0.50**	0.06
Tilt	R	LTE Band5	20600	844	1RB-Low	22.04	22.5	0.979	**1.09**	0.429	**0.48**	-0.11
Cheek	L	LTE Band5	20450	829	25RB-Mid	22.2	22.5	0.896	**0.96**	0.469	**0.50**	0.11
Cheek	L	LTE Band5	20525	836.5	25RB-Mid	22.09	22.5	0.821	**0.90**	0.433	**0.48**	0.09
Cheek	L	LTE Band5	20600	844	25RB-Mid	22.08	22.5	0.783	**0.86**	0.412	**0.45**	0.04
Tilt	L	LTE Band5	20450	829	25RB-Mid	22.2	22.5	0.818	**0.88**	0.399	**0.43**	-0.14
Tilt	L	LTE Band5	20525	836.5	25RB-Mid	22.09	22.5	0.749	**0.82**	0.369	**0.41**	0.09
Tilt	L	LTE Band5	20600	844	25RB-Mid	22.08	22.5	0.715	**0.79**	0.35	**0.39**	-0.04
Cheek	R	LTE Band5	20450	829	25RB-Mid	22.2	22.5	1.1	**1.18**	0.492	**0.53**	-0.09
Cheek	R	LTE Band5	20525	836.5	25RB-Mid	22.09	22.5	1.01	**1.11**	0.455	**0.50**	0.09
Cheek	R	LTE Band5	20600	844	25RB-Mid	22.08	22.5	0.961	**1.06**	0.432	**0.48**	0.14
Tilt	R	LTE Band5	20450	829	25RB-Mid / Fig.A.15	22.2	22.5	1.19	**1.28**	0.515	**0.55**	0.01
Tilt	R	LTE Band5	20525	836.5	25RB-High	22.15	22.5	1.09	**1.18**	0.476	**0.52**	-0.06
Tilt	R	LTE Band5	20600	844	25RB-High	22.07	22.5	1.04	**1.15**	0.452	**0.50**	-0.16
Cheek	L	LTE Band5	20450	829	50RB	22.17	22.5	0.875	**0.94**	0.435	**0.47**	-0.08
Tilt	L	LTE Band5	20450	829	50RB	22.17	22.5	0.786	**0.85**	0.376	**0.41**	0.09
Cheek	R	LTE Band5	20450	829	50RB	22.17	22.5	0.989	**1.07**	0.456	**0.49**	-0.09
Tilt	R	LTE Band5	20450	829	50RB	22.17	22.5	1.08	**1.17**	0.471	**0.51**	0.01
Tilt	R	LTE Band5	20450	829	25RB-Mid B2	22.2	22.5	1.14	**1.22**	0.483	**0.52**	-0.01

Note: The LTE mode is QPSK_10MHz.

Table 14.1-16: SAR Values (LTE Band5 - Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band5	20450	829	1RB-Low Front 10mm	24.19	25	0.363	**0.44**	0.194	**0.23**	0.02
Body	F	LTE Band5	20450	829	1RB-Low Rear 10mm / Fig.A.16	24.19	25	0.376	**0.45**	0.222	**0.27**	-0.05
Body	F	LTE Band5	20450	829	1RB-Low Left Edge 10mm	24.19	25	0.236	**0.28**	0.145	**0.17**	-0.12
Body	F	LTE Band5	20450	829	1RB-Low Top Edge 10mm	24.19	25	0.278	**0.33**	0.124	**0.15**	0.19
Body	F	LTE Band5	20450	829	25RB-Mid Front 10mm	23.26	24	0.31	**0.37**	0.162	**0.19**	-0.09
Body	F	LTE Band5	20450	829	25RB-Mid Rear 10mm	23.26	24	0.287	**0.34**	0.173	**0.21**	-0.07
Body	F	LTE Band5	20450	829	25RB-Mid Left Edge 10mm	23.26	24	0.221	**0.26**	0.138	**0.16**	-0.1
Body	F	LTE Band5	20450	829	25RB-Mid Top Edge 10mm	23.26	24	0.238	**0.28**	0.107	**0.13**	-0.15
Body	F	LTE Band5	20450	829	1RB-Low Rear 10mm B2	24.19	25	0.35	**0.42**	0.174	**0.21**	0.05

Note: The LTE mode is QPSK_10MHz.

Table 14.1-17: SAR Values (LTE Band7 - Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band7	21100	2535	1RB-High / Fig.A.17	23.73	25	0.191	**0.26**	0.101	**0.14**	-0.05
Tilt	L	LTE Band7	21100	2535	1RB-High	23.73	25	0.072	**0.10**	0.036	**0.05**	0.05
Cheek	R	LTE Band7	21100	2535	1RB-High	23.73	25	0.107	**0.14**	0.058	**0.08**	0
Tilt	R	LTE Band7	21100	2535	1RB-High	23.73	25	0.056	**0.08**	0.028	**0.04**	-0.12
Cheek	L	LTE Band7	21350	2560	50RB-Mid	22.83	24	0.155	**0.20**	0.077	**0.10**	0.06
Tilt	L	LTE Band7	21350	2560	50RB-Mid	22.83	24	0.052	**0.07**	0.027	**0.04**	-0.01
Cheek	R	LTE Band7	21350	2560	50RB-Mid	22.83	24	0.121	**0.16**	0.067	**0.09**	-0.06
Tilt	R	LTE Band7	21350	2560	50RB-Mid	22.83	24	0.062	**0.08**	0.031	**0.04**	-0.11
Cheek	L	LTE Band7	21100	2535	1RB-High B2	23.73	25	0.167	**0.22**	0.079	**0.11**	-0.02

Note: The LTE mode is QPSK_20MHz.

Table 14.1-18: SAR Values (LTE Band7 - Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band7	21100	2535	1RB-High Front 10mm	21.68	23	0.316	**0.43**	0.151	**0.20**	0.12
Body	F	LTE Band7	21350	2560	1RB-High Rear 10mm / Fig.A.18	21.66	23	0.859	**1.17**	0.375	**0.51**	-0.07
Body	F	LTE Band7	21100	2535	1RB-High Rear 10mm	21.68	23	0.785	**1.06**	0.34	**0.46**	-0.03
Body	F	LTE Band7	20850	2510	1RB-High Rear 10mm	21.65	23	0.71	**0.97**	0.304	**0.41**	0.07
Body	F	LTE Band7	21100	2535	1RB-High Left Edge 10mm	21.68	23	0.322	**0.44**	0.151	**0.20**	-0.14
Body	F	LTE Band7	21100	2535	1RB-High Bottom Edge 10mm	21.68	23	0.468	**0.63**	0.221	**0.30**	-0.12
Body	F	LTE Band7	20850	2510	50RB-High Front 10mm	21.81	23	0.298	**0.39**	0.145	**0.19**	0.08
Body	F	LTE Band7	21350	2560	50RB-High Rear 10mm	21.66	23	0.834	**1.14**	0.363	**0.49**	0.16
Body	F	LTE Band7	21100	2535	50RB-High Rear 10mm	21.65	23	0.766	**1.05**	0.326	**0.44**	0.18
Body	F	LTE Band7	20850	2510	50RB-High Rear 10mm	21.81	23	0.737	**0.97**	0.319	**0.42**	-0.11
Body	F	LTE Band7	20850	2510	50RB-High Left 10mm	21.81	23	0.326	**0.43**	0.15	**0.20**	0.02
Body	F	LTE Band7	20850	2510	50RB-High Bottom 10mm	21.81	23	0.439	**0.58**	0.206	**0.27**	0.06
Body	F	LTE Band7	21350	2560	100RB Rear 10mm	21.81	23	0.844	**1.11**	0.365	**0.48**	0.06
Body	F	LTE Band7	21350	2560	1RB-High Rear 10mm B2	21.66	23	0.841	**1.14**	0.345	**0.47**	0.07

Note: The LTE mode is QPSK_20MHz.

Table 14.1-19: SAR Values (LTE Band12 – Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band12	23130	711	1RB-Low	21.84	23	0.788	**1.03**	0.41	**0.54**	0.13
Cheek	L	LTE Band12	23095	707.5	1RB-Low	21.77	23	0.812	**1.08**	0.395	**0.52**	0.06
Cheek	L	LTE Band12	23060	704	1RB-Low	21.71	23	0.831	**1.12**	0.401	**0.54**	-0.03
Tilt	L	LTE Band12	23130	711	1RB-Low	21.84	23	0.643	**0.84**	0.341	**0.45**	0.11
Tilt	L	LTE Band12	23095	707.5	1RB-Low	21.77	23	0.662	**0.88**	0.355	**0.47**	-0.09
Tilt	L	LTE Band12	23060	704	1RB-Low	21.71	23	0.678	**0.91**	0.361	**0.49**	0.03
Cheek	R	LTE Band12	23130	711	1RB-Low	21.84	23	0.93	**1.21**	0.475	**0.62**	0.16
Cheek	R	LTE Band12	23095	707.5	1RB-Low	21.77	23	0.662	**0.88**	0.493	**0.65**	0.06
Cheek	R	LTE Band12	23060	704	1RB-Low	21.71	23	0.678	**0.91**	0.502	**0.68**	0.14
Tilt	R	LTE Band12	23130	711	1RB-Low	21.84	23	0.86	**1.12**	0.383	**0.50**	0.17
Tilt	R	LTE Band12	23095	707.5	1RB-Low	21.77	23	0.662	**0.88**	0.398	**0.53**	-0.01
Tilt	R	LTE Band12	23060	704	1RB-Low	21.71	23	0.678	**0.91**	0.404	**0.54**	0.12
Cheek	L	LTE Band12	23130	711	25RB-High	21.86	23	0.714	**0.93**	0.39	**0.51**	-0.06
Cheek	L	LTE Band12	23095	707.5	25RB-High	21.87	23	0.735	**0.95**	0.405	**0.53**	-0.19
Cheek	L	LTE Band12	23060	704	25RB-High	21.85	23	0.753	**0.98**	0.412	**0.54**	0.13
Tilt	L	LTE Band12	23130	711	25RB-High	21.86	23	0.635	**0.83**	0.332	**0.43**	-0.03
Tilt	L	LTE Band12	23095	707.5	25RB-High	21.87	23	0.654	**0.85**	0.345	**0.45**	0.17
Tilt	L	LTE Band12	23060	704	25RB-High	21.85	23	0.67	**0.87**	0.351	**0.46**	0.12
Cheek	R	LTE Band12	23130	711	25RB-High	21.86	23	0.923	**1.20**	0.365	**0.47**	-0.09
Cheek	R	LTE Band12	23095	707.5	25RB-High	21.87	23	0.951	**1.23**	0.409	**0.53**	-0.06
Cheek	R	LTE Band12	23060	704	25RB-High	21.85	23	0.966	**1.26**	0.381	**0.50**	0.12
Tilt	R	LTE Band12	23130	711	25RB-High	21.86	23	0.932	**1.21**	0.412	**0.54**	0.12
Tilt	R	LTE Band12	23095	707.5	25RB-High	21.87	23	0.96	**1.25**	0.428	**0.56**	-0.01
Tilt	R	LTE Band12	23060	704	25RB-Mid / Fig.A.19	21.84	23	0.983	**1.28**	0.435	**0.57**	-0.02
Cheek	L	LTE Band12	23060	704	50RB	21.85	23	0.742	**0.97**	0.401	**0.52**	-0.09
Tilt	L	LTE Band12	23060	704	50RB	21.85	23	0.655	**0.85**	0.346	**0.45**	-0.09
Cheek	R	LTE Band12	23060	704	50RB	21.85	23	0.953	**1.24**	0.375	**0.49**	-0.03
Tilt	R	LTE Band12	23060	704	50RB	21.84	23	0.965	**1.26**	0.423	**0.55**	-0.09
Tilt	R	LTE Band12	23060	704	25RB-Mid B2	21.84	23	0.955	**1.25**	0.391	**0.51**	-0.06

Note: The LTE mode is QPSK_10MHz.

Table 14.1-20: SAR Values (LTE Band12 – Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band12	23060	704	1RB-Low Front 10mm / Fig.A.20	23.88	25	0.379	**0.49**	0.214	**0.28**	-0.05
Body	F	LTE Band12	23060	704	1RB-Low Rear 10mm	23.88	25	0.291	**0.38**	0.22	**0.28**	0.19
Body	F	LTE Band12	23060	704	1RB-Low Left Edge 10mm	23.88	25	0.35	**0.45**	0.22	**0.28**	0.19
Body	F	LTE Band12	23060	704	1RB-Low Top Edge 10mm	23.88	25	0.283	**0.37**	0.137	**0.18**	-0.08
Body	F	LTE Band12	23095	707.5	25RB-High Front 10mm	22.86	24	0.348	**0.45**	0.197	**0.26**	-0.16
Body	F	LTE Band12	23095	707.5	25RB-High Rear 10mm	22.86	24	0.242	**0.31**	0.131	**0.17**	-0.19
Body	F	LTE Band12	23095	707.5	25RB-High Left Edge 10mm	22.86	24	0.286	**0.37**	0.19	**0.25**	0.06
Body	F	LTE Band12	23095	707.5	25RB-High Top Edge 10mm	22.86	24	0.266	**0.35**	0.129	**0.17**	0.17
Body	F	LTE Band12	23060	704	1RB-Low Front 10mm B2	23.88	25	0.327	**0.42**	0.164	**0.21**	0.05

Note: The LTE mode is QPSK_10MHz.

Table 14.1-21: SAR Values (LTE Band13 – Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band13	23230	782	1RB-Middle	21.95	23	0.745	**0.95**	0.4	**0.51**	-0.04
Tilt	L	LTE Band13	23230	782	1RB-Middle	21.95	23	0.685	**0.87**	0.341	**0.43**	-0.07
Cheek	R	LTE Band13	23230	782	1RB-Middle	21.95	23	0.86	**1.10**	0.461	**0.59**	0.19
Tilt	R	LTE Band13	23230	782	1RB-Middle	21.95	23	0.962	**1.23**	0.424	**0.54**	0.04
Cheek	L	LTE Band13	23230	782	25RB-High	22.01	23	0.729	**0.92**	0.389	**0.49**	-0.06
Tilt	L	LTE Band13	23230	782	25RB-High	22.01	23	0.682	**0.86**	0.343	**0.43**	-0.19
Cheek	R	LTE Band13	23230	782	25RB-High	22.01	23	0.963	**1.21**	0.483	**0.61**	-0.15
Tilt	R	LTE Band13	23230	782	25RB-High / Fig.A.21	22.01	23	0.986	**1.24**	0.436	**0.55**	-0.01
Tilt	R	LTE Band13	23230	782	50RB	21.95	23	0.961	**1.22**	0.416	**0.53**	0.09
Tilt	R	LTE Band13	23230	782	25RB-High B2	22.01	23	0.942	**1.18**	0.38	**0.48**	-0.09

Note: The LTE mode is QPSK_10MHz.

Table 14.1-22: SAR Values (LTE Band13 – Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band13	23230	782	1RB-Middle Front 10mm	23.8	25	0.329	**0.43**	0.214	**0.28**	0.04
Body	F	LTE Band13	23230	782	1RB-Middle Rear 10mm / Fig.A.22	23.8	25	0.333	**0.44**	0.251	**0.33**	-0.01
Body	F	LTE Band13	23230	782	1RB-Middle Left Edge 10mm	23.8	25	0.275	**0.36**	0.206	**0.27**	0.08
Body	F	LTE Band13	23230	782	1RB-Middle Top Edge 10mm	23.8	25	0.264	**0.35**	0.142	**0.19**	0.14
Body	F	LTE Band13	23230	782	25RB-High Front 10mm	23.02	24	0.271	**0.34**	0.204	**0.26**	0.04
Body	F	LTE Band13	23230	782	25RB-High Rear 10mm	23.02	24	0.273	**0.34**	0.204	**0.26**	0.05
Body	F	LTE Band13	23230	782	25RB-High Left Edge 10mm	23.02	24	0.266	**0.33**	0.174	**0.22**	0.07
Body	F	LTE Band13	23230	782	25RB-High Top Edge 10mm	23.02	24	0.22	**0.28**	0.118	**0.15**	-0.08
Body	F	LTE Band13	23230	782	1RB-Middle Rear 10mm B2	23.8	25	0.275	**0.36**	0.209	**0.28**	-0.02

Note: The LTE mode is QPSK_10MHz.

Table 14.1-23: SAR Values (LTE Band14 – Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band14	23330	793	1RB-Low	21.82	23	0.692	**0.91**	0.375	**0.49**	-0.02
Tilt	L	LTE Band14	23330	793	1RB-Low	21.82	23	0.655	**0.86**	0.322	**0.42**	-0.18
Cheek	R	LTE Band14	23330	793	1RB-Low	21.82	23	0.87	**1.14**	0.444	**0.58**	-0.15
Tilt	R	LTE Band14	23330	793	1RB-Low / Fig.A.23	21.82	23	0.927	**1.22**	0.411	**0.54**	-0.06
Cheek	L	LTE Band14	23330	793	25RB-Low	21.98	23	0.691	**0.87**	0.369	**0.47**	-0.06
Tilt	L	LTE Band14	23330	793	25RB-Low	21.98	23	0.641	**0.81**	0.317	**0.40**	-0.16
Cheek	R	LTE Band14	23330	793	25RB-Low	21.98	23	0.9	**1.14**	0.437	**0.55**	0.11
Tilt	R	LTE Band14	23330	793	25RB-Low	21.98	23	0.903	**1.14**	0.393	**0.50**	0.03
Tilt	R	LTE Band14	23330	793	50RB	21.94	23	0.905	**1.16**	0.389	**0.50**	-0.11
Tilt	R	LTE Band14	23330	793	1RB-Low B2	21.82	23	0.887	**1.16**	0.357	**0.47**	-0.08

Note: The LTE mode is QPSK_10MHz.

Table 14.1-24: SAR Values (LTE Band14 – Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band14	23330	793	1RB-Middle Front 10mm	22.81	24	0.275	**0.36**	0.181	**0.24**	0.08
Body	F	LTE Band14	23330	793	1RB-Middle Rear 10mm / Fig.A.24	22.81	24	0.286	**0.38**	0.214	**0.28**	-0.03
Body	F	LTE Band14	23330	793	1RB-Middle Left Edge 10mm	22.81	24	0.269	**0.35**	0.201	**0.26**	0.16
Body	F	LTE Band14	23330	793	1RB-Middle Top Edge 10mm	22.81	24	0.23	**0.30**	0.127	**0.17**	0.09
Body	F	LTE Band14	23330	793	25RB-Mid Front 10mm	22.02	23	0.224	**0.28**	0.149	**0.19**	0.1
Body	F	LTE Band14	23330	793	25RB-Mid Rear 10mm	22.02	23	0.23	**0.29**	0.171	**0.21**	0.03
Body	F	LTE Band14	23330	793	25RB-Mid Left Edge 10mm	22.02	23	0.201	**0.25**	0.151	**0.19**	-0.07
Body	F	LTE Band14	23330	793	25RB-Mid Top Edge 10mm	22.02	23	0.185	**0.23**	0.103	**0.13**	-0.09
Body	F	LTE Band14	23330	793	1RB-Middle Rear 10mm B2	22.81	24	0.262	**0.34**	0.192	**0.25**	-0.02

Note: The LTE mode is QPSK_10MHz.

Table 14.1-25: SAR Values (LTE Band25 –Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band25	26365	1882.5	1RB-High	18.31	19.5	0.317	**0.42**	0.163	**0.21**	0.03
Tilt	L	LTE Band25	26365	1882.5	1RB-High	18.31	19.5	0.184	**0.24**	0.086	**0.11**	0.12
Cheek	R	LTE Band25	26590	1905	1RB-Mid	18.22	19.5	0.989	**1.33**	0.475	**0.64**	-0.13
Cheek	R	LTE Band25	26365	1882.5	1RB-High	18.31	19.5	0.954	**1.25**	0.375	**0.49**	0.06
Cheek	R	LTE Band25	26140	1860	1RB-High	18.28	19.5	0.916	**1.21**	0.364	**0.48**	0.12
Tilt	R	LTE Band25	26365	1882.5	1RB-High	18.31	19.5	0.482	**0.63**	0.228	**0.30**	0.09
Cheek	L	LTE Band25	26140	1860	50RB-Mid	18.46	19.5	0.208	**0.26**	0.113	**0.14**	-0.07
Tilt	L	LTE Band25	26140	1860	50RB-Mid	18.46	19.5	0.184	**0.23**	0.095	**0.12**	0.03
Cheek	R	LTE Band25	26590	1905	50RB-Mid	18.41	19.5	1.03	**1.32**	0.471	**0.61**	0.13
Cheek	R	LTE Band25	26365	1882.5	50RB-Mid	18.45	19.5	0.957	**1.22**	0.379	**0.48**	-0.14
Cheek	R	LTE Band25	26140	1860	50RB-Mid / Fig.A.25	18.46	19.5	1.06	**1.35**	0.493	**0.63**	-0.05
Tilt	R	LTE Band25	26140	1860	50RB-Mid	18.46	19.5	0.442	**0.56**	0.212	**0.27**	-0.12
Cheek	R	LTE Band25	26140	1860	100RB	18.42	19.5	1.04	**1.33**	0.478	**0.61**	0.09
Cheek	R	LTE Band25	26140	1860	50RB-Mid B2	18.46	19.5	1.04	**1.32**	0.474	**0.60**	-0.04

Note: The LTE mode is QPSK_20MHz.

Table 14.1-26: SAR Values (LTE Band25 –Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band25	26590	1905	1RB-High Front 10mm	23.49	24.5	0.362	**0.46**	0.222	**0.28**	-0.11
Body	F	LTE Band25	26590	1905	1RB-High Rear 10mm	23.49	24.5	0.893	**1.13**	0.489	**0.62**	0.06
Body	F	LTE Band25	26365	1882.5	1RB-Mid Rear 10mm / Fig.A.26	23.44	24.5	0.916	**1.17**	0.492	**0.63**	-0.02
Body	F	LTE Band25	26365	1860	1RB-High Rear 10mm	23.47	24.5	0.763	**0.97**	0.429	**0.54**	-0.1
Body	F	LTE Band25	26590	1905	1RB-High Left Edge 10mm	23.49	24.5	0.838	**1.06**	0.429	**0.54**	-0.05
Body	F	LTE Band25	26590	1905	1RB-High Top Edge 10mm	23.49	24.5	0.256	**0.32**	0.14	**0.18**	0.03
Body	F	LTE Band25	26365	1882.5	50RB-Mid Front 10mm	22.65	23.5	0.337	**0.41**	0.203	**0.25**	0.02
Body	F	LTE Band25	26365	1882.5	50RB-Mid Rear 10mm	22.65	23.5	0.693	**0.84**	0.381	**0.46**	-0.09
Body	F	LTE Band25	26365	1882.5	50RB-Mid Left Edge 10mm	22.65	23.5	0.499	**0.61**	0.272	**0.33**	-0.09
Body	F	LTE Band25	26365	1882.5	50RB-Mid Top Edge 10mm	22.65	23.5	0.185	**0.22**	0.102	**0.12**	-0.07
Body	F	LTE Band25	26365	1882.5	100RB Rear 10mm	22.64	23.5	0.703	**0.86**	0.391	**0.48**	0.13
Body	F	LTE Band25	26365	1882.5	1RB-Mid Rear 10mm B2	23.44	24.5	0.898	**1.15**	0.44	**0.56**	-0.03

Note: The LTE mode is QPSK_20MHz.

Table 14.1-27: SAR Values (LTE Band26–Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band26	26865	831.5	1RB-Low	20.69	22	0.589	**0.80**	0.354	**0.48**	0.11
Tilt	L	LTE Band26	26865	831.5	1RB-Low	20.69	22	0.554	**0.75**	0.306	**0.41**	-0.02
Cheek	R	LTE Band26	26965	841.5	1RB-Low	20.66	22	0.776	**1.06**	0.419	**0.57**	0.15
Cheek	R	LTE Band26	26865	831.5	1RB-Low	20.69	22	0.775	**1.05**	0.414	**0.56**	0.06
Cheek	R	LTE Band26	26775	822.5	1RB-Low	20.62	22	0.821	**1.13**	0.438	**0.60**	0.16
Tilt	R	LTE Band26	26965	841.5	1RB-Low	20.66	22	0.821	**1.12**	0.438	**0.60**	0.12
Tilt	R	LTE Band26	26865	831.5	1RB-Low	20.69	22	0.844	**1.14**	0.394	**0.53**	0.07
Tilt	R	LTE Band26	26775	822.5	1RB-Low	20.62	22	0.836	**1.15**	0.393	**0.54**	-0.11
Cheek	L	LTE Band26	26965	841.5	36RB-High	20.76	22	0.562	**0.75**	0.332	**0.44**	0.13
Cheek	L	LTE Band26	26865	831.5	36RB-High	20.76	22	0.6	**0.80**	0.351	**0.47**	-0.03
Cheek	L	LTE Band26	26775	822.5	36RB-High	20.79	22	0.649	**0.86**	0.378	**0.50**	0.08
Tilt	L	LTE Band26	26775	822.5	36RB-High	20.79	22	0.588	**0.78**	0.323	**0.43**	-0.12
Cheek	R	LTE Band26	26965	841.5	36RB-High	20.76	22	0.742	**0.99**	0.399	**0.53**	-0.06
Cheek	R	LTE Band26	26865	831.5	36RB-High	20.76	22	0.804	**1.07**	0.432	**0.57**	0.12
Cheek	R	LTE Band26	26775	822.5	36RB-High	20.79	22	0.811	**1.07**	0.436	**0.58**	0.02
Tilt	R	LTE Band26	26965	841.5	36RB-High	20.76	22	0.748	**1.00**	0.354	**0.47**	0.13
Tilt	R	LTE Band26	26865	831.5	36RB-High	20.76	22	0.804	**1.07**	0.432	**0.57**	0.15
Tilt	R	LTE Band26	26775	822.5	36RB-High / Fig.A.27	20.79	22	0.877	**1.16**	0.41	**0.54**	0.04
Cheek	L	LTE Band26	26775	822.5	75RB	20.77	22	0.649	**0.86**	0.378	**0.50**	0.08
Cheek	R	LTE Band26	26775	822.5	75RB	20.77	22	0.802	**1.06**	0.428	**0.57**	-0.09
Tilt	R	LTE Band26	26775	822.5	75RB	20.77	22	0.865	**1.15**	0.389	**0.52**	-0.04
Tilt	R	LTE Band26	26775	822.5	36RB-High B2	20.79	22	0.859	**1.13**	0.396	**0.52**	0.02

Note: The LTE mode is QPSK_15MHz.

Table 14.1-28: SAR Values (LTE Band26–Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band26	26775	822.5	1RB-Low Front 10mm / Fig.A.28	22.98	24	0.29	**0.37**	0.165	**0.21**	-0.03
Body	F	LTE Band26	26775	822.5	1RB-Low Rear 10mm	22.98	24	0.265	**0.34**	0.158	**0.20**	0.11
Body	F	LTE Band26	26775	822.5	1RB-Low Left Edge 10mm	22.98	24	0.209	**0.26**	0.139	**0.18**	-0.03
Body	F	LTE Band26	26775	822.5	1RB-Low Top Edge 10mm	22.98	24	0.229	**0.29**	0.108	**0.14**	-0.16
Body	F	LTE Band26	26775	822.5	36RB-High Front 10mm	22.04	23	0.268	**0.33**	0.152	**0.19**	-0.1
Body	F	LTE Band26	26775	822.5	36RB-High Rear 10mm	22.04	23	0.254	**0.32**	0.154	**0.19**	0.04
Body	F	LTE Band26	26775	822.5	36RB-High Left Edge 10mm	22.04	23	0.182	**0.23**	0.12	**0.15**	0.04
Body	F	LTE Band26	26775	822.5	36RB-High Top Edge 10mm	22.04	23	0.206	**0.26**	0.097	**0.12**	0.01
Body	F	LTE Band26	26775	822.5	1RB-Low Front 10mm B2	22.98	24	0.274	**0.35**	0.135	**0.17**	-0.01

Note: The LTE mode is QPSK_15MHz.

Table 14.1-29: SAR Values (LTE Band30–Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band30	27710	2310	1RB-High / Fig.A.29	22.99	24	0.072	**0.09**	0.04	**0.05**	0.04
Tilt	L	LTE Band30	27710	2310	1RB-High	22.99	24	0.031	**0.04**	0.018	**0.02**	-0.17
Cheek	R	LTE Band30	27710	2310	1RB-High	22.99	24	0.039	**0.05**	0.025	**0.03**	-0.17
Tilt	R	LTE Band30	27710	2310	1RB-High	22.99	24	0.034	**0.04**	0.02	**0.03**	0.02
Cheek	L	LTE Band30	27710	2310	25RB-Mid	21.98	23	0.053	**0.07**	0.03	**0.04**	-0.07
Tilt	L	LTE Band30	27710	2310	25RB-Mid	21.98	23	<0.01	**<0.01**	<0.01	**<0.01**	/
Cheek	R	LTE Band30	27710	2310	25RB-Mid	21.98	23	0.029	**0.04**	0.018	**0.02**	0.19
Tilt	R	LTE Band30	27710	2310	25RB-Mid	21.98	23	<0.01	**<0.01**	<0.01	**<0.01**	/
Cheek	L	LTE Band30	27710	2310	1RB-High B2	22.99	24	0.056	**0.07**	0.021	**0.03**	0.02

Note: The LTE mode is QPSK_10MHz.

Table 14.1-30: SAR Values (LTE Band30–Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band30	27710	2310	1RB-High Front 10mm	22.99	24	0.259	**0.33**	0.129	**0.16**	0.05
Body	F	LTE Band30	27710	2310	1RB-High Rear 10mm / Fig.A.30	22.99	24	0.554	**0.70**	0.243	**0.31**	-0.07
Body	F	LTE Band30	27710	2310	1RB-High Left Edge 10mm	22.99	24	0.284	**0.36**	0.139	**0.18**	0.11
Body	F	LTE Band30	27710	2310	1RB-High Bottom Edge 10mm	22.99	24	0.095	**0.12**	0.05	**0.06**	-0.02
Body	F	LTE Band30	27710	2310	25RB-Mid Front 10mm	21.98	23	0.22	**0.28**	0.11	**0.14**	-0.15
Body	F	LTE Band30	27710	2310	25RB-Mid Rear 10mm	21.98	23	0.501	**0.63**	0.22	**0.28**	-0.1
Body	F	LTE Band30	27710	2310	25RB-Mid Left 10mm	21.98	23	0.244	**0.31**	0.119	**0.15**	-0.13
Body	F	LTE Band30	27710	2310	25RB-Mid Bottom 10mm	21.98	23	0.091	**0.12**	0.049	**0.06**	-0.08
Body	F	LTE Band30	27710	2310	1RB-High Rear 10mm B2	22.99	24	0.516	**0.65**	0.201	**0.25**	-0.07

Note: The LTE mode is QPSK_10MHz.

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

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band41	40620	2593	1RB-High	22.88	24	0.072	**0.09**	0.036	**0.05**	-0.06
Tilt	L	LTE Band41	40620	2593	1RB-High	22.88	24	0.023	**0.03**	0.032	**0.04**	0.02
Cheek	R	LTE Band41	40620	2593	1RB-High	22.88	24	0.049	**0.06**	0.026	**0.03**	-0.07
Tilt	R	LTE Band41	40620	2593	1RB-High	22.88	24	0.029	**0.04**	0.013	**0.02**	-0.04
Cheek	L	LTE Band41	40620	2593	50RB-Low	21.85	23	0.051	**0.07**	0.026	**0.03**	0.18
Tilt	L	LTE Band41	40620	2593	50RB-Low	21.85	23	<0.01	**<0.01**	<0.01	**<0.01**	/
Cheek	R	LTE Band41	40620	2593	50RB-Low	21.85	23	0.024	**0.03**	0.013	**0.02**	-0.18
Tilt	R	LTE Band41	40620	2593	50RB-Low	21.85	23	0.027	**0.04**	0.014	**0.02**	-0.08
Cheek	L	LTE Band41	41490	2680	UL CA / Fig.A.31	23.8	24	0.168	**0.18**	0.0816	**0.09**	0.06
Cheek	L	LTE Band41	41490	2680	UL CA B2	23.8	24	0.142	**0.15**	0.0653	**0.07**	0.08

Note: The LTE mode is QPSK_20MHz.

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

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band41	40620	2593	1RB-High Front 10mm	22.88	24	0.339	**0.44**	0.167	**0.22**	0.06
Body	F	LTE Band41	40620	2593	1RB-High Rear 10mm / Fig.A.32	22.88	24	0.534	**0.69**	0.246	**0.32**	0.02
Body	F	LTE Band41	40620	2593	1RB-High Left Edge 10mm	22.88	24	0.219	**0.28**	0.102	**0.13**	-0.13
Body	F	LTE Band41	40620	2593	1RB-High Bottom Edge 10mm	22.88	24	0.442	**0.57**	0.21	**0.27**	0.09
Body	F	LTE Band41	40620	2593	50RB-Low Front 10mm	21.85	23	0.258	**0.34**	0.129	**0.17**	-0.16
Body	F	LTE Band41	40620	2593	50RB-Low Rear 10mm	21.85	23	0.438	**0.57**	0.19	**0.25**	0.09
Body	F	LTE Band41	40620	2593	50RB-Low Left 10mm	21.85	23	0.175	**0.23**	0.082	**0.11**	-0.16
Body	F	LTE Band41	40620	2593	50RB-Low Bottom 10mm	21.85	23	0.332	**0.43**	0.162	**0.21**	0.11
Body	F	LTE Band41	41490	2680	UL CA Rear 10mm	23.8	24	0.654	**0.68**	0.249	**0.26**	0.02
Body	F	LTE Band41	40620	2593	1RB-High Rear 10mm B2	22.88	24	0.516	**0.67**	0.23	**0.30**	0.06

Note: The LTE mode is QPSK_20MHz.

Table 14.1-33: SAR Values (LTE Band48–Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band48	56640	3690	1RB-Low	22.28	23	0.906	**1.07**	0.383	**0.45**	0.08
Cheek	L	LTE Band48	55990	3625	1RB-High	22.19	23	0.86	**1.04**	0.377	**0.45**	0.13
Cheek	L	LTE Band48	55340	3560	1RB-High	22.2	23	0.738	**0.89**	0.325	**0.39**	-0.19
Tilt	L	LTE Band48	56640	3690	1RB-Low	22.28	23	0.169	**0.20**	0.074	**0.09**	0.11
Cheek	R	LTE Band48	56640	3690	1RB-Low	22.28	23	0.96	**1.13**	0.379	**0.45**	0.06
Cheek	R	LTE Band48	55990	3625	1RB-High	22.19	23	0.914	**1.10**	0.367	**0.44**	-0.03
Cheek	R	LTE Band48	55340	3560	1RB-High	22.2	23	0.768	**0.92**	0.306	**0.37**	0.05
Tilt	R	LTE Band48	56640	3690	1RB-Low	22.28	23	0.324	**0.38**	0.135	**0.16**	0.07
Cheek	L	LTE Band48	56640	3690	50RB-Mid	22.41	23	0.929	**1.06**	0.39	**0.45**	0.09
Cheek	L	LTE Band48	55990	3625	50RB-Mid	22.21	23	0.914	**1.10**	0.401	**0.48**	-0.12
Cheek	L	LTE Band48	55340	3560	50RB-Mid	22.4	23	0.782	**0.90**	0.342	**0.39**	0.16
Tilt	L	LTE Band48	56640	3690	50RB-Mid	22.48	23	0.177	**0.20**	0.075	**0.08**	0.1
Cheek	R	LTE Band48	56640	3690	50RB-Mid / Fig.A.33	22.48	23	1.03	**1.16**	0.412	**0.46**	-0.19
Cheek	R	LTE Band48	55990	3625	50RB-High	22.21	23	0.968	**1.16**	0.386	**0.46**	0.03
Cheek	R	LTE Band48	55340	3560	50RB-High	22.4	23	0.829	**0.95**	0.329	**0.38**	-0.02
Tilt	R	LTE Band48	56640	3690	50RB-Mid	22.48	23	0.315	**0.36**	0.135	**0.15**	0.15
Cheek	L	LTE Band48	56640	3690	100RB	22.49	23	0.867	**0.98**	0.381	**0.43**	0.12
Cheek	R	LTE Band48	56640	3690	100RB	22.49	23	0.96	**1.08**	0.389	**0.44**	0.02
Cheek	R	LTE Band48	56640	3690	50RB-Mid B2	22.41	23	0.986	**1.13**	0.372	**0.43**	-0.09

Note: The LTE mode is QPSK_20MHz.

Table 14.1-34: SAR Values (LTE Band48–Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band48	56640	3690	1RB-Low Front 10mm	22.28	23	0.287	**0.34**	0.118	**0.14**	-0.16
Body	F	LTE Band48	56640	3690	1RB-Low Rear 10mm	22.28	23	0.671	**0.79**	0.274	**0.32**	-0.12
Body	F	LTE Band48	56640	3690	1RB-Low Left Edge 10mm	22.28	23	0.995	**1.17**	0.395	**0.47**	0.09
Body	F	LTE Band48	55990	3625	1RB-High Left Edge 10mm	22.19	23	0.934	**1.13**	0.368	**0.44**	-0.09
Body	F	LTE Band48	55340	3560	1RB-Mid Left Edge 10mm	22.2	23	0.782	**0.94**	0.31	**0.37**	0.04
Body	F	LTE Band48	56640	3690	50RB-Mid Front 10mm	22.48	23	0.328	**0.37**	0.144	**0.16**	-0.08
Body	F	LTE Band48	56640	3690	50RB-Mid Rear 10mm	22.48	23	0.656	**0.74**	0.272	**0.31**	0.1
Body	F	LTE Band48	56640	3690	50RB-Mid Left 10mm / Fig.A.34	22.48	23	1.06	**1.19**	0.42	**0.47**	0.17
Body	F	LTE Band48	55990	3625	50RB-High Left Edge 10mm	22.21	23	0.928	**1.11**	0.354	**0.42**	0.02
Body	F	LTE Band48	55340	3560	50RB-Mid Left Edge 10mm	22.4	23	0.785	**0.90**	0.312	**0.36**	-0.03
Body	F	LTE Band48	56640	3690	100RB Left 10mm	22.41	23	1.02	**1.17**	0.401	**0.46**	0.09
Body	F	LTE Band48	56640	3690	50RB-Mid Left 10mm B2	22.48	23	1.03	**1.16**	0.372	**0.42**	0.07

Note: The LTE mode is QPSK_20MHz.

Table 14.1-35: SAR Values (LTE Band66–Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band66	132572	1770	1RB-High	19.39	20.5	0.261	**0.34**	0.148	**0.19**	-0.13
Tilt	L	LTE Band66	132572	1770	1RB-High	19.39	20.5	0.165	**0.21**	0.091	**0.12**	0.06
Cheek	R	LTE Band66	132572	1770	1RB-High / Fig.A.35	19.39	20.5	1.07	**1.38**	0.494	**0.64**	-0.05
Cheek	R	LTE Band66	132322	1745	1RB-High	19.3	20.5	0.99	**1.31**	0.452	**0.60**	0.15
Cheek	R	LTE Band66	132072	1720	1RB-High	19.31	20.5	0.841	**1.11**	0.385	**0.51**	0.13
Tilt	R	LTE Band66	132322	1745	1RB-High	19.39	20.5	0.363	**0.47**	0.188	**0.24**	-0.03
Cheek	L	LTE Band66	132572	1770	50RB-Mid	19.45	20.5	0.206	**0.26**	0.114	**0.15**	0.07
Tilt	L	LTE Band66	132572	1770	50RB-Mid	19.45	20.5	0.321	**0.41**	0.191	**0.24**	-0.12
Cheek	R	LTE Band66	132572	1770	50RB-Mid	19.45	20.5	1.06	**1.35**	0.497	**0.63**	-0.06
Cheek	R	LTE Band66	132322	1745	50RB-Mid	19.44	20.5	0.999	**1.28**	0.454	**0.58**	0.16
Cheek	R	LTE Band66	132072	1720	50RB-Mid	19.39	20.5	0.839	**1.08**	0.38	**0.49**	-0.14
Tilt	R	LTE Band66	132572	1770	50RB-Mid	19.45	20.5	0.365	**0.46**	0.189	**0.24**	0.09
Cheek	R	LTE Band66	132572	1770	100RB	19.37	20.5	1.01	**1.31**	0.471	**0.61**	0.05
Cheek	R	LTE Band66	132572	1770	1RB-High B2	19.39	20.5	1.01	**1.30**	0.46	**0.59**	0.08
Cheek	R	LTE Band66	132572	1770	1RB-High with cover	19.39	20.5	1.04	**1.34**	0.475	**0.61**	-0.07

Note: The LTE mode is QPSK_20MHz.

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

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band66	132072	1720	1RB-High Front 10mm	23.57	24.5	0.355	**0.44**	0.208	**0.26**	-0.19
Body	F	LTE Band66	132572	1770	1RB-High Rear 10mm	23.52	24.5	0.703	**0.88**	0.351	**0.44**	0.06
Body	F	LTE Band66	132322	1745	1RB-High Rear 10mm	23.55	24.5	1.01	**1.26**	0.534	**0.66**	-0.13
Body	F	LTE Band66	132072	1720	1RB-High Rear 10mm	23.57	24.5	0.683	**0.85**	0.366	**0.45**	0.12
Body	F	LTE Band66	132322	1745	100RB Rear 10mm	22.36	24.5	0.732	**1.20**	0.388	**0.64**	0.09
Body	F	LTE Band66	132572	1770	1RB-High Left Edge 10mm	23.52	24.5	0.817	**1.02**	0.409	**0.51**	-0.16
Body	F	LTE Band66	132322	1745	1RB-High Left Edge 10mm / Fig.A.36	23.55	24.5	1.11	**1.38**	0.572	**0.71**	-0.04
Body	F	LTE Band66	132072	1720	1RB-High Left Edge 10mm	23.57	24.5	0.763	**0.95**	0.392	**0.49**	0.01
Body	F	LTE Band66	132322	1745	100RB Left Edge 10mm	22.36	23.5	0.704	**0.92**	0.358	**0.47**	0.16
Body	F	LTE Band66	132072	1720	1RB-High Top Edge 10mm	23.57	24.5	0.07	**0.09**	0.042	**0.05**	-0.19
Body	F	LTE Band66	132072	1720	50RB-High Front 10mm	22.47	23.5	0.292	**0.37**	0.167	**0.21**	0.09
Body	F	LTE Band66	132072	1720	50RB-High Rear 10mm	22.47	23.5	0.525	**0.67**	0.28	**0.35**	-0.1
Body	F	LTE Band66	132572	1770	50RB-High Left 10mm	22.46	23.5	0.694	**0.88**	0.351	**0.45**	0.08
Body	F	LTE Band66	132322	1745	50RB-High Left 10mm	22.45	23.5	0.786	**1.00**	0.385	**0.49**	0.06
Body	F	LTE Band66	132072	1720	50RB-High Left 10mm	22.47	23.5	0.684	**0.87**	0.342	**0.43**	-0.12
Body	F	LTE Band66	132072	1720	50RB-High Top 10mm	22.47	23.5	0.291	**0.37**	0.161	**0.20**	-0.06
Body	F	LTE Band66	132322	1745	1RB-High Left Edge 10mm B2	23.55	24.5	1.06	**1.32**	0.52	**0.65**	-0.06
Body	F	LTE Band66	132322	1745	1RB-High Rear 10mm Headset	23.55	24.5	0.983	**1.22**	0.513	**0.64**	0.06
Body	F	LTE Band66	132322	1745	1RB-High Left Edge 10mm Headset	23.55	24.5	0.975	**1.21**	0.503	**0.63**	0.07
Body	F	LTE Band66	132322	1745	1RB-High Left Edge 10mm / With cover	23.55	24.5	0.988	**1.23**	0.517	**0.64**	0.12

Note: The LTE mode is QPSK_20MHz.

Table 14.1-37: SAR Values (LTE Band71–Head)

Cheek	L	LTE Band71	133222	673	1RB-Low	22.82	24	0.519	**0.68**	0.302	**0.40**	0.15
Tilt	L	LTE Band71	133222	673	1RB-Low	22.82	24	0.468	**0.61**	0.255	**0.33**	0.17
Cheek	R	LTE Band71	133222	673	1RB-Low / Fig.A.37	22.82	24	1.01	**1.33**	0.529	**0.69**	0.04
Cheek	R	LTE Band71	133372	688	1RB-Low	22.69	24	0.741	**1.00**	0.372	**0.50**	-0.12
Cheek	R	LTE Band71	133322	683	1RB-Low	22.63	24	0.765	**1.05**	0.383	**0.53**	-0.08
Tilt	R	LTE Band71	133222	673	1RB-Low	22.82	24	0.899	**1.18**	0.452	**0.59**	0.1
Tilt	R	LTE Band71	133372	688	1RB-Low	22.69	24	0.66	**0.89**	0.318	**0.43**	0.06
Tilt	R	LTE Band71	133322	683	1RB-Low	22.63	24	0.681	**0.93**	0.327	**0.45**	0.14
Cheek	L	LTE Band71	133222	673	50RB-Mid	21.85	23	0.402	**0.52**	0.232	**0.30**	-0.19
Tilt	L	LTE Band71	133222	673	50RB-Mid	21.85	23	0.312	**0.41**	0.173	**0.23**	0.16
Cheek	R	LTE Band71	133222	673	50RB-Mid	21.85	23	0.637	**0.83**	0.359	**0.47**	0.11
Cheek	R	LTE Band71	133372	688	50RB-Mid	21.81	23	0.467	**0.61**	0.252	**0.33**	0.12
Cheek	R	LTE Band71	133322	683	50RB-Low	21.82	23	0.482	**0.63**	0.26	**0.34**	-0.07
Tilt	R	LTE Band71	133222	673	50RB-Mid	21.85	23	0.708	**0.92**	0.337	**0.44**	0.11
Tilt	R	LTE Band71	133372	688	50RB-Mid	21.81	23	0.522	**0.69**	0.24	**0.32**	0.13
Tilt	R	LTE Band71	133322	683	50RB-Low	21.82	23	0.539	**0.71**	0.248	**0.33**	-0.06
Cheek	R	LTE Band71	133222	673	100RB	21.93	23	0.732	**0.94**	0.345	**0.44**	-0.09
Tilt	R	LTE Band71	133222	673	100RB	21.93	23	0.543	**0.69**	0.261	**0.33**	-0.11
Cheek	R	LTE Band71	133222	673	1RB-Low B2	22.82	24	0.988	**1.30**	0.509	**0.67**	0.09

Note: The LTE mode is QPSK_20MHz.

Table 14.1-38: SAR Values (LTE Band71–Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band71	133222	673	1RB-Low Front 10mm	22.82	24	0.206	**0.27**	0.126	**0.17**	-0.17
Body	F	LTE Band71	133222	673	1RB-Low Rear 10mm	22.82	24	0.221	**0.29**	0.155	**0.20**	0.1
Body	F	LTE Band71	133222	673	1RB-Low Left Edge 10mm / Fig.A.38	22.82	24	0.229	**0.30**	0.163	**0.21**	0.04
Body	F	LTE Band71	133222	673	1RB-Low Top Edge 10mm	22.82	24	0.188	**0.25**	0.097	**0.13**	-0.07
Body	F	LTE Band71	133222	673	50RB-Mid Front 10mm	21.85	23	0.162	**0.21**	0.101	**0.13**	-0.13
Body	F	LTE Band71	133222	673	50RB-Mid Rear 10mm	21.85	23	0.171	**0.22**	0.122	**0.16**	-0.19
Body	F	LTE Band71	133222	673	50RB-Mid Left 10mm	21.85	23	0.137	**0.18**	0.095	**0.12**	0.07
Body	F	LTE Band71	133222	673	50RB-Mid Top 10mm	21.85	23	0.145	**0.19**	0.074	**0.10**	-0.19
Body	F	LTE Band71	133222	673	1RB-Low Left Edge 10mm B2	22.82	24	0.207	**0.27**	0.149	**0.20**	0.09

Note1: The LTE mode is QPSK_20MHz.

14.2 SAR results for UL CA and ENDC

The results as below are only used for evaluation of UL CA and ENDC.

Table 14.2-1: SAR Values (LTE Band2 - Head) – A3

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band2	18900	1880	1RB-Mid	16.27	17.5	0.095	**0.13**	0.052	**0.07**	0.19
Tilt	L	LTE Band2	18900	1880	1RB-Mid	16.27	17.5	0.079	**0.10**	0.042	**0.06**	-0.07
Cheek	R	LTE Band2	18900	1880	1RB-Mid / Fig.A.39	16.27	17.5	0.317	**0.42**	0.15	**0.20**	0.07
Tilt	R	LTE Band2	18900	1880	1RB-Mid	16.27	17.5	0.123	**0.16**	0.059	**0.08**	-0.05
Cheek	L	LTE Band2	18700	1860	50RB-Low	16.42	17.5	0.157	**0.20**	0.084	**0.11**	-0.09
Tilt	L	LTE Band2	18700	1860	50RB-Low	16.42	17.5	0.105	**0.13**	0.058	**0.07**	0.06
Cheek	R	LTE Band2	18700	1860	50RB-Low	16.42	17.5	0.304	**0.39**	0.148	**0.19**	0.00
Tilt	R	LTE Band2	18700	1860	50RB-Low	16.42	17.5	0.113	**0.14**	0.056	**0.07**	-0.13
Cheek	R	LTE Band2	18900	1880	1RB-Mid B2	16.27	17.5	0.265	**0.35**	0.112	**0.15**	0.07

Note: The LTE mode is QPSK_20MHz.

Table 14.2-2: SAR Values (LTE Band2 - Body) – A3

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band2	18700	1860	1RB-High Front 10mm	21.38	22.5	0.193	**0.25**	0.119	**0.15**	0.08
Body	F	LTE Band2	18700	1860	1RB-High Rear 10mm / Fig.A.40	21.38	22.5	0.514	**0.67**	0.285	**0.37**	-0.19
Body	F	LTE Band2	18700	1860	1RB-High Left Edge 10mm	21.38	22.5	0.501	**0.65**	0.261	**0.34**	0.11
Body	F	LTE Band2	18900	1880	1RB-High Top 10mm	21.38	22.5	0.212	**0.27**	0.119	**0.15**	0.06
Body	F	LTE Band2	18700	1860	50RB-High Front 10mm	21.48	22.5	0.174	**0.22**	0.11	**0.14**	-0.12
Body	F	LTE Band2	18700	1860	50RB-High Rear 10mm	21.48	22.5	0.409	**0.52**	0.23	**0.29**	0.08
Body	F	LTE Band2	18700	1860	50RB-High Left 10mm	21.48	22.5	0.387	**0.49**	0.2	**0.25**	-0.11
Body	F	LTE Band2	18700	1860	50RB-High Top 10mm	21.48	22.5	0.176	**0.22**	0.099	**0.13**	0.15
Body	F	LTE Band2	18700	1860	1RB-High Rear 10mm B2	21.38	22.5	0.48	**0.62**	0.245	**0.32**	-0.19

Note: The LTE mode is QPSK_20MHz.

Table 14.2-3: SAR Values (LTE Band2 - Head) – A2

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band2	19100	1900	1RB-Mid / Fig.A.41	23.97	24.5	0.049	**0.06**	0.029	**0.03**	0.07
Tilt	L	LTE Band2	19100	1900	1RB-Mid	23.97	24.5	0.025	**0.03**	0.015	**0.02**	-0.11
Cheek	R	LTE Band2	19100	1900	1RB-Mid	23.97	24.5	0.037	**0.04**	0.022	**0.02**	-0.12
Tilt	R	LTE Band2	19100	1900	1RB-Mid	23.97	24.5	0.033	**0.04**	0.018	**0.02**	0.12
Cheek	L	LTE Band2	18900	1880	50RB-Low	23.21	23.5	0.047	**0.05**	0.027	**0.03**	-0.15
Tilt	L	LTE Band2	18900	1880	50RB-Low	23.21	23.5	0.02	**0.02**	0.013	**0.01**	-0.08
Cheek	R	LTE Band2	18900	1880	50RB-Low	23.21	23.5	0.034	**0.04**	0.021	**0.02**	0.14
Tilt	R	LTE Band2	18900	1880	50RB-Low	23.21	23.5	0.025	**0.03**	0.014	**0.01**	-0.10
Cheek	L	LTE Band2	19100	1900	1RB-Mid B2	23.97	24.5	0.037	**0.04**	0.011	**0.01**	0.03

Note: The LTE mode is QPSK_20MHz.

Table 14.2-4: SAR Values (LTE Band2 - Body) – A2

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band2	18900	1880	1RB-High Front 10mm	18.64	19	0.27	**0.29**	0.139	**0.14**	0.12
Body	F	LTE Band2	18900	1880	1RB-High Rear 10mm	18.64	19	0.403	**0.44**	0.215	**0.22**	-0.07
Body	F	LTE Band2	18900	1880	1RB-High Left Edge 10mm	18.64	19	<0.01	**<0.01**	<0.01	**<0.01**	/
Body	F	LTE Band2	18900	1880	1RB-High Right Edge 10mm	18.64	19	<0.01	**<0.01**	<0.01	**<0.01**	/
Body	F	LTE Band2	18900	1880	1RB-High Bottom 10mm / Fig.A.42	18.64	19	0.528	**0.57**	0.274	**0.28**	0.12
Body	F	LTE Band2	19100	1900	50RB-Mid Front 10mm	18.7	19	0.271	**0.29**	0.141	**0.14**	-0.06
Body	F	LTE Band2	19100	1900	50RB-Mid Rear 10mm	18.7	19	0.413	**0.44**	0.22	**0.22**	0.14
Body	F	LTE Band2	19100	1900	50RB-Mid Left 10mm	18.7	19	<0.01	**<0.01**	<0.01	**<0.01**	/
Body	F	LTE Band2	19100	1900	50RB-Mid Right 10mm	18.7	19	<0.01	**<0.01**	<0.01	**<0.01**	/
Body	F	LTE Band2	19100	1900	50RB-Mid Bottom 10mm	18.7	19	0.52	**0.56**	0.269	**0.27**	0.03
Body	F	LTE Band2	18900	1880	1RB-High Bottom 10mm B2	18.64	19	0.511	**0.56**	0.266	**0.27**	0.11

Note: The LTE mode is QPSK_20MHz.

Table 14.2-5: SAR Values (LTE Band4 - Head) – A3

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band4	20300	1745	1RB-High	17.32	18.5	0.077	**0.10**	0.049	**0.06**	-0.01
Tilt	L	LTE Band4	20300	1745	1RB-High	17.32	18.5	0.05	**0.07**	0.031	**0.04**	0.01
Cheek	R	LTE Band4	20300	1745	1RB-High / Fig.A.43	17.32	18.5	0.326	**0.43**	0.163	**0.21**	0.09
Tilt	R	LTE Band4	20300	1745	1RB-High	17.32	18.5	0.115	**0.15**	0.066	**0.09**	0.04
Cheek	L	LTE Band4	20175	1732.5	50RB-High	17.4	18.5	0.133	**0.17**	0.084	**0.11**	-0.07
Tilt	L	LTE Band4	20175	1732.5	50RB-High	17.4	18.5	0.074	**0.10**	0.044	**0.06**	-0.18
Cheek	R	LTE Band4	20175	1732.5	50RB-High	17.4	18.5	0.32	**0.41**	0.152	**0.20**	0.15
Tilt	R	LTE Band4	20175	1732.5	50RB-High	17.4	18.5	0.138	**0.18**	0.075	**0.10**	0.11
Cheek	R	LTE Band4	20300	1745	1RB-High B2	17.32	18.5	0.314	**0.41**	0.135	**0.18**	0.09

Note: The LTE mode is QPSK_20MHz.

Table 14.2-6: SAR Values (LTE Band4 - Body) – A3

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band4	20050	1720	1RB-High Front 10mm	19.34	20.5	0.099	**0.13**	0.045	**0.06**	0.12
Body	F	LTE Band4	20050	1720	1RB-High Rear 10mm	19.34	20.5	0.118	**0.15**	0.063	**0.08**	0.14
Body	F	LTE Band4	20050	1720	1RB-High Left Edge 10mm / Fig.A.44	19.34	20.5	0.125	**0.16**	0.065	**0.08**	0.00
Body	F	LTE Band4	20050	1720	1RB-High Top 10mm	19.34	20.5	<0.01	<0.01	<0.01	<0.01	/
Body	F	LTE Band4	20050	1720	50RB-Mid Front 10mm	19.4	20.5	0.101	**0.13**	0.047	**0.06**	-0.11
Body	F	LTE Band4	20050	1720	50RB-Mid Rear 10mm	19.4	20.5	0.106	**0.14**	0.056	**0.07**	0.06
Body	F	LTE Band4	20050	1720	50RB-Mid Left 10mm	19.4	20.5	0.105	**0.14**	0.054	**0.07**	0.12
Body	F	LTE Band4	20050	1720	50RB-Mid Top 10mm	19.4	20.5	<0.01	<0.01	<0.01	<0.01	/
Body	F	LTE Band4	20050	1720	1RB-High Left Edge 10mm B2	19.34	20.5	0.085	**0.11**	0.031	**0.04**	0.10

Note: The LTE mode is QPSK_20MHz.

Table 14.2-7: SAR Values (LTE Band4 - Head) – A2

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band4	20175	1732.5	1RB-High / Fig.A.45	24.01	24.5	0.044	**0.05**	0.027	**0.03**	0.06
Tilt	L	LTE Band4	20175	1732.5	1RB-High	24.01	24.5	<0.01	<0.01	<0.01	<0.01	/
Cheek	R	LTE Band4	20175	1732.5	1RB-High	24.01	24.5	0.025	**0.03**	0.016	**0.02**	-0.16
Tilt	R	LTE Band4	20175	1732.5	1RB-High	24.01	24.5	0.017	**0.02**	0.01	**0.01**	-0.06
Cheek	L	LTE Band4	20175	1732.5	50RB-High	23.06	23.5	0.034	**0.04**	0.02	**0.02**	-0.13
Tilt	L	LTE Band4	20175	1732.5	50RB-High	23.06	23.5	<0.01	<0.01	<0.01	<0.01	/
Cheek	R	LTE Band4	20175	1732.5	50RB-High	23.06	23.5	0.017	**0.02**	0.01	**0.01**	0.08
Tilt	R	LTE Band4	20175	1732.5	50RB-High	23.06	23.5	<0.01	<0.01	<0.01	<0.01	/
Cheek	L	LTE Band4	20175	1732.5	1RB-High B2	24.01	24.5	0.032	**0.04**	0.021	**0.02**	0.02

Note: The LTE mode is QPSK_20MHz.

Table 14.2-8: SAR Values (LTE Band4 - Body) – A2

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band4	20050	1720	1RB-High Front 10mm	18.93	20	0.3	**0.38**	0.16	**0.16**	-0.04
Body	F	LTE Band4	20050	1720	1RB-High Rear 10mm	18.93	20	0.452	**0.58**	0.249	**0.26**	0.15
Body	F	LTE Band4	20050	1720	1RB-High Left Edge 10mm	18.93	20	<0.01	<0.01	<0.01	<0.01	/
Body	F	LTE Band4	20050	1720	1RB-High Right Edge 10mm	18.93	20	<0.01	<0.01	<0.01	<0.01	/
Body	F	LTE Band4	20050	1720	1RB-High Bottom 10mm	18.93	20	0.535	**0.68**	0.281	**0.29**	0.08
Body	F	LTE Band4	20300	1745	50RB-Mid Front 10mm	19.01	20	0.319	**0.40**	0.178	**0.18**	-0.06
Body	F	LTE Band4	20300	1745	50RB-Mid Rear 10mm	19.01	20	0.498	**0.63**	0.268	**0.28**	-0.05
Body	F	LTE Band4	20300	1745	50RB-Mid Left 10mm	19.01	20	<0.01	<0.01	<0.01	<0.01	/
Body	F	LTE Band4	20300	1745	50RB-Mid Right 10mm	19.01	20	<0.01	<0.01	<0.01	<0.01	/
Body	F	LTE Band4	20300	1745	50RB-Mid Bottom 10mm / Fig.A.46	19.01	20	0.553	**0.69**	0.291	**0.30**	-0.12
Body	F	LTE Band4	20300	1745	50RB-Mid Bottom 10mm B2	19.01	20	0.532	**0.67**	0.276	**0.28**	-0.10

Note: The LTE mode is QPSK_20MHz.

Table 14.2-9: SAR Values (LTE Band5 - Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band5	20600	844	1RB-Low	17.82	19	0.06	**0.08**	0.031	**0.04**	-0.17
Tilt	L	LTE Band5	20600	844	1RB-Low	17.82	19	0.054	**0.07**	0.025	**0.03**	-0.14
Cheek	R	LTE Band5	20600	844	1RB-Low	17.82	19	0.101	**0.13**	0.042	**0.06**	0.14
Tilt	R	LTE Band5	20600	844	1RB-Low	17.82	19	0.085	**0.11**	0.034	**0.04**	-0.01
Cheek	L	LTE Band5	20450	829	25RB-Mid	17.91	19	0.065	**0.08**	0.033	**0.04**	-0.03
Tilt	L	LTE Band5	20450	829	25RB-Mid	17.91	19	<0.01	<0.01	<0.01	<0.01	/
Cheek	R	LTE Band5	20450	829	25RB-Mid	17.91	19	0.104	**0.13**	0.046	**0.06**	0.07
Tilt	R	LTE Band5	20450	829	25RB-Mid / Fig.A.47	17.91	19	0.11	**0.14**	0.044	**0.06**	0.17
Tilt	R	LTE Band5	20450	829	25RB-Mid B2	17.91	19	0.09	**0.12**	0.042	**0.05**	0.11

Note: The LTE mode is QPSK_10MHz.

Table 14.2-10: SAR Values (LTE Band7 - Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band7	21100	2535	1RB-Mid Front 10mm	18.51	19.5	0.08	**0.10**	0.041	**0.05**	-0.09
Body	F	LTE Band7	21100	2535	1RB-Mid Rear 10mm	18.51	19.5	0.186	**0.23**	0.083	**0.10**	-0.11
Body	F	LTE Band7	21100	2535	1RB-Mid Left Edge 10mm	18.51	19.5	0.064	**0.08**	0.032	**0.04**	-0.15
Body	F	LTE Band7	21100	2535	1RB-Mid Bottom Edge 10mm	18.51	19.5	0.072	**0.09**	0.037	**0.05**	-0.02
Body	F	LTE Band7	21350	2560	50RB-Mid Front 10mm	18.63	19.5	0.075	**0.09**	0.038	**0.05**	-0.07
Body	F	LTE Band7	21350	2560	50RB-Mid Rear 10mm / Fig.A.48	18.63	19.5	0.212	**0.26**	0.096	**0.12**	-0.18
Body	F	LTE Band7	21350	2560	50RB-Mid Left 10mm	18.63	19.5	0.07	**0.09**	0.034	**0.04**	-0.18
Body	F	LTE Band7	21350	2560	50RB-Mid Bottom 10mm	18.63	19.5	0.102	**0.12**	0.052	**0.06**	0.06
Body	F	LTE Band7	21350	2560	50RB-Mid Rear 10mm B2	18.63	19.5	0.198	**0.24**	0.087	**0.11**	-0.18

Note: The LTE mode is QPSK_20MHz.

Table 14.2-11: SAR Values (LTE Band12 - Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band12	23130	711	1RB-Mid	18.5	19.5	0.069	**0.09**	0.047	**0.06**	0.03
Tilt	L	LTE Band12	23130	711	1RB-Mid	18.5	19.5	0.046	**0.06**	0.03	**0.04**	-0.07
Cheek	R	LTE Band12	23130	711	1RB-Mid / Fig.A.49	18.5	19.5	0.132	**0.17**	0.069	**0.09**	0.15
Tilt	R	LTE Band12	23130	711	1RB-Mid	18.5	19.5	0.084	**0.11**	0.049	**0.06**	0.08
Cheek	L	LTE Band12	23095	707.5	25RB-High	18.54	19.5	0.065	**0.08**	0.041	**0.05**	-0.04
Tilt	L	LTE Band12	23095	707.5	25RB-High	18.54	19.5	0.06	**0.07**	0.037	**0.05**	0.13
Cheek	R	LTE Band12	23095	707.5	25RB-High	18.54	19.5	0.083	**0.10**	0.045	**0.05**	0.00
Tilt	R	LTE Band12	23095	707.5	25RB-High	18.54	19.5	0.074	**0.09**	0.038	**0.05**	0.16
Cheek	R	LTE Band12	23130	711	1RB-Mid B2	18.5	19.5	0.112	**0.14**	0.058	**0.07**	0.10

Note: The LTE mode is QPSK_10MHz.

Table 14.2-12: SAR Values (LTE Band13 - Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band13	23230	782	1RB-High	18.63	20	0.067	**0.09**	0.038	**0.04**	0.04
Tilt	L	LTE Band13	23230	782	1RB-High	18.63	20	0.071	**0.10**	0.038	**0.04**	-0.13
Cheek	R	LTE Band13	23230	782	1RB-High / Fig.A.50	18.63	20	0.082	**0.11**	0.043	**0.04**	0.02
Tilt	R	LTE Band13	23230	782	1RB-High	18.63	20	0.072	**0.10**	0.033	**0.03**	-0.01
Cheek	L	LTE Band13	23230	782	25RB-High	18.66	20	0.053	**0.07**	0.033	**0.03**	-0.11
Tilt	L	LTE Band13	23230	782	25RB-High	18.66	20	0.044	**0.06**	0.025	**0.03**	0.08
Cheek	R	LTE Band13	23230	782	25RB-High	18.66	20	0.067	**0.09**	0.035	**0.04**	-0.16
Tilt	R	LTE Band13	23230	782	25RB-High	18.66	20	0.064	**0.09**	0.03	**0.03**	0.10
Cheek	R	LTE Band13	23230	782	1RB-High B2	18.63	20	0.078	**0.11**	0.036	**0.04**	0.01

Note: The LTE mode is QPSK_10MHz.

Table 14.2-13: SAR Values (LTE Band30 - Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band30	27710	2310	1RB-Low Front 10mm	21.91	23	0.197	**0.25**	0.103	**0.10**	0.10
Body	F	LTE Band30	27710	2310	1RB-Low Rear 10mm / Fig.A.51	21.91	23	0.492	**0.63**	0.227	**0.23**	-0.03
Body	F	LTE Band30	27710	2310	1RB-Low Left Edge 10mm	21.91	23	0.203	**0.26**	0.108	**0.11**	0.08
Body	F	LTE Band30	27710	2310	1RB-Low Bottom Edge 10mm	21.91	23	0.13	**0.17**	0.068	**0.07**	-0.18
Body	F	LTE Band30	27710	2310	25RB-Mid Front 10mm	21.81	23	0.236	**0.31**	0.096	**0.10**	-0.08
Body	F	LTE Band30	27710	2310	25RB-Mid Rear 10mm	21.81	23	0.428	**0.56**	0.21	**0.22**	-0.18
Body	F	LTE Band30	27710	2310	25RB-Mid Left 10mm	21.81	23	0.174	**0.23**	0.097	**0.10**	0.07
Body	F	LTE Band30	27710	2310	25RB-Mid Bottom 10mm	21.81	23	0.102	**0.13**	0.054	**0.05**	0.14
Body	F	LTE Band30	27710	2310	1RB-Low Rear 10mm B2	21.91	23	0.479	**0.62**	0.212	**0.22**	-0.03

Note: The LTE mode is QPSK_10MHz.

Table 14.2-14: SAR Values (LTE Band66 - Head) – A3

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band66	132572	1770	1RB-High	16.4	17.5	0.151	**0.19**	0.092	**0.09**	-0.17
Tilt	L	LTE Band66	132572	1770	1RB-High	16.4	17.5	0.116	**0.15**	0.071	**0.07**	-0.07
Cheek	R	LTE Band66	132572	1770	1RB-High / Fig.A.52	16.4	17.5	0.341	**0.44**	0.173	**0.18**	0.06
Tilt	R	LTE Band66	132572	1770	1RB-High	16.4	17.5	0.121	**0.16**	0.068	**0.07**	0.00
Cheek	L	LTE Band66	132572	1770	50RB-High	16.45	17.5	0.192	**0.24**	0.114	**0.12**	0.00
Tilt	L	LTE Band66	132572	1770	50RB-High	16.45	17.5	0.162	**0.21**	0.101	**0.10**	-0.15
Cheek	R	LTE Band66	132572	1770	50RB-High	16.45	17.5	0.292	**0.37**	0.155	**0.16**	-0.12
Tilt	R	LTE Band66	132572	1770	50RB-High	16.45	17.5	0.128	**0.16**	0.072	**0.07**	0.09
Cheek	R	LTE Band66	132572	1770	1RB-High B2	16.4	17.5	0.332	**0.43**	0.165	**0.17**	0.06

Note: The LTE mode is QPSK_20MHz.

Table 14.2-15: SAR Values (LTE Band66 - Body) – A3

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band66	132572	1770	1RB-High Front 10mm	20.36	21.5	0.174	**0.23**	0.085	**0.09**	-0.10
Body	F	LTE Band66	132572	1770	1RB-High Rear 10mm / Fig.A.53	20.36	21.5	0.252	**0.33**	0.135	**0.14**	0.15
Body	F	LTE Band66	132572	1770	1RB-High Left Edge 10mm	20.36	21.5	0.241	**0.31**	0.135	**0.14**	0.04
Body	F	LTE Band66	132572	1770	1RB-High Top Edge 10mm	20.36	21.5	0.074	**0.10**	0.045	**0.05**	0.04
Body	F	LTE Band66	132572	1770	50RB-High Front 10mm	20.43	21.5	0.17	**0.22**	0.081	**0.08**	-0.15
Body	F	LTE Band66	132572	1770	50RB-High Rear 10mm	20.43	21.5	0.246	**0.31**	0.147	**0.15**	0.03
Body	F	LTE Band66	132572	1770	50RB-High Left 10mm	20.43	21.5	0.223	**0.29**	0.122	**0.12**	-0.11
Body	F	LTE Band66	132572	1770	50RB-High Top 10mm	20.43	21.5	0.088	**0.11**	0.053	**0.05**	0.13
Body	F	LTE Band66	132572	1770	1RB-High Rear 10mm B2	20.36	21.5	0.232	**0.30**	0.121	**0.12**	0.15

Note: The LTE mode is QPSK_20MHz.

Table 14.2-16: SAR Values (LTE Band66 - Head) – A2

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	LTE Band66	132322	1745	1RB-Mid / Fig.A.54	23.98	24.5	0.044	**0.05**	0.027	**0.03**	0.05
Tilt	L	LTE Band66	132322	1745	1RB-Mid	23.98	24.5	<0.01	<0.01	<0.01	<0.01	/
Cheek	R	LTE Band66	132322	1745	1RB-Mid	23.98	24.5	0.022	**0.02**	0.014	**0.01**	-0.11
Tilt	R	LTE Band66	132322	1745	1RB-Mid	23.98	24.5	0.014	**0.02**	0.009	**0.01**	0.19
Cheek	L	LTE Band66	132072	1720	50RB-Mid	23.03	23.5	0.026	**0.03**	0.016	**0.02**	0.07
Tilt	L	LTE Band66	132072	1720	50RB-Mid	23.03	23.5	<0.01	<0.01	<0.01	<0.01	/
Cheek	R	LTE Band66	132072	1720	50RB-Mid	23.03	23.5	0.015	**0.02**	0.01	**0.01**	/
Tilt	R	LTE Band66	132072	1720	50RB-Mid	23.03	23.5	<0.01	<0.01	<0.01	<0.01	/
Cheek	L	LTE Band66	132322	1745	1RB-Mid B2	23.98	24.5	0.028	**0.03**	0.017	**0.02**	0.01

Note: The LTE mode is QPSK_20MHz.

Table 14.2-17: SAR Values (LTE Band66 - Body) – A2

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	LTE Band66	132072	1720	1RB-Mid Front 10mm	19.35	20	0.277	**0.32**	0.147	**0.15**	-0.02
Body	F	LTE Band66	132072	1720	1RB-Mid Rear 10mm	19.35	20	0.393	**0.46**	0.216	**0.22**	0.00
Body	F	LTE Band66	132072	1720	1RB-Mid Left Edge 10mm	19.35	20	<0.01	<0.01	<0.01	<0.01	/
Body	F	LTE Band66	132072	1720	1RB-Mid Right Edge 10mm	19.35	20	<0.01	<0.01	<0.01	<0.01	/
Body	F	LTE Band66	132072	1720	1RB-Mid Bottom Edge 10mm	19.35	20	0.463	**0.54**	0.244	**0.25**	-0.17
Body	F	LTE Band66	132322	1745	50RB-High Front 10mm	19.48	20	0.311	**0.35**	0.164	**0.17**	-0.15
Body	F	LTE Band66	132322	1745	50RB-High Rear 10mm	19.48	20	0.435	**0.49**	0.241	**0.24**	0.16
Body	F	LTE Band66	132322	1745	50RB-High Left 10mm	19.48	20	<0.01	<0.01	<0.01	<0.01	/
Body	F	LTE Band66	132322	1745	50RB-High Right 10mm	19.48	20	<0.01	<0.01	<0.01	<0.01	/
Body	F	LTE Band66	132322	1745	50RB-High Bottom 10mm / Fig.A.55	19.48	20	0.556	**0.63**	0.293	**0.30**	-0.19
Body	F	LTE Band66	132322	1745	50RB-High Bottom 10mm B2	19.48	20	0.532	**0.60**	0.279	**0.28**	0.02

Note: The LTE mode is QPSK_20MHz.

14.3 SAR results for 5G NR

Table 14.3-1: SAR Values (n66–Head) - SA

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	n66	348064	1745		21.85	22	0.29	**0.30**	0.178	**0.18**	0.04
Tilt	L	n66	348064	1745		21.85	22	0.193	**0.20**	0.113	**0.11**	0.19
Cheek	R	n66	348064	1745	Fig.A.56	21.85	22	1.17	**1.21**	0.559	**0.56**	-0.04
Tilt	R	n66	348064	1745		21.85	22	0.409	**0.42**	0.215	**0.22**	-0.16
Cheek	R	n66	348064	1745	B2	21.85	22	1.02	**1.06**	0.528	**0.53**	-0.01

Table 14.3-2: SAR Values (n66–Body) - SA

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	n66	342064	1715	Front 10mm	22.38	24	0.209	**0.30**	0.116	**0.17**	0.15
Body	F	n66	342064	1715	Rear 10mm	22.38	24	0.421	**0.61**	0.227	**0.33**	-0.09
Body	F	n66	342064	1715	Left Edge 10mm / Fig.A.57	22.38	24	0.541	**0.79**	0.268	**0.39**	0.05
Body	F	n66	342064	1715	Top Edge 10mm	22.38	24	0.181	**0.26**	0.099	**0.14**	0.06
Body	F	n66	342064	1715	Left Edge 10mm B2	22.38	24	0.515	**0.75**	0.216	**0.31**	0.08

Table 14.3-3: SAR Values (n71–Head) - SA

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	n71	134192	680.5		23.51	24	0.433	**0.48**	0.303	**0.34**	0.08
Tilt	L	n71	134192	680.5		23.51	24	0.351	**0.39**	0.246	**0.28**	-0.14
Cheek	R	n71	134192	680.5		23.51	24	0.576	**0.64**	0.355	**0.40**	-0.06
Tilt	R	n71	134192	680.5	Fig.A.58	23.51	24	0.897	**1.00**	0.421	**0.47**	0.15
Tilt	R	n71	134192	680.5	B2	23.51	24	0.853	**0.95**	0.403	**0.45**	0.10

Table 14.3-4: SAR Values (n71–Body) - SA

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	n71	134192	680.5	Front 10mm	23.51	24	0.267	**0.30**	0.184	**0.21**	0.12
Body	F	n71	134192	680.5	Rear 10mm	23.51	24	0.3	**0.34**	0.21	**0.24**	-0.09
Body	F	n71	134192	680.5	Left Edge 10mm / Fig.A.59	23.51	24	0.321	**0.36**	0.226	**0.25**	-0.06
Body	F	n71	134192	680.5	Top Edge 10mm	23.51	24	0.243	**0.27**	0.118	**0.13**	-0.7
Body	F	n71	134192	680.5	Left Edge 10mm B2	23.51	24	0.31	**0.35**	0.217	**0.24**	-0.06

The results as below are only used for evaluation of ENDC.

Table 14.3-5: SAR Values (n2–Head) – A3

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	n2	370050	1852.5		17.72	18	0.146	**0.16**	0.084	**0.08**	-0.06
Tilt	L	n2	370050	1852.5		17.72	18	0.117	**0.12**	0.061	**0.06**	0.06
Cheek	R	n2	370050	1852.5	Fig.A.60	17.72	18	0.471	**0.50**	0.227	**0.23**	0.02
Tilt	R	n2	370050	1852.5		17.72	18	0.197	**0.21**	0.094	**0.09**	-0.08
Cheek	R	n2	370050	1852.5	B2	17.72	18	0.458	**0.49**	0.212	**0.21**	0.12

Table 14.3-6: SAR Values (n2–Body) – A3

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	n2	370050	1852.5	Front 10mm	22.84	23	0.263	**0.27**	0.15	**0.15**	0.05
Body	F	n2	370050	1852.5	Rear 10mm / Fig.A.61	22.84	23	0.487	**0.51**	0.266	**0.27**	-0.16
Body	F	n2	370050	1852.5	Left Edge 10mm	22.84	23	0.392	**0.41**	0.213	**0.21**	0.11
Body	F	n2	370050	1852.5	Top Edge 10mm	22.84	23	0.133	**0.14**	0.076	**0.08**	-0.11
Body	F	n2	370050	1852.5	Rear 10mm B2	22.84	23	0.467	**0.48**	0.246	**0.25**	-0.13

Table 14.3-7: SAR Values (n2–Head) – A2

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	n2	375064	1880		22.31	24	0.053	**0.08**	0.036	**0.04**	-0.04
Tilt	L	n2	375064	1880		22.31	24	<0.01	**<0.01**	<0.01	**<0.01**	/
Cheek	R	n2	375064	1880	Fig.A.62	22.31	24	0.063	**0.09**	0.043	**0.04**	0.16
Tilt	R	n2	375064	1880		22.31	24	0.053	**0.08**	0.035	**0.04**	-0.03
Cheek	R	n2	375064	1880	B2	22.31	24	0.048	**0.07**	0.032	**0.03**	0.10

Table 14.3-8: SAR Values (n2–Body) – A2

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	n2	374092	1880	Front 10mm	19.97	20	0.165	**0.17**	0.078	**0.08**	-0.09
Body	F	n2	374092	1880	Rear 10mm	19.97	20	0.32	**0.32**	0.172	**0.17**	0.12
Body	F	n2	374092	1880	Left Edge 10mm	19.97	20	<0.01	**<0.01**	<0.01	**<0.01**	/
Body	F	n2	374092	1880	Right Edge 10mm	19.97	20	<0.01	**<0.01**	<0.01	**<0.01**	/
Body	F	n2	374092	1880	Bottom Edge 10mm /	19.97	20	0.669	**0.67**	0.353	**0.35**	-0.04
Body	F	n2	374092	1880	Bottom Edge 10mm B2	19.97	20	0.651	**0.66**	0.341	**0.34**	0.02

Table 14.3-9: SAR Values (n5–Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	n5	164850	826.5		18.95	19	0.4	**0.40**	0.202	**0.20**	-0.03
Tilt	L	n5	164850	826.5		18.95	19	0.328	**0.33**	0.167	**0.17**	0.19
Cheek	R	n5	164850	826.5	Fig.A.64	18.95	19	0.525	**0.53**	0.262	**0.26**	0.15
Tilt	R	n5	164850	826.5		18.95	19	0.502	**0.51**	0.227	**0.23**	0.11
Cheek	R	n5	164850	826.5	B2	18.95	19	0.505	**0.51**	0.208	**0.21**	0.11

Table 14.3-10: SAR Values (n5–Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	n5	165392	836.5	Front 10mm / Fig.A.65	23.58	24	0.424	**0.47**	0.239	**0.24**	0.03
Body	F	n5	165392	836.5	Rear 10mm	23.58	24	0.381	**0.42**	0.221	**0.22**	0.12
Body	F	n5	165392	836.5	Left Edge 10mm	23.58	24	0.378	**0.42**	0.207	**0.21**	0.05
Body	F	n5	165392	836.5	Top Edge 10mm	23.58	24	0.342	**0.38**	0.158	**0.16**	-0.07
Body	F	n5	165392	836.5	Front 10mm B2	23.58	24	0.408	**0.45**	0.219	**0.22**	0.04

Table 14.3-11: SAR Values (n7–Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	n7	506550	2535	Fig.A.66	23.85	24	0.148	**0.15**	0.079	**0.08**	-0.06
Tilt	L	n7	506550	2535		23.85	24	0.047	**0.05**	0.025	**0.03**	0.13
Cheek	R	n7	506550	2535		23.85	24	0.081	**0.08**	0.049	**0.05**	-0.07
Tilt	R	n7	506550	2535		23.85	24	0.067	**0.07**	0.034	**0.03**	0.07
Cheek	L	n7	506550	2535	B2	23.85	24	0.132	**0.14**	0.065	**0.07**	-0.03

Table 14.3-12: SAR Values (n7–Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	n7	506550	2535	Front 10mm	19.86	20	0.181	**0.19**	0.093	**0.09**	0.17
Body	F	n7	506550	2535	Rear 10mm / Fig.A.67	19.86	20	0.501	**0.52**	0.215	**0.22**	0.00
Body	F	n7	506550	2535	Left Edge 10mm	19.86	20	0.19	**0.20**	0.091	**0.09**	0.00
Body	F	n7	506550	2535	Bottom Edge 10mm	19.86	20	0.303	**0.31**	0.147	**0.15**	0.04
Body	F	n7	506550	2535	Rear 10mm B2	19.86	20	0.471	**0.49**	0.193	**0.19**	0.10

Table 14.3-13: SAR Values (n41–Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	n41	514782	2592.99	Fig.A.68	23.98	24	0.295	**0.30**	0.147	**0.15**	0.15
Tilt	L	n41	514782	2592.99		23.98	24	0.071	**0.07**	0.035	**0.04**	0.03
Cheek	R	n41	514782	2592.99		23.98	24	0.133	**0.13**	0.072	**0.07**	-0.10
Tilt	R	n41	514782	2592.99		23.98	24	0.122	**0.12**	0.058	**0.06**	0.03
Cheek	L	n41	514782	2592.99	B2	23.98	24	0.273	**0.27**	0.122	**0.12**	0.15

Table 14.3-14: SAR Values (n41–Body)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	n41	514782	2592.99	Front 10mm	19.85	20	0.249	**0.26**	0.122	**0.12**	0.16
Body	F	n41	514782	2592.99	Rear 10mm / Fig.A.69	19.85	20	0.503	**0.52**	0.224	**0.22**	-0.17
Body	F	n41	514782	2592.99	Left Edge 10mm	19.85	20	0.207	**0.21**	0.097	**0.10**	0.13
Body	F	n41	514782	2592.99	Bottom Edge 10mm	19.85	20	0.42	**0.43**	0.196	**0.20**	-0.06
Body	F	n41	514782	2592.99	Rear 10mm B2	19.85	20	0.477	**0.49**	0.192	**0.19**	-0.10

Table 14.3-15: SAR Values (n66–Head) – A3

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	n66	348064	1745		17.73	18	0.108	**0.11**	0.066	**0.07**	0.12
Tilt	L	n66	348064	1745		17.73	18	0.074	**0.08**	0.048	**0.05**	-0.08
Cheek	R	n66	348064	1745	Fig.A.70	17.73	18	0.42	**0.45**	0.21	**0.21**	0.13
Tilt	R	n66	348064	1745		17.73	18	0.145	**0.15**	0.08	**0.08**	-0.09
Cheek	R	n66	348064	1745	B2	17.73	18	0.364	**0.39**	0.158	**0.16**	0.10

Table 14.3-16: SAR Values (n66–Body) – A3

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	n66	348064	1745	Front 10mm	21.85	22	0.146	**0.15**	0.081	**0.08**	-0.09
Body	F	n66	348064	1745	Rear 10mm	21.85	22	0.291	**0.30**	0.16	**0.16**	-0.08
Body	F	n66	348064	1745	Left Edge 10mm / Fig.A.71	21.85	22	0.41	**0.42**	0.208	**0.21**	-0.10
Body	F	n66	348064	1745	Top Edge 10mm	21.85	22	0.128	**0.13**	0.073	**0.07**	0.12
Body	F	n66	348064	1745	Left Edge 10mm B2	21.85	22	0.36	**0.37**	0.166	**0.17**	-0.10

Table 14.3-17: SAR Values (n66–Head) – A2

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	n66	348064	1745		22.47	24	0.06	**0.09**	0.034	**0.03**	0.04
Tilt	L	n66	348064	1745		22.47	24	0	**0.00**	0	**0.00**	-0.11
Cheek	R	n66	348064	1745	Fig.A.72	22.47	24	0.081	**0.12**	0.05	**0.05**	0.10
Tilt	R	n66	348064	1745		22.47	24	0.05	**0.07**	0.03	**0.03**	0.14
Cheek	R	n66	348064	1745	B2	22.47	24	0.067	**0.10**	0.028	**0.03**	0.12

Table 14.3-18: SAR Values (n66–Body) – A2

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	n66	342092	1720	Front 10mm	19.96	20	0.306	**0.31**	0.172	**0.17**	-0.08
Body	F	n66	342092	1720	Rear 10mm / Fig.A.73	19.96	20	0.447	**0.45**	0.242	**0.24**	0.08
Body	F	n66	342092	1720	Left Edge 10mm	19.96	20	<0.01	**<0.01**	<0.01	**<0.01**	/
Body	F	n66	342092	1720	Right Edge 10mm	19.96	20	<0.01	**<0.01**	<0.01	**<0.01**	/
Body	F	n66	342092	1720	Bottom Edge 10mm	19.96	20	0.491	**0.50**	0.262	**0.26**	-0.01
Body	F	n66	342092	1720	Rear 10mm B2	19.96	20	0.423	**0.43**	0.232	**0.23**	0.08

Table 14.3-19: SAR Values (n71–Head)

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Cheek	L	n71	132650	665.5		20.92	21	0.32	**0.33**	0.202	**0.20**	0.03
Tilt	L	n71	132650	665.5		20.92	21	0.287	**0.29**	0.168	**0.17**	-0.02
Cheek	R	n71	132650	665.5	Fig.A.74	20.92	21	0.428	**0.44**	0.237	**0.24**	-0.06
Tilt	R	n71	132650	665.5		20.92	21	0.409	**0.42**	0.216	**0.22**	0.17
Cheek	R	n71	132650	665.5	B2	20.92	21	0.408	**0.42**	0.211	**0.21**	-0.02

14.4 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

Table 14.4-1: SAR Values (WLAN - Head)– 802.11b (Fast SAR)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Power Drift (dB)
MHz	Ch.										
2462	11	Left	Cheek	Note1	19.3	19.5	0.275	**0.29**	0.112	**0.12**	0.15
2437	6	Left	Cheek	Note1	18.92	19.5	0.52	**0.59**	0.222	**0.25**	0.01
2412	1	Left	Cheek	Note1	19.29	19.5	0.271	**0.28**	0.111	**0.12**	-0.06
2462	11	Left	Tilt	Note1	19.3	19.5	0.085	**0.09**	0.041	**0.04**	0.07
2462	11	Right	Cheek	Note1	19.3	19.5	0.063	**0.07**	0.035	**0.04**	0.14
2462	11	Right	Tilt	Note1	19.3	19.5	0.023	**0.02**	0.014	**0.01**	0.07
2462	11	Left	Cheek	Note2	15.6	16.5	0.079	**0.10**	0.034	**0.04**	0.12
2437	6	Left	Cheek	Note2	15.78	16.5	0.103	**0.12**	0.0467	**0.06**	-0.12
2412	1	Left	Cheek	Note2	16.24	16.5	0.083	**0.09**	0.035	**0.04**	0.06
2462	11	Left	Tilt	Note2	16.24	16.5	0.046	**0.05**	0.028	**0.03**	-0.14
2462	11	Right	Cheek	Note2	16.24	16.5	0.024	**0.03**	0.014	**0.01**	0.09
2462	11	Right	Tilt	Note2	16.24	16.5	<0.01	<0.01	<0.01	<0.01	/

Note1: The results are used for Wifi transmit standalone.

Note2: The results are used for Wifi transmit with WWAN.

As shown above table, the initial test position for head is “Left Cheek”. So the head SAR of WLAN is presented as below:

Table 14.4-2: SAR Values (WLAN - Head)– 802.11b (Full SAR)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Power Drift (dB)
MHz	Ch.										
2437	6	Left	Cheek	Fig.A.75/ Note1	18.92	19.5	0.518	**0.59**	0.214	**0.24**	0.01
2437	6	Left	Cheek	Fig.A.76/ Note2	15.78	16.5	0.101	**0.12**	0.042	**0.05**	-0.12

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.

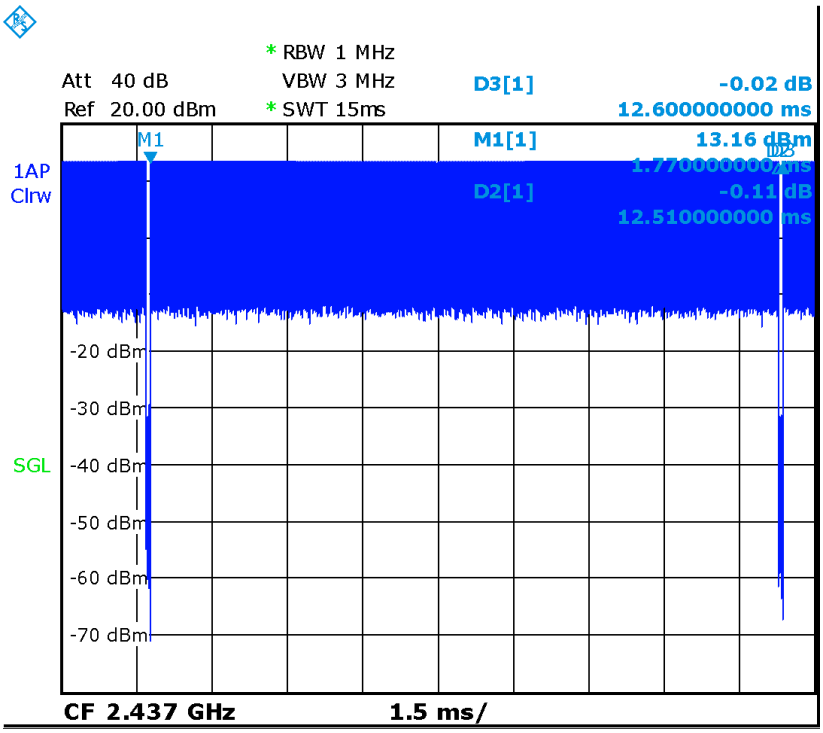
Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg 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 14.4-3: 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.						
2437	6	Left	Cheek	99.3%	100%	**0.59**	**0.59**
2437	6	Left	Cheek	99.3%	100%	**0.12**	**0.12**

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.



Picture 14.4-1 Duty factor plot

Body Evaluation

Table 14.4-4: SAR Values (WLAN - Body)– 802.11b (Fast SAR)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Power Drift (dB)
MHz	Ch.									
2462	11	Front	Note1	19.3	19.5	0.114	**0.12**	0.057	**0.06**	0.06
2462	11	Rear	Note1	19.3	19.5	0.938	**0.98**	0.415	**0.43**	0.07
2437	6	Rear	Note1	18.92	19.5	0.989	**1.13**	0.435	**0.50**	0.01
2412	1	Rear	Note1	19.29	19.5	0.762	**0.80**	0.333	**0.35**	-0.09
2462	11	Right	Note1	19.3	19.5	0.766	**0.80**	0.337	**0.35**	0.09
2462	11	Top	Note1	19.3	19.5	0.06	**0.06**	0.033	**0.03**	-0.13
2437	6	Front	Note2	10.96	11.3	<0.01	<0.01	<0.01	<0.01	/
2437	6	Rear	Note2	10.96	11.3	0.146	**0.16**	0.0666	**0.07**	0.07
2437	6	Right	Note2	10.96	11.3	0.067	**0.07**	0.029	**0.03**	-0.09
2437	6	Top	Note2	10.96	11.3	<0.01	<0.01	<0.01	<0.01	/

Note1: The results are used for Wifi transmit standalone.

Note2: The results are used for Wifi transmit with WWAN.

Note3: The distance between the EUT and the phantom bottom is 10mm.

As shown above table, the initial test position for body is “Rear”. So the body SAR of WLAN is presented as below:

Table 14.4-5: SAR Values (WLAN - Body)– 802.11b (Full SAR)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
MHz	Ch.									
2462	11	Rear	Note1	19.3	19.5	1.03	**1.08**	0.435	**0.46**	0.07
2437	6	Rear	Fig.A.77/ Note1	18.92	19.5	1.09	**1.25**	0.457	**0.52**	0.01
2412	1	Rear	Note1	19.29	19.5	0.838	**0.88**	0.353	**0.37**	-0.09
2437	6	Rear	Fig.A.78/ Note2	10.96	11.3	0.189	**0.20**	0.0779	**0.08**	0.07

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.

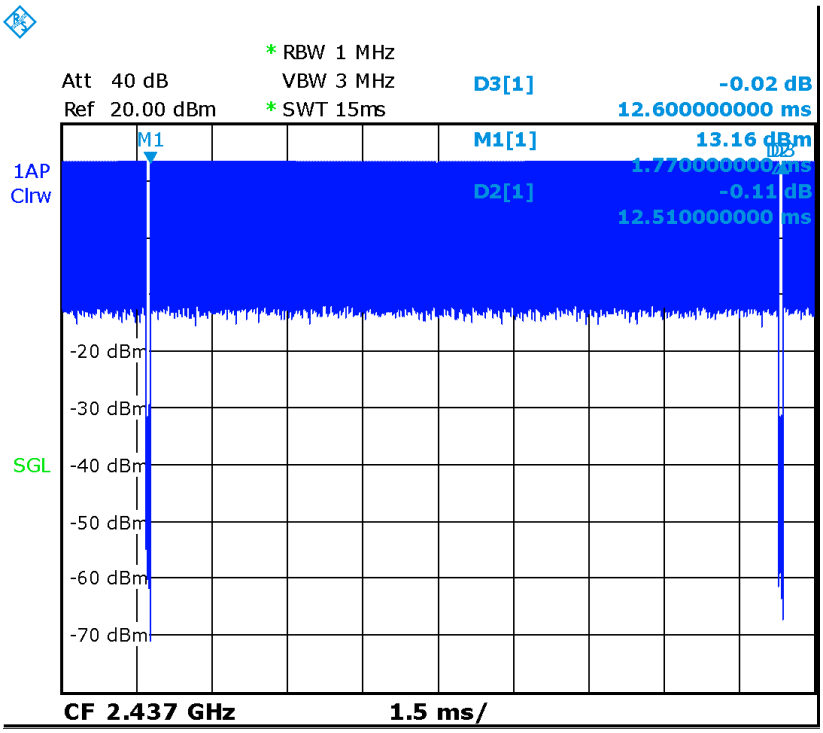
Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg 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 14.4-6: 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	99.3%	100%	**1.25**	**1.26**
2437	6	Rear	99.3%	100%	**0.20**	**0.20**

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.



Picture 14.4-2 Duty factor plot

14.5 WLAN Evaluation For 5G

Table 14.5-1: 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	X	
U-NII-2A	X	X	X	X	X	X	X	
U-NII-2C	X	X	X	X	X	X	X	
U-NII-3	X	X	X	X	X	X	X	
§ 15.247 (5.8 GHz)								
X: maximum(conducted) output power(mW), including tolerance, specified for production units								

Table 14.5-2: Maximum output power specified of WLAN antenna – Normal power

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	63		46	44	45	43	32	
U-NII-2A	63		43	40	45	40	32	
U-NII-2C	60		40	45	40	45	35	
U-NII-3	59		40	40	40	40	40	
§ 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 14.5-3: Maximum output power specified of WLAN antenna – Low power

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	10		7	8	7	8	8	
U-NII-2A	10		7	8	7	8	8	
U-NII-2C	13		7	8	7	8	8	
U-NII-3	10		10	8	10	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 14.5-4: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations – Normal power

802.11 Mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 **53/58/56/51**	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 **45/42/40/40**	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	100/104/108/112 116/120/124/128/ 132/136/140/144 **45/46/51/54/53/52/ 51/53/58/59/53/51**	100/104/108/112 116/120/124/128/ 132/136/140/144 Lower power	102/110/118/ 126/134/142 Lower power	100/104/108/112 116/120/124/128/ 132/136/140/144 Lower power	102/110/118/ 126/134/142 Lower power	106 Lower power
U-NII-3	149/153/157/161/ 165 **47/48/53/54/52**	149/153/157/161/ 165 Lower power	151/159 Lower power	149/153/157/161 /165 Lower power	151/159 Lower power	155 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 14.5-5: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations – Low power

802.11 Mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 **8/9/9/8**	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 **7/6/7/8**	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	100/104/108/112 116/120/124/128/ 132/136/140/144 **9/10/11/10/10/9/10 /12/9/11/10/9**	100/104/108/112 116/120/124/128/ 132/136/140/144 Lower power	102/110/118/ 126/134/142 Lower power	100/104/108/112 116/120/124/128/ 132/136/140/144 Lower power	102/110/118/ 126/134/142 Lower power	106 Lower power
U-NII-3	149/153/157/161/ 165 **9/9/10/10/10**	149/153/157/161/ 165 Lower power	151/159 Lower power	149/153/157/161 /165 Lower power	151/159 Lower power	155 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 14.5-6: Reported SAR of initial test configuration for Head for standalone and simultaneous

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
U-NII-2A	52/56/60/64 **0.18**	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 **0.18**	100/104/108/112/ 116/120/124/128/ 132/136/140/144	102/110/ 118/126/ 134/142	100/104/108/112/ 116/120/124/128/ 132/136/140/144	102/110/ 118/126/ 134/142	106
U-NII-3	149/153/157/161/165 **0.07**	149/153/157/161 /165	151/159	149/153/157/161 /165	151/159	155
Highest measured output power channel tested initially are in yellow highlight.						

Table 14.5-7: Reported SAR of initial test configuration for Body for 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
U-NII-2A	52/56/60/64 **0.16**	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 **0.68/1.39/1.12**	100/104/108/112/ 116/120/124/128/ 132/136/140/144	102/110/ 118/126/ 134/142	100/104/108/112/ 116/120/124/128/ 132/136/140/144	102/110/ 118/126/ 134/142	106
U-NII-3	149/153/157/161/165 **1.26/0.88/0.94**	149/153/157/161 /165	151/159	149/153/157/161 /165	151/159	155
Initial test configuration SAR for U-NII-2A band is > 0.8 W/kg, SAR is required for next highest output channel in initial test configuration. The next highest output channel SAR is ≤ 1.2 W/kg, SAR is not required for subsequent next highest output channel. Similar circumstances apply to U-NII-1, U-NII-2C band and U-NII-3 band. The green highlighted channels are next highest measured output channel in the initial test configuration. Highest measured output power channel tested initially are in yellow highlight.						

Table 14.5-8: Reported SAR of initial test configuration for Body for simultaneous

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
U-NII-2A	52/56/60/64 **0.07**	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 **0.10**	100/104/108/112/ 116/120/124/128/ 132/136/140/144	102/110/ 118/126/ 134/142	100/104/108/112/ 116/120/124/128/ 132/136/140/144	102/110/ 118/126/ 134/142	106
U-NII-3	149/153/157/161/165 **0.08**	149/153/157/161 /165	151/159	149/153/157/161 /165	151/159	155
Highest measured output power channel tested initially are in yellow highlight.						

Table 14.5-9: SAR Values (WLAN 5G - Head)

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz										
52	5260	Left	Cheek	/	16.5	18	0.126	**0.18**	0.033	**0.05**	0.09
52	5260	Left	Tilt	/	16.5	18	0.085	**0.12**	0.024	**0.03**	-0.12
52	5260	Right	Cheek	/	16.5	18	0.035	**0.05**	0.01	**0.01**	0.09
52	5260	Right	Tilt	/	16.5	18	0.027	**0.04**	0.008	**0.01**	-0.09
136	5680	Left	Cheek	Fig.A.79	17.69	17.8	0.171	**0.18**	0.0523	**0.05**	0.08
136	5680	Left	Tilt	/	17.69	17.8	0.165	**0.17**	0.0511	**0.05**	-0.12
136	5680	Right	Cheek	/	17.69	17.8	0.093	**0.10**	0.028	**0.03**	0.03
136	5680	Right	Tilt	/	17.69	17.8	0.091	**0.09**	0.027	**0.03**	-0.07
161	5805	Left	Cheek	/	17.31	17.7	0.063	**0.07**	0.017	**0.02**	0.03
161	5805	Left	Tilt	/	17.31	17.7	0.06	**0.07**	0.015	**0.02**	-0.17
161	5805	Right	Cheek	/	17.31	17.7	0.032	**0.04**	0.009	**0.01**	0.15
161	5805	Right	Tilt	/	17.31	17.7	0.027	**0.03**	0.008	**0.01**	0.09

Note: The results are used for Wifi transmit standalone and simultaneous.

Table 14.5-10: SAR Values (WLAN 5G - Body)

Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz									
52	5260	Front	Note1	16.5	18	0.024	**0.03**	0.008	**0.01**	0.15
52	5260	Rear	Note1	16.5	18	0.112	**0.16**	0.038	**0.05**	0.00
52	5260	Right	Note1	16.5	18	0.057	**0.08**	0.021	**0.03**	-0.09
52	5260	Top	Note1	16.5	18	0.043	**0.06**	0.015	**0.02**	0.14
136	5680	Front	Note1	17.69	17.8	0.108	**0.11**	0.041	**0.04**	0.12
136	5680	Rear	Note1	17.69	17.8	1.04	**1.07**	0.376	**0.39**	0.08
132	5660	Rear	Fig.A.80/ Note1	17.63	17.8	1.28	**1.33**	0.454	**0.47**	0.00
112	5560	Rear	Note1	17.31	17.8	0.582	**0.65**	0.206	**0.23**	0.06
136	5680	Right	Note1	17.69	17.8	0.29	**0.30**	0.126	**0.13**	-0.13
136	5680	Top	Note1	17.69	17.8	0.326	**0.33**	0.13	**0.13**	-0.17
161	5805	Front	Note1	17.31	17.7	0.059	**0.06**	0.024	**0.03**	0.12
161	5805	Rear	Note1	17.31	17.7	0.804	**0.88**	0.273	**0.30**	-0.09
157	5785	Rear	Note1	17.26	17.7	1.14	**1.26**	0.389	**0.43**	0.09
165	5825	Rear	Note1	17.16	17.7	0.827	**0.94**	0.28	**0.32**	0.07
161	5805	Right	Note1	17.31	17.7	0.232	**0.25**	0.095	**0.10**	0.04
161	5805	Top	Note1	17.31	17.7	0.185	**0.20**	0.074	**0.08**	-0.07
64	5320	Front	Note2	9.2	9.9	<0.01	<0.01	<0.01	<0.01	/
64	5320	Rear	Note2	9.2	9.9	0.057	**0.07**	0.021	**0.02**	0.00
64	5320	Right	Note2	9.2	9.9	<0.01	<0.01	<0.01	<0.01	/

64	5320	Top	Note2	9.2	9.9	<0.01	<0.01	<0.01	<0.01	/
128	5640	Front	Note2	10.95	11.2	0.081	**0.09**	0.01	**0.01**	-0.06
128	5640	Rear	Fig.A.81/ Note2	10.95	11.2	0.092	**0.10**	0.03	**0.03**	0.02
128	5640	Right	Note2	10.95	11.2	0.059	**0.06**	0.012	**0.01**	-0.13
128	5640	Top	Note2	10.95	11.2	0.022	**0.02**	0.008	**0.01**	0.11
157	5785	Front	Note2	9.99	10.2	0.054	**0.06**	0.0154	**0.02**	-0.07
157	5785	Rear	Note2	9.99	10.2	0.0739	**0.08**	0.0226	**0.02**	0.09
157	5785	Right	Note2	9.99	10.2	<0.01	<0.01	<0.01	<0.01	/
157	5785	Top	Note2	9.99	10.2	0.013	**0.01**	0.005	**0.00**	0.00

Note1: The results are used for Wifi transmit standalone.

Note2: The results are used for Wifi transmit with WWAN.

Note3: The distance between the EUT and the phantom bottom is 10mm.

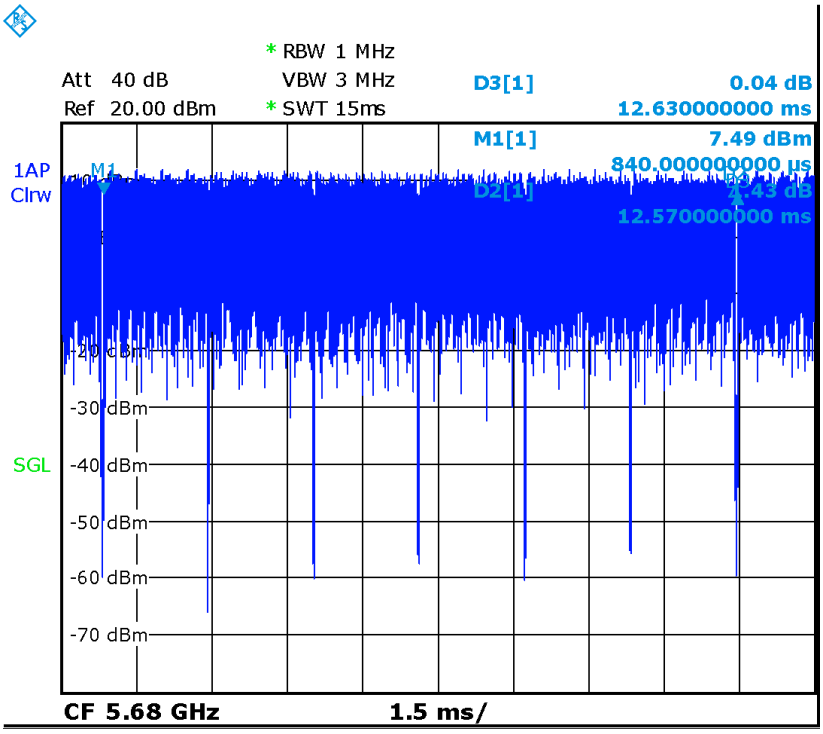
According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

Table 14.5-11: SAR Values (WLAN 5G - Head) (Scaled Reported SAR)

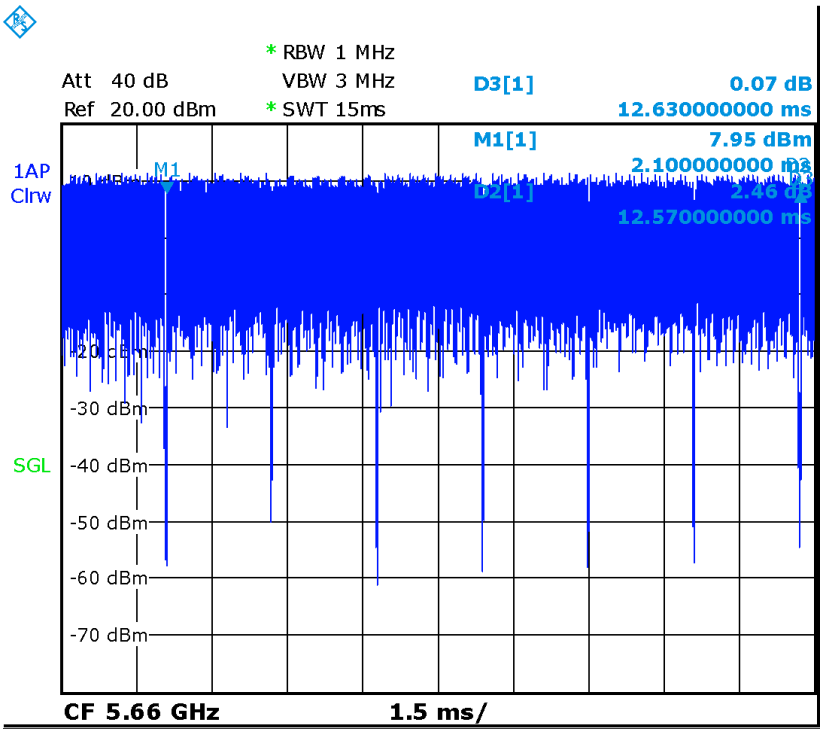
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
Ch.	MHz						
136	5680	Left	Cheek	99.5%	100%	**0.18**	**0.18**

Table 14.5-12 SAR Values (WLAN 5G - Body) (Scaled Reported SAR)

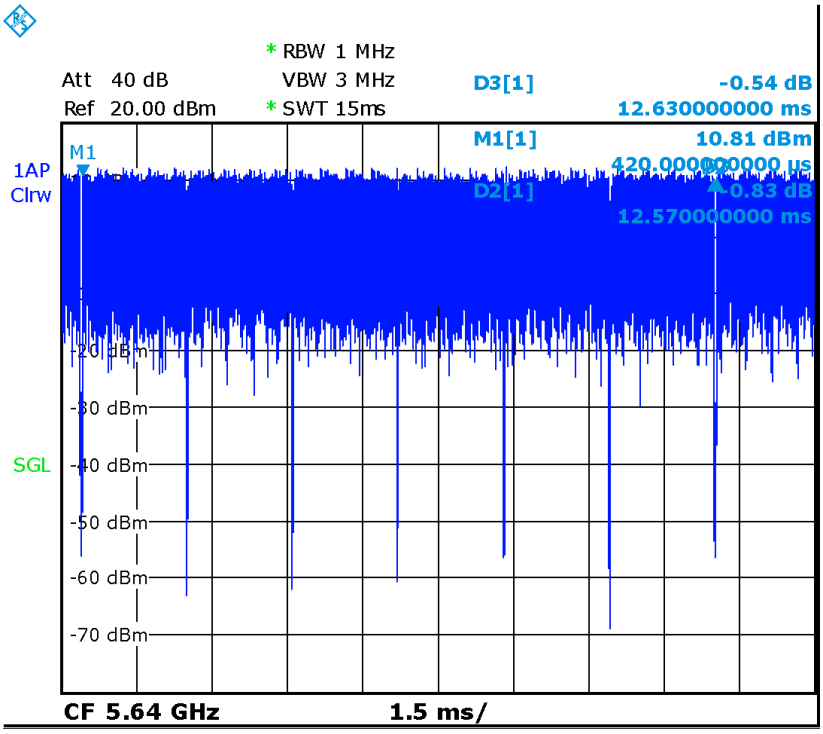
Frequency		Test Position	D (mm)	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
Ch.	MHz						
132	5660	Rear	10	99.5%	100%	**1.33**	**1.34**
128	5640	Rear	10	99.5%	100%	**0.10**	**0.10**



Picture 14.5-1 The plot of duty factor for Head



Picture 14.5-2 The plot of duty factor for Body 10mm-Transmit alone



Picture 14.5-3 The plot of duty factor for Body 10mm-Transmit with WWAN

14.6 SAR results for BT

Table 14.6-1: SAR Values (BT - Head)

Frequency		Side	Test Position	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									
0	2402	Left	Cheek	11.29	11.5	<0.01	<0.01	<0.01	<0.01	/
0	2402	Left	Tilt	11.29	11.5	<0.01	<0.01	<0.01	<0.01	/
0	2402	Right	Cheek	11.29	11.5	<0.01	<0.01	<0.01	<0.01	/
0	2402	Right	Tilt	11.29	11.5	<0.01	<0.01	<0.01	<0.01	/

Table 14.6-2: SAR Values (BT - Body)

Frequency		Test Position	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								
0	2402	Front	11.29	11.5	<0.01	<0.01	<0.01	<0.01	/
0	2402	Rear	11.29	11.5	<0.01	<0.01	<0.01	<0.01	/
0	2402	Right	11.29	11.5	<0.01	<0.01	<0.01	<0.01	/
0	2402	Top	11.29	11.5	<0.01	<0.01	<0.01	<0.01	/

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

14.7 SAR results for 10-g extremity SAR

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

Test Position	Phantom position L/R/F	Frequency Band	Channel Number	Frequency (MHz)	Test setup / Figure No.	Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	F	WCDMA1900	9538	1907.6	Left Edge 0mm	23.66	24	8.92	**9.65**	3.52	**3.81**	0.06
Body	F	WCDMA1900	9400	1880	Left Edge 0mm	23.71	24	7.22	**7.72**	2.91	**3.11**	-0.07
Body	F	WCDMA1900	9262	1852.4	Left Edge 0mm	23.58	24	6.79	**7.48**	2.68	**2.95**	0.16
Body	F	LTE Band66	132572	1770	1RB-High Rear 0mm	23.52	24.5	5.35	**6.70**	2.41	**3.02**	0.12
Body	F	LTE Band66	132322	1745	1RB-High Rear 0mm	23.55	24.5	5.51	**6.86**	2.48	**3.09**	0.06
Body	F	LTE Band66	132072	1720	1RB-High Rear 0mm	23.57	24.5	4.95	**6.13**	2.22	**2.75**	-0.03
Body	F	LTE Band66	132572	1770	1RB-High Left Edge 0mm	23.52	24.5	6.25	**7.83**	2.12	**2.66**	0.13
Body	F	LTE Band66	132322	1745	1RB-High Left Edge 0mm	23.55	24.5	6.72	**8.36**	2.27	**2.83**	0.06
Body	F	LTE Band66	132072	1720	1RB-High Left Edge 0mm	23.57	24.5	6.91	**8.56**	2.66	**3.30**	0.19
Body	F	WLAN	6	2437	Rear 0mm	18.92	19.5	7.72	**8.82**	2.3	**2.63**	-0.17
Body	F	WLAN	6	2437	Rear 0mm for transmit simultaneous	10.96	11.3	0.688	**0.74**	0.213	**0.23**	0.01
Body	F	WLAN	132	5660	Rear 0mm	17.61	17.8	13.2	**13.79**	3.2	**3.34**	0.03
Body	F	WLAN	128	5640	Rear 0mm for transmit simultaneous	10.95	11.2	0.889	**0.94**	0.226	**0.24**	0.01

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; steps2) 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 ≥ 1.45W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20

Table 15.1: SAR Measurement Variability for Head GSM850 (1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
128	824.2	Right Cheek	0	0.901	0.879	1.03	/
128	824.2	Right Tilt	0	1.11	1.05	1.06	/

Table 15.2: SAR Measurement Variability for Head GSM1900 (1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
661	1880	Right Cheek	0	1.03	0.968	1.06	/

Table 15.3: SAR Measurement Variability for Body GSM1900 (1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
512	1850.2	Rear	10	0.935	0.918	1.02	/

Table 15.4: SAR Measurement Variability for Head WCDMA1900(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
9538	1907.6	Right Cheek	0	0.883	0.856	1.03	/

Table 15.5: SAR Measurement Variability for Body WCDMA1900(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
9262	1852.4	Rear	10	1	0.989	1.01	/
9538	1907.6	Left	10	1.2	1.13	1.06	/

Table 15.6: SAR Measurement Variability for Head WCDMA1700(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
1513	1752.6	Right Cheek	0	1.1	1.03	1.07	/

Table 15.7: SAR Measurement Variability for Head WCDMA850(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
4132	826.4	Left Cheek	0	0.903	0.862	1.05	/
4132	826.4	Left Tilt	0	0.851	0.841	1.01	/
4132	826.4	Right Cheek	0	1.21	1.17	1.03	/
4132	826.4	Right Tilt	0	1.14	1.08	1.06	/

Table 15.8: SAR Measurement Variability for Head LTE Band2(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
18900	1880	Right Cheek	0	0.965	0.943	1.02	/

Table 15.9: SAR Measurement Variability for Head LTE Band4(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
20300	1745	Right Cheek	0	1.01	0.988	1.02	/

Table 15.10: SAR Measurement Variability for Head LTE Band5(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
20450	829	Right Cheek	0	1.12	1.05	1.07	/
20450	829	Right Tilt	0	1.19	1.15	1.03	/

Table 15.11: SAR Measurement Variability for Body LTE Band7(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
21350	2560	Rear	10	0.859	0.832	1.03	/

Table 15.12: SAR Measurement Variability for Head LTE Band12(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
23060	704	Left Cheek	0	0.831	0.811	1.02	/
23060	704	Right Cheek	0	0.966	0.943	1.02	/
23060	704	Right Tilt	0	0.983	0.956	1.03	/

Table 15.13: SAR Measurement Variability for Head LTE Band13(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
23230	782	Right Cheek	0	0.963	0.95	1.01	/
23230	782	Right Tilt	0	0.986	0.967	1.02	/

Table 15.14: SAR Measurement Variability for Head LTE Band14(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
23330	793	Right Cheek	0	0.9	0.851	1.06	/
23330	793	Right Tilt	0	0.927	0.91	1.02	/

Table 15.15: SAR Measurement Variability for Head LTE Band25(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
26140	1860	Right Cheek	0	1.06	0.992	1.06	/
26140	1860	Right Tilt	0	0.927	0.91	1.07	/

Table 15.16: SAR Measurement Variability for Body LTE Band25(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
26365	1882.5	Rear	10	0.916	0.861	1.06	/
26590	1905	Left	10	0.838	0.813	1.03	/

Table 15.17: SAR Measurement Variability for Head LTE Band26(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
26775	822.5	Right Cheek	0	0.821	0.805	1.02	/
26775	822.5	Right Tilt	0	0.877	0.841	1.04	/

Table 15.18: SAR Measurement Variability for Head LTE Band48(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
56640	3690	Left Cheek	0	0.929	0.901	1.03	/
56640	3690	Right Cheek	0	1.03	0.989	1.04	/

Table 15.19: SAR Measurement Variability for Body LTE Band48(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
56640	3690	Left	10	1.06	0.997	1.06	/

Table 15.20: SAR Measurement Variability for Head LTE Band66(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
132572	1770	Left Cheek	0	1.07	1.02	1.05	/

Table 15.21: SAR Measurement Variability for Body LTE Band66(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
132322	1745	Rear	10	1.01	0.985	1.03	/
132322	1745	Rear	10	1.11	1.05	1.06	/

Table 15.22: SAR Measurement Variability for Head LTE Band71(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
133222	673	Right Cheek	0	1.01	0.988	1.02	/
133222	673	Right Tilt	0	0.899	0.874	1.03	/

Table 15.23: SAR Measurement Variability for Head 5G NR-n66(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
348064	1745	Right Cheek	0	1.17	1.09	1.07	/

Table 15.24: SAR Measurement Variability for Head 5G NR-n71(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
134192	680.5	Right Tilt	0	0.897	0.871	1.03	/

Table 15.25: SAR Measurement Variability for Body WIFI2450(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
6	2437	Rear	10	1.09	1.06	1.03	/

Table 15.26: SAR Measurement Variability for Body WIFI5G(1g)

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
132	5660	Rear	10	1.28	1.18	1.08	/

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	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	∞
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	√3	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	√3	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	√3	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	√3	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	√3	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	√3	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	√3	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	√3	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	√3	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.8	R	√3	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	√3	1	1	3.9	3.9	∞
13	Post-processing	B	4.0	R	√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	√3	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	√3	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	√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	√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		$u_c^{'} = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						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	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	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 D3500V2	1016	July 27,2020	One year
16	Dipole Validation Kit	SPEAG D5GHzV2	1060	July 27,2020	One year

END OF REPORT BODY

ANNEX A Graph Results

GSM850_CH128 Right Tilt
Date: 1/24/2021
Electronics: DAE4 Sn536
Medium: head 835 MHz
Medium parameters used: f = 824.2 MHz; σ = 0.874 mho/m; εr = 41.46; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: GSM850 824.2 MHz Duty Cycle: 1:8.3
Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.95 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 38.7 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 3.97 W/kg
SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.489 W/kg
Maximum value of SAR (measured) = 2.45 W/kg

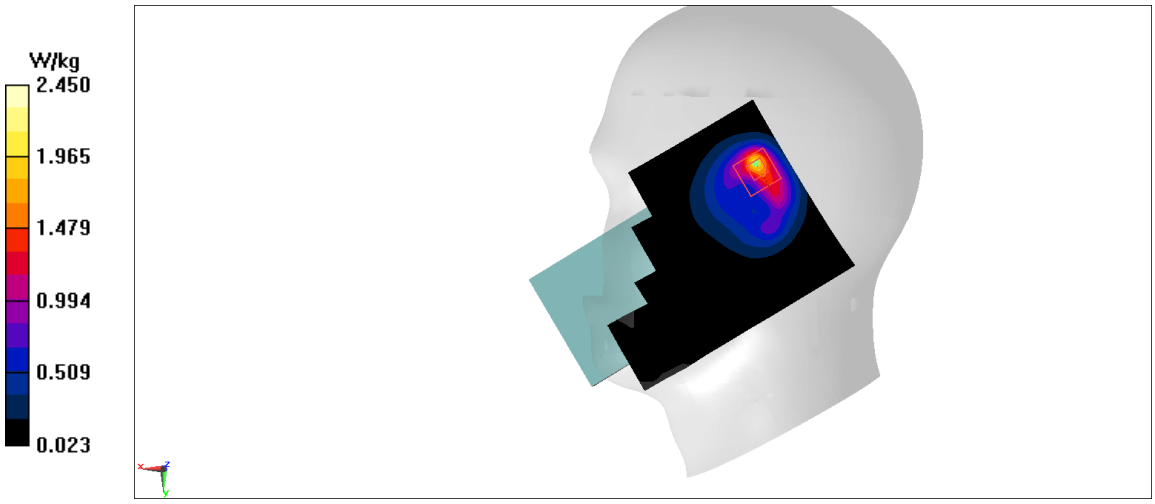


Fig A.1

GSM850_CH190 Rear 10mm
Date: 1/24/2021
Electronics: DAE4 Sn536
Medium: head 835 MHz
Medium parameters used: f = 836.6 MHz; σ = 0.886 mho/m; εr = 41.45; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: GSM850 836.6 MHz Duty Cycle: 1:8.3
Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.599 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.61 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.737 W/kg
SAR(1 g) = 0.411 W/kg; SAR(10 g) = 0.236 W/kg
Maximum value of SAR (measured) = 0.608 W/kg

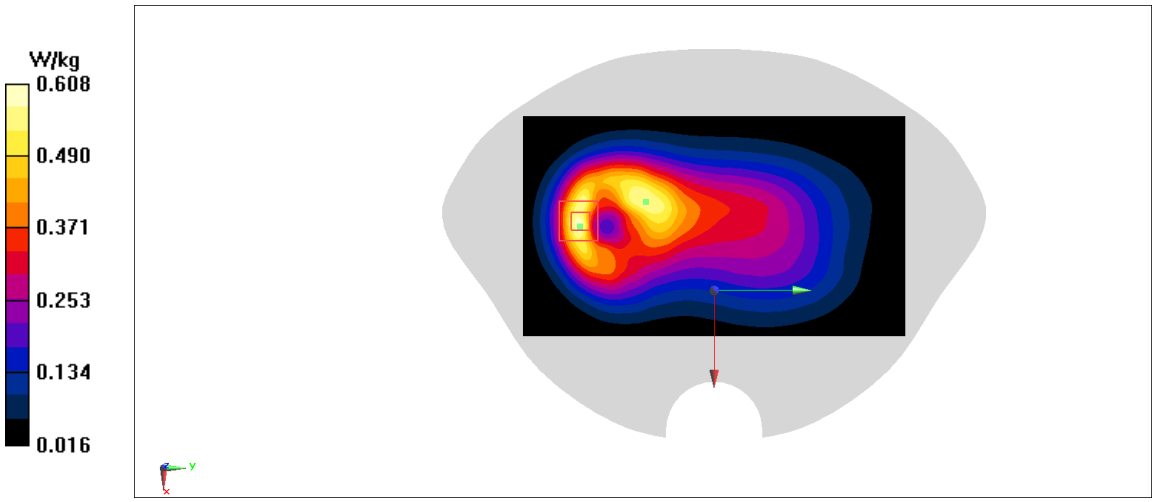


Fig A.2

PCS1900_CH661 Right Cheek
Date: 1/28/2021
Electronics: DAE4 Sn536
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.363 mho/m; εr = 39.35; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: PCS1900 1880 MHz Duty Cycle: 1:2.67
Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.92 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.946 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.492 W/kg
Maximum value of SAR (measured) = 1.7 W/kg

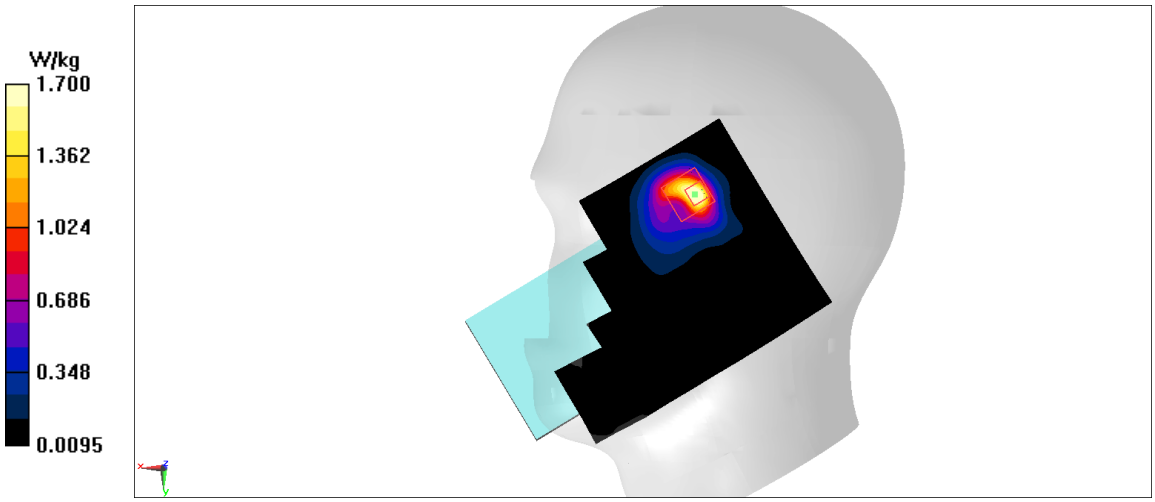


Fig A.3

PCS1900_CH512 Rear 10mm
Date: 1/28/2021
Electronics: DAE4 Sn536
Medium: head 1900 MHz
Medium parameters used: f = 1850.2 MHz; σ = 1.334 mho/m; εr = 39.39; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: PCS1900 1850.2 MHz Duty Cycle: 1:8.3
Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.44 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.65 W/kg
SAR(1 g) = 0.935 W/kg; SAR(10 g) = 0.53 W/kg
Maximum value of SAR (measured) = 1.4 W/kg

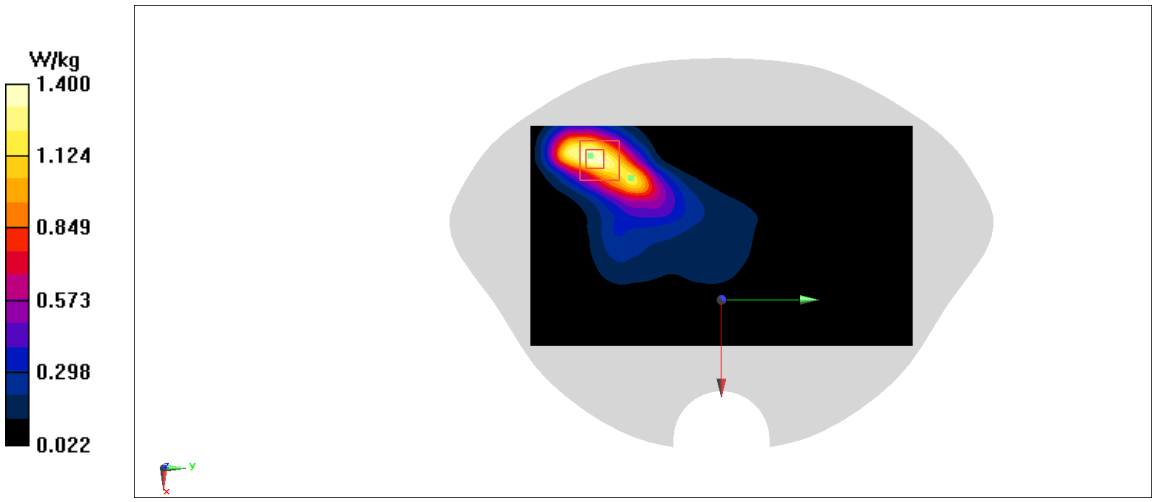


Fig A.4

WCDMA1900-BII_CH9538 Right Cheek
Date: 1/28/2021
Electronics: DAE4 Sn536
Medium: head 1900 MHz
Medium parameters used: f = 1907.6 MHz; σ = 1.39 mho/m; εr = 39.32; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1907.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.57 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.947 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.97 W/kg
SAR(1 g) = 0.883 W/kg; SAR(10 g) = 0.429 W/kg
Maximum value of SAR (measured) = 1.55 W/kg

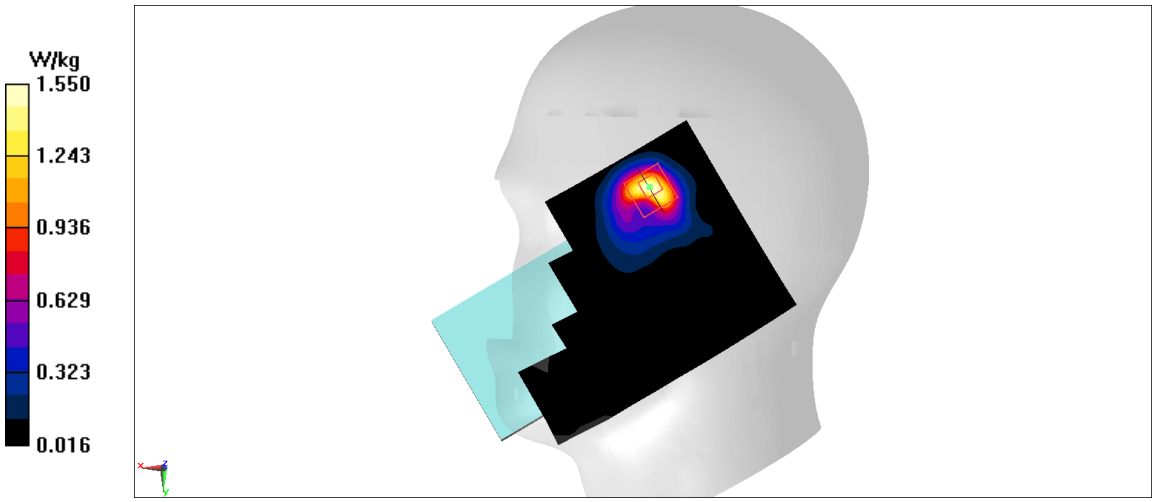


Fig A.5

WCDMA1900-BII_CH9538 Left 10mm
Date: 1/28/2021
Electronics: DAE4 Sn536
Medium: head 1900 MHz
Medium parameters used: f = 1907.6 MHz; σ = 1.39 mho/m; εr = 39.32; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1907.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.96 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.99 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 2.33 W/kg
SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.596 W/kg
Maximum value of SAR (measured) = 1.92 W/kg

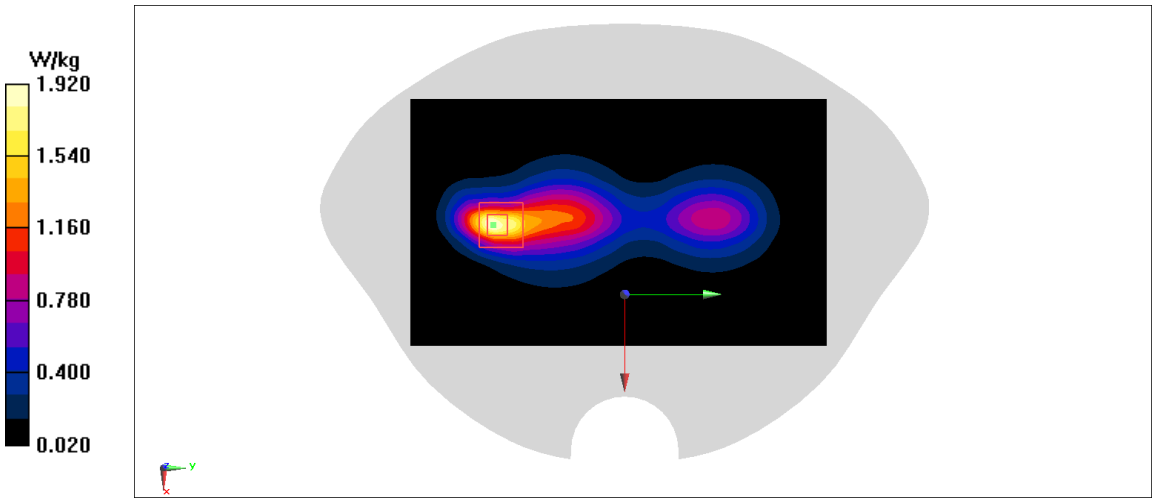


Fig A.6

WCDMA1700-BIV_CH1513 Right Cheek
Date: 1/26/2021
Electronics: DAE4 Sn536
Medium: head 1750 MHz
Medium parameters used: f = 1752.6 MHz; σ = 1.377 mho/m; εr = 39.44; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1700-BIV 1752.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.89 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.672 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.57 W/kg
SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.521 W/kg
Maximum value of SAR (measured) = 1.97 W/kg

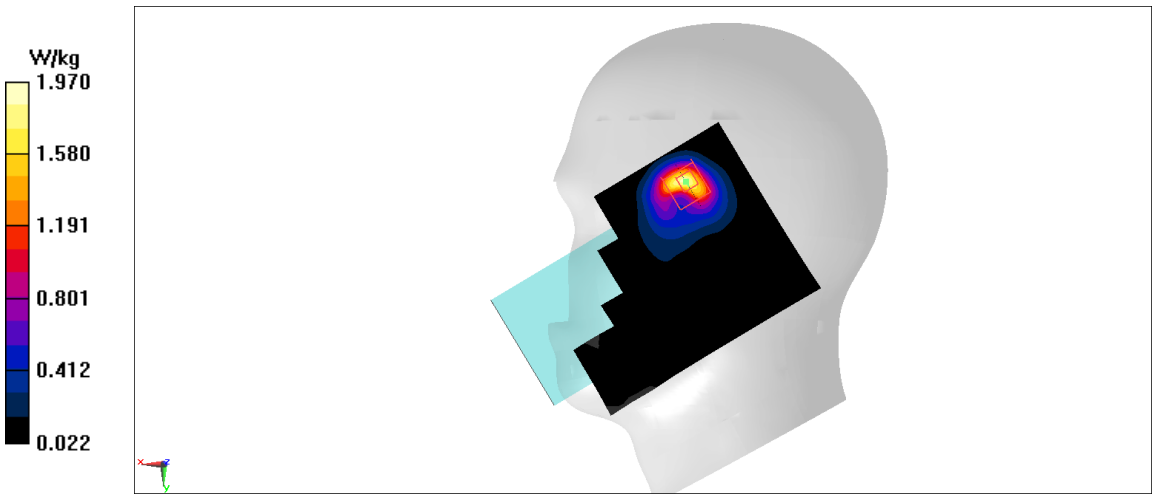


Fig A.7

WCDMA1700-BIV_CH1513 Rear 10mm
Date: 1/26/2021
Electronics: DAE4 Sn536
Medium: head 1750 MHz
Medium parameters used: f = 1752.6 MHz; σ = 1.377 mho/m; εr = 39.44; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1700-BIV 1752.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.589 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.67 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.796 W/kg
SAR(1 g) = 0.451 W/kg; SAR(10 g) = 0.25 W/kg
Maximum value of SAR (measured) = 0.674 W/kg

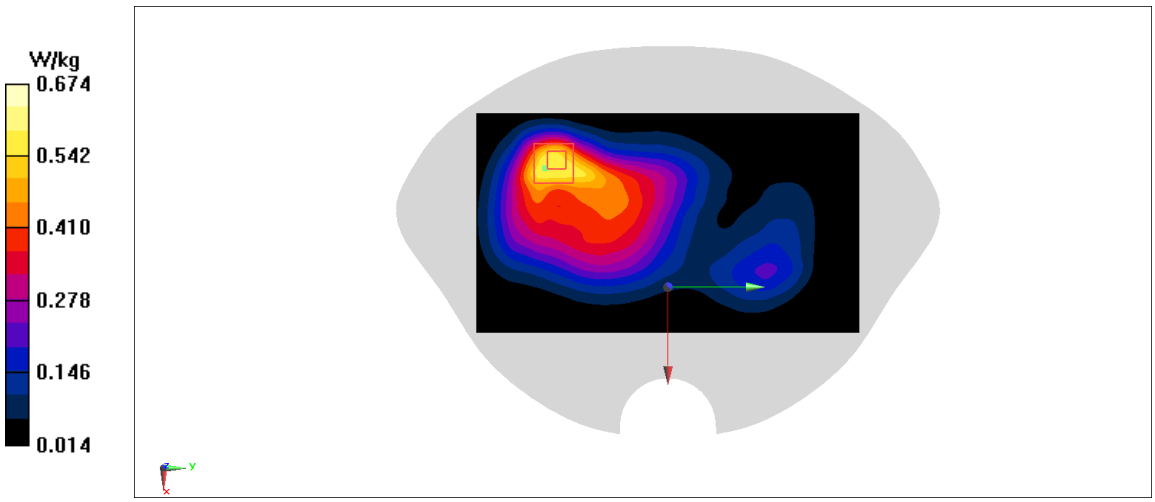


Fig A.8

WCDMA850-BV_CH4132 Right Cheek
Date: 1/24/2021
Electronics: DAE4 Sn536
Medium: head 835 MHz
Medium parameters used: f = 826.4 MHz; σ = 0.875 mho/m; εr = 41.46; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA850-BV 826.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.87 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 41.42 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.55 W/kg
SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.66 W/kg
Maximum value of SAR (measured) = 2.34 W/kg

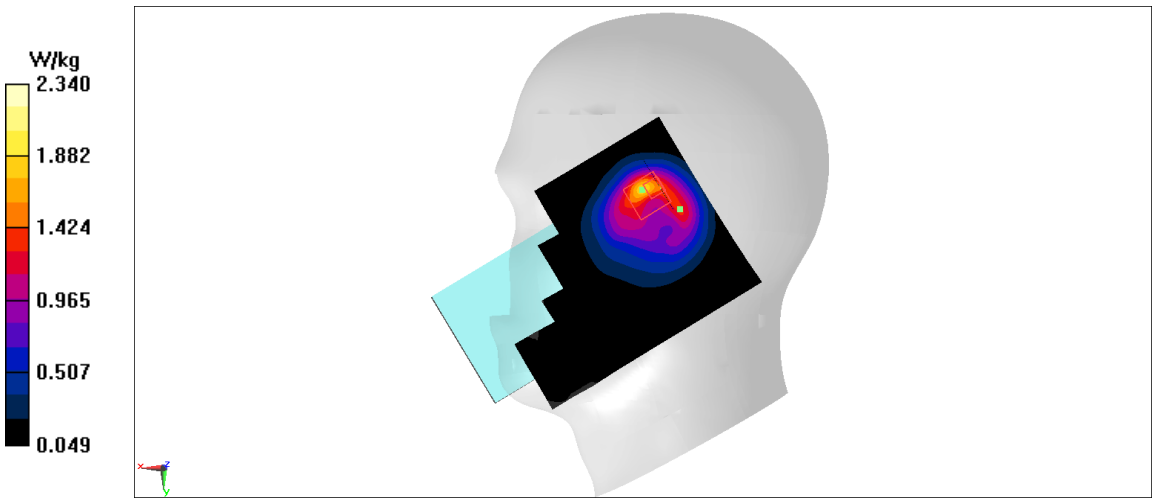


Fig A.9

WCDMA850-BV_CH4183 Rear 10mm
Date: 1/24/2021
Electronics: DAE4 Sn536
Medium: head 835 MHz
Medium parameters used: f = 836.6 MHz; σ = 0.886 mho/m; εr = 41.45; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA850-BV 836.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.644 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.62 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.883 W/kg
SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.279 W/kg
Maximum value of SAR (measured) = 0.715 W/kg

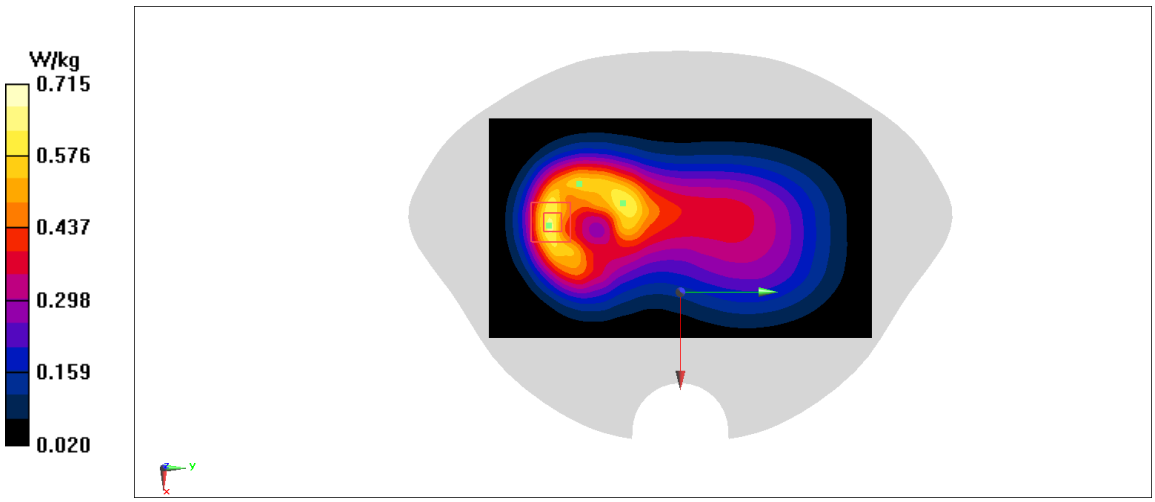


Fig A.10

LTE1900-FDD2_CH18900 Right Cheek
Date: 1/28/2021
Electronics: DAE4 Sn536
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.363 mho/m; εr = 39.35; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.45 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.666 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.98 W/kg
SAR(1 g) = 0.965 W/kg; SAR(10 g) = 0.463 W/kg
Maximum value of SAR (measured) = 1.56 W/kg

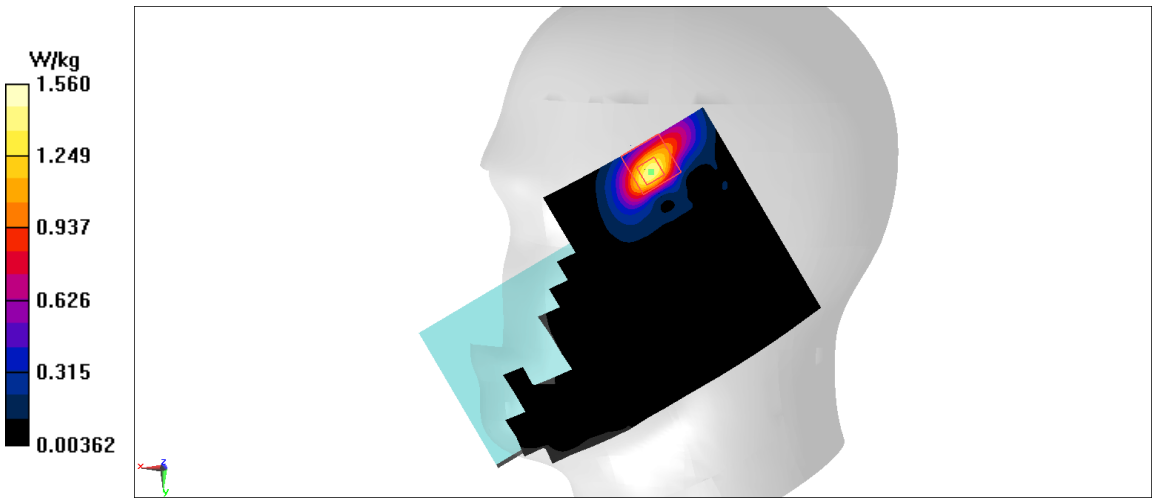


Fig A.11

LTE1900-FDD2_CH18900 Rear 10mm
Date: 1/28/2021
Electronics: DAE4 Sn536
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.363 mho/m; εr = 39.35; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.33,8.33,8.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.831 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.92 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.334 W/kg
Maximum value of SAR (measured) = 0.894 W/kg

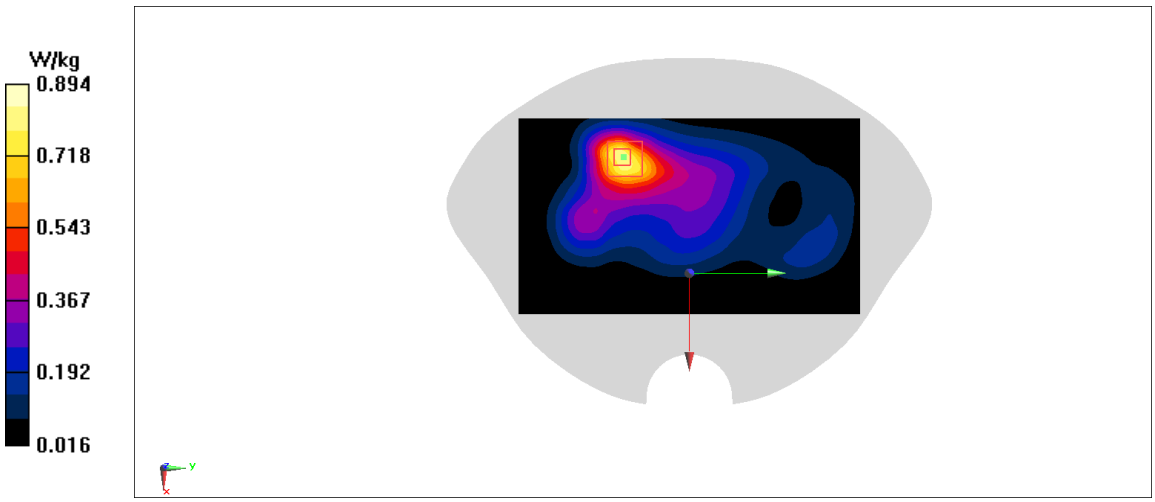


Fig A.12

LTE1700-FDD4_CH20300 Right Cheek
Date: 1/26/2021
Electronics: DAE4 Sn536
Medium: head 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.369 mho/m; εr = 39.45; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD4 1745 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.73 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.14 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.3 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.488 W/kg
Maximum value of SAR (measured) = 1.79 W/kg

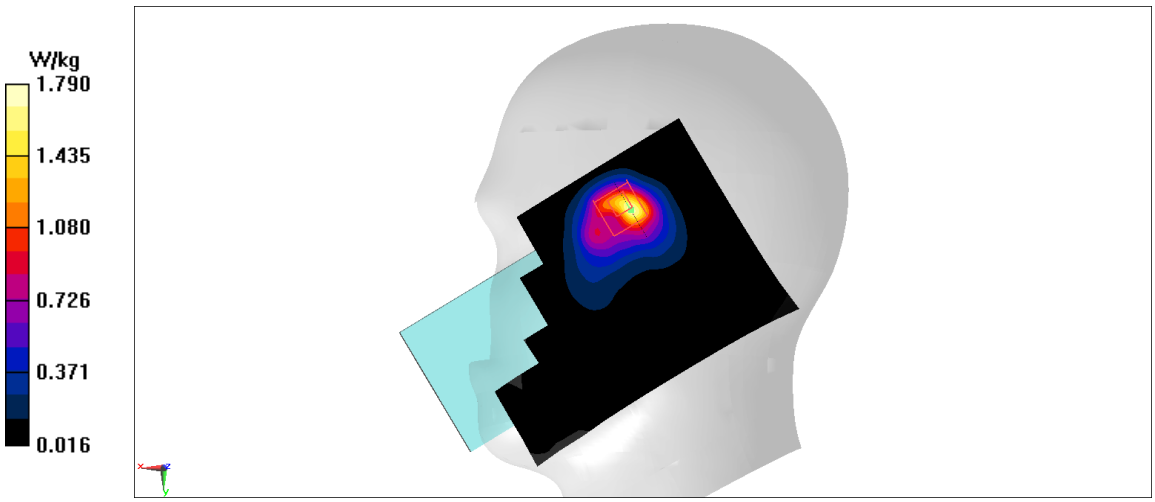


Fig A.13

LTE1700-FDD4_CH20300 Left 10mm
Date: 1/26/2021
Electronics: DAE4 Sn536
Medium: head 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.369 mho/m; εr = 39.45; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD4 1745 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.05 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.87 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.4 W/kg
SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.379 W/kg
Maximum value of SAR (measured) = 1.14 W/kg

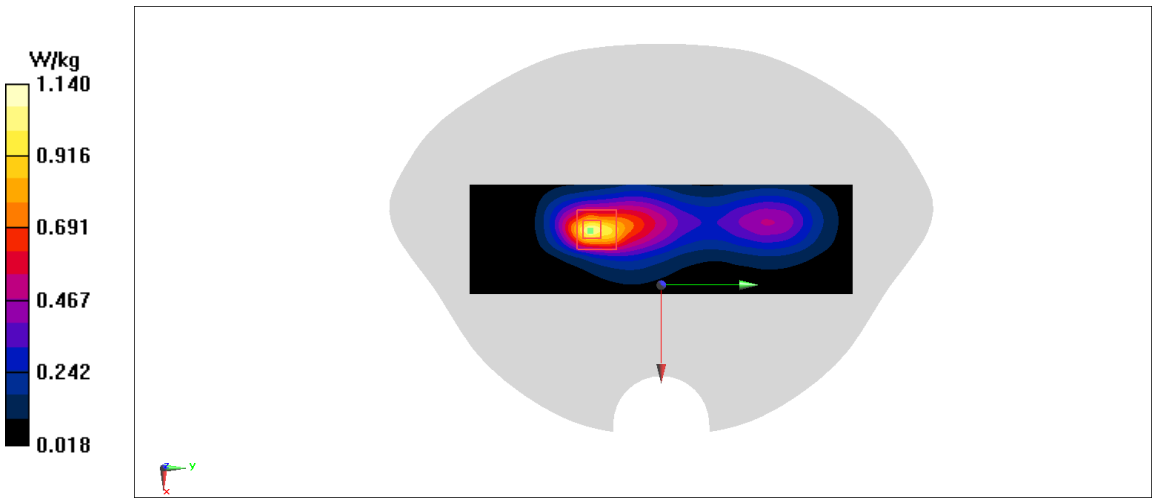


Fig A.14

LTE850-FDD5_CH20450 Right Tilt
Date: 1/24/2021
Electronics: DAE4 Sn536
Medium: head 835 MHz
Medium parameters used: f = 829 MHz; σ = 0.878 mho/m; εr = 41.46; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE850-FDD5 829 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.58 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 36.75 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 5 W/kg
SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.515 W/kg
Maximum value of SAR (measured) = 2.99 W/kg

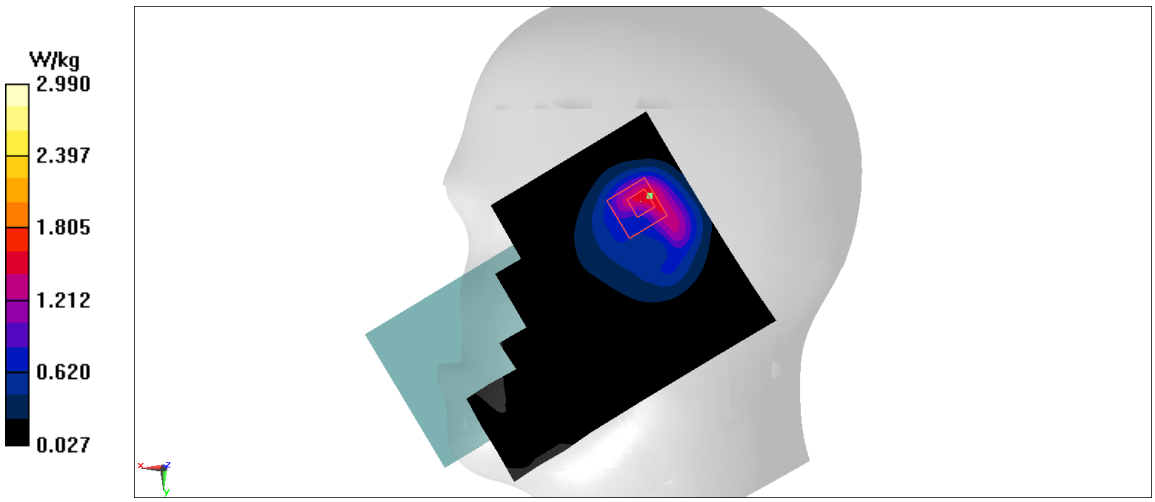


Fig A.15

LTE850-FDD5_CH20450 Rear 10mm
Date: 1/24/2021
Electronics: DAE4 Sn536
Medium: head 835 MHz
Medium parameters used: f = 829 MHz; σ = 0.878 mho/m; εr = 41.46; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE850-FDD5 829 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.2,10.2,10.2)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.521 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.99 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.651 W/kg
SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.222 W/kg
Maximum value of SAR (measured) = 0.54 W/kg

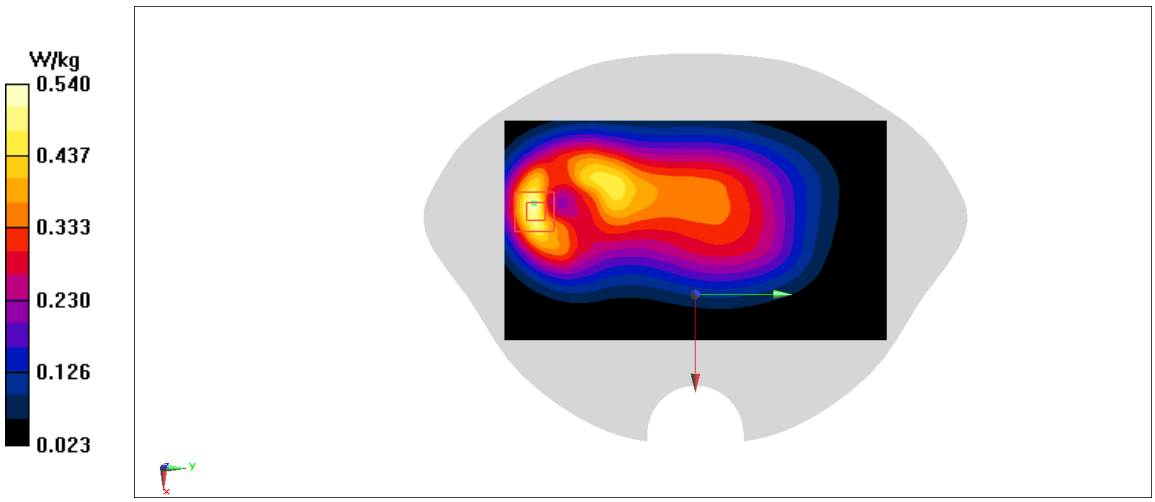


Fig A.16

LTE2500-FDD7_CH21100 Left Cheek
Date: 2/1/2021
Electronics: DAE4 Sn536
Medium: head 2600 MHz
Medium parameters used: f = 2535 MHz; σ = 1.894 mho/m; εr = 38.54; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE2500-FDD7 2535 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(7.61,7.61,7.61)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.292 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.465 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.342 W/kg
SAR(1 g) = 0.191 W/kg; SAR(10 g) = 0.101 W/kg
Maximum value of SAR (measured) = 0.288 W/kg

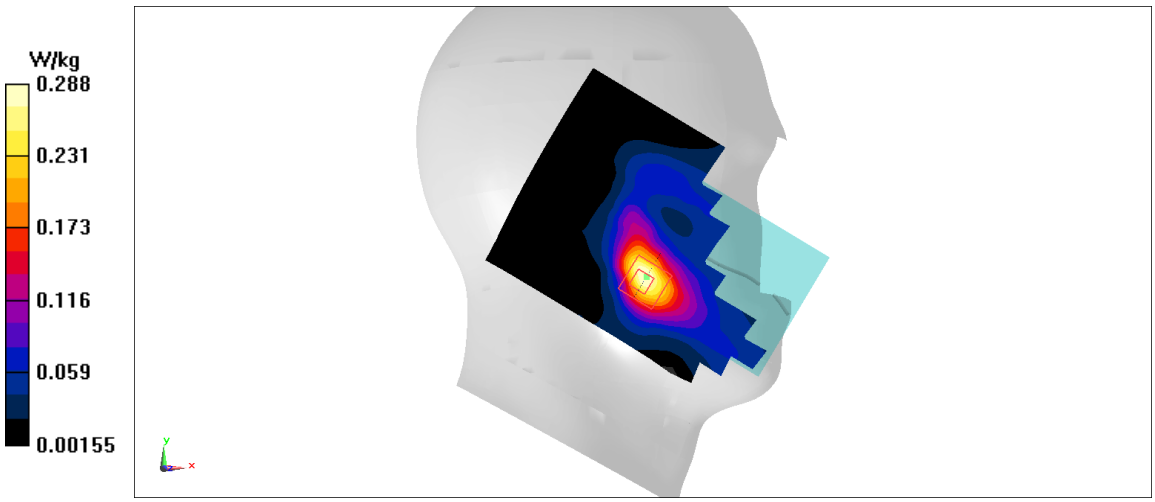


Fig A.17

LTE2500-FDD7_CH21350 Rear 10mm
Date: 2/1/2021
Electronics: DAE4 Sn536
Medium: head 2600 MHz
Medium parameters used: f = 2560 MHz; σ = 1.918 mho/m; εr = 38.51; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE2500-FDD7 2560 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(7.61,7.61,7.61)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.44 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.539 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.88 W/kg
SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.375 W/kg
Maximum value of SAR (measured) = 1.5 W/kg

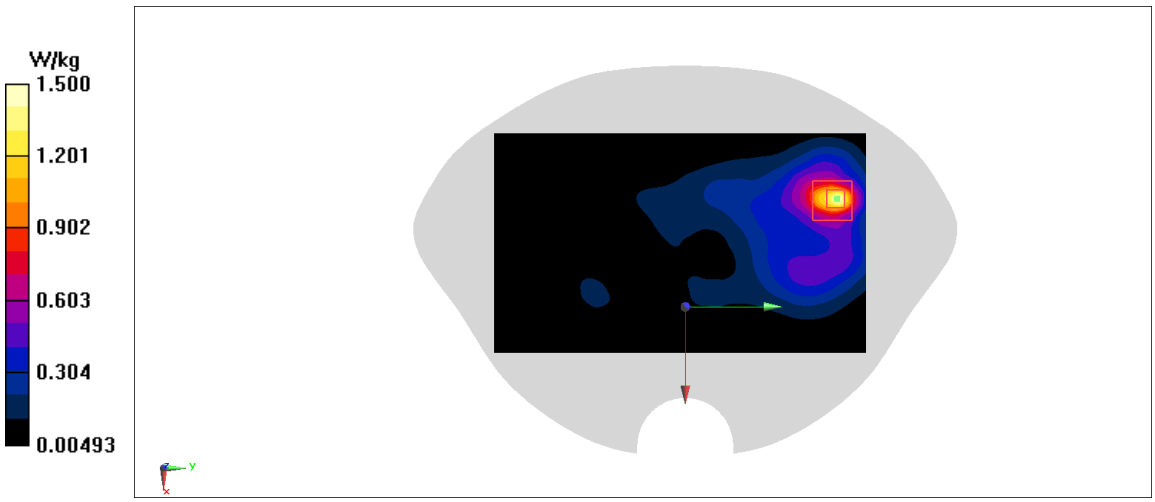


Fig A.18

LTE700-FDD12_CH23060 Right Tilt
Date: 1/23/2021
Electronics: DAE4 Sn536
Medium: head 750 MHz
Medium parameters used: f = 704 MHz; σ = 0.853 mho/m; εr = 42.13; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE700-FDD12 704 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.41,10.41,10.41)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.32 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 36.2 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.78 W/kg
SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.435 W/kg
Maximum value of SAR (measured) = 2.3 W/kg

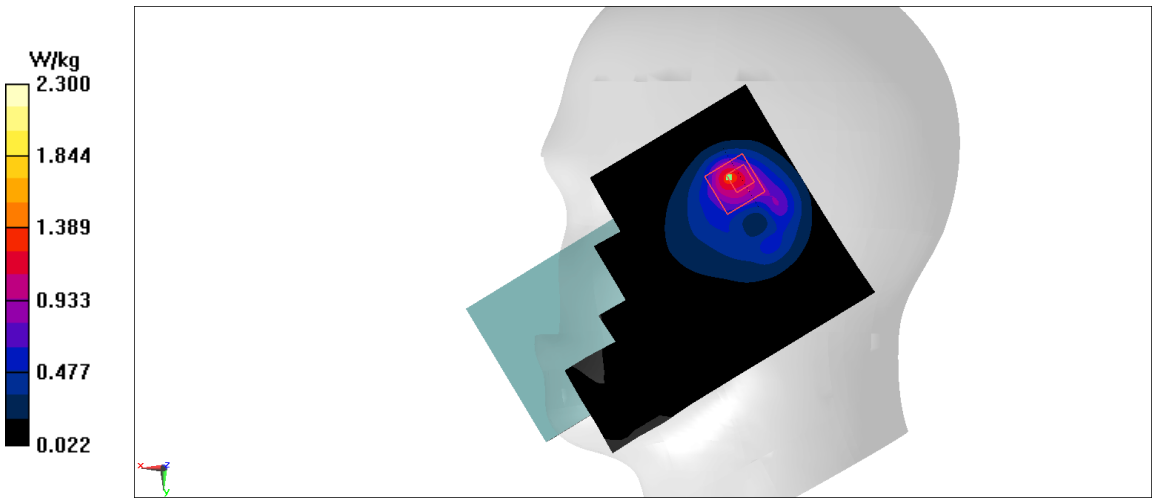


Fig A.19

LTE700-FDD12_CH23060 Front 10mm
Date: 1/23/2021
Electronics: DAE4 Sn536
Medium: head 750 MHz
Medium parameters used: f = 704 MHz; σ = 0.853 mho/m; εr = 42.13; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE700-FDD12 704 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.41,10.41,10.41)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.579 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.96 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.733 W/kg
SAR(1 g) = 0.379 W/kg; SAR(10 g) = 0.214 W/kg
Maximum value of SAR (measured) = 0.579 W/kg

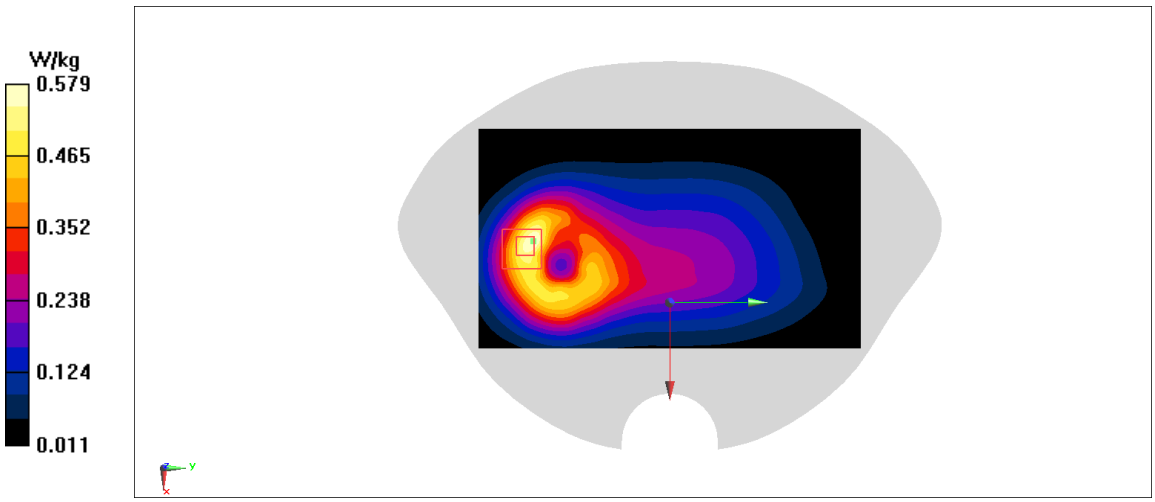


Fig A.20

LTE750-FDD13_CH23230 Right Tilt
Date: 1/23/2021
Electronics: DAE4 Sn536
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; σ = 0.927 mho/m; εr = 42.03; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.41,10.41,10.41)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.37 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 36.02 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.87 W/kg
SAR(1 g) = 0.986 W/kg; SAR(10 g) = 0.436 W/kg
Maximum value of SAR (measured) = 2.28 W/kg

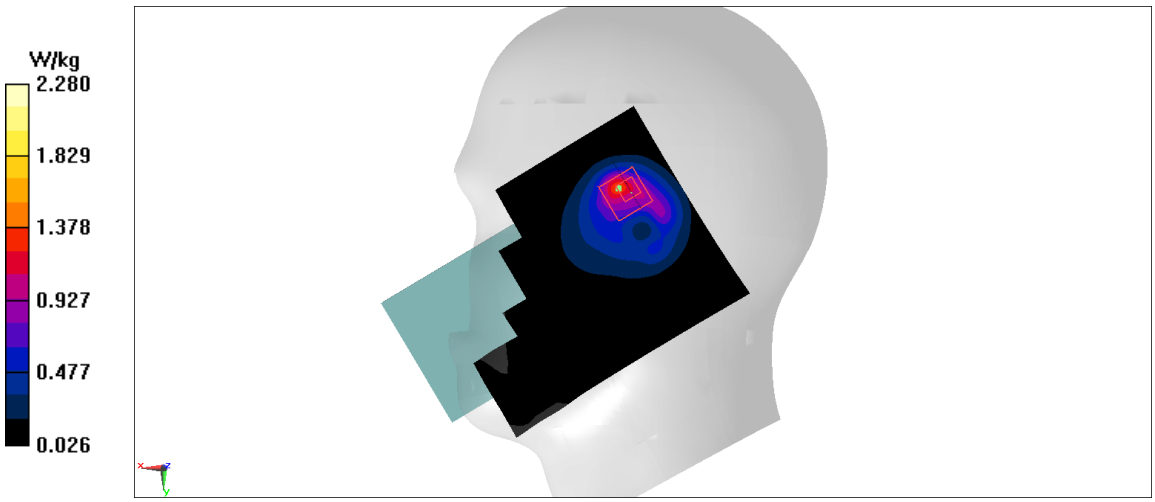


Fig A.21

LTE750-FDD13_CH23230 Rear 10mm
Date: 1/23/2021
Electronics: DAE4 Sn536
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; σ = 0.927 mho/m; εr = 42.03; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.41,10.41,10.41)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.414 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.85 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.458 W/kg
SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.251 W/kg
Maximum value of SAR (measured) = 0.413 W/kg

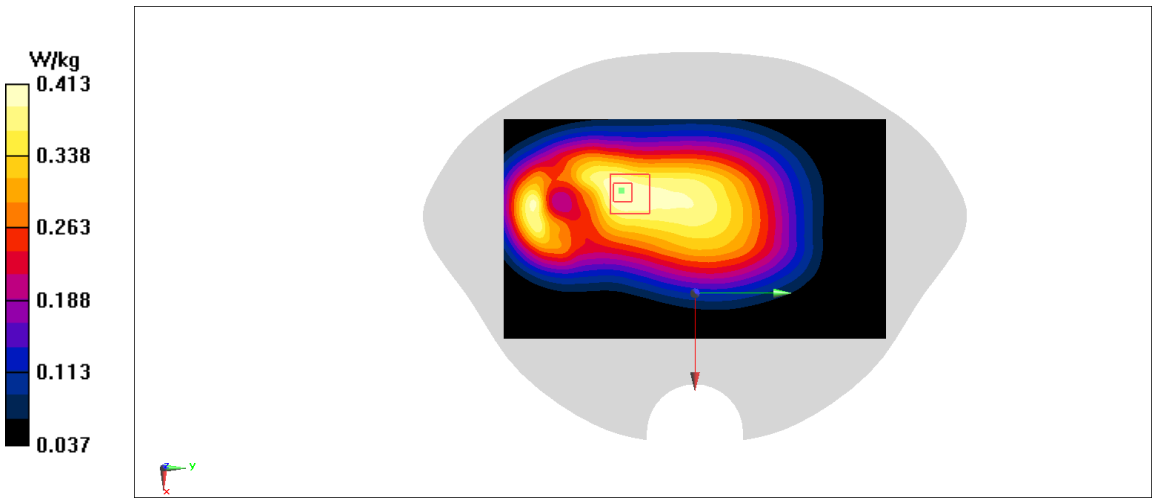


Fig A.22