TESTING
NVLAP LAB CODE 600118-0

SAR TEST REPORT

No. I21Z60746-SEM03

For

TCL Communication Ltd.

5G NR/ LTE/WCDMA/GSM Mobile Phone

Model Name: T601DL ,T768S

with

Hardware Version: PIO

Software Version: vA3A

FCC ID: 2ACCJH137

Issued Date: 2021-6-16

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

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Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
I21Z60746-SEM03	Rev.0	2021-6-8	Initial creation of test report
I21Z60746-SEM03	Rev.1	2021-6-16	1. Revise reported SAR for GSM1900 on table 14.5-1. 2. Identify subtest of WCDMA modes on chapter11.2.

TABLE OF CONTENT

1 Test Laboratory

1.1 Testing Location

Company Name:	CTTL(Shouxiang)
Address:	No. 51, Xueyuan 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

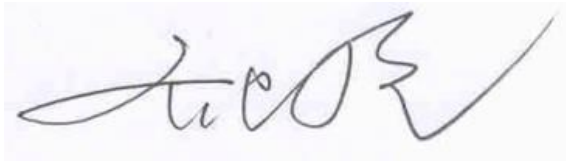
1.3 Project Data

Project Leader:	Qi Dianyuan
Test Engineer:	Yao Juming
Testing Start Date:	May 19, 2021
Testing End Date:	June 2, 2021

1.4 Signature

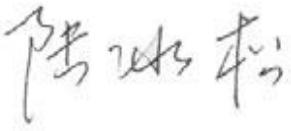
Yao Juming

(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 T601DL,T768S is as follows:

Table 2.1: Highest Reported SAR (1g)

Technology Band	Head (Separation Distance 0mm)	Hotspot (Separation Distance 10mm)	Body-Worn (Separation Distance 15mm)	Phablet-10g (Separation Distance 0mm)	Equipment Class
GSM850	**0.94**	**0.27**	/	/	PCE
GSM1900	**0.90**	**0.60**	**0.61**	**2.41**	
WCDMA1900	**0.41**	**0.62**	**0.39**	/	
WCDMA1700	**0.71**	**0.59**	**0.59**	/	
WCDMA 850	**0.49**	**0.27**	/	/	
LTE Band2-ANT4	**0.64**	**0.47**	**0.51**	/	
LTE Band2-ANT0	**0.12**	**0.52**	**<0.01**	**0.06**	
LTE Band5	**0.86**	**0.40**	**0.07**	**0.20**	
LTE Band12	**0.54**	**0.39**	**0.10**	**0.18**	
LTE Band13	**0.86**	**0.39**	**0.08**	**0.24**	
LTE Band25	**0.67**	**0.47**	**0.49**	/	
LTE Band26	**0.78**	**0.34**	/	/	
LTE Band41-PC3	**0.82**	**0.80**	**0.39**	/	
LTE Band41-PC2	**0.56**	**0.64**	**0.49**	**3.50**	
LTE Band66-ANT4	**0.76**	**0.49**	**0.48**	/	
LTE Band66-ANT0	**0.09**	**0.48**	**<0.01**	**0.11**	
LTE Band71	**0.67**	**0.47**	/	/	
5G NR n2	**0.56**	**0.40**	**0.78**	/	
5G NR n5	**0.26**	**0.42**	**0.08**	/	
5G NR n25	**0.54**	**0.45**	**0.78**	/	
5G NR n41	**0.73**	**0.35**	**0.43**	/	
5G NR n66	**0.47**	**0.37**	**0.63**	**3.04**	
5G NR n71	**0.13**	**0.41**	**0.08**	/	
5G NR n77	**0.68**	**0.71**	**0.55**	**2.78**	
WLAN 2.4GHz	**1.00**	**0.17**	**0.22**	**0.15**	DTS
WLAN 5GHz	**0.77**	**0.08**	**0.45**	**0.46**	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 15/10 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**: 1.00 W/kg(1g).**

Remark：
This device supports both LTE B4 and LTE B66.Since the supported frequency span for LTE B4 falls completely within the supports frequency span for LTE B66, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B66.

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, Touch (GSM1900)	0.89	0.20	**1.09**
Highest SAR value for Body	Rear 10mm (ENDC 5A-n77A)	1.11	0.17	**1.28**

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, Touch (GSM1900)	0.89	0.14	**1.03**
Highest SAR value for Body	Rear 10mm (ENDC 5A-n77A)	1.11	0.08	**1.19**

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

	Position	Main antenna	BT	Sum
Highest SAR value for Head	Right head, Touch (GSM1900)	0.89	0.39[1]	**1.28**
Highest SAR value for Body	Rear 10mm (ENDC 5A-n77A)	1.11	0.19[1]	**1.30**

[1] - Estimated SAR for Bluetooth (see the table 13.8)

Table 2.5: The sum of SAR values for Main antenna + Wifi2.4G +BT

	Position	Main antenna	WiFi-2.4G	BT	Sum
Highest SAR value for Head	Right head, Touch (GSM1900)	0.89	0.20	0.39[1]	**1.48**
Highest SAR value for Body	Rear 10mm (ENDC 5A-n77A)	1.11	0.17	0.19[1]	**1.47**

[1] - Estimated SAR for Bluetooth (see the table 13.8)

Table 2.6: The sum of SAR values for Main antenna + Wifi5G +BT

	Position	Main antenna	WiFi-5G	BT	Sum
Highest SAR value for Head	Right head, Touch (GSM1900)	0.89	0.14	0.39[1]	**1.42**
Highest SAR value for Body	Rear 10mm (ENDC 5A-n77A)	1.11	0.08	0.19[1]	**1.38**

[1] - Estimated SAR for Bluetooth (see the table 13.8)

According to the above tables, the highest sum of reported SAR values is **1.48 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 2.7: The sum of SAR values for Phablet

	Position	Main antenna	WiFi-5G	BT	Sum
Highest SAR value for Body	Left 0mm (LTE B41-PC2)	3.50	0.29	0.16[1]	**3.95**

[1] - Estimated SAR for Bluetooth (see the table 13.6)

Table 2.8: The SAR values for ENDC

	LTE	NR	Mode	Position	Reported SAR 1g(W/kg)
ENDC	LTE Band 2-ANT4	n5	Head	Right Cheek	**0.82(0.57+0.25)**
			Body	Rear 15mm	**0.59(0.51+0.08)**
		n71	Head	Right Cheek	**0.69(0.57+0.12)**
			Body	Top 10mm	**0.61(0.20+0.41)**
	LTE Band 2-ANT0	n41	Head	Right Cheek	**0.80(0.07+0.73)**
			Body	Rear 10mm	**0.53(0.27+0.26)**
		n66	Head	Right Cheek	**0.54(0.07+0.47)**
			Body	Top 10mm	**0.71(0.52+0.19)**
		n77	Head	Right Cheek	**0.80(0.12+0.68)**
			Body	Rear 10mm	**0.98(0.27+0.71)**
	LTE Band 5	n2	Head	Right Cheek	**0.75(0.19+0.56)**
			Body	Rear 15mm	**0.85(0.07+0.78)**
		n66	Head	Right Cheek	**0.66(0.19+0.47)**
			Body	Rear 10mm	**0.77(0.40+0.37)**
		n77	Head	Left Cheek	**0.91(0.23+0.68)**
			Body	Rear 10mm	**1.11(0.40+0.71)**
	LTE Band 12	n66	Head	Right Cheek	**0.60(0.13+0.47)**
			Body	Rear 10mm	**0.76(0.39+0.37)**
	LTE Band 13	n2	Head	Right Cheek	**0.74(0.18+0.56)**
			Body	Rear 15mm	**0.86(0.08+0.78)**
		n66	Head	Right Cheek	**0.65(0.18+0.47)**
			Body	Rear 10mm	**0.76(0.39+0.37)**
		n77	Head	Left Cheek	**0.91(0.23+0.68)**
			Body	Rear 10mm	**1.10(0.39+0.71)**
	LTE Band 66-ANT4	n5	Head	Right Cheek	**0.68(0.43+0.25)**
			Body	Rear 10mm	**0.55(0.18+0.37)**
		n71	Head	Right Cheek	**0.55(0.43+0.12**
			Body	Rear 10mm	**0.59(0.18+0.41)**
	LTE Band 66-ANT0	n2	Head	Right Cheek	**0.65(0.09+0.56)**
			Body	Rear 15mm	**0.78(0.00+0.78)**
		n25	Head	Right Cheek	**0.63(0.09+0.54)**
			Body	Rear 15mm	**0.78(0.00+0.78)**
		n41	Head	Right Cheek	**0.82(0.09+0.73)**
			Body	Rear 10mm	**0.62(0.36+0.26)**
		n77	Head	Left Cheek	**0.77(0.09+0.68)**
			Body	Rear 10mm	**1.07(0.36+0.71)**

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:	T601DL, T768S
Operating mode(s):	GSM850/900/1800/1900, WCDMA B2/B4/B5 LTEBand2/4/5/12/13/25/26/41/66/71 BT, Wi-Fi(2.4G/5G) 5G NR n2/n5/n25/n26/n41/n71/n77
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)
	824.7 – 848.3 MHz (LTE Band 5)
	699.7 – 715.3 MHz (LTE Band 12)
	779.5 – 784.5 MHz (LTE Band 13)
	1850.7–1914.3 MHz (LTE Band 25)
	814.7–848.3 MHz (LTE Band 26)
	2498.5 – 2687.5 MHz (LTE Band41)
	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)
	1850 – 1915 MHz(n25)
	2496 – 2690 MHz(n41)
	1710 – 1780 MHz(n66)
	663 – 698 MHz(n71)
	3700 – 3980 MHz(n77)
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	015924000215016	PIO	vA3A
EUT2	015924000215073	PIO	vA3A
EUT3	015924000215032	PIO	vA3A
EUT4	015924000215065	PIO	vA3A
EUT5	015924000215040	PIO	vA3A
EUT6	015924000215107	PIO	vA3A
EUT7	015924000215024	PIO	vA3A
EUT8	015924000215057	PIO	vA3A
EUT9	015924000215099	PIO	vA3A
EUT10	015924000215115	PIO	vA3A
EUT11	015924000216154	PIO	vA3A

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

Note: It is performed to test SAR with the EUT1~6 and conducted power with the EUT7~11.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	CAC4360006C1	/	BYD

*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

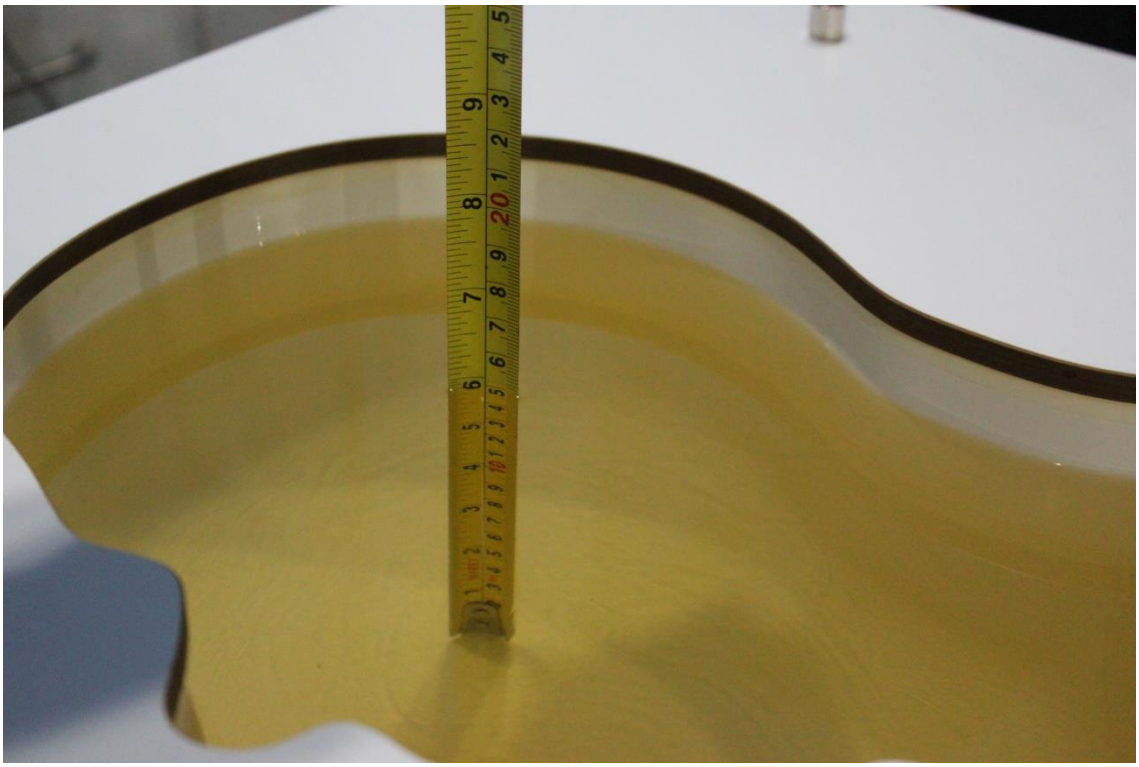
Frequency(MHz)	Liquid Type	Conductivity(σ)	± 5% Range	Permittivity(ε)	± 5% Range
750	Head	0.89	0.85～0.93	41.94	39.8～44.0
835	Head	0.90	0.86～0.95	41.5	39.4～43.6
1750	Head	1.37	1.30～1.44	40.08	38.1～42.1
1900	Head	1.40	1.33～1.47	40.0	38.0～42.0
2450	Head	1.67	1.59～1.75	39.47	37.5～41.4
2600	Head	1.96	1.86～2.06	39.01	37.1～41.0
3800	Head	3.22	3.06～3.38	37.59	35.71～39.47
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

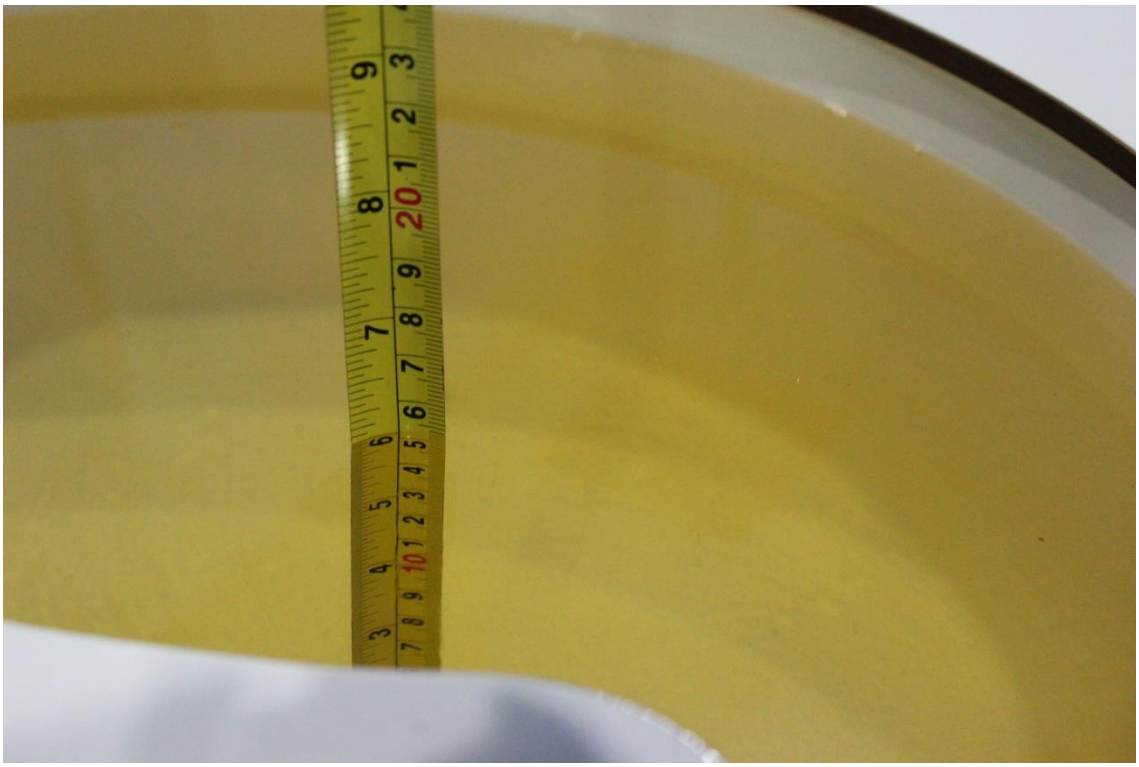
Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity ε	Drift (%)	Conductivity σ (S/m)	Drift (%)
2021-5-19	Head	750 MHz	41.93	-0.02	0.908	2.02
2021-5-20	Head	750 MHz	42.5	1.34	0.89	0.00
2021-5-21	Head	835 MHz	41.27	-0.55	0.89	-1.11
2021-5-22	Head	835 MHz	40.69	-1.95	0.888	-1.33
2021-5-23	Head	1750 MHz	40.13	0.12	1.345	-1.82
2021-5-24	Head	1750 MHz	40.2	0.30	1.354	-1.17
2021-5-25	Head	1900 MHz	39.77	-0.57	1.413	0.93
2021-5-26	Head	1900 MHz	39.38	-1.55	1.411	0.79
2021-5-27	Head	2450 MHz	39.29	0.23	1.801	0.06
2021-5-28	Head	2600 MHz	39.6	1.51	1.974	0.71
2021-5-29	Head	2600 MHz	39.01	0.00	1.956	-0.20
2021-5-30	Head	5250 MHz	35.52	-1.14	4.677	-0.70
2021-5-31	Head	5600 MHz	35.39	-0.39	5.025	-0.89
2021-6-1	Head	5750 MHz	35.87	1.44	5.236	0.31
2021-6-2	Head	3800 MHz	38.87	3.41	3.12	-3.11

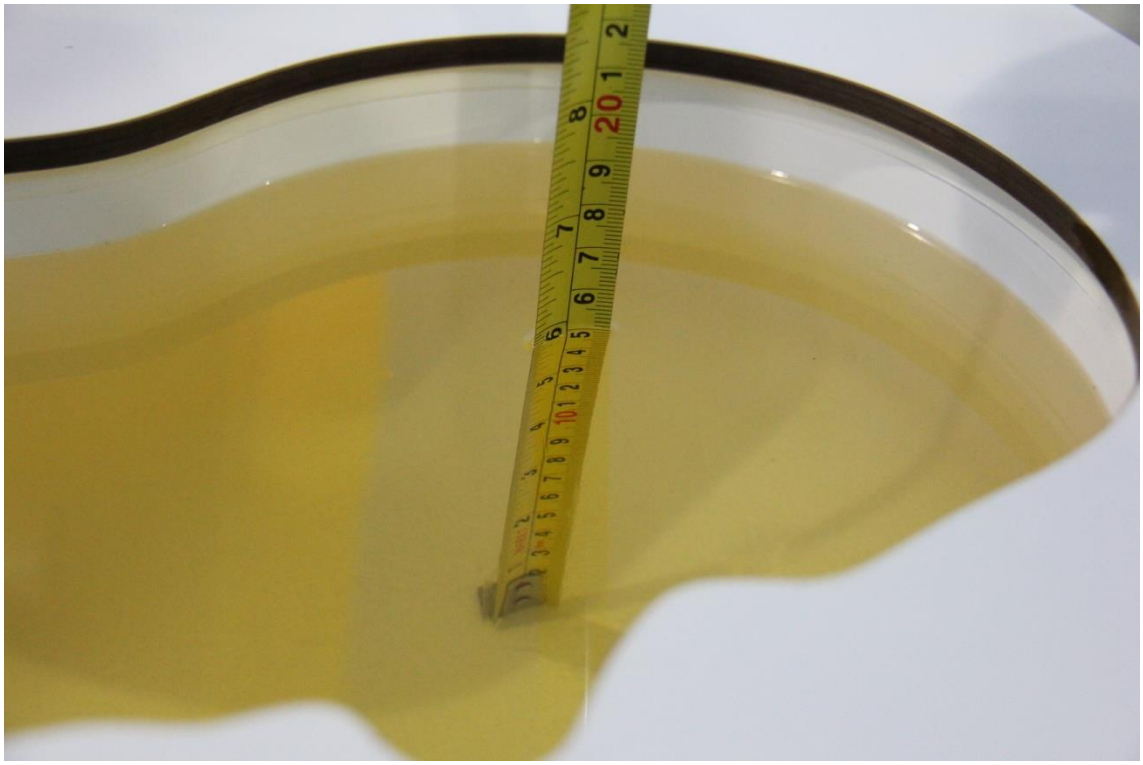
Note: The liquid temperature is 22.0°C



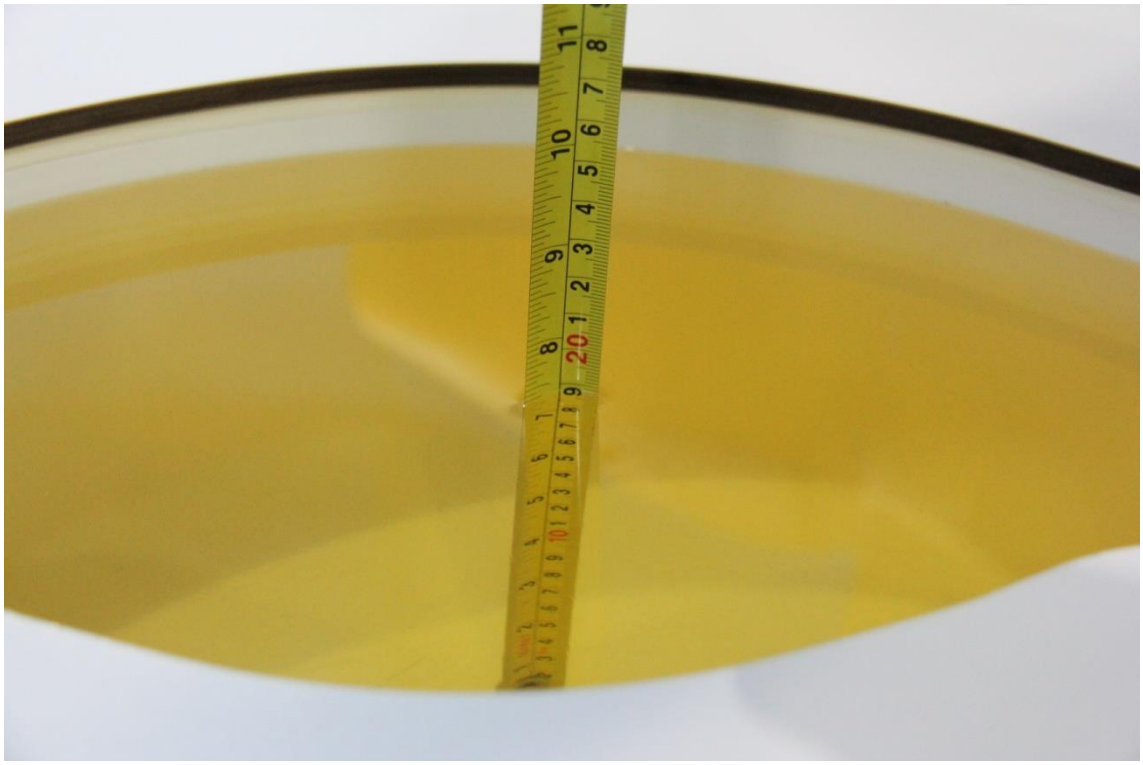
Picture 7-1 Liquid depth in the Head Phantom (750MHz)



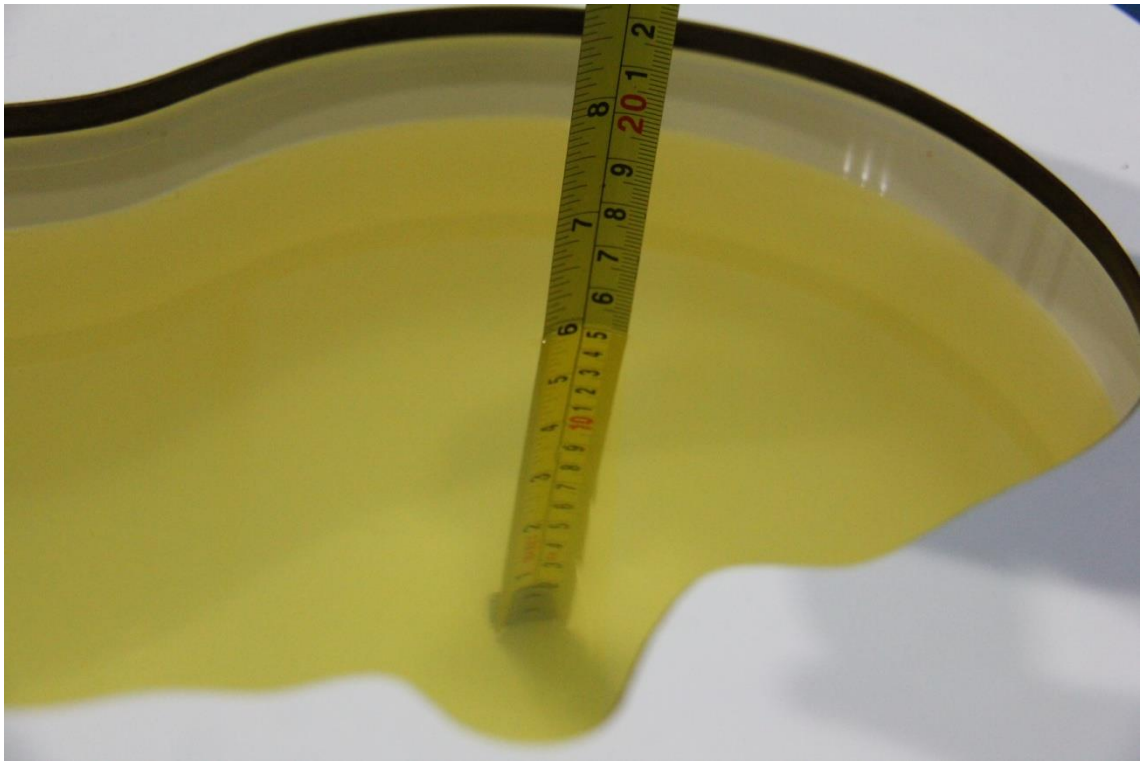
Picture 7-2 Liquid depth in the Flat Phantom (750MHz)



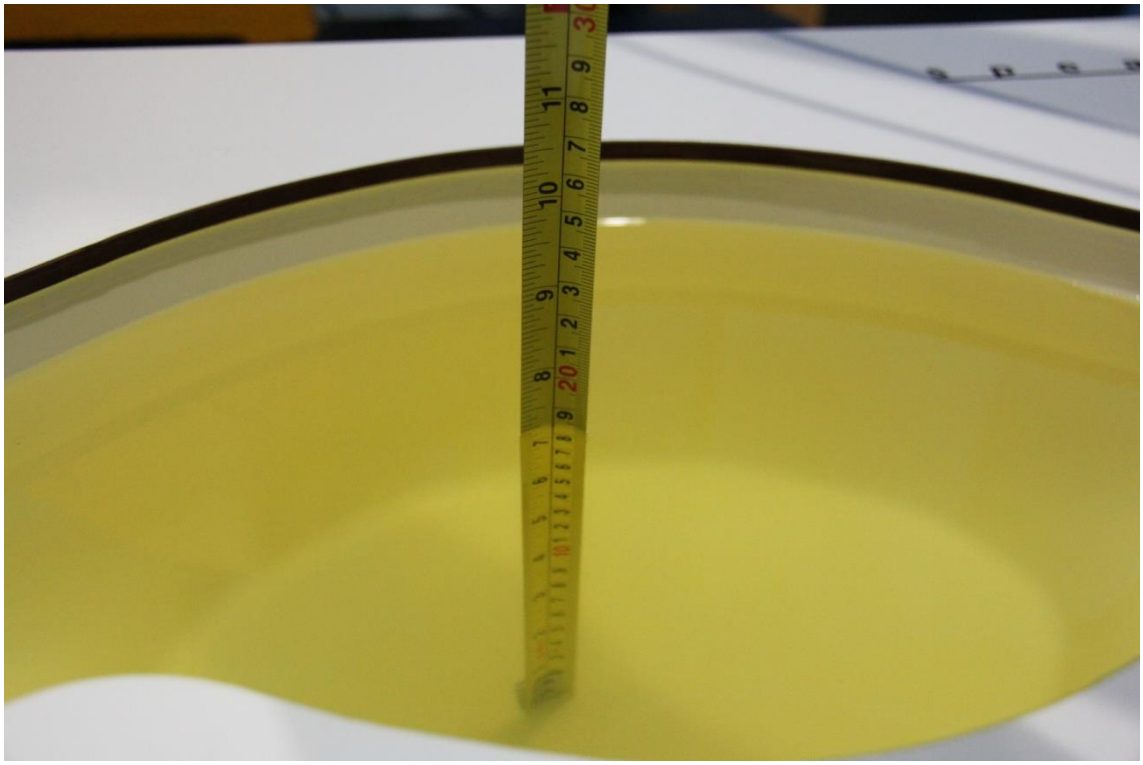
Picture 7-3 Liquid depth in the Head Phantom (835 MHz)



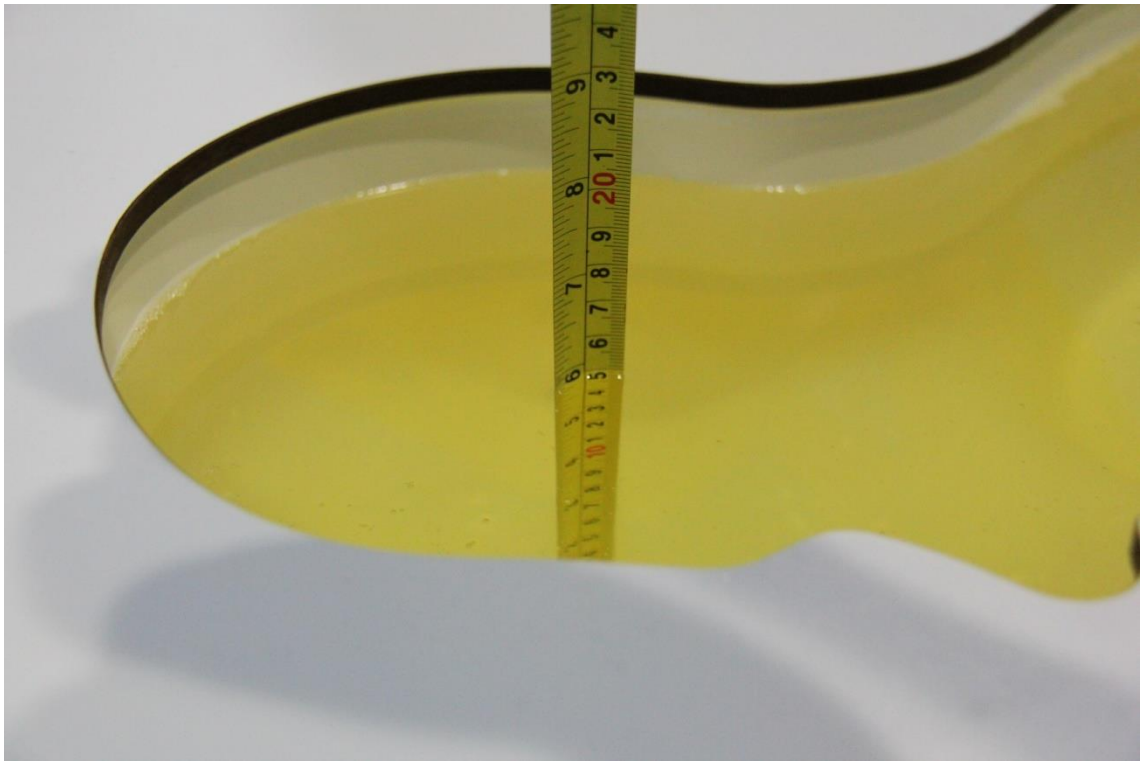
Picture 7-4 Liquid depth in the Flat Phantom (835 MHz)



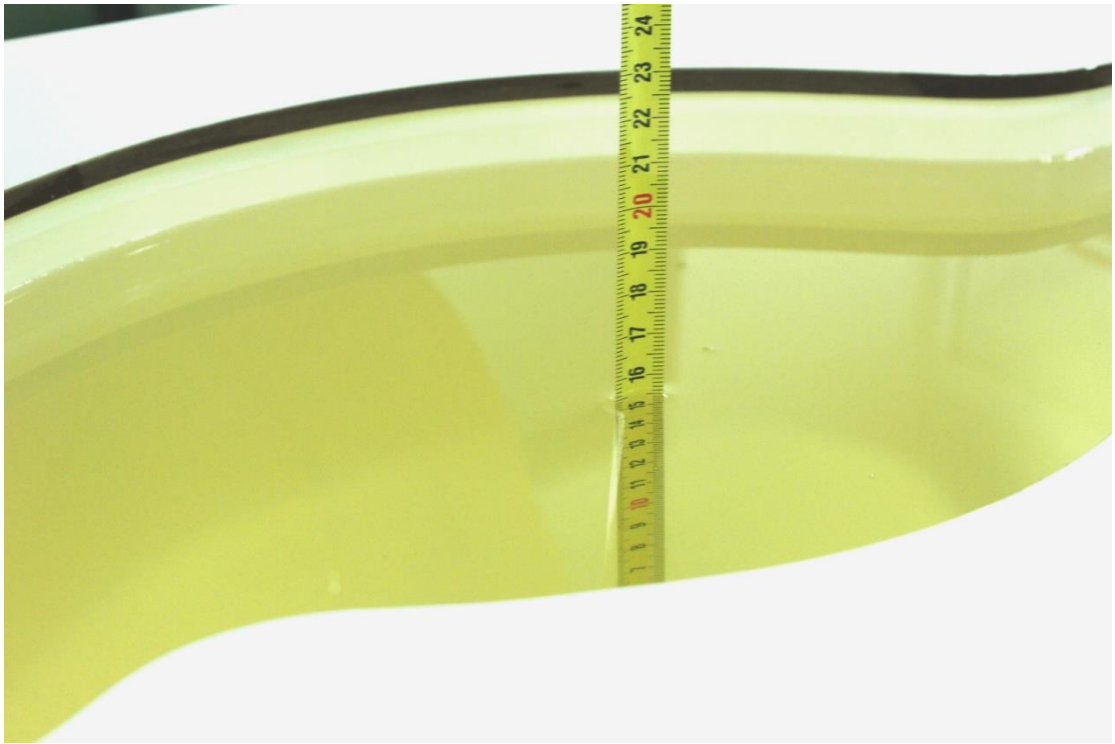
Picture 7-5 Liquid depth in the Head Phantom (1900 MHz)



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

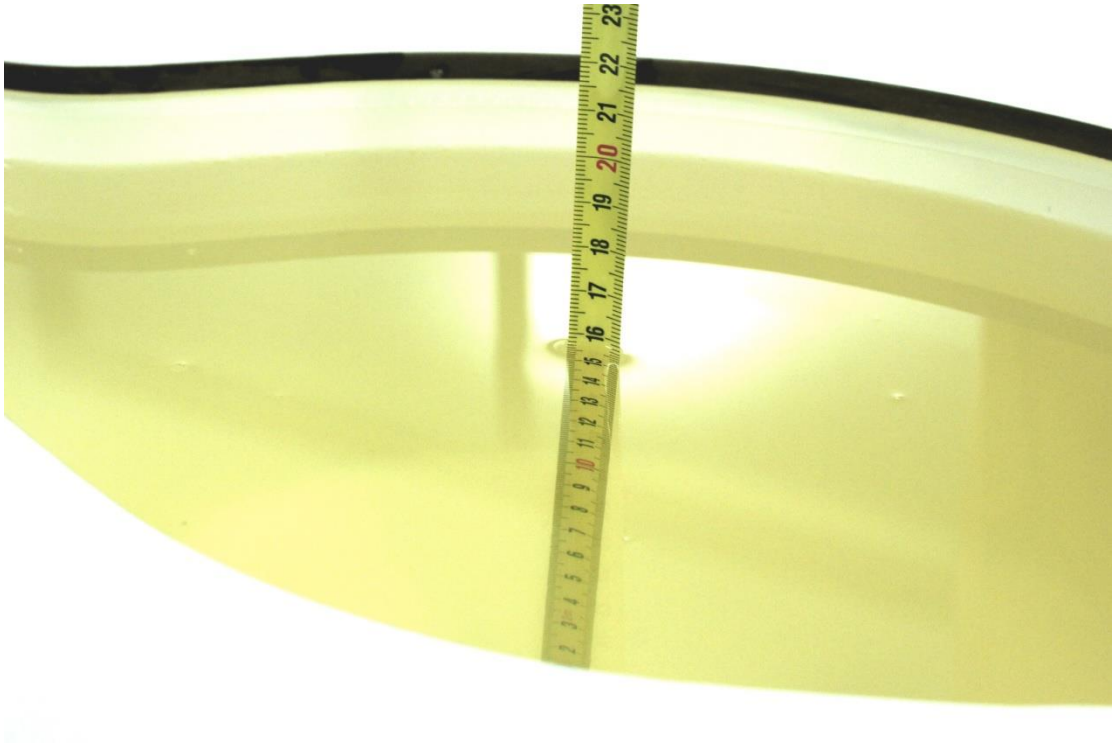


Picture 7-7 Liquid depth in the Head Phantom (2450MHz)

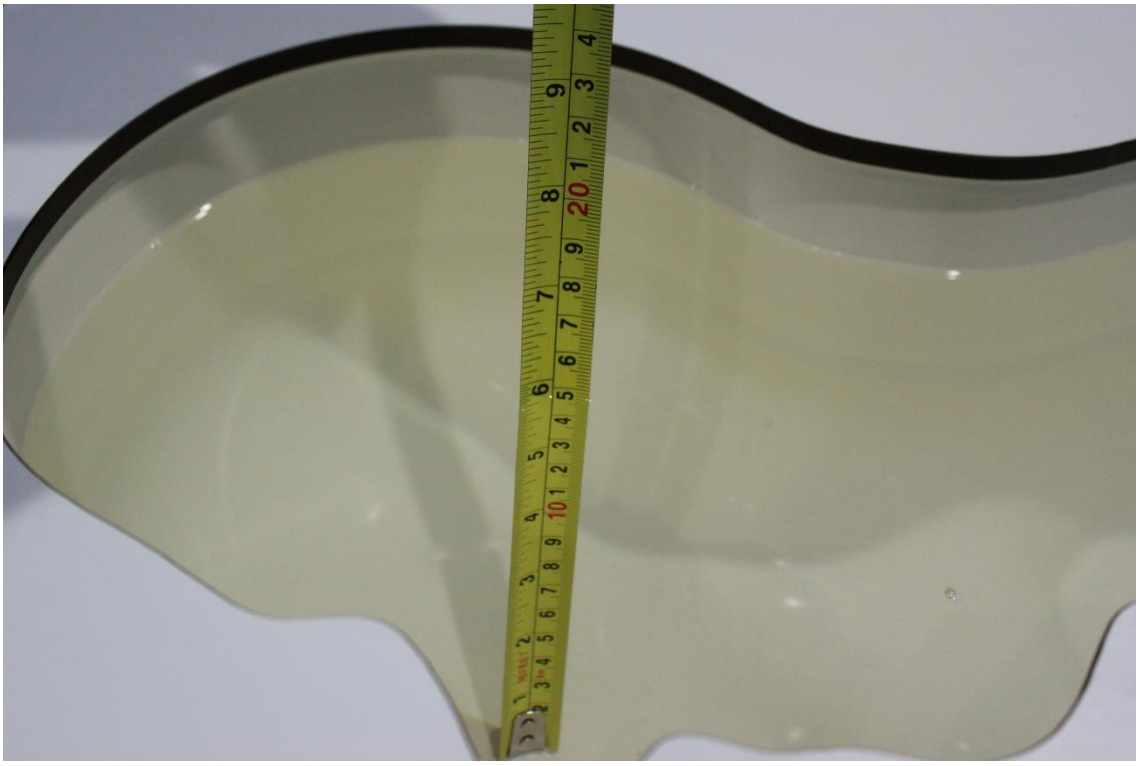


Picture 7-8 Liquid depth in the Flat Phantom (2450MHz)

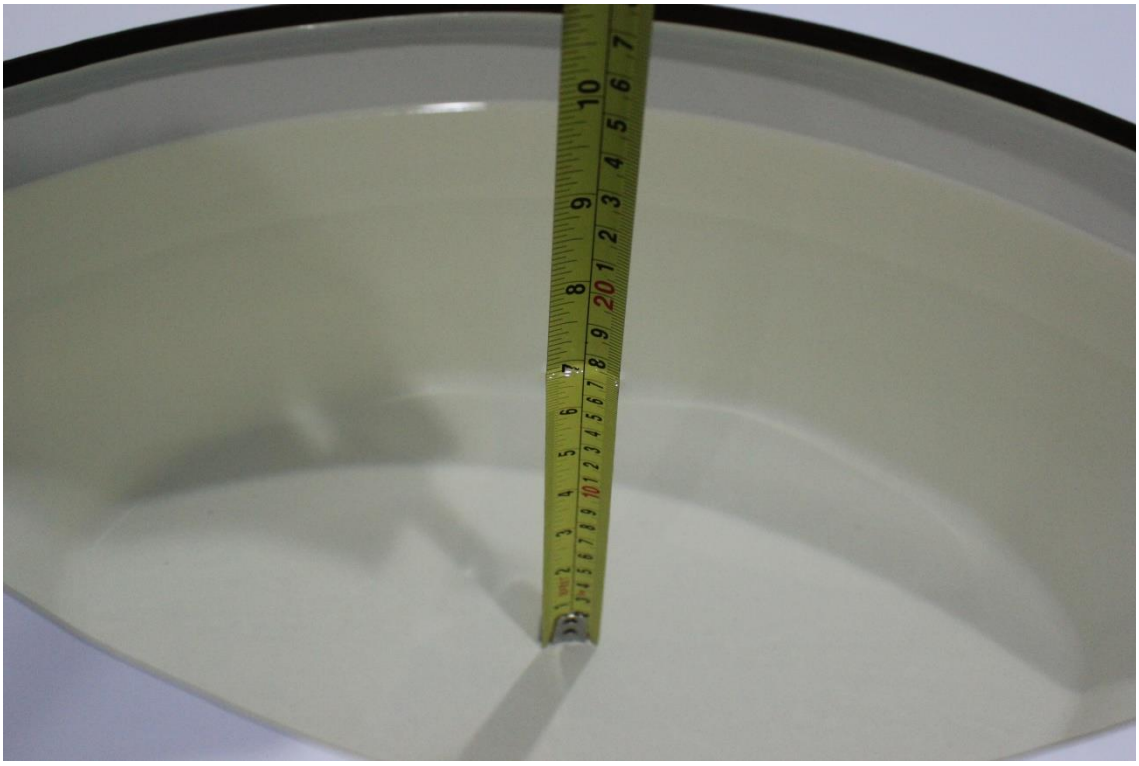
Picture 7-9 Liquid depth in the Head Phantom (2600 MHz)



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



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

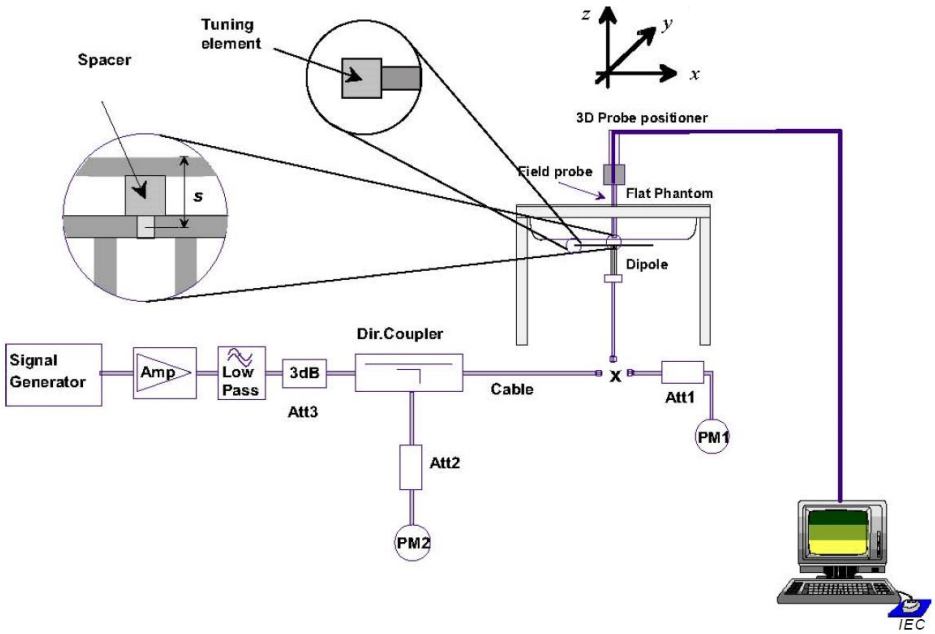


Picture 7-12 Liquid depth in the Flat Phantom (5GHz)

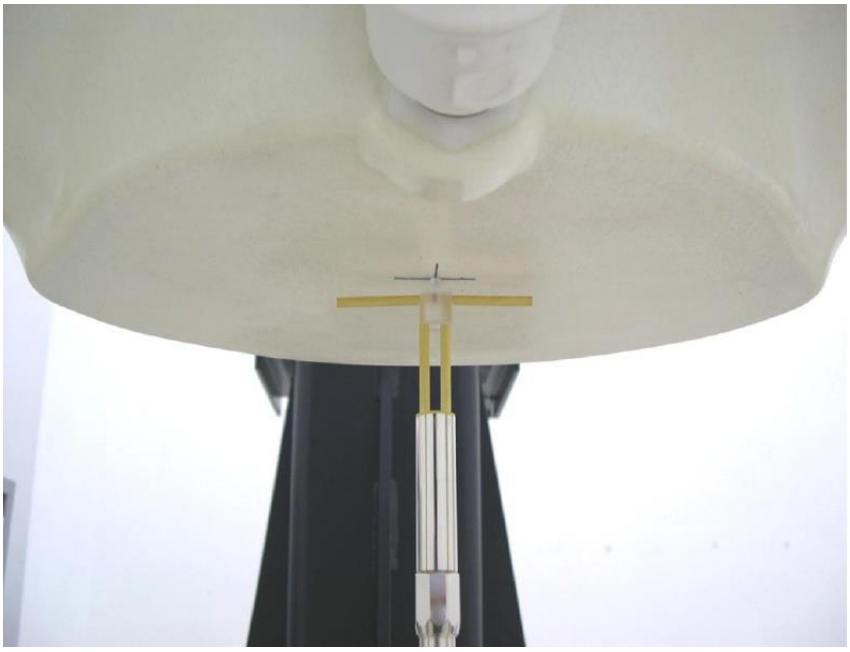
8 System verification

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
2021-5-19	750 MHz	5.53	8.47	5.6	8.48	1.27%	0.12%
2021-5-20	750 MHz	5.53	8.47	5.44	8.64	-1.63%	2.01%
2021-5-21	835 MHz	6.25	9.60	6.32	9.44	1.12%	-1.67%
2021-5-22	835 MHz	6.25	9.60	6.2	9.72	-0.80%	1.25%
2021-5-23	1750 MHz	19.1	36.5	19.04	35.8	-0.31%	-1.92%
2021-5-24	1750 MHz	19.1	36.5	19.48	36.36	1.99%	-0.38%
2021-5-25	1900 MHz	20.6	39.6	20.36	39.6	-1.17%	0.00%
2021-5-26	1900 MHz	20.6	39.6	20.52	39.96	-0.39%	0.91%
2021-5-27	2450 MHz	24.5	52.5	24.52	53.08	0.08%	1.10%
2021-5-28	2600 MHz	25.3	57.0	25.44	56.12	0.55%	-1.54%
2021-5-29	2600 MHz	25.3	57.0	25.36	56.8	0.24%	-0.35%
2021-5-30	5250 MHz	22.9	80.5	22.7	81.7	-0.96%	1.47%
2021-5-31	5600 MHz	23.6	83.3	24.0	84.8	1.69%	1.85%
2021-6-1	5750 MHz	22.7	80.4	22.8	81.7	0.62%	1.59%
2021-6-2	3800 MHz	22.1	61.0	22.7	62.8	2.71%	2.95%

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.

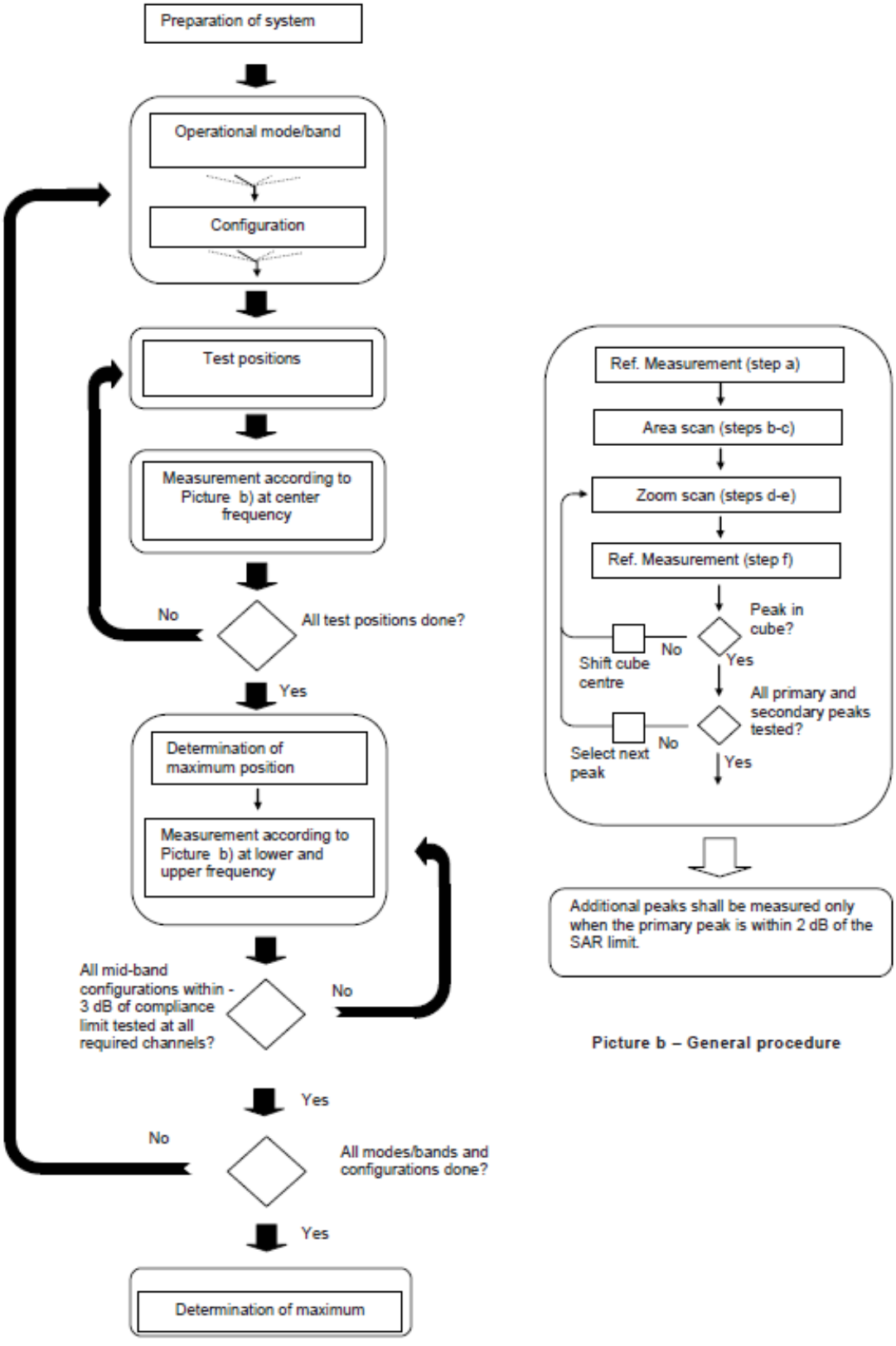
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

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 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.

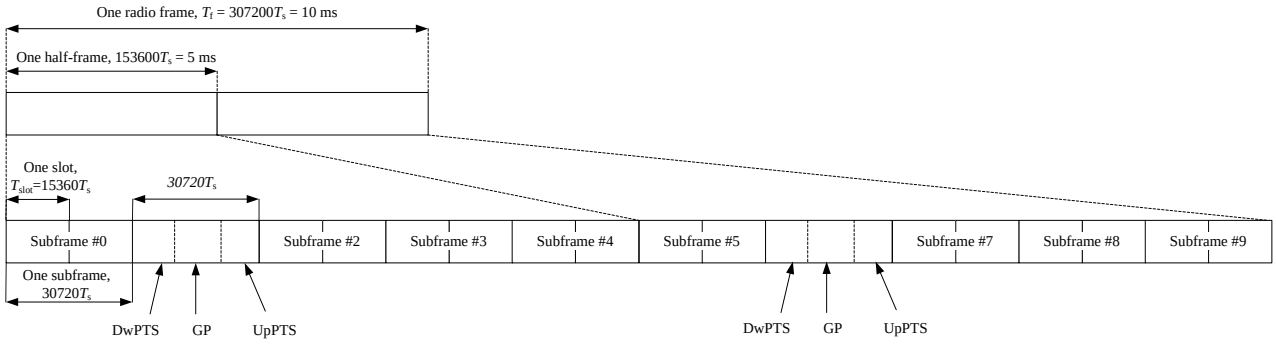


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

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, DASY5 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

Table11.1: Summary of Receiver detection mechanism-Main antenna

Antenna	Receiver on (head scenario)	Receiver off (Body scenario – hotspot off)	Receiver off (Body scenario- hotspot on)
Main Antenna	Power Level A1	Power Level B1	Power Level C1

Antenna	Receiver on (head scenario)	Receiver off (Body scenario –hotspot off)	Receiver off (Body scenario- hotspot on)
Main Antenna -Only for ENDC	Power Level D1	Power Level E1	Power Level F1

Table11.2: Summary of Receiver detection mechanism-WiFi antenna

Antenna	Receiver on (head scenario- cellular on)	Receiver on/off (head/body scenario - cellular off and Hotspot off)	Receiver off (Body scenario – hotspot on and cellular on)	Receiver off (Body scenario – hotspot off and cellular on)
WIFI	Power Level A1	Power Level B1	Power Level C1	Power Level D1

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 –GSM850-Power Level A1/B1/C1

GSM 850 Speech (GMSK)	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	31.79	31.75	31.64	33.50	/	/	/	/
GSM 850 GPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	31.90	31.72	31.48	33.50	-9.03	22.87	22.69	22.45
2 Txslots	29.29	29.18	29.80	30.50	-6.02	23.27	23.16	23.78
3Txslots	27.18	27.34	27.34	29.00	-4.26	22.92	23.08	23.08
4 Txslots	25.87	25.94	25.66	27.50	-3.01	22.86	22.93	22.65
GSM 850 EGPRS (GMSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	31.76	31.73	31.52	33.50	-9.03	22.73	22.70	22.49
2 Txslots	29.27	29.22	29.27	30.50	-6.02	23.25	23.20	23.25
3Txslots	27.25	27.28	27.02	29.00	-4.26	22.99	23.02	22.76
4 Txslots	25.88	26.09	25.71	27.50	-3.01	22.87	23.08	22.70
GSM 850 EGPRS (8PSK)	Measured Power (dBm)				calculation	Averaged Power (dBm)		
	251	190	128			251	190	128
1 Txslot	25.70	25.94	25.55	27.50	-9.03	16.67	16.91	16.52
2 Txslots	24.97	24.55	24.62	26.50	-6.02	18.95	18.53	18.60
3Txslots	22.79	23.70	22.83	24.50	-4.26	18.53	19.44	18.57
4 Txslots	21.20	21.02	21.05	23.00	-3.01	18.19	18.01	18.04

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 2Txslots for GSM850.

Table 11.1-2: The conducted power measurement results-GSM1900-Power Level A1

PCS1900	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
Speech (GMSK)	810	661	512			810	661	512
1 Txslot	26.11	26.14	25.88	27.00	/	/	/	/
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
GPRS (GMSK)	810	661	512			810	661	512
1 Txslot	28.54	28.80	28.83	29.50	-9.03	19.51	19.77	19.80
2 Txslots	27.15	27.93	28.42	28.70	-6.02	21.13	21.91	22.40
3 Txslots	25.12	25.49	26.03	27.00	-4.26	20.86	21.23	21.77
4 Txslots	23.21	24.06	24.62	25.50	-3.01	20.20	21.05	21.61
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (GMSK)	810	661	512			810	661	512
1 Txslot	28.70	28.90	28.88	29.50	-9.03	19.67	19.87	19.85
2 Txslots	27.29	28.02	28.46	28.70	-6.02	21.27	22.00	22.44
3Txslots	25.06	25.56	26.03	27.00	-4.26	20.80	21.30	21.77
4 Txslots	23.68	24.13	24.62	25.50	-3.01	20.67	21.12	21.61
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (8PSK)	810	661	512			810	661	512
1 Txslot	25.35	25.50	25.55	27.00	-9.03	16.32	16.47	16.52
2 Txslots	23.64	23.74	23.76	24.00	-6.02	17.62	17.72	17.74
3Txslots	21.32	21.72	21.25	22.00	-4.26	17.06	17.46	16.99
4 Txslots	19.32	19.43	19.15	20.50	-3.01	16.31	16.42	16.14

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 2Txslots for GSM1900.

Table 11.1-3: The conducted power measurement results-GSM1900-Power Level B1

PCS1900	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
Speech (GMSK)	810	661	512			810	661	512
1 Txslot	28.90	29.18	28.95	30.00	/	/	/	/
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
GPRS (GMSK)	810	661	512			810	661	512
1 Txslot	28.54	28.80	28.83	31.00	-9.03	19.51	19.77	19.80
2 Txslots	27.15	27.93	28.42	28.70	-6.02	21.13	21.91	22.40
3Txslots	25.12	25.49	26.03	27.00	-4.26	20.86	21.23	21.77
4 Txslots	23.21	24.06	24.62	25.50	-3.01	20.20	21.05	21.61
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (GMSK)	810	661	512			810	661	512
1 Txslot	28.70	28.90	28.88	31.00	-9.03	19.67	19.87	19.85
2 Txslots	27.29	28.02	28.46	28.70	-6.02	21.27	22.00	22.44
3Txslots	25.06	25.56	26.03	27.00	-4.26	20.80	21.30	21.77
4 Txslots	23.68	24.13	24.62	25.50	-3.01	20.67	21.12	21.61
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (8PSK)	810	661	512			810	661	512
1 Txslot	25.35	25.50	25.55	27.00	-9.03	16.32	16.47	16.52
2 Txslots	23.64	23.74	23.76	24.00	-6.02	17.62	17.72	17.74
3Txslots	21.32	21.72	21.25	22.00	-4.26	17.06	17.46	16.99
4 Txslots	19.32	19.43	19.15	20.50	-3.01	16.31	16.42	16.14

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 2Txslots for GSM1900.

Table 11.1-4: The conducted power measurement results-GSM1900-Power Level C1

PCS1900	Measured Power (dBm)			Tune up	calculation	Averaged Power (dBm)		
Speech (GMSK)	810	661	512			810	661	512
1 Txslot	26.11	26.14	25.88	27.00	/	/	/	/
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
GPRS (GMSK)	810	661	512			810	661	512
1 Txslot	25.60	26.15	25.74	27.00	-9.03	22.59	23.14	22.73
2 Txslots	24.18	25.14	25.67	26.00	-6.02	24.18	25.14	25.67
3Txslots	23.21	24.00	24.48	24.80	-4.26	23.21	24.00	24.48
4 Txslots	21.79	22.61	23.10	23.50	-3.01	21.79	22.61	23.10
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (GMSK)	810	661	512			810	661	512
1 Txslot	25.99	25.91	25.63	27.00	-9.03	22.98	22.90	22.62
2 Txslots	24.53	25.35	25.81	26.00	-6.02	24.53	25.35	25.81
3Txslots	22.98	23.83	24.37	24.80	-4.26	22.98	23.83	24.37
4 Txslots	21.60	22.45	22.99	23.50	-3.01	21.60	22.45	22.99
PCS1900	Measured Power (dBm)				calculation	Averaged Power (dBm)		
EGPRS (8PSK)	810	661	512			810	661	512
1 Txslot	25.35	25.50	25.55	27.00	-9.03	16.32	16.47	16.52
2 Txslots	23.64	23.74	23.76	24.00	-6.02	17.62	17.72	17.74
3Txslots	21.32	21.72	21.25	22.00	-4.26	17.06	17.46	16.99
4 Txslots	19.32	19.43	19.15	20.50	-3.01	16.31	16.42	16.14

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 2Txslots for GSM1900.

11.2 WCDMA Measurement result

Table 11.2-1: The conducted Power for WCDMA B2/B4 -Power Level A1

WCDMA1900	/	FDDII result (dBm)			Tune up
		9538/9938	9400/9800	9262/9662	
		(1907.6MHz)	(1880MHz)	(1852.4MHz)	
		19.84	19.90	20.02	21.00
HSUPA	Subtest-1	18.79	18.73	18.86	19.70
	Subtest-2	16.73	16.87	16.80	17.70
	Subtest-3	17.79	17.81	17.84	18.70
	Subtest-4	16.80	16.74	16.78	17.70
	Subtest-5	18.75	18.71	18.77	19.70
DC-HSDPA	Subtest-1	18.88	18.81	18.85	19.70
	Subtest-2	18.85	18.86	18.81	19.70
	Subtest-3	18.30	18.33	18.31	19.30
	Subtest-4	18.31	18.36	18.32	19.30

WCDMA1700	/	FDDIV result (dBm)			Tune up
		1513/1738	1412/1637	1312/1537	
		(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
		19.97	19.96	19.96	21.00
HSUPA	Subtest-1	18.71	18.68	18.76	19.70
	Subtest-2	16.73	16.67	16.75	17.70
	Subtest-3	17.73	17.77	17.71	18.70
	Subtest-4	16.75	16.73	16.90	17.70
	Subtest-5	18.78	18.69	18.71	19.70
DC-HSDPA	Subtest-1	18.76	18.76	18.74	19.70
	Subtest-2	18.77	18.71	18.73	19.70
	Subtest-3	18.22	18.21	18.25	19.30
	Subtest-4	18.25	18.22	18.24	19.30

Table 11.2-2: The conducted Power for WCDMA B2/B4 -Power Level B1

WCDMA1900	/	FDDII result (dBm)			Tune up
		9538/9938	9400/9800	9262/9662	
		(1907.6MHz)	(1880MHz)	(1852.4MHz)	
		22.87	22.90	22.82	24.00
HSUPA	Subtest-1	21.60	21.58	21.62	22.50
	Subtest-2	19.68	19.62	19.66	20.50
	Subtest-3	20.64	20.72	20.69	21.50
	Subtest-4	19.74	19.66	19.64	20.50
	Subtest-5	21.75	21.72	21.70	22.50
DC-HSDPA	Subtest-1	21.69	21.72	21.67	22.50
	Subtest-2	21.68	21.70	21.56	22.50
	Subtest-3	21.16	21.19	21.19	22.00
	Subtest-4	21.20	21.18	21.16	22.00

WCDMA1700	/	FDDIV result (dBm)			Tune up
		1513/1738	1412/1637	1312/1537	
		(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
		22.81	22.78	22.72	24.00
HSUPA	Subtest-1	21.66	21.63	21.51	22.70
	Subtest-2	19.60	19.58	19.47	21.00
	Subtest-3	20.70	20.72	20.43	21.70
	Subtest-4	19.71	19.68	19.50	21.00
	Subtest-5	21.72	21.67	21.47	22.70
DC-HSDPA	Subtest-1	21.65	21.68	21.48	22.70
	Subtest-2	21.46	21.64	21.63	22.70
	Subtest-3	21.14	21.06	20.90	22.00
	Subtest-4	21.12	21.06	20.90	22.00

Table 11.2-3: The conducted Power for WCDMA B2/B4 -Power Level C1

WCDMA1900	/	FDDII result (dBm)			Tune up
		9538/9938	9400/9800	9262/9662	
		(1907.6MHz)	(1880MHz)	(1852.4MHz)	
		19.64	19.71	19.70	21.00
HSUPA	Subtest-1	18.61	18.74	18.65	19.70
	Subtest-2	16.66	16.79	16.61	17.70
	Subtest-3	17.67	17.69	17.71	18.70
	Subtest-4	16.71	16.69	16.63	17.70
	Subtest-5	18.71	18.70	18.60	19.70
DC-HSDPA	Subtest-1	18.72	18.70	18.62	19.70
	Subtest-2	18.66	18.75	18.66	19.70
	Subtest-3	18.21	18.25	18.19	19.30
	Subtest-4	18.22	18.29	18.16	19.30

WCDMA1700	/	FDDIV result (dBm)			Tune up
		1513/1738	1412/1637	1312/1537	
		(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
		19.73	19.83	19.78	21.00
HSUPA	Subtest-1	18.59	18.53	18.62	19.70
	Subtest-2	16.50	16.58	16.46	17.70
	Subtest-3	17.56	17.65	17.63	18.70
	Subtest-4	16.60	16.65	16.58	17.70
	Subtest-5	18.66	18.65	18.70	19.70
DC-HSDPA	Subtest-1	18.63	18.56	18.54	19.70
	Subtest-2	18.54	18.66	18.57	19.70
	Subtest-3	18.11	18.15	18.01	19.30
	Subtest-4	18.06	18.10	18.08	19.30

Table 11.2-4: The conducted Power for WCDMA B5 -Power Level A1/B1/C1

WCDMA850	/	FDDV result (dBm)			Tune up
		4233/4458	4183/4408	4132/4357	
		(846.6MHz)	(836.6MHz)	(826.4MHz)	
		22.81	22.78	22.72	24.00
HSUPA	Subtest-1	21.66	21.63	21.51	22.70
	Subtest-2	19.60	19.58	19.47	21.00
	Subtest-3	20.70	20.72	20.43	21.70
	Subtest-4	19.71	19.68	19.50	21.00
	Subtest-5	21.72	21.67	21.47	22.70
DC-HSDPA	Subtest-1	21.65	21.68	21.48	22.70
	Subtest-2	21.46	21.64	21.63	22.70
	Subtest-3	21.14	21.06	20.90	22.00
	Subtest-4	21.12	21.06	20.90	22.00

11.3 LTE Measurement result

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

Band	Tune up (dBm)					
	Level A1 Receiver on (head scenario)	**Level B1** Receiver off (Body scenario – hotspot off)	**Level C1** Receiver off (Body scenario- hotspot on)	**Level D1** Receiver on (head scenario)- ENDC	**Level E1** Receiver off (Body scenario –hotspot off) - ENDC	**Level F1** Receiver off (Body scenario- hotspot on) - ENDC
Band 2-ANT4	21	24	21	17	24	17
Band 2-ANT0	/	/	/	24	8	17
Band 5	24.7	24.7	24.7	19	24.7	19
Band 12	24.7	24.7	24.7	19	19	24.7
Band 13	24.7	24.7	24.7	19	19	24.7
Band 25	21	24.7	21	/	/	/
Band 26	24.7	24.7	24.7	/	/	/
Band 41-PC3	21	22.7	21	/	/	/
Band 41-PC2	21	25.2	21	/	/	/
Band 66-ANT4	21	24	21	17	24	17
Band 66-ANT0	/	/	/	24	8	17
Band 71	24.7	24.7	24.7	/	/	/

LTE Band2 ANT4-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	20.38	20.72	20.47
		1880 (18900)	20.42	20.88	20.33
		1850.7 (18607)	20.40	20.86	20.62
	1RB-Middle (3)	1909.3 (19193)	20.43	20.86	20.57
		1880 (18900)	20.54	20.96	20.84
		1850.7 (18607)	20.54	20.90	20.83
	1RB-Low (0)	1909.3 (19193)	20.40	20.70	20.64
		1880 (18900)	20.48	20.96	20.76
		1850.7 (18607)	20.46	20.67	20.78
	3RB-High (3)	1909.3 (19193)	20.38	20.52	20.45
		1880 (18900)	20.48	20.49	20.47
		1850.7 (18607)	20.40	20.46	20.52
	3RB-Middle (1)	1909.3 (19193)	20.54	20.63	20.55
		1880 (18900)	20.52	20.53	20.63
		1850.7 (18607)	20.54	20.54	20.55
	3RB-Low (0)	1909.3 (19193)	20.47	20.54	20.51
		1880 (18900)	20.57	20.55	20.47
		1850.7 (18607)	20.52	20.43	20.52
	6RB (0)	1909.3 (19193)	19.45	20.59	20.53
		1880 (18900)	20.57	20.68	20.53
		1850.7 (18607)	19.57	20.58	20.50
3MHz	1RB-High (14)	1908.5 (19185)	20.34	20.77	20.78
		1880 (18900)	20.52	20.84	20.53
		1851.5 (18615)	20.47	20.78	20.46
	1RB-Middle (7)	1908.5 (19185)	20.51	20.74	20.62
		1880 (18900)	20.58	20.62	20.68
		1851.5 (18615)	20.48	20.78	20.61
	1RB-Low (0)	1908.5 (19185)	20.60	20.96	20.64
		1880 (18900)	20.57	20.96	20.77
		1851.5 (18615)	20.65	20.88	20.96
	8RB-High (7)	1908.5 (19185)	20.54	20.60	20.57
		1880 (18900)	20.54	20.57	20.59
		1851.5 (18615)	20.53	20.62	20.57
	8RB-Middle (4)	1908.5 (19185)	20.64	20.63	20.59
		1880 (18900)	20.64	20.66	20.63
		1851.5 (18615)	20.63	20.65	20.62
	8RB-Low (0)	1908.5 (19185)	20.64	20.72	20.68
		1880 (18900)	20.58	20.66	20.62
		1851.5 (18615)	20.67	20.71	20.68
	15RB (0)	1908.5 (19185)	20.60	20.58	20.64
		1880 (18900)	20.56	20.56	20.54
		1851.5 (18615)	20.65	20.57	20.64

5MHz	1RB-High (24)	1907.5 (19175)	20.43	20.85	20.49
		1880 (18900)	20.54	20.97	20.85
		1852.5 (18625)	20.45	20.87	20.56
	1RB-Middle (12)	1907.5 (19175)	20.60	20.82	20.59
		1880 (18900)	20.59	20.83	20.70
		1852.5 (18625)	20.50	20.76	20.70
	1RB-Low (0)	1907.5 (19175)	20.61	20.85	20.68
		1880 (18900)	20.52	20.91	20.69
		1852.5 (18625)	20.55	20.96	20.78
	12RB-High (13)	1907.5 (19175)	20.53	20.55	20.52
		1880 (18900)	20.55	20.58	20.59
		1852.5 (18625)	20.56	20.61	20.47
	12RB-Middle (6)	1907.5 (19175)	20.60	20.63	20.59
		1880 (18900)	20.67	20.64	20.65
		1852.5 (18625)	20.66	20.72	20.58
	12RB-Low (0)	1907.5 (19175)	20.68	20.67	20.63
		1880 (18900)	20.68	20.61	20.61
		1852.5 (18625)	20.75	20.70	20.66
	25RB (0)	1907.5 (19175)	20.68	20.59	20.58
		1880 (18900)	20.55	20.57	20.50
		1852.5 (18625)	20.64	20.58	20.58
10MHz	1RB-High (49)	1905 (19150)	20.57	20.71	20.85
		1880 (18900)	20.42	20.82	20.61
		1855 (18650)	20.40	20.79	20.75
	1RB-Middle (24)	1905 (19150)	20.54	20.86	20.67
		1880 (18900)	20.69	20.98	20.64
		1855 (18650)	20.43	20.57	20.64
	1RB-Low (0)	1905 (19150)	20.70	20.96	20.75
		1880 (18900)	20.73	20.95	20.63
		1855 (18650)	20.56	20.88	20.75
	25RB-High (25)	1905 (19150)	20.60	20.58	20.64
		1880 (18900)	20.63	20.61	20.57
		1855 (18650)	20.58	20.46	20.48
	25RB-Middle (12)	1905 (19150)	20.59	20.63	20.51
		1880 (18900)	20.61	20.59	20.43
		1855 (18650)	20.62	20.60	20.60
	25RB-Low (0)	1905 (19150)	20.51	20.54	20.49
		1880 (18900)	20.66	20.69	20.66
		1855 (18650)	20.60	20.63	20.62
	50RB (0)	1905 (19150)	20.62	20.60	20.55
		1880 (18900)	20.58	20.54	20.56
		1855 (18650)	20.62	20.60	20.60

15MHz	1RB-High (74)	1902.5 (19125)	20.21	20.69	20.51
		1880 (18900)	20.30	20.80	20.60
		1857.5 (18675)	20.39	20.77	20.59
	1RB-Middle (37)	1902.5 (19125)	20.36	20.69	20.59
		1880 (18900)	20.36	20.68	20.60
		1857.5 (18675)	20.37	20.71	20.58
	1RB-Low (0)	1902.5 (19125)	20.49	20.92	20.52
		1880 (18900)	20.45	20.77	20.60
		1857.5 (18675)	20.38	20.74	20.53
	36RB-High (38)	1902.5 (19125)	20.43	20.55	20.50
		1880 (18900)	20.57	20.54	20.56
		1857.5 (18675)	20.47	20.50	20.58
	36RB-Middle (19)	1902.5 (19125)	20.53	20.49	20.53
		1880 (18900)	20.47	20.43	20.52
		1857.5 (18675)	20.51	20.53	20.54
	36RB-Low (0)	1902.5 (19125)	20.44	20.43	20.57
		1880 (18900)	20.46	20.49	20.59
		1857.5 (18675)	20.49	20.55	20.59
	75RB (0)	1902.5 (19125)	20.47	20.51	20.63
		1880 (18900)	20.39	20.42	20.48
		1857.5 (18675)	20.52	20.53	20.53
20MHz	1RB-High (99)	1900 (19100)	20.33	20.65	20.48
		1880 (18900)	20.33	20.82	20.67
		1860 (18700)	20.42	20.79	20.62
	1RB-Middle (50)	1900 (19100)	20.40	20.79	20.62
		1880 (18900)	20.40	20.78	20.71
		1860 (18700)	20.32	20.72	20.56
	1RB-Low (0)	1900 (19100)	20.42	20.66	20.58
		1880 (18900)	20.44	20.86	20.52
		1860 (18700)	20.25	20.75	20.57
	50RB-High (50)	1900 (19100)	20.49	20.56	20.44
		1880 (18900)	20.48	20.53	20.54
		1860 (18700)	20.54	20.53	20.55
	50RB-Middle (25)	1900 (19100)	20.50	20.52	20.56
		1880 (18900)	20.46	20.55	20.56
		1860 (18700)	20.49	20.54	20.44
	50RB-Low (0)	1900 (19100)	20.48	20.53	20.43
		1880 (18900)	20.55	20.54	20.50
		1860 (18700)	20.43	20.35	20.48
	100RB (0)	1900 (19100)	20.47	20.46	20.39
		1880 (18900)	20.54	20.49	20.52
		1860 (18700)	20.48	20.53	20.59

LTE Band2 ANT4-Power Level B1/E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	23.65	22.87	22.95
		1880 (18900)	23.68	23.05	22.90
		1850.7 (18607)	23.63	23.16	22.88
	1RB-Middle (3)	1909.3 (19193)	23.74	23.12	22.45
		1880 (18900)	23.81	23.20	23.11
		1850.7 (18607)	23.74	23.37	22.90
	1RB-Low (0)	1909.3 (19193)	23.69	23.19	23.14
		1880 (18900)	23.82	23.19	22.93
		1850.7 (18607)	23.71	23.30	23.07
	3RB-High (3)	1909.3 (19193)	23.68	22.70	22.77
		1880 (18900)	23.77	22.77	22.83
		1850.7 (18607)	23.81	22.73	22.78
	3RB-Middle (1)	1909.3 (19193)	23.84	22.81	22.77
		1880 (18900)	23.90	22.84	22.89
		1850.7 (18607)	23.86	22.90	22.80
	3RB-Low (0)	1909.3 (19193)	23.78	22.83	22.78
		1880 (18900)	23.85	22.88	22.86
		1850.7 (18607)	23.83	22.86	22.79
	6RB (0)	1909.3 (19193)	21.79	21.92	21.85
		1880 (18900)	22.86	21.93	21.89
		1850.7 (18607)	22.80	21.89	21.83
3MHz	1RB-High (14)	1908.5 (19185)	23.73	23.24	22.85
		1880 (18900)	23.77	23.25	22.83
		1851.5 (18615)	23.76	23.20	23.25
	1RB-Middle (7)	1908.5 (19185)	23.78	23.11	22.95
		1880 (18900)	23.98	23.29	23.10
		1851.5 (18615)	23.78	23.04	23.12
	1RB-Low (0)	1908.5 (19185)	23.96	23.32	22.92
		1880 (18900)	23.89	23.19	23.12
		1851.5 (18615)	23.86	23.38	22.86
	8RB-High (7)	1908.5 (19185)	22.87	21.93	21.92
		1880 (18900)	22.92	21.95	21.91
		1851.5 (18615)	22.84	21.81	21.85
	8RB-Middle (4)	1908.5 (19185)	22.89	21.97	21.91
		1880 (18900)	22.97	22.00	21.94
		1851.5 (18615)	22.91	21.99	21.93
	8RB-Low (0)	1908.5 (19185)	22.88	21.98	22.05
		1880 (18900)	22.91	22.02	22.02
		1851.5 (18615)	22.94	22.01	21.98
	15RB (0)	1908.5 (19185)	22.96	21.92	21.89
		1880 (18900)	22.88	21.96	21.88
		1851.5 (18615)	22.93	21.87	21.93

5MHz	1RB-High (24)	1907.5 (19175)	23.87	23.31	23.24
		1880 (18900)	23.92	23.07	22.99
		1852.5 (18625)	23.81	23.28	22.90
	1RB-Middle (12)	1907.5 (19175)	23.95	23.13	23.04
		1880 (18900)	23.84	23.11	23.25
		1852.5 (18625)	23.70	23.11	22.99
	1RB-Low (0)	1907.5 (19175)	23.96	23.31	23.12
		1880 (18900)	23.86	23.33	23.38
		1852.5 (18625)	23.95	23.36	23.10
	12RB-High (13)	1907.5 (19175)	22.88	21.87	21.95
		1880 (18900)	22.95	21.91	21.91
		1852.5 (18625)	22.84	21.86	21.92
	12RB-Middle (6)	1907.5 (19175)	22.97	21.98	21.94
		1880 (18900)	23.01	22.00	21.93
		1852.5 (18625)	22.94	21.93	21.93
	12RB-Low (0)	1907.5 (19175)	22.95	22.00	22.04
		1880 (18900)	23.02	22.00	21.96
		1852.5 (18625)	23.05	21.95	22.00
	25RB (0)	1907.5 (19175)	22.96	21.98	21.86
		1880 (18900)	22.95	21.89	21.99
		1852.5 (18625)	22.89	21.88	21.88
10MHz	1RB-High (49)	1905 (19150)	23.86	23.07	23.20
		1880 (18900)	23.81	23.23	23.18
		1855 (18650)	23.76	23.17	22.92
	1RB-Middle (24)	1905 (19150)	23.96	23.05	22.86
		1880 (18900)	23.97	23.11	23.11
		1855 (18650)	24.14	22.79	22.99
	1RB-Low (0)	1905 (19150)	23.87	23.36	23.15
		1880 (18900)	23.95	23.34	23.10
		1855 (18650)	24.07	23.30	23.07
	25RB-High (25)	1905 (19150)	22.87	21.93	21.97
		1880 (18900)	22.99	22.10	21.93
		1855 (18650)	22.87	21.99	21.93
	25RB-Middle (12)	1905 (19150)	23.04	22.00	22.05
		1880 (18900)	23.00	22.00	22.00
		1855 (18650)	23.01	21.94	21.91
	25RB-Low (0)	1905 (19150)	23.00	22.02	21.88
		1880 (18900)	22.99	22.01	21.94
		1855 (18650)	23.01	22.05	22.00
	50RB (0)	1905 (19150)	22.93	21.99	21.95
		1880 (18900)	22.91	21.95	21.81
		1855 (18650)	22.95	22.01	21.90

15MHz	1RB-High (74)	1902.5 (19125)	23.83	23.19	22.04
		1880 (18900)	24.02	23.23	22.04
		1857.5 (18675)	23.84	23.32	22.19
	1RB-Middle (37)	1902.5 (19125)	23.93	23.26	22.11
		1880 (18900)	23.88	23.21	22.06
		1857.5 (18675)	23.71	23.17	21.79
	1RB-Low (0)	1902.5 (19125)	23.90	23.19	21.94
		1880 (18900)	23.94	23.34	22.23
		1857.5 (18675)	23.95	23.12	22.02
	36RB-High (38)	1902.5 (19125)	22.95	21.98	21.00
		1880 (18900)	23.06	22.04	21.06
		1857.5 (18675)	22.94	22.01	20.92
	36RB-Middle (19)	1902.5 (19125)	22.94	21.88	20.99
		1880 (18900)	22.93	21.90	21.00
		1857.5 (18675)	22.93	21.88	20.88
	36RB-Low (0)	1902.5 (19125)	22.98	21.92	21.02
		1880 (18900)	22.97	21.93	20.97
		1857.5 (18675)	22.78	21.86	20.87
	75RB (0)	1902.5 (19125)	22.94	21.86	20.94
		1880 (18900)	22.91	21.97	20.85
		1857.5 (18675)	22.93	21.92	20.89
20MHz	1RB-High (99)	1900 (19100)	23.90	23.13	22.13
		1880 (18900)	24.02	23.26	22.17
		1860 (18700)	24.00	23.44	22.33
	1RB-Middle (50)	1900 (19100)	23.94	23.30	22.05
		1880 (18900)	23.94	23.28	22.14
		1860 (18700)	23.88	23.23	22.11
	1RB-Low (0)	1900 (19100)	23.94	23.47	22.21
		1880 (18900)	24.08	23.44	22.20
		1860 (18700)	23.88	23.30	22.18
	50RB-High (50)	1900 (19100)	23.08	22.08	21.08
		1880 (18900)	23.11	22.07	21.11
		1860 (18700)	23.09	22.10	21.05
	50RB-Middle (25)	1900 (19100)	23.14	22.16	21.16
		1880 (18900)	23.01	22.07	21.09
		1860 (18700)	23.10	22.02	21.12
	50RB-Low (0)	1900 (19100)	23.01	22.03	21.14
		1880 (18900)	23.09	22.17	21.12
		1860 (18700)	22.98	22.07	21.01
	100RB (0)	1900 (19100)	23.12	22.12	21.14
		1880 (18900)	23.05	22.13	20.97
		1860 (18700)	23.13	22.12	21.05

LTE Band2 ANT4-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	20.35	20.65	20.57
		1880 (18900)	20.16	20.67	20.50
		1850.7 (18607)	20.19	20.58	20.47
	1RB-Middle (3)	1909.3 (19193)	20.48	20.79	20.52
		1880 (18900)	20.24	20.54	20.46
		1850.7 (18607)	20.36	20.62	20.63
	1RB-Low (0)	1909.3 (19193)	20.43	20.71	20.61
		1880 (18900)	20.30	20.81	20.62
		1850.7 (18607)	20.33	20.57	20.59
	3RB-High (3)	1909.3 (19193)	20.39	20.42	20.49
		1880 (18900)	20.26	20.35	20.37
		1850.7 (18607)	20.31	20.36	20.36
	3RB-Middle (1)	1909.3 (19193)	20.43	20.52	20.62
		1880 (18900)	20.32	20.41	20.52
		1850.7 (18607)	20.35	20.48	20.55
	3RB-Low (0)	1909.3 (19193)	20.49	20.49	20.51
		1880 (18900)	20.30	20.36	20.41
		1850.7 (18607)	20.33	20.37	20.50
	6RB (0)	1909.3 (19193)	19.52	20.60	20.44
		1880 (18900)	20.30	20.41	20.32
		1850.7 (18607)	20.34	20.49	20.33
3MHz	1RB-High (14)	1908.5 (19185)	20.37	20.75	20.63
		1880 (18900)	20.20	20.56	20.34
		1851.5 (18615)	20.25	20.60	20.39
	1RB-Middle (7)	1908.5 (19185)	20.44	20.64	20.44
		1880 (18900)	20.29	20.72	20.43
		1851.5 (18615)	20.30	20.66	20.55
	1RB-Low (0)	1908.5 (19185)	20.50	20.77	20.60
		1880 (18900)	20.37	20.93	20.55
		1851.5 (18615)	20.41	20.80	20.69
	8RB-High (7)	1908.5 (19185)	20.53	20.55	20.53
		1880 (18900)	20.33	20.41	20.39
		1851.5 (18615)	20.37	20.44	20.37
	8RB-Middle (4)	1908.5 (19185)	20.57	20.68	20.64
		1880 (18900)	20.39	20.47	20.42
		1851.5 (18615)	20.50	20.56	20.52
	8RB-Low (0)	1908.5 (19185)	20.61	20.64	20.62
		1880 (18900)	20.40	20.55	20.55
		1851.5 (18615)	20.50	20.59	20.53
	15RB (0)	1908.5 (19185)	20.63	20.61	20.59
		1880 (18900)	20.45	20.42	20.46
		1851.5 (18615)	20.49	20.51	20.49

5MHz	1RB-High (24)	1907.5 (19175)	20.44	20.80	20.56
		1880 (18900)	20.33	20.72	20.51
		1852.5 (18625)	20.37	20.71	20.40
	1RB-Middle (12)	1907.5 (19175)	20.47	20.69	20.56
		1880 (18900)	20.51	20.59	20.59
		1852.5 (18625)	20.36	20.62	20.50
	1RB-Low (0)	1907.5 (19175)	20.54	20.76	20.65
		1880 (18900)	20.37	20.80	20.64
		1852.5 (18625)	20.45	20.63	20.69
	12RB-High (13)	1907.5 (19175)	20.53	20.56	20.48
		1880 (18900)	20.43	20.37	20.37
		1852.5 (18625)	20.42	20.38	20.38
	12RB-Middle (6)	1907.5 (19175)	20.61	20.58	20.56
		1880 (18900)	20.49	20.51	20.50
		1852.5 (18625)	20.50	20.54	20.49
	12RB-Low (0)	1907.5 (19175)	20.59	20.57	20.64
		1880 (18900)	20.48	20.48	20.48
		1852.5 (18625)	20.56	20.54	20.48
	25RB (0)	1907.5 (19175)	20.61	20.55	20.56
		1880 (18900)	20.41	20.42	20.42
		1852.5 (18625)	20.50	20.50	20.50
10MHz	1RB-High (49)	1905 (19150)	20.43	20.70	20.74
		1880 (18900)	20.30	20.66	20.62
		1855 (18650)	20.36	20.67	20.43
	1RB-Middle (24)	1905 (19150)	20.54	20.70	20.74
		1880 (18900)	20.32	20.48	20.63
		1855 (18650)	20.52	20.73	20.60
	1RB-Low (0)	1905 (19150)	20.40	20.84	20.71
		1880 (18900)	20.55	20.68	20.69
		1855 (18650)	20.30	20.71	20.63
	25RB-High (25)	1905 (19150)	20.59	20.54	20.67
		1880 (18900)	20.45	20.47	20.49
		1855 (18650)	20.48	20.46	20.45
	25RB-Middle (12)	1905 (19150)	20.60	20.57	20.57
		1880 (18900)	20.44	20.49	20.36
		1855 (18650)	20.55	20.55	20.57
	25RB-Low (0)	1905 (19150)	20.57	20.63	20.60
		1880 (18900)	20.32	20.39	20.50
		1855 (18650)	20.42	20.51	20.53
	50RB (0)	1905 (19150)	20.55	20.62	20.55
		1880 (18900)	20.46	20.50	20.48
		1855 (18650)	20.54	20.51	20.50

15MHz	1RB-High (74)	1902.5 (19125)	20.28	20.68	20.57
		1880 (18900)	20.18	20.56	20.51
		1857.5 (18675)	20.29	20.82	20.58
	1RB-Middle (37)	1902.5 (19125)	20.29	20.74	20.67
		1880 (18900)	20.15	20.52	20.63
		1857.5 (18675)	20.24	20.56	20.48
	1RB-Low (0)	1902.5 (19125)	20.30	20.77	20.65
		1880 (18900)	20.30	20.65	20.52
		1857.5 (18675)	20.29	20.79	20.62
	36RB-High (38)	1902.5 (19125)	20.53	20.49	20.49
		1880 (18900)	20.30	20.41	20.37
		1857.5 (18675)	20.41	20.43	20.42
	36RB-Middle (19)	1902.5 (19125)	20.46	20.34	20.46
		1880 (18900)	20.36	20.33	20.39
		1857.5 (18675)	20.39	20.48	20.42
	36RB-Low (0)	1902.5 (19125)	20.44	20.52	20.39
		1880 (18900)	20.35	20.30	20.32
		1857.5 (18675)	20.41	20.50	20.43
	75RB (0)	1902.5 (19125)	20.32	20.44	20.36
		1880 (18900)	20.37	20.35	20.40
		1857.5 (18675)	20.49	20.37	20.41
20MHz	1RB-High (99)	1900 (19100)	20.53	20.87	20.63
		1880 (18900)	20.54	20.87	20.56
		1860 (18700)	20.45	20.79	20.72
	1RB-Middle (50)	1900 (19100)	20.59	20.96	20.69
		1880 (18900)	20.43	20.81	20.78
		1860 (18700)	20.46	20.80	20.58
	1RB-Low (0)	1900 (19100)	20.73	20.98	20.79
		1880 (18900)	20.50	20.81	20.71
		1860 (18700)	20.40	20.77	20.58
	50RB-High (50)	1900 (19100)	20.72	20.69	20.66
		1880 (18900)	20.59	20.62	20.58
		1860 (18700)	20.64	20.63	20.62
	50RB-Middle (25)	1900 (19100)	20.69	20.67	20.55
		1880 (18900)	20.64	20.61	20.49
		1860 (18700)	20.66	20.58	20.49
	50RB-Low (0)	1900 (19100)	20.69	20.66	20.71
		1880 (18900)	20.60	20.53	20.55
		1860 (18700)	20.62	20.60	20.58
	100RB (0)	1900 (19100)	20.73	20.59	20.59
		1880 (18900)	20.60	20.61	20.57
		1860 (18700)	20.58	20.58	20.51

LTE Band2 ANT4-Power Level D1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	16.22	16.49	16.40
		1880 (18900)	16.26	16.55	16.51
		1850.7 (18607)	16.19	16.38	16.49
	1RB-Middle (3)	1909.3 (19193)	16.25	16.70	16.43
		1880 (18900)	16.29	16.67	16.65
		1850.7 (18607)	16.25	16.71	16.63
	1RB-Low (0)	1909.3 (19193)	16.27	16.57	16.58
		1880 (18900)	16.34	16.60	16.53
		1850.7 (18607)	16.25	16.58	16.55
	3RB-High (3)	1909.3 (19193)	16.21	16.37	16.39
		1880 (18900)	16.27	16.31	16.42
		1850.7 (18607)	16.27	16.34	16.42
	3RB-Middle (1)	1909.3 (19193)	16.33	16.44	16.50
		1880 (18900)	16.39	16.46	16.57
		1850.7 (18607)	16.35	16.42	16.50
	3RB-Low (0)	1909.3 (19193)	16.29	16.37	16.43
		1880 (18900)	16.37	16.38	16.47
		1850.7 (18607)	16.25	16.33	16.49
	6RB (0)	1909.3 (19193)	16.37	16.43	16.28
		1880 (18900)	16.37	16.54	16.36
		1850.7 (18607)	16.35	16.44	16.39
3MHz	1RB-High (14)	1908.5 (19185)	16.25	16.54	16.54
		1880 (18900)	16.29	16.52	16.52
		1851.5 (18615)	16.20	16.56	16.57
	1RB-Middle (7)	1908.5 (19185)	16.41	16.69	16.54
		1880 (18900)	16.43	16.68	16.51
		1851.5 (18615)	16.27	16.56	16.56
	1RB-Low (0)	1908.5 (19185)	16.42	16.74	16.62
		1880 (18900)	16.43	16.72	16.71
		1851.5 (18615)	16.34	16.83	16.59
	8RB-High (7)	1908.5 (19185)	16.34	16.49	16.47
		1880 (18900)	16.36	16.51	16.48
		1851.5 (18615)	16.35	16.41	16.36
	8RB-Middle (4)	1908.5 (19185)	16.51	16.51	16.52
		1880 (18900)	16.45	16.53	16.49
		1851.5 (18615)	16.40	16.46	16.45
	8RB-Low (0)	1908.5 (19185)	16.51	16.52	16.56
		1880 (18900)	16.45	16.51	16.50
		1851.5 (18615)	16.42	16.48	16.45
	15RB (0)	1908.5 (19185)	16.47	16.51	16.49
		1880 (18900)	16.36	16.48	16.46
		1851.5 (18615)	16.40	16.42	16.37

5MHz	1RB-High (24)	1907.5 (19175)	16.35	16.62	16.44
		1880 (18900)	16.38	16.68	16.56
		1852.5 (18625)	16.26	16.55	16.42
	1RB-Middle (12)	1907.5 (19175)	16.33	16.70	16.44
		1880 (18900)	16.33	16.69	16.58
		1852.5 (18625)	16.26	16.58	16.36
	1RB-Low (0)	1907.5 (19175)	16.41	16.75	16.62
		1880 (18900)	16.39	16.68	16.52
		1852.5 (18625)	16.39	16.66	16.49
	12RB-High (13)	1907.5 (19175)	16.40	16.43	16.38
		1880 (18900)	16.41	16.44	16.38
		1852.5 (18625)	16.35	16.38	16.33
	12RB-Middle (6)	1907.5 (19175)	16.48	16.53	16.49
		1880 (18900)	16.42	16.48	16.48
		1852.5 (18625)	16.49	16.51	16.52
	12RB-Low (0)	1907.5 (19175)	16.51	16.52	16.49
		1880 (18900)	16.53	16.56	16.51
		1852.5 (18625)	16.55	16.48	16.43
	25RB (0)	1907.5 (19175)	16.50	16.41	16.42
		1880 (18900)	16.42	16.45	16.42
		1852.5 (18625)	16.41	16.40	16.38
10MHz	1RB-High (49)	1905 (19150)	16.28	16.78	16.71
		1880 (18900)	16.30	16.64	16.53
		1855 (18650)	16.29	16.62	16.52
	1RB-Middle (24)	1905 (19150)	16.35	16.70	16.67
		1880 (18900)	16.48	16.61	16.70
		1855 (18650)	16.63	16.58	16.52
	1RB-Low (0)	1905 (19150)	16.37	16.72	16.58
		1880 (18900)	16.53	16.73	16.64
		1855 (18650)	16.37	16.60	16.63
	25RB-High (25)	1905 (19150)	16.41	16.51	16.42
		1880 (18900)	16.42	16.42	16.48
		1855 (18650)	16.39	16.40	16.47
	25RB-Middle (12)	1905 (19150)	16.47	16.41	16.49
		1880 (18900)	16.38	16.50	16.39
		1855 (18650)	16.51	16.51	16.37
	25RB-Low (0)	1905 (19150)	16.53	16.46	16.35
		1880 (18900)	16.49	16.51	16.52
		1855 (18650)	16.45	16.57	16.35
	50RB (0)	1905 (19150)	16.41	16.55	16.43
		1880 (18900)	16.43	16.44	16.48
		1855 (18650)	16.45	16.47	16.43

15MHz	1RB-High (74)	1902.5 (19125)	16.30	16.58	16.45
		1880 (18900)	16.21	16.62	16.60
		1857.5 (18675)	16.33	16.61	16.41
	1RB-Middle (37)	1902.5 (19125)	16.39	16.67	16.62
		1880 (18900)	16.27	16.63	16.45
		1857.5 (18675)	16.24	16.37	16.43
	1RB-Low (0)	1902.5 (19125)	16.43	16.67	16.57
		1880 (18900)	16.31	16.60	16.53
		1857.5 (18675)	16.30	16.62	16.42
	36RB-High (38)	1902.5 (19125)	16.41	16.41	16.35
		1880 (18900)	16.45	16.42	16.42
		1857.5 (18675)	16.33	16.41	16.40
	36RB-Middle (19)	1902.5 (19125)	16.51	16.43	16.42
		1880 (18900)	16.34	16.32	16.41
		1857.5 (18675)	16.38	16.37	16.36
	36RB-Low (0)	1902.5 (19125)	16.49	16.38	16.41
		1880 (18900)	16.44	16.41	16.32
		1857.5 (18675)	16.40	16.33	16.32
	75RB (0)	1902.5 (19125)	16.43	16.45	16.45
		1880 (18900)	16.36	16.36	16.34
		1857.5 (18675)	16.37	16.38	16.36
20MHz	1RB-High (99)	1900 (19100)	16.37	16.68	16.53
		1880 (18900)	16.38	16.71	16.51
		1860 (18700)	16.26	16.66	16.51
	1RB-Middle (50)	1900 (19100)	16.32	16.71	16.66
		1880 (18900)	16.37	16.73	16.58
		1860 (18700)	16.29	16.67	16.42
	1RB-Low (0)	1900 (19100)	16.36	16.77	16.59
		1880 (18900)	16.40	16.65	16.59
		1860 (18700)	16.35	16.65	16.57
	50RB-High (50)	1900 (19100)	16.52	16.51	16.56
		1880 (18900)	16.53	16.49	16.44
		1860 (18700)	16.49	16.48	16.53
	50RB-Middle (25)	1900 (19100)	16.49	16.52	16.48
		1880 (18900)	16.45	16.43	16.38
		1860 (18700)	16.45	16.51	16.47
	50RB-Low (0)	1900 (19100)	16.49	16.44	16.49
		1880 (18900)	16.45	16.52	16.39
		1860 (18700)	16.36	16.35	16.30
	100RB (0)	1900 (19100)	16.52	16.39	16.44
		1880 (18900)	16.44	16.40	16.36
		1860 (18700)	16.48	16.45	16.43

LTE Band2 ANT0-Power Level D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	22.14	21.93	22.35
		1880 (18900)	22.24	21.28	22.48
		1850.7 (18607)	22.61	22.12	22.18
	1RB-Middle (3)	1909.3 (19193)	22.18	22.15	22.15
		1880 (18900)	22.22	22.38	22.42
		1850.7 (18607)	22.83	22.38	22.81
	1RB-Low (0)	1909.3 (19193)	22.15	21.58	22.29
		1880 (18900)	22.63	21.36	22.56
		1850.7 (18607)	22.78	21.50	22.57
	3RB-High (3)	1909.3 (19193)	22.12	21.24	22.32
		1880 (18900)	22.11	21.12	22.72
		1850.7 (18607)	22.21	21.75	22.66
	3RB-Middle (1)	1909.3 (19193)	22.16	21.42	22.69
		1880 (18900)	22.08	21.74	22.40
		1850.7 (18607)	22.24	21.27	22.83
	3RB-Low (0)	1909.3 (19193)	22.12	21.24	22.61
		1880 (18900)	22.23	21.11	22.59
		1850.7 (18607)	22.31	21.66	22.92
	6RB (0)	1909.3 (19193)	21.75	21.44	22.61
		1880 (18900)	22.09	21.35	22.40
		1850.7 (18607)	22.23	21.63	22.81
3MHz	1RB-High (14)	1908.5 (19185)	22.03	21.82	22.35
		1880 (18900)	22.45	21.31	22.43
		1851.5 (18615)	22.55	22.11	22.28
	1RB-Middle (7)	1908.5 (19185)	22.08	22.21	22.24
		1880 (18900)	22.14	22.35	22.36
		1851.5 (18615)	22.76	22.41	22.82
	1RB-Low (0)	1908.5 (19185)	22.29	21.67	22.33
		1880 (18900)	22.71	21.24	22.62
		1851.5 (18615)	22.65	21.62	22.64
	8RB-High (7)	1908.5 (19185)	21.54	21.16	22.33
		1880 (18900)	21.94	21.08	22.72
		1851.5 (18615)	22.14	21.86	22.57
	8RB-Middle (4)	1908.5 (19185)	21.94	21.33	22.62
		1880 (18900)	22.02	21.81	22.38
		1851.5 (18615)	22.30	21.10	22.67
	8RB-Low (0)	1908.5 (19185)	21.80	21.37	22.65
		1880 (18900)	21.86	21.12	22.51
		1851.5 (18615)	22.49	21.79	22.82
	15RB (0)	1908.5 (19185)	21.65	21.49	22.48
		1880 (18900)	22.13	21.33	22.60
		1851.5 (18615)	22.27	21.59	22.69

5MHz	1RB-High (24)	1907.5 (19175)	22.12	21.91	22.32
		1880 (18900)	22.29	21.44	22.44
		1852.5 (18625)	22.56	22.15	22.33
	1RB-Middle (12)	1907.5 (19175)	22.12	22.12	22.30
		1880 (18900)	22.21	22.49	22.51
		1852.5 (18625)	22.65	22.37	22.82
	1RB-Low (0)	1907.5 (19175)	22.19	21.67	22.20
		1880 (18900)	22.67	21.35	22.68
		1852.5 (18625)	22.64	21.50	22.71
	12RB-High (13)	1907.5 (19175)	21.61	21.04	22.38
		1880 (18900)	21.80	21.13	22.83
		1852.5 (18625)	22.30	21.84	22.62
	12RB-Middle (6)	1907.5 (19175)	21.77	21.28	22.64
		1880 (18900)	21.93	21.78	22.42
		1852.5 (18625)	22.27	21.11	22.71
	12RB-Low (0)	1907.5 (19175)	21.79	21.21	22.61
		1880 (18900)	21.98	21.01	22.52
		1852.5 (18625)	22.36	21.65	22.82
	25RB (0)	1907.5 (19175)	21.86	21.39	22.54
		1880 (18900)	22.06	21.34	22.39
		1852.5 (18625)	22.30	21.58	22.71
10MHz	1RB-High (49)	1905 (19150)	22.19	21.87	22.22
		1880 (18900)	22.43	21.32	22.43
		1855 (18650)	22.49	22.21	22.20
	1RB-Middle (24)	1905 (19150)	22.13	22.02	22.26
		1880 (18900)	22.21	22.44	22.45
		1855 (18650)	22.75	22.47	22.73
	1RB-Low (0)	1905 (19150)	22.20	21.67	22.35
		1880 (18900)	22.71	21.32	22.62
		1855 (18650)	22.76	21.53	22.56
	25RB-High (25)	1905 (19150)	21.76	21.07	22.33
		1880 (18900)	21.86	20.99	22.71
		1855 (18650)	22.32	21.83	22.53
	25RB-Middle (12)	1905 (19150)	21.89	21.31	22.65
		1880 (18900)	21.92	21.70	22.40
		1855 (18650)	22.43	21.24	22.74
	25RB-Low (0)	1905 (19150)	21.72	21.24	22.70
		1880 (18900)	21.89	21.02	22.60
		1855 (18650)	22.43	21.77	22.77
	50RB (0)	1905 (19150)	21.78	21.35	22.55
		1880 (18900)	22.12	21.32	22.58
		1855 (18650)	22.36	21.58	22.65

15MHz	1RB-High (74)	1902.5 (19125)	22.21	21.90	22.25
		1880 (18900)	22.44	21.34	22.54
		1857.5 (18675)	22.62	22.19	22.22
	1RB-Middle (37)	1902.5 (19125)	22.10	22.12	22.23
		1880 (18900)	22.23	22.45	22.32
		1857.5 (18675)	22.73	22.52	22.70
	1RB-Low (0)	1902.5 (19125)	22.13	21.53	22.20
		1880 (18900)	22.62	21.24	22.67
		1857.5 (18675)	22.78	21.61	22.73
	36RB-High (38)	1902.5 (19125)	21.74	21.03	22.41
		1880 (18900)	21.81	20.96	22.71
		1857.5 (18675)	22.19	21.90	22.69
	36RB-Middle (19)	1902.5 (19125)	21.98	21.38	22.62
		1880 (18900)	21.91	21.62	22.42
		1857.5 (18675)	22.41	21.25	22.71
	36RB-Low (0)	1902.5 (19125)	21.82	21.30	22.60
		1880 (18900)	21.93	20.93	22.52
		1857.5 (18675)	22.28	21.64	22.77
	75RB (0)	1902.5 (19125)	21.80	21.52	22.58
		1880 (18900)	21.97	21.26	22.43
		1857.5 (18675)	22.41	21.72	22.69
20MHz	1RB-High (99)	1900 (19100)	22.15	21.96	22.30
		1880 (18900)	22.39	21.41	22.57
		1860 (18700)	22.62	22.18	22.30
	1RB-Middle (50)	1900 (19100)	22.13	22.17	22.29
		1880 (18900)	22.20	22.43	22.45
		1860 (18700)	22.78	22.49	22.79
	1RB-Low (0)	1900 (19100)	22.25	21.68	22.29
		1880 (18900)	22.72	21.34	22.61
		1860 (18700)	22.75	21.57	22.69
	50RB-High (50)	1900 (19100)	21.69	21.17	22.47
		1880 (18900)	21.89	21.07	22.77
		1860 (18700)	22.25	21.84	22.64
	50RB-Middle (25)	1900 (19100)	21.91	21.38	22.66
		1880 (18900)	22.00	21.75	22.53
		1860 (18700)	22.37	21.24	22.78
	50RB-Low (0)	1900 (19100)	21.83	21.36	22.71
		1880 (18900)	21.95	21.05	22.53
		1860 (18700)	22.42	21.76	22.92
	100RB (0)	1900 (19100)	21.79	21.45	22.63
		1880 (18900)	22.09	21.32	22.54
		1860 (18700)	22.34	21.65	22.75

LTE Band2 ANT0-Power Level E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	7.58	7.47	7.39
		1880 (18900)	7.70	7.57	7.31
		1850.7 (18607)	7.76	7.64	7.25
	1RB-Middle (3)	1909.3 (19193)	7.67	7.50	7.22
		1880 (18900)	7.65	7.49	7.29
		1850.7 (18607)	7.83	7.75	7.28
	1RB-Low (0)	1909.3 (19193)	7.62	7.59	7.29
		1880 (18900)	7.70	7.62	7.25
		1850.7 (18607)	7.83	7.72	7.45
	3RB-High (3)	1909.3 (19193)	7.67	7.39	7.33
		1880 (18900)	7.63	7.49	7.42
		1850.7 (18607)	7.92	7.69	7.45
	3RB-Middle (1)	1909.3 (19193)	7.58	7.36	7.45
		1880 (18900)	7.83	7.69	7.39
		1850.7 (18607)	8.00	7.75	7.33
	3RB-Low (0)	1909.3 (19193)	7.65	7.45	7.42
		1880 (18900)	7.86	7.76	7.33
		1850.7 (18607)	8.03	7.73	7.60
	6RB (0)	1909.3 (19193)	7.74	7.42	7.27
		1880 (18900)	7.77	7.50	7.35
		1850.7 (18607)	7.98	7.70	7.46
3MHz	1RB-High (14)	1908.5 (19185)	7.74	7.49	7.39
		1880 (18900)	7.77	7.59	7.35
		1851.5 (18615)	7.68	7.65	7.17
	1RB-Middle (7)	1908.5 (19185)	7.60	7.49	7.24
		1880 (18900)	7.75	7.47	7.39
		1851.5 (18615)	7.98	7.62	7.46
	1RB-Low (0)	1908.5 (19185)	7.65	7.47	7.30
		1880 (18900)	7.66	7.55	7.26
		1851.5 (18615)	7.93	7.65	7.46
	8RB-High (7)	1908.5 (19185)	7.71	7.44	7.42
		1880 (18900)	7.69	7.48	7.47
		1851.5 (18615)	7.86	7.80	7.49
	8RB-Middle (4)	1908.5 (19185)	7.56	7.40	7.31
		1880 (18900)	7.79	7.70	7.34
		1851.5 (18615)	7.90	7.76	7.46
	8RB-Low (0)	1908.5 (19185)	7.66	7.47	7.42
		1880 (18900)	7.81	7.70	7.37
		1851.5 (18615)	7.95	7.70	7.62
	15RB (0)	1908.5 (19185)	7.66	7.55	7.39
		1880 (18900)	7.75	7.62	7.31
		1851.5 (18615)	7.88	7.75	7.54

5MHz	1RB-High (24)	1907.5 (19175)	7.59	7.49	7.41
		1880 (18900)	7.71	7.59	7.33
		1852.5 (18625)	7.88	7.59	7.11
	1RB-Middle (12)	1907.5 (19175)	7.70	7.38	7.38
		1880 (18900)	7.74	7.48	7.41
		1852.5 (18625)	7.97	7.67	7.46
	1RB-Low (0)	1907.5 (19175)	7.77	7.44	7.31
		1880 (18900)	7.73	7.49	7.27
		1852.5 (18625)	7.94	7.75	7.36
	12RB-High (13)	1907.5 (19175)	7.77	7.44	7.39
		1880 (18900)	7.76	7.49	7.46
		1852.5 (18625)	7.89	7.77	7.50
	12RB-Middle (6)	1907.5 (19175)	7.58	7.49	7.37
		1880 (18900)	7.72	7.62	7.32
		1852.5 (18625)	7.88	7.77	7.48
	12RB-Low (0)	1907.5 (19175)	7.65	7.44	7.46
		1880 (18900)	7.96	7.58	7.35
		1852.5 (18625)	7.90	7.77	7.57
	25RB (0)	1907.5 (19175)	7.73	7.49	7.28
		1880 (18900)	7.77	7.45	7.40
		1852.5 (18625)	7.90	7.62	7.45
10MHz	1RB-High (49)	1905 (19150)	7.67	7.47	7.34
		1880 (18900)	7.64	7.59	7.37
		1855 (18650)	7.81	7.64	7.18
	1RB-Middle (24)	1905 (19150)	7.70	7.42	7.39
		1880 (18900)	7.67	7.49	7.38
		1855 (18650)	7.87	7.62	7.44
	1RB-Low (0)	1905 (19150)	7.73	7.57	7.19
		1880 (18900)	7.69	7.54	7.40
		1855 (18650)	7.87	7.83	7.37
	25RB-High (25)	1905 (19150)	7.72	7.51	7.33
		1880 (18900)	7.63	7.56	7.40
		1855 (18650)	7.85	7.70	7.46
	25RB-Middle (12)	1905 (19150)	7.71	7.49	7.32
		1880 (18900)	7.85	7.57	7.39
		1855 (18650)	7.98	7.71	7.43
	25RB-Low (0)	1905 (19150)	7.72	7.44	7.38
		1880 (18900)	7.79	7.64	7.43
		1855 (18650)	7.96	7.86	7.51
	50RB (0)	1905 (19150)	7.70	7.56	7.44
		1880 (18900)	7.79	7.55	7.32
		1855 (18650)	7.78	7.55	7.36

15MHz	1RB-High (74)	1902.5 (19125)	7.69	7.40	7.38
		1880 (18900)	7.78	7.58	7.43
		1857.5 (18675)	7.73	7.73	7.26
	1RB-Middle (37)	1902.5 (19125)	7.59	7.38	7.27
		1880 (18900)	7.68	7.63	7.43
		1857.5 (18675)	7.95	7.60	7.45
	1RB-Low (0)	1902.5 (19125)	7.73	7.55	7.21
		1880 (18900)	7.69	7.65	7.33
		1857.5 (18675)	7.86	7.70	7.37
	36RB-High (38)	1902.5 (19125)	7.63	7.39	7.34
		1880 (18900)	7.61	7.62	7.41
		1857.5 (18675)	7.88	7.76	7.48
	36RB-Middle (19)	1902.5 (19125)	7.74	7.50	7.35
		1880 (18900)	7.89	7.54	7.39
		1857.5 (18675)	7.83	7.61	7.45
	36RB-Low (0)	1902.5 (19125)	7.81	7.48	7.54
		1880 (18900)	7.82	7.71	7.46
		1857.5 (18675)	7.94	7.77	7.45
	75RB (0)	1902.5 (19125)	7.74	7.55	7.40
		1880 (18900)	7.83	7.49	7.36
		1857.5 (18675)	7.75	7.52	7.40
20MHz	1RB-High (99)	1900 (19100)	7.64	7.49	7.39
		1880 (18900)	7.72	7.58	7.35
		1860 (18700)	7.78	7.64	7.20
	1RB-Middle (50)	1900 (19100)	7.63	7.44	7.29
		1880 (18900)	7.66	7.53	7.39
		1860 (18700)	7.88	7.69	7.38
	1RB-Low (0)	1900 (19100)	7.66	7.52	7.29
		1880 (18900)	7.76	7.58	7.35
		1860 (18700)	7.93	7.73	7.45
	50RB-High (50)	1900 (19100)	7.68	7.49	7.36
		1880 (18900)	7.70	7.55	7.44
		1860 (18700)	7.93	7.77	7.49
	50RB-Middle (25)	1900 (19100)	7.66	7.45	7.36
		1880 (18900)	7.79	7.62	7.35
		1860 (18700)	7.92	7.70	7.39
	50RB-Low (0)	1900 (19100)	7.75	7.52	7.46
		1880 (18900)	7.87	7.67	7.37
		1860 (18700)	7.99	7.80	7.53
	100RB (0)	1900 (19100)	7.69	7.50	7.35
		1880 (18900)	7.77	7.55	7.32
		1860 (18700)	7.93	7.70	7.48

LTE Band2 ANT0-Power Level F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	15.05	15.36	15.18
		1880 (18900)	15.29	15.57	15.02
		1850.7 (18607)	15.40	15.71	14.90
	1RB-Middle (3)	1909.3 (19193)	15.22	15.43	14.85
		1880 (18900)	15.19	15.40	14.98
		1850.7 (18607)	15.53	15.93	14.97
	1RB-Low (0)	1909.3 (19193)	15.11	15.62	14.99
		1880 (18900)	15.29	15.67	14.91
		1850.7 (18607)	15.53	15.88	15.31
	3RB-High (3)	1909.3 (19193)	15.23	15.21	15.08
		1880 (18900)	15.13	15.42	15.25
		1850.7 (18607)	15.70	15.82	15.31
	3RB-Middle (1)	1909.3 (19193)	15.05	15.15	15.31
		1880 (18900)	15.53	15.81	15.19
		1850.7 (18607)	15.87	15.94	15.07
	3RB-Low (0)	1909.3 (19193)	15.18	15.33	15.25
		1880 (18900)	15.59	15.96	15.07
		1850.7 (18607)	15.92	15.89	15.63
	6RB (0)	1909.3 (19193)	15.35	15.27	14.94
		1880 (18900)	15.42	15.43	15.11
		1850.7 (18607)	15.83	15.84	15.34
3MHz	1RB-High (14)	1908.5 (19185)	15.36	15.41	15.20
		1880 (18900)	15.42	15.61	15.10
		1851.5 (18615)	15.24	15.74	14.74
	1RB-Middle (7)	1908.5 (19185)	15.09	15.41	14.89
		1880 (18900)	15.38	15.36	15.19
		1851.5 (18615)	15.84	15.67	15.34
	1RB-Low (0)	1908.5 (19185)	15.19	15.36	15.00
		1880 (18900)	15.20	15.53	14.92
		1851.5 (18615)	15.74	15.73	15.33
	8RB-High (7)	1908.5 (19185)	15.30	15.30	15.25
		1880 (18900)	15.27	15.39	15.36
		1851.5 (18615)	15.60	16.05	15.40
	8RB-Middle (4)	1908.5 (19185)	15.01	15.23	15.03
		1880 (18900)	15.46	15.84	15.09
		1851.5 (18615)	15.68	15.96	15.34
	8RB-Low (0)	1908.5 (19185)	15.20	15.36	15.25
		1880 (18900)	15.50	15.85	15.15
		1851.5 (18615)	15.77	15.85	15.67
	15RB (0)	1908.5 (19185)	15.20	15.53	15.18
		1880 (18900)	15.37	15.68	15.02
		1851.5 (18615)	15.64	15.93	15.50

5MHz	1RB-High (24)	1907.5 (19175)	15.07	15.42	15.24
		1880 (18900)	15.30	15.62	15.07
		1852.5 (18625)	15.63	15.61	14.63
	1RB-Middle (12)	1907.5 (19175)	15.29	15.18	15.16
		1880 (18900)	15.36	15.39	15.24
		1852.5 (18625)	15.82	15.78	15.34
	1RB-Low (0)	1907.5 (19175)	15.41	15.31	15.02
		1880 (18900)	15.34	15.40	14.94
		1852.5 (18625)	15.75	15.94	15.12
	12RB-High (13)	1907.5 (19175)	15.42	15.30	15.18
		1880 (18900)	15.40	15.42	15.34
		1852.5 (18625)	15.66	15.97	15.41
	12RB-Middle (6)	1907.5 (19175)	15.05	15.40	15.14
		1880 (18900)	15.31	15.68	15.05
		1852.5 (18625)	15.63	15.98	15.38
	12RB-Low (0)	1907.5 (19175)	15.19	15.31	15.34
		1880 (18900)	15.80	15.59	15.11
		1852.5 (18625)	15.67	15.99	15.55
	25RB (0)	1907.5 (19175)	15.34	15.42	14.96
		1880 (18900)	15.42	15.33	15.21
		1852.5 (18625)	15.67	15.68	15.31
10MHz	1RB-High (49)	1905 (19150)	15.22	15.37	15.09
		1880 (18900)	15.16	15.61	15.14
		1855 (18650)	15.50	15.72	14.75
	1RB-Middle (24)	1905 (19150)	15.29	15.26	15.18
		1880 (18900)	15.23	15.42	15.17
		1855 (18650)	15.61	15.67	15.29
	1RB-Low (0)	1905 (19150)	15.33	15.57	14.78
		1880 (18900)	15.26	15.50	15.21
		1855 (18650)	15.61	16.09	15.15
	25RB-High (25)	1905 (19150)	15.31	15.45	15.08
		1880 (18900)	15.13	15.54	15.22
		1855 (18650)	15.57	15.84	15.34
	25RB-Middle (12)	1905 (19150)	15.30	15.40	15.06
		1880 (18900)	15.57	15.57	15.18
		1855 (18650)	15.84	15.86	15.28
	25RB-Low (0)	1905 (19150)	15.31	15.31	15.16
		1880 (18900)	15.47	15.72	15.27
		1855 (18650)	15.79	16.17	15.44
	50RB (0)	1905 (19150)	15.29	15.55	15.29
		1880 (18900)	15.46	15.52	15.06
		1855 (18650)	15.54	15.95	15.45

15MHz	1RB-High (74)	1902.5 (19125)	15.26	15.23	15.17
		1880 (18900)	15.43	15.60	15.28
		1857.5 (18675)	15.33	15.90	14.92
	1RB-Middle (37)	1902.5 (19125)	15.06	15.18	14.94
		1880 (18900)	15.24	15.69	15.28
		1857.5 (18675)	15.77	15.64	15.30
	1RB-Low (0)	1902.5 (19125)	15.34	15.53	14.83
		1880 (18900)	15.26	15.74	15.08
		1857.5 (18675)	15.59	15.85	15.15
	36RB-High (38)	1902.5 (19125)	15.14	15.20	15.09
		1880 (18900)	15.10	15.68	15.23
		1857.5 (18675)	15.63	15.95	15.37
	36RB-Middle (19)	1902.5 (19125)	15.35	15.44	15.10
		1880 (18900)	15.65	15.50	15.19
		1857.5 (18675)	15.53	15.65	15.30
	36RB-Low (0)	1902.5 (19125)	15.49	15.38	15.49
		1880 (18900)	15.52	15.87	15.33
		1857.5 (18675)	15.76	15.99	15.30
	75RB (0)	1902.5 (19125)	15.35	15.53	15.22
		1880 (18900)	15.53	15.41	15.12
		1857.5 (18675)	15.57	16.00	15.34
20MHz	1RB-High (99)	1900 (19100)	15.16	15.41	15.19
		1880 (18900)	15.31	15.60	15.11
		1860 (18700)	15.44	15.72	14.81
	1RB-Middle (50)	1900 (19100)	15.14	15.30	14.99
		1880 (18900)	15.21	15.49	15.18
		1860 (18700)	15.64	15.81	15.16
	1RB-Low (0)	1900 (19100)	15.21	15.48	14.98
		1880 (18900)	15.39	15.59	15.11
		1860 (18700)	15.72	15.89	15.30
	50RB-High (50)	1900 (19100)	15.24	15.40	15.12
		1880 (18900)	15.28	15.52	15.29
		1860 (18700)	15.72	15.98	15.39
	50RB-Middle (25)	1900 (19100)	15.21	15.33	15.12
		1880 (18900)	15.47	15.67	15.11
		1860 (18700)	15.71	15.83	15.20
	50RB-Low (0)	1900 (19100)	15.37	15.47	15.32
		1880 (18900)	15.62	15.78	15.14
		1860 (18700)	15.85	16.04	15.47
	100RB (0)	1900 (19100)	15.27	15.43	15.10
		1880 (18900)	15.42	15.52	15.05
		1860 (18700)	15.74	15.85	15.38

LTE Band5-Power Level A1/B1/C1/E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	848.3 (20643)	23.98	23.59	22.36
		836.5 (20525)	24.04	23.36	22.37
		824.7 (20407)	24.02	23.55	22.50
	1RB-Middle (3)	848.3 (20643)	24.01	23.44	22.32
		836.5 (20525)	24.20	23.46	22.38
		824.7 (20407)	24.05	23.61	22.49
	1RB-Low (0)	848.3 (20643)	23.96	23.54	22.20
		836.5 (20525)	24.10	23.51	22.19
		824.7 (20407)	24.03	23.56	22.35
	3RB-High (3)	848.3 (20643)	24.20	23.09	22.22
		836.5 (20525)	24.25	23.22	22.21
		824.7 (20407)	24.22	23.19	22.21
	3RB-Middle (1)	848.3 (20643)	24.20	23.15	22.31
		836.5 (20525)	24.19	23.17	22.38
		824.7 (20407)	24.17	23.13	22.39
	3RB-Low (0)	848.3 (20643)	24.19	23.15	22.22
		836.5 (20525)	24.12	23.16	22.30
		824.7 (20407)	24.23	23.21	22.36
	6RB (0)	848.3 (20643)	23.16	22.19	21.12
		836.5 (20525)	23.19	22.25	21.15
		824.7 (20407)	23.14	22.28	21.10
3MHz	1RB-High (14)	847.5 (20635)	24.10	23.46	23.61
		836.5 (20525)	24.18	23.65	23.45
		825.5 (20415)	24.15	23.56	23.34
	1RB-Middle (7)	847.5 (20635)	24.03	23.48	23.26
		836.5 (20525)	24.16	23.42	23.49
		825.5 (20415)	24.11	23.39	23.48
	1RB-Low (0)	847.5 (20635)	24.21	23.51	23.27
		836.5 (20525)	24.25	23.60	23.39
		825.5 (20415)	24.17	23.54	23.55
	8RB-High (7)	847.5 (20635)	23.25	22.37	22.31
		836.5 (20525)	23.26	22.37	22.31
		825.5 (20415)	23.25	22.38	22.28
	8RB-Middle (4)	847.5 (20635)	23.16	22.38	22.36
		836.5 (20525)	23.25	22.45	22.32
		825.5 (20415)	23.23	22.35	22.23
	8RB-Low (0)	847.5 (20635)	23.19	22.31	22.32
		836.5 (20525)	23.23	22.32	22.30
		825.5 (20415)	23.30	22.34	22.27
	15RB (0)	847.5 (20635)	23.29	22.36	22.26
		836.5 (20525)	23.25	22.24	22.30
		825.5 (20415)	23.28	22.35	22.29

5MHz	1RB-High (24)	846.5 (20625)	24.15	23.61	23.25
		836.5 (20525)	24.32	23.67	23.39
		826.5 (20425)	24.19	23.63	23.28
	1RB-Middle (12)	846.5 (20625)	24.10	23.45	23.45
		836.5 (20525)	24.25	23.44	23.49
		826.5 (20425)	23.99	23.32	23.45
	1RB-Low (0)	846.5 (20625)	24.25	23.52	23.21
		836.5 (20525)	24.25	23.40	23.48
		826.5 (20425)	24.27	23.63	23.49
	12RB-High (13)	846.5 (20625)	23.25	22.29	22.26
		836.5 (20525)	23.31	22.32	22.30
		826.5 (20425)	23.28	22.29	22.27
	12RB-Middle (6)	846.5 (20625)	23.29	22.28	22.21
		836.5 (20525)	23.33	22.36	22.34
		826.5 (20425)	23.29	22.27	22.23
	12RB-Low (0)	846.5 (20625)	23.27	22.23	22.24
		836.5 (20525)	23.31	22.28	22.26
		826.5 (20425)	23.34	22.27	22.32
	25RB (0)	846.5 (20625)	23.18	22.31	22.25
		836.5 (20525)	23.27	22.28	22.29
		826.5 (20425)	23.32	22.35	22.30
10MHz	1RB-High (49)	844 (20600)	24.11	23.54	23.56
		836.5 (20525)	24.24	23.67	23.60
		829 (20450)	24.17	23.45	23.39
	1RB-Middle (24)	844 (20600)	24.10	23.00	23.64
		836.5 (20525)	24.24	23.18	23.25
		829 (20450)	24.26	23.24	23.39
	1RB-Low (0)	844 (20600)	24.29	23.58	23.59
		836.5 (20525)	24.22	23.67	23.45
		829 (20450)	24.26	23.48	23.40
	25RB-High (25)	844 (20600)	23.41	22.47	22.31
		836.5 (20525)	23.36	22.29	22.17
		829 (20450)	23.22	22.24	22.28
	25RB-Middle (12)	844 (20600)	23.33	22.01	22.35
		836.5 (20525)	23.24	22.34	22.34
		829 (20450)	23.36	22.39	22.38
	25RB-Low (0)	844 (20600)	23.40	22.36	22.32
		836.5 (20525)	23.32	22.33	22.23
		829 (20450)	23.20	22.31	22.31
	50RB (0)	844 (20600)	23.11	22.55	22.21
		836.5 (20525)	23.39	22.42	22.39
		829 (20450)	23.40	22.35	22.27

LTE Band5-Power Level D1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	848.3 (20643)	18.01	18.33	18.17
		836.5 (20525)	18.07	18.31	18.29
		824.7 (20407)	18.02	18.26	18.26
	1RB-Middle (3)	848.3 (20643)	18.03	18.40	18.26
		836.5 (20525)	18.03	18.50	18.28
		824.7 (20407)	17.98	18.44	18.36
	1RB-Low (0)	848.3 (20643)	18.04	18.30	18.25
		836.5 (20525)	17.97	18.30	18.29
		824.7 (20407)	18.01	18.26	18.29
	3RB-High (3)	848.3 (20643)	18.07	18.11	18.12
		836.5 (20525)	18.05	18.12	18.19
		824.7 (20407)	18.01	18.06	18.24
	3RB-Middle (1)	848.3 (20643)	18.06	18.22	18.22
		836.5 (20525)	18.08	18.14	18.19
		824.7 (20407)	18.05	18.08	18.19
	3RB-Low (0)	848.3 (20643)	18.01	18.15	18.20
		836.5 (20525)	18.02	18.11	18.12
		824.7 (20407)	18.04	18.15	18.15
	6RB (0)	848.3 (20643)	18.12	18.23	18.21
		836.5 (20525)	18.12	18.16	18.08
		824.7 (20407)	18.00	18.18	18.04
3MHz	1RB-High (14)	847.5 (20635)	18.12	18.48	18.36
		836.5 (20525)	18.14	18.38	18.38
		825.5 (20415)	18.05	18.41	18.28
	1RB-Middle (7)	847.5 (20635)	18.09	18.34	18.29
		836.5 (20525)	18.00	18.40	18.14
		825.5 (20415)	18.05	18.19	18.16
	1RB-Low (0)	847.5 (20635)	18.11	18.53	18.41
		836.5 (20525)	18.13	18.45	18.28
		825.5 (20415)	18.12	18.36	18.36
	8RB-High (7)	847.5 (20635)	18.19	18.22	18.22
		836.5 (20525)	18.23	18.23	18.26
		825.5 (20415)	18.15	18.24	18.21
	8RB-Middle (4)	847.5 (20635)	18.20	18.31	18.19
		836.5 (20525)	18.19	18.27	18.26
		825.5 (20415)	18.16	18.23	18.21
	8RB-Low (0)	847.5 (20635)	18.13	18.25	18.27
		836.5 (20525)	18.17	18.21	18.22
		825.5 (20415)	18.17	18.22	18.15
	15RB (0)	847.5 (20635)	18.21	18.19	18.21
		836.5 (20525)	18.13	18.15	18.15
		825.5 (20415)	18.19	18.17	18.17

5MHz	1RB-High (24)	846.5 (20625)	18.23	18.46	18.30
		836.5 (20525)	18.17	18.39	18.32
		826.5 (20425)	18.05	18.41	18.35
	1RB-Middle (12)	846.5 (20625)	17.96	18.45	18.25
		836.5 (20525)	18.10	18.32	18.30
		826.5 (20425)	17.95	18.33	18.17
	1RB-Low (0)	846.5 (20625)	18.01	18.44	18.16
		836.5 (20525)	18.05	18.45	18.35
		826.5 (20425)	18.15	18.46	18.42
	12RB-High (13)	846.5 (20625)	18.25	18.22	18.20
		836.5 (20525)	18.17	18.26	18.19
		826.5 (20425)	18.18	18.19	18.09
	12RB-Middle (6)	846.5 (20625)	18.14	18.20	18.19
		836.5 (20525)	18.15	18.20	18.20
		826.5 (20425)	18.16	18.18	18.17
	12RB-Low (0)	846.5 (20625)	18.17	18.16	18.15
		836.5 (20525)	18.19	18.20	18.20
		826.5 (20425)	18.16	18.14	18.26
	25RB (0)	846.5 (20625)	18.12	18.16	18.19
		836.5 (20525)	18.12	18.15	18.17
		826.5 (20425)	18.19	18.21	18.16
10MHz	1RB-High (49)	844 (20600)	18.07	18.40	18.28
		836.5 (20525)	17.98	18.36	18.28
		829 (20450)	18.13	18.44	18.42
	1RB-Middle (24)	844 (20600)	18.39	18.32	18.24
		836.5 (20525)	18.20	18.40	18.30
		829 (20450)	18.35	18.39	18.24
	1RB-Low (0)	844 (20600)	18.32	18.38	18.44
		836.5 (20525)	17.99	18.52	18.36
		829 (20450)	18.14	18.53	18.28
	25RB-High (25)	844 (20600)	18.28	18.33	18.30
		836.5 (20525)	18.21	18.20	18.29
		829 (20450)	18.27	18.27	18.25
	25RB-Middle (12)	844 (20600)	18.20	18.23	18.22
		836.5 (20525)	18.26	18.26	18.23
		829 (20450)	18.25	18.34	18.24
	25RB-Low (0)	844 (20600)	18.25	18.24	18.23
		836.5 (20525)	18.21	18.30	18.18
		829 (20450)	18.20	18.19	18.17
	50RB (0)	844 (20600)	18.19	18.25	18.22
		836.5 (20525)	18.23	18.24	18.19
		829 (20450)	18.29	18.29	18.18

LTE Band12-Power Level A1/B1/C1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	715.3 (23173)	23.88	23.17	23.21
		707.5 (23095)	23.82	23.24	22.11
		699.7 (23017)	23.89	23.30	21.88
	1RB-Middle (3)	715.3 (23173)	23.94	23.35	21.86
		707.5 (23095)	23.90	23.39	22.24
		699.7 (23017)	23.94	23.20	21.94
	1RB-Low (0)	715.3 (23173)	23.96	23.36	21.76
		707.5 (23095)	23.87	23.40	22.21
		699.7 (23017)	23.96	23.32	21.95
	3RB-High (3)	715.3 (23173)	23.97	23.03	22.96
		707.5 (23095)	23.95	22.98	22.04
		699.7 (23017)	23.92	23.06	22.15
	3RB-Middle (1)	715.3 (23173)	24.03	23.12	23.21
		707.5 (23095)	23.98	22.93	22.15
		699.7 (23017)	23.95	23.14	22.12
	3RB-Low (0)	715.3 (23173)	24.05	23.04	21.75
		707.5 (23095)	23.93	22.98	22.10
		699.7 (23017)	23.92	22.95	22.22
	6RB (0)	715.3 (23173)	23.03	22.10	21.07
		707.5 (23095)	22.02	22.00	21.02
		699.7 (23017)	22.92	21.13	20.82
3MHz	1RB-High (14)	714.5 (23165)	23.94	23.32	23.24
		707.5 (23095)	23.97	23.28	23.09
		700.5 (23025)	23.90	23.21	23.35
	1RB-Middle (7)	714.5 (23165)	23.98	23.31	23.29
		707.5 (23095)	23.96	23.32	23.08
		700.5 (23025)	23.90	23.17	23.09
	1RB-Low (0)	714.5 (23165)	24.00	23.40	23.47
		707.5 (23095)	23.94	23.42	23.26
		700.5 (23025)	23.95	23.16	23.06
	8RB-High (7)	714.5 (23165)	23.03	22.06	22.19
		707.5 (23095)	23.07	22.08	22.02
		700.5 (23025)	23.03	22.10	22.08
	8RB-Middle (4)	714.5 (23165)	23.06	22.19	22.19
		707.5 (23095)	23.04	22.12	22.11
		700.5 (23025)	23.06	22.06	22.12
	8RB-Low (0)	714.5 (23165)	23.04	22.12	22.05
		707.5 (23095)	23.06	22.12	22.08
		700.5 (23025)	23.06	22.12	22.19
	15RB (0)	714.5 (23165)	23.05	22.05	22.07
		707.5 (23095)	23.07	22.12	22.01
		700.5 (23025)	23.04	21.98	22.19

5MHz	1RB-High (24)	713.5 (23155)	23.98	23.50	22.25
		707.5 (23095)	24.05	23.36	22.22
		701.5 (23035)	23.91	23.28	22.16
	1RB-Middle (12)	713.5 (23155)	23.99	23.31	22.29
		707.5 (23095)	24.00	23.27	22.07
		701.5 (23035)	23.97	23.16	22.22
	1RB-Low (0)	713.5 (23155)	24.02	23.41	22.13
		707.5 (23095)	23.81	23.43	22.14
		701.5 (23035)	23.96	23.35	22.26
	12RB-High (13)	713.5 (23155)	23.03	22.10	21.10
		707.5 (23095)	22.99	22.05	21.08
		701.5 (23035)	22.99	22.09	21.10
	12RB-Middle (6)	713.5 (23155)	23.17	22.11	21.13
		707.5 (23095)	23.09	22.05	21.09
		701.5 (23035)	22.98	22.22	21.04
	12RB-Low (0)	713.5 (23155)	23.07	22.08	21.13
		707.5 (23095)	22.97	22.02	21.04
		701.5 (23035)	23.02	22.08	21.07
	25RB (0)	713.5 (23155)	23.10	22.03	21.14
		707.5 (23095)	23.06	22.11	21.04
		701.5 (23035)	23.20	22.14	20.97
10MHz	1RB-High (49)	711 (23130)	23.87	23.30	23.30
		707.5 (23095)	23.67	23.26	23.26
		704 (23060)	23.81	23.04	23.04
	1RB-Middle (24)	711 (23130)	24.02	23.00	23.00
		707.5 (23095)	23.91	22.94	22.94
		704 (23060)	23.97	23.16	23.16
	1RB-Low (0)	711 (23130)	24.15	23.19	23.19
		707.5 (23095)	23.92	23.29	23.29
		704 (23060)	23.84	23.33	23.33
	25RB-High (25)	711 (23130)	22.94	22.07	22.07
		707.5 (23095)	22.96	22.02	22.02
		704 (23060)	22.95	22.07	22.07
	25RB-Middle (12)	711 (23130)	22.91	22.03	22.03
		707.5 (23095)	23.04	22.02	22.02
		704 (23060)	22.95	22.01	22.01
	25RB-Low (0)	711 (23130)	22.88	21.98	21.98
		707.5 (23095)	22.90	22.01	22.01
		704 (23060)	22.97	21.87	21.87
	50RB (0)	711 (23130)	22.93	21.89	21.89
		707.5 (23095)	23.04	22.03	22.03
		704 (23060)	22.89	22.10	22.10

LTE Band12-Power Level D1/E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	715.3	17.72	18.50	17.81
		707.5	17.92	18.16	18.84
		699.7	18.23	18.59	18.47
	1RB-Middle (3)	715.3	17.99	18.55	17.92
		707.5	18.06	18.30	18.31
		699.7	18.39	18.34	18.47
	1RB-Low (0)	715.3	18.24	18.35	18.02
		707.5	18.14	18.71	18.12
		699.7	18.37	18.69	18.34
	3RB-High (3)	715.3	18.23	18.03	18.13
		707.5	18.07	18.01	18.28
		699.7	18.20	18.16	18.04
	3RB-Middle (1)	715.3	18.07	18.46	18.02
		707.5	18.23	18.45	18.28
		699.7	17.98	17.95	18.05
	3RB-Low (0)	715.3	18.04	18.41	18.25
		707.5	18.23	18.01	17.86
		699.7	18.49	18.47	18.42
	6RB (0)	715.3	17.89	18.30	18.33
		707.5	18.56	18.14	18.31
		699.7	18.19	18.07	18.40
3MHz	1RB-High (14)	714.5	18.00	18.54	17.77
		707.5	18.19	18.30	18.45
		700.5	17.82	18.48	18.08
	1RB-Middle (7)	714.5	18.24	18.37	17.92
		707.5	17.99	18.17	18.53
		700.5	18.39	18.06	18.44
	1RB-Low (0)	714.5	18.12	18.08	18.44
		707.5	18.21	18.23	18.45
		700.5	18.20	18.64	18.24
	8RB-High (7)	714.5	18.38	18.18	17.88
		707.5	18.07	18.18	18.03
		700.5	18.20	17.85	18.27
	8RB-Middle (4)	714.5	18.55	18.35	18.15
		707.5	18.10	18.45	18.49
		700.5	18.19	18.47	18.43
	8RB-Low (0)	714.5	17.72	18.35	18.37
		707.5	18.44	18.02	18.03
		700.5	18.58	18.36	18.33
	15RB (0)	714.5	18.04	18.17	18.57
		707.5	18.56	18.27	18.12
		700.5	18.41	18.02	18.45

5MHz	1RB-High (24)	713.5	17.75	18.27	18.11
		707.5	17.76	18.71	18.81
		701.5	17.73	18.28	18.19
	1RB-Middle (12)	713.5	17.97	18.17	18.34
		707.5	18.10	18.41	18.17
		701.5	18.42	18.29	18.42
	1RB-Low (0)	713.5	18.55	18.48	17.93
		707.5	18.30	18.67	18.57
		701.5	18.03	18.49	18.63
	12RB-High (13)	713.5	18.19	18.01	18.04
		707.5	18.08	17.73	18.45
		701.5	18.49	18.23	18.23
	12RB-Middle (6)	713.5	18.52	18.05	17.94
		707.5	18.09	18.54	18.41
		701.5	18.44	17.93	18.19
	12RB-Low (0)	713.5	17.92	17.93	18.02
		707.5	17.99	18.36	18.37
		701.5	18.14	18.51	18.26
	25RB (0)	713.5	17.84	18.02	17.98
		707.5	18.34	18.25	18.06
		701.5	17.94	18.30	17.99
10MHz	1RB-High (49)	711	17.89	18.25	18.07
		707.5	17.95	18.46	18.54
		704	17.98	18.31	18.23
	1RB-Middle (24)	711	18.03	18.38	18.16
		707.5	18.18	18.21	18.23
		704	18.32	18.27	18.32
	1RB-Low (0)	711	18.31	18.34	18.18
		707.5	18.12	18.48	18.39
		704	18.07	18.57	18.50
	25RB-High (25)	711	18.15	18.11	18.11
		707.5	18.15	18.03	18.19
		704	18.19	18.07	18.28
	25RB-Middle (12)	711	18.27	18.16	18.21
		707.5	18.14	18.26	18.25
		704	18.23	18.19	18.27
	25RB-Low (0)	711	17.98	18.12	18.11
		707.5	18.23	18.19	18.16
		704	18.32	18.21	18.28
	50RB (0)	711	18.07	18.22	18.28
		707.5	18.29	18.19	18.11
		704	18.17	18.20	18.16

LTE Band13-Power Level A1/B1/C1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	784.5 (23255)	23.73	23.10	23.09
		782 (23230)	23.71	23.09	22.90
		779.5 (23205)	23.79	23.08	23.03
	1RB-Middle (12)	784.5 (23255)	23.72	23.16	23.14
		782 (23230)	23.78	22.98	23.06
		779.5 (23205)	23.74	22.96	22.95
	1RB-Low (0)	784.5 (23255)	23.75	23.21	23.04
		782 (23230)	23.73	23.11	22.97
		779.5 (23205)	23.80	23.06	23.03
	12RB-High (13)	784.5 (23255)	22.79	21.85	21.93
		782 (23230)	22.85	21.89	21.83
		779.5 (23205)	22.85	21.89	21.86
	12RB-Middle (6)	784.5 (23255)	22.85	21.84	21.89
		782 (23230)	22.86	21.90	21.85
		779.5 (23205)	22.94	21.88	21.88
	12RB-Low (0)	784.5 (23255)	22.77	21.80	21.78
		782 (23230)	22.86	21.84	21.82
		779.5 (23205)	22.88	21.93	21.90
	25RB (0)	784.5 (23255)	22.73	21.83	21.80
		782 (23230)	22.83	21.90	21.85
		779.5 (23205)	22.87	21.94	21.91
10MHz	1RB-High (49)	782 (23230)	23.55	23.10	22.98
	1RB-Middle (24)	782 (23230)	23.76	23.07	23.17
	1RB-Low (0)	782 (23230)	23.79	22.93	23.02
	25RB-High (25)	782 (23230)	22.80	21.78	21.87
	25RB-Middle (12)	782 (23230)	22.88	21.93	21.93
	25RB-Low (0)	782 (23230)	22.86	21.92	21.71
	50RB (0)	782 (23230)	22.92	21.88	21.91

LTE Band12-Power Level D1/E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	784.5 (23255)	17.87	18.23	18.19
		782 (23230)	17.88	18.28	18.09
		779.5 (23205)	17.92	18.22	18.07
	1RB-Middle (12)	784.5 (23255)	17.87	18.16	18.03
		782 (23230)	17.73	18.26	18.18
		779.5 (23205)	17.89	18.16	18.04
	1RB-Low (0)	784.5 (23255)	17.86	18.28	18.04
		782 (23230)	17.85	18.18	18.08
		779.5 (23205)	17.86	18.08	17.92
	12RB-High (13)	784.5 (23255)	17.94	17.99	17.96
		782 (23230)	17.88	18.00	17.95
		779.5 (23205)	17.90	17.94	17.92
	12RB-Middle (6)	784.5 (23255)	17.95	17.98	17.96
		782 (23230)	17.86	18.04	18.04
		779.5 (23205)	18.04	18.00	17.98
	12RB-Low (0)	784.5 (23255)	17.86	17.92	17.92
		782 (23230)	17.89	17.96	17.91
		779.5 (23205)	17.91	17.93	17.90
	25RB (0)	784.5 (23255)	17.87	17.93	17.93
		782 (23230)	17.95	18.01	18.00
		779.5 (23205)	17.94	17.97	17.97
10MHz	1RB-High (49)	782 (23230)	17.88	18.24	18.04
	1RB-Middle (24)	782 (23230)	17.97	18.24	18.13
	1RB-Low (0)	782 (23230)	17.89	18.38	18.13
	25RB-High (25)	782 (23230)	17.97	18.04	17.97
	25RB-Middle (12)	782 (23230)	17.94	18.02	18.00
	25RB-Low (0)	782 (23230)	17.91	17.94	17.93
	50RB (0)	782 (23230)	18.01	18.01	18.00

LTE Band25-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1914.3 (26683)	20.40	20.95	20.57
		1882.5 (26365)	20.32	20.85	20.62
		1850.7 (26047)	20.48	20.94	20.70
	1RB-Middle (3)	1914.3 (26683)	20.48	20.93	20.67
		1882.5 (26365)	20.46	20.90	20.70
		1850.7 (26047)	20.53	20.98	20.69
	1RB-Low (0)	1914.3 (26683)	20.42	20.84	20.61
		1882.5 (26365)	20.37	20.83	20.64
		1850.7 (26047)	20.45	20.88	20.75
	3RB-High (3)	1914.3 (26683)	20.49	20.45	20.53
		1882.5 (26365)	20.43	20.50	20.52
		1850.7 (26047)	20.51	20.60	20.58
	3RB-Middle (1)	1914.3 (26683)	20.51	20.48	20.51
		1882.5 (26365)	20.48	20.56	20.56
		1850.7 (26047)	20.57	20.50	20.61
	3RB-Low (0)	1914.3 (26683)	20.43	20.53	20.52
		1882.5 (26365)	20.45	20.54	20.52
		1850.7 (26047)	20.55	20.56	20.63
	6RB (0)	1914.3 (26683)	20.46	20.65	20.47
		1882.5 (26365)	19.48	20.56	20.56
		1850.7 (26047)	20.55	20.66	20.59
3MHz	1RB-High (14)	1913.5 (26675)	20.56	20.97	20.89
		1882.5 (26365)	20.61	20.99	20.57
		1851.5 (26055)	20.63	20.84	20.64
	1RB-Middle (7)	1913.5 (26675)	20.67	20.85	20.68
		1882.5 (26365)	20.58	20.61	20.57
		1851.5 (26055)	20.68	20.72	20.62
	1RB-Low (0)	1913.5 (26675)	20.58	20.88	20.76
		1882.5 (26365)	20.59	20.87	20.62
		1851.5 (26055)	20.63	20.88	20.82
	8RB-High (7)	1913.5 (26675)	20.63	20.63	20.62
		1882.5 (26365)	20.59	20.65	20.60
		1851.5 (26055)	20.59	20.71	20.70
	8RB-Middle (4)	1913.5 (26675)	20.62	20.69	20.69
		1882.5 (26365)	20.60	20.68	20.62
		1851.5 (26055)	20.62	20.72	20.67
	8RB-Low (0)	1913.5 (26675)	20.62	20.69	20.62
		1882.5 (26365)	20.61	20.61	20.55
		1851.5 (26055)	20.64	20.74	20.69
	15RB (0)	1913.5 (26675)	20.64	20.66	20.63
		1882.5 (26365)	20.59	20.59	20.60
		1851.5 (26055)	20.71	20.69	20.67

5MHz	1RB-High (24)	1912.5 (26665)	20.54	20.92	20.70
		1882.5 (26365)	20.62	20.96	20.54
		1852.5 (26065)	20.65	20.79	20.89
	1RB-Middle (12)	1912.5 (26665)	20.64	20.77	20.69
		1882.5 (26365)	20.46	20.85	20.66
		1852.5 (26065)	20.52	20.89	20.70
	1RB-Low (0)	1912.5 (26665)	20.56	20.70	20.69
		1882.5 (26365)	20.61	20.85	20.63
		1852.5 (26065)	20.61	20.90	20.78
	12RB-High (13)	1912.5 (26665)	20.65	20.62	20.69
		1882.5 (26365)	20.63	20.64	20.59
		1852.5 (26065)	20.69	20.68	20.65
	12RB-Middle (6)	1912.5 (26665)	20.68	20.65	20.65
		1882.5 (26365)	20.65	20.61	20.67
		1852.5 (26065)	20.74	20.72	20.68
	12RB-Low (0)	1912.5 (26665)	20.70	20.65	20.75
		1882.5 (26365)	20.71	20.66	20.62
		1852.5 (26065)	20.72	20.69	20.74
	25RB (0)	1912.5 (26665)	20.61	20.68	20.71
		1882.5 (26365)	20.61	20.60	20.60
		1852.5 (26065)	20.70	20.66	20.65
10MHz	1RB-High (49)	1910 (26640)	20.54	20.85	20.85
		1882.5 (26365)	20.52	20.79	20.67
		1855 (26090)	20.50	20.93	20.77
	1RB-Middle (24)	1910 (26640)	20.40	20.81	20.69
		1882.5 (26365)	20.44	20.66	20.61
		1855 (26090)	20.45	20.91	20.47
	1RB-Low (0)	1910 (26640)	20.45	20.78	20.70
		1882.5 (26365)	20.46	20.84	20.65
		1855 (26090)	20.61	20.97	20.79
	25RB-High (25)	1910 (26640)	20.68	20.76	20.64
		1882.5 (26365)	20.57	20.56	20.64
		1855 (26090)	20.72	20.64	20.70
	25RB-Middle (12)	1910 (26640)	20.62	20.66	20.56
		1882.5 (26365)	20.70	20.67	20.67
		1855 (26090)	20.69	20.66	20.75
	25RB-Low (0)	1910 (26640)	20.56	20.57	20.56
		1882.5 (26365)	20.56	20.59	20.59
		1855 (26090)	20.67	20.69	20.60
	50RB (0)	1910 (26640)	20.66	20.63	20.59
		1882.5 (26365)	20.58	20.64	20.62
		1855 (26090)	20.69	20.75	20.73

15MHz	1RB-High (74)	1907.5 (26615)	20.28	20.77	20.59
		1882.5 (26365)	20.35	20.72	20.53
		1857.5 (26115)	20.39	20.75	20.69
	1RB-Middle (37)	1907.5 (26615)	20.47	20.81	20.49
		1882.5 (26365)	20.40	20.75	20.63
		1857.5 (26115)	20.42	20.77	20.71
	1RB-Low (0)	1907.5 (26615)	20.48	20.78	20.57
		1882.5 (26365)	20.37	20.74	20.59
		1857.5 (26115)	20.54	20.35	20.63
	36RB-High (38)	1907.5 (26615)	20.55	20.60	20.59
		1882.5 (26365)	20.43	20.56	20.55
		1857.5 (26115)	20.48	20.61	20.62
	36RB-Middle (19)	1907.5 (26615)	20.43	20.41	20.55
		1882.5 (26365)	20.52	20.50	20.62
		1857.5 (26115)	20.56	20.57	20.59
	36RB-Low (0)	1907.5 (26615)	20.51	20.52	20.56
		1882.5 (26365)	20.50	20.47	20.58
		1857.5 (26115)	20.59	20.56	20.65
	75RB (0)	1907.5 (26615)	20.47	20.47	20.57
		1882.5 (26365)	20.54	20.50	20.58
		1857.5 (26115)	20.55	20.61	20.57
20MHz	1RB-High (99)	1905 (26590)	20.32	20.66	20.51
		1882.5 (26365)	20.29	20.69	20.53
		1860 (26140)	20.41	20.77	20.68
	1RB-Middle (50)	1905 (26590)	20.26	20.64	20.53
		1882.5 (26365)	20.27	20.68	20.48
		1860 (26140)	20.29	20.61	20.59
	1RB-Low (0)	1905 (26590)	20.45	20.77	20.61
		1882.5 (26365)	20.27	20.77	20.52
		1860 (26140)	20.43	20.80	20.56
	50RB-High (50)	1905 (26590)	20.42	20.50	20.54
		1882.5 (26365)	20.47	20.55	20.50
		1860 (26140)	20.59	20.58	20.52
	50RB-Middle (25)	1905 (26590)	20.52	20.54	20.50
		1882.5 (26365)	20.49	20.53	20.46
		1860 (26140)	20.55	20.53	20.53
	50RB-Low (0)	1905 (26590)	20.51	20.57	20.41
		1882.5 (26365)	20.46	20.51	20.45
		1860 (26140)	20.52	20.58	20.62
	100RB (0)	1905 (26590)	20.53	20.47	20.51
		1882.5 (26365)	20.50	20.51	20.44
		1860 (26140)	20.51	20.49	20.53

LTE Band25-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1914.3 (26683)	23.90	23.34	22.84
		1882.5 (26365)	23.74	22.92	23.06
		1850.7 (26047)	23.87	23.23	22.78
	1RB-Middle (3)	1914.3 (26683)	23.72	23.39	22.79
		1882.5 (26365)	23.80	23.40	23.32
		1850.7 (26047)	23.75	23.36	23.17
	1RB-Low (0)	1914.3 (26683)	23.65	23.41	23.20
		1882.5 (26365)	23.72	23.30	23.29
		1850.7 (26047)	23.80	23.21	23.04
	3RB-High (3)	1914.3 (26683)	23.85	22.92	22.87
		1882.5 (26365)	23.91	22.82	22.86
		1850.7 (26047)	23.89	22.83	22.83
	3RB-Middle (1)	1914.3 (26683)	23.95	22.83	22.81
		1882.5 (26365)	23.88	22.87	22.93
		1850.7 (26047)	23.88	22.86	22.83
	3RB-Low (0)	1914.3 (26683)	23.80	22.90	22.87
		1882.5 (26365)	23.85	22.86	22.82
		1850.7 (26047)	23.84	22.88	22.87
	6RB (0)	1914.3 (26683)	22.91	22.06	21.93
		1882.5 (26365)	22.86	21.98	21.92
		1850.7 (26047)	22.83	22.02	21.90
3MHz	1RB-High (14)	1913.5 (26675)	23.99	23.29	22.97
		1882.5 (26365)	23.95	23.09	22.88
		1851.5 (26055)	23.88	23.35	22.92
	1RB-Middle (7)	1913.5 (26675)	23.87	22.68	23.03
		1882.5 (26365)	24.01	23.19	23.07
		1851.5 (26055)	23.97	23.00	23.04
	1RB-Low (0)	1913.5 (26675)	23.84	23.63	23.17
		1882.5 (26365)	23.89	23.25	23.07
		1851.5 (26055)	23.79	23.36	23.04
	8RB-High (7)	1913.5 (26675)	22.97	22.15	22.05
		1882.5 (26365)	23.03	22.03	21.99
		1851.5 (26055)	22.91	21.98	21.96
	8RB-Middle (4)	1913.5 (26675)	23.01	22.07	22.06
		1882.5 (26365)	22.99	22.04	22.03
		1851.5 (26055)	22.92	22.01	22.07
	8RB-Low (0)	1913.5 (26675)	23.04	22.15	22.07
		1882.5 (26365)	22.84	22.02	21.96
		1851.5 (26055)	22.93	22.01	21.97
	15RB (0)	1913.5 (26675)	23.08	22.10	22.07
		1882.5 (26365)	22.90	21.94	21.94
		1851.5 (26055)	23.00	21.96	21.97

5MHz	1RB-High (24)	1912.5 (26665)	23.87	23.31	23.12
		1882.5 (26365)	24.02	23.07	23.44
		1852.5 (26065)	23.94	23.35	23.05
	1RB-Middle (12)	1912.5 (26665)	23.95	23.10	23.05
		1882.5 (26365)	23.77	23.05	23.28
		1852.5 (26065)	23.76	23.00	23.04
	1RB-Low (0)	1912.5 (26665)	23.95	23.26	23.06
		1882.5 (26365)	23.88	23.31	23.34
		1852.5 (26065)	23.84	23.36	23.05
	12RB-High (13)	1912.5 (26665)	23.03	21.99	22.06
		1882.5 (26365)	23.01	22.01	22.03
		1852.5 (26065)	22.95	21.98	21.96
	12RB-Middle (6)	1912.5 (26665)	23.09	22.11	22.03
		1882.5 (26365)	22.94	21.96	21.96
		1852.5 (26065)	22.96	21.98	22.00
	12RB-Low (0)	1912.5 (26665)	23.06	22.08	22.08
		1882.5 (26365)	22.95	21.94	21.96
		1852.5 (26065)	22.99	21.98	21.98
	25RB (0)	1912.5 (26665)	22.98	22.09	22.03
		1882.5 (26365)	22.96	21.98	21.99
		1852.5 (26065)	23.00	22.02	21.94
10MHz	1RB-High (49)	1910 (26640)	23.74	23.10	23.33
		1882.5 (26365)	23.72	23.12	23.10
		1855 (26090)	23.88	23.09	23.08
	1RB-Middle (24)	1910 (26640)	23.97	23.13	23.06
		1882.5 (26365)	23.83	22.97	23.05
		1855 (26090)	23.78	22.99	23.19
	1RB-Low (0)	1910 (26640)	23.94	23.07	23.34
		1882.5 (26365)	24.00	23.15	23.02
		1855 (26090)	23.97	23.12	23.13
	25RB-High (25)	1910 (26640)	23.04	22.19	22.10
		1882.5 (26365)	23.01	22.12	22.07
		1855 (26090)	22.97	21.98	21.98
	25RB-Middle (12)	1910 (26640)	22.99	22.06	22.06
		1882.5 (26365)	22.95	22.01	22.01
		1855 (26090)	22.99	22.03	22.04
	25RB-Low (0)	1910 (26640)	23.00	21.96	21.92
		1882.5 (26365)	22.92	22.00	22.03
		1855 (26090)	22.98	22.00	22.01
	50RB (0)	1910 (26640)	22.97	22.03	21.93
		1882.5 (26365)	22.94	22.03	22.02
		1855 (26090)	23.01	22.03	21.96

15MHz	1RB-High (74)	1907.5 (26615)	23.77	23.25	23.50
		1882.5 (26365)	23.77	23.23	23.15
		1857.5 (26115)	23.76	23.13	23.04
	1RB-Middle (37)	1907.5 (26615)	23.76	23.16	23.02
		1882.5 (26365)	23.65	23.11	23.08
		1857.5 (26115)	23.67	23.28	22.97
	1RB-Low (0)	1907.5 (26615)	23.96	23.08	23.14
		1882.5 (26365)	23.90	23.04	23.05
		1857.5 (26115)	23.78	23.07	23.19
	36RB-High (38)	1907.5 (26615)	22.94	21.98	21.94
		1882.5 (26365)	22.88	21.96	21.95
		1857.5 (26115)	22.85	21.90	21.90
	36RB-Middle (19)	1907.5 (26615)	22.77	21.89	21.83
		1882.5 (26365)	22.80	21.81	21.88
		1857.5 (26115)	22.86	21.86	21.94
	36RB-Low (0)	1907.5 (26615)	22.89	21.84	21.90
		1882.5 (26365)	22.87	21.84	21.95
		1857.5 (26115)	22.90	21.88	21.88
	75RB (0)	1907.5 (26615)	22.83	21.98	21.97
		1882.5 (26365)	22.83	21.90	21.82
		1857.5 (26115)	22.86	21.89	21.89
20MHz	1RB-High (99)	1905 (26590)	23.76	23.15	23.32
		1882.5 (26365)	23.74	23.12	23.10
		1860 (26140)	23.80	23.12	23.04
	1RB-Middle (50)	1905 (26590)	23.67	23.05	23.07
		1882.5 (26365)	23.74	23.14	23.20
		1860 (26140)	23.68	23.10	23.01
	1RB-Low (0)	1905 (26590)	23.72	23.12	23.22
		1882.5 (26365)	23.79	23.02	23.19
		1860 (26140)	23.66	23.07	23.11
	50RB-High (50)	1905 (26590)	22.93	21.86	21.89
		1882.5 (26365)	22.86	21.94	21.79
		1860 (26140)	22.83	21.89	21.84
	50RB-Middle (25)	1905 (26590)	22.94	21.92	21.90
		1882.5 (26365)	22.81	21.86	21.85
		1860 (26140)	22.89	21.94	21.84
	50RB-Low (0)	1905 (26590)	22.82	21.87	21.89
		1882.5 (26365)	22.81	21.85	21.74
		1860 (26140)	22.77	21.79	21.80
	100RB (0)	1905 (26590)	22.82	21.91	21.90
		1882.5 (26365)	22.74	21.87	21.76
		1860 (26140)	22.84	21.84	21.85

LTE Band25-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1914.3 (26683)	20.39	20.80	20.71
		1882.5 (26365)	20.37	20.69	20.47
		1850.7 (26047)	20.36	20.66	20.54
	1RB-Middle (3)	1914.3 (26683)	20.51	20.90	20.67
		1882.5 (26365)	20.44	20.78	20.60
		1850.7 (26047)	20.42	20.79	20.62
	1RB-Low (0)	1914.3 (26683)	20.45	20.72	20.48
		1882.5 (26365)	20.38	20.79	20.61
		1850.7 (26047)	20.40	20.80	20.64
	3RB-High (3)	1914.3 (26683)	20.47	20.52	20.65
		1882.5 (26365)	20.39	20.42	20.53
		1850.7 (26047)	20.48	20.50	20.54
	3RB-Middle (1)	1914.3 (26683)	20.49	20.49	20.70
		1882.5 (26365)	20.43	20.49	20.63
		1850.7 (26047)	20.42	20.52	20.57
	3RB-Low (0)	1914.3 (26683)	20.42	20.50	20.56
		1882.5 (26365)	20.39	20.36	20.49
		1850.7 (26047)	20.40	20.47	20.45
	6RB (0)	1914.3 (26683)	20.47	20.60	20.51
		1882.5 (26365)	20.42	20.54	20.43
		1850.7 (26047)	20.50	20.61	20.46
3MHz	1RB-High (14)	1913.5 (26675)	20.56	20.91	20.71
		1882.5 (26365)	20.49	20.88	20.71
		1851.5 (26055)	20.45	20.68	20.72
	1RB-Middle (7)	1913.5 (26675)	20.61	20.83	20.74
		1882.5 (26365)	20.49	20.69	20.57
		1851.5 (26055)	20.69	20.68	20.51
	1RB-Low (0)	1913.5 (26675)	20.58	20.93	20.81
		1882.5 (26365)	20.43	20.80	20.53
		1851.5 (26055)	20.54	20.81	20.68
	8RB-High (7)	1913.5 (26675)	20.62	20.74	20.66
		1882.5 (26365)	20.52	20.60	20.56
		1851.5 (26055)	20.58	20.66	20.62
	8RB-Middle (4)	1913.5 (26675)	20.62	20.67	20.62
		1882.5 (26365)	20.60	20.69	20.66
		1851.5 (26055)	20.60	20.61	20.61
	8RB-Low (0)	1913.5 (26675)	20.61	20.69	20.63
		1882.5 (26365)	20.47	20.55	20.50
		1851.5 (26055)	20.59	20.64	20.62
	15RB (0)	1913.5 (26675)	20.70	20.66	20.64
		1882.5 (26365)	20.54	20.57	20.53
		1851.5 (26055)	20.60	20.62	20.58

5MHz	1RB-High (24)	1912.5 (26665)	20.56	20.95	20.64
		1882.5 (26365)	20.49	20.93	20.70
		1852.5 (26065)	20.47	20.79	20.67
	1RB-Middle (12)	1912.5 (26665)	20.58	20.81	20.76
		1882.5 (26365)	20.56	20.80	20.66
		1852.5 (26065)	20.44	20.76	20.67
	1RB-Low (0)	1912.5 (26665)	20.51	20.89	20.80
		1882.5 (26365)	20.50	20.88	20.65
		1852.5 (26065)	20.52	20.87	20.68
	12RB-High (13)	1912.5 (26665)	20.70	20.67	20.72
		1882.5 (26365)	20.58	20.58	20.64
		1852.5 (26065)	20.58	20.58	20.56
	12RB-Middle (6)	1912.5 (26665)	20.73	20.78	20.63
		1882.5 (26365)	20.67	20.59	20.63
		1852.5 (26065)	20.65	20.67	20.63
	12RB-Low (0)	1912.5 (26665)	20.69	20.68	20.64
		1882.5 (26365)	20.59	20.60	20.55
		1852.5 (26065)	20.66	20.56	20.58
	25RB (0)	1912.5 (26665)	20.65	20.78	20.67
		1882.5 (26365)	20.61	20.64	20.61
		1852.5 (26065)	20.65	20.67	20.64
10MHz	1RB-High (49)	1910 (26640)	20.58	20.96	20.69
		1882.5 (26365)	20.54	20.82	20.70
		1855 (26090)	20.55	20.87	20.63
	1RB-Middle (24)	1910 (26640)	20.88	20.83	20.70
		1882.5 (26365)	20.80	20.78	20.52
		1855 (26090)	20.51	20.75	20.71
	1RB-Low (0)	1910 (26640)	20.83	20.86	20.78
		1882.5 (26365)	20.74	20.87	20.64
		1855 (26090)	20.63	20.75	20.72
	25RB-High (25)	1910 (26640)	20.75	20.73	20.68
		1882.5 (26365)	20.63	20.69	20.65
		1855 (26090)	20.70	20.65	20.52
	25RB-Middle (12)	1910 (26640)	20.69	20.67	20.57
		1882.5 (26365)	20.65	20.73	20.69
		1855 (26090)	20.69	20.69	20.58
	25RB-Low (0)	1910 (26640)	20.68	20.68	20.67
		1882.5 (26365)	20.61	20.67	20.67
		1855 (26090)	20.66	20.75	20.52
	50RB (0)	1910 (26640)	20.74	20.73	20.64
		1882.5 (26365)	20.67	20.67	20.62
		1855 (26090)	20.66	20.68	20.63

15MHz	1RB-High (74)	1907.5 (26615)	20.67	20.95	20.77
		1882.5 (26365)	20.46	20.84	20.68
		1857.5 (26115)	20.58	20.90	20.70
	1RB-Middle (37)	1907.5 (26615)	20.58	20.81	20.69
		1882.5 (26365)	20.43	20.87	20.62
		1857.5 (26115)	20.46	20.85	20.55
	1RB-Low (0)	1907.5 (26615)	20.63	20.98	20.62
		1882.5 (26365)	20.51	20.86	20.43
		1857.5 (26115)	20.52	20.82	20.35
	36RB-High (38)	1907.5 (26615)	20.79	20.73	20.75
		1882.5 (26365)	20.65	20.68	20.69
		1857.5 (26115)	20.58	20.63	20.67
	36RB-Middle (19)	1907.5 (26615)	20.61	20.57	20.64
		1882.5 (26365)	20.70	20.66	20.66
		1857.5 (26115)	20.58	20.68	20.67
	36RB-Low (0)	1907.5 (26615)	20.67	20.63	20.64
		1882.5 (26365)	20.59	20.51	20.60
		1857.5 (26115)	20.60	20.66	20.63
	75RB (0)	1907.5 (26615)	20.66	20.69	20.67
		1882.5 (26365)	20.73	20.69	20.57
		1857.5 (26115)	20.65	20.56	20.58
20MHz	1RB-High (99)	1905 (26590)	20.23	20.55	20.49
		1882.5 (26365)	20.23	20.67	20.59
		1860 (26140)	20.33	20.74	20.44
	1RB-Middle (50)	1905 (26590)	20.24	20.63	20.51
		1882.5 (26365)	20.30	20.69	20.59
		1860 (26140)	20.33	20.57	20.48
	1RB-Low (0)	1905 (26590)	20.37	20.75	20.62
		1882.5 (26365)	20.34	20.57	20.73
		1860 (26140)	20.21	20.60	20.52
	50RB-High (50)	1905 (26590)	20.43	20.42	20.53
		1882.5 (26365)	20.46	20.47	20.52
		1860 (26140)	20.47	20.51	20.55
	50RB-Middle (25)	1905 (26590)	20.47	20.53	20.57
		1882.5 (26365)	20.49	20.53	20.47
		1860 (26140)	20.46	20.54	20.47
	50RB-Low (0)	1905 (26590)	20.52	20.47	20.42
		1882.5 (26365)	20.45	20.48	20.41
		1860 (26140)	20.36	20.30	20.44
	100RB (0)	1905 (26590)	20.52	20.52	20.47
		1882.5 (26365)	20.49	20.46	20.48
		1860 (26140)	20.40	20.45	20.50

LTE Band26-Power Level A1/B1/C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	848.3 (27033)	23.85	23.25	23.23
		831.5 (26865)	24.08	23.59	23.35
		814.7 (26697)	24.00	23.49	23.34
	1RB-Middle (3)	848.3 (27033)	23.97	23.46	23.35
		831.5 (26865)	24.08	23.59	23.37
		814.7 (26697)	23.99	23.62	23.39
	1RB-Low (0)	848.3 (27033)	23.93	23.30	23.29
		831.5 (26865)	23.96	23.44	23.23
		814.7 (26697)	24.06	23.56	23.27
	3RB-High (3)	848.3 (27033)	24.13	23.02	23.07
		831.5 (26865)	24.08	23.12	23.19
		814.7 (26697)	24.18	22.98	22.97
	3RB-Middle (1)	848.3 (27033)	24.12	22.99	23.11
		831.5 (26865)	24.14	23.16	23.14
		814.7 (26697)	24.18	23.17	23.14
	3RB-Low (0)	848.3 (27033)	24.09	23.10	23.10
		831.5 (26865)	24.15	23.08	23.06
		814.7 (26697)	24.14	23.18	23.10
	6RB (0)	848.3 (27033)	23.06	21.13	22.09
		831.5 (26865)	23.15	22.16	22.12
		814.7 (26697)	23.17	22.24	22.16
3MHz	1RB-High (14)	847.5 (27025)	24.05	23.52	23.18
		831.5 (26865)	24.26	23.70	23.26
		815.5 (26705)	23.19	23.46	23.21
	1RB-Middle (7)	847.5 (27025)	24.10	23.38	23.20
		831.5 (26865)	24.22	23.29	23.56
		815.5 (26705)	23.16	23.58	23.43
	1RB-Low (0)	847.5 (27025)	24.08	23.50	23.16
		831.5 (26865)	24.17	23.65	23.69
		815.5 (26705)	23.21	23.66	23.37
	8RB-High (7)	847.5 (27025)	23.16	22.25	22.17
		831.5 (26865)	23.24	22.34	22.33
		815.5 (26705)	23.26	22.27	22.22
	8RB-Middle (4)	847.5 (27025)	23.20	22.21	22.24
		831.5 (26865)	23.36	22.37	22.33
		815.5 (26705)	23.27	22.24	22.28
	8RB-Low (0)	847.5 (27025)	23.11	22.23	22.20
		831.5 (26865)	23.18	22.31	22.16
		815.5 (26705)	23.18	22.22	22.26
	15RB (0)	847.5 (27025)	23.19	22.28	22.17
		831.5 (26865)	23.26	22.25	22.24
		815.5 (26705)	23.25	22.21	22.26

5MHz	1RB-High (24)	846.5 (27015)	24.06	23.60	23.30
		831.5 (26865)	24.21	23.69	23.31
		816.5 (26715)	24.07	23.67	23.27
	1RB-Middle (12)	846.5 (27015)	24.09	23.42	23.61
		831.5 (26865)	24.18	23.47	23.41
		816.5 (26715)	24.17	23.42	23.42
	1RB-Low (0)	846.5 (27015)	24.26	23.63	23.69
		831.5 (26865)	24.05	23.36	23.40
		816.5 (26715)	24.32	23.37	23.47
	12RB-High (13)	846.5 (27015)	23.22	22.24	22.28
		831.5 (26865)	23.35	22.36	22.33
		816.5 (26715)	23.27	22.25	22.30
	12RB-Middle (6)	846.5 (27015)	23.30	22.32	22.20
		831.5 (26865)	23.31	22.37	22.24
		816.5 (26715)	23.35	22.29	22.26
	12RB-Low (0)	846.5 (27015)	23.27	22.24	22.30
		831.5 (26865)	23.31	22.35	22.37
		816.5 (26715)	23.36	22.26	22.31
	25RB (0)	846.5 (27015)	23.20	22.28	22.31
		831.5 (26865)	23.27	22.23	22.28
		816.5 (26715)	23.26	22.22	22.24
10MHz	1RB-High (49)	844 (26990)	24.18	23.51	22.13
		831.5 (26865)	24.12	23.54	22.40
		820 (26750)	24.17	23.47	22.61
	1RB-Middle (24)	844 (26990)	24.35	23.55	22.31
		831.5 (26865)	24.32	23.38	22.51
		820 (26750)	24.26	23.30	22.25
	1RB-Low (0)	844 (26990)	24.22	23.67	22.43
		831.5 (26865)	24.27	23.44	22.35
		820 (26750)	24.12	23.52	22.34
	25RB-High (25)	844 (26990)	23.31	22.39	21.37
		831.5 (26865)	23.33	22.37	21.33
		820 (26750)	23.24	22.26	21.30
	25RB-Middle (12)	844 (26990)	23.35	22.32	21.26
		831.5 (26865)	23.34	22.32	21.37
		820 (26750)	23.29	22.28	21.31
	25RB-Low (0)	844 (26990)	23.30	22.35	21.30
		831.5 (26865)	23.34	22.36	21.36
		820 (26750)	23.26	22.32	21.29
	50RB (0)	844 (26990)	23.39	22.36	21.25
		831.5 (26865)	23.42	22.30	21.35
		820 (26750)	23.29	22.30	21.28

15MHz	1RB-High (74)	841.5 (26965)	23.97	23.34	23.42
		831.5 (26865)	24.03	23.50	23.46
		822.5 (26775)	23.94	23.48	23.63
	1RB-Middle (37)	841.5 (26965)	24.14	23.42	23.35
		831.5 (26865)	23.98	23.45	23.53
		822.5 (26775)	24.16	23.24	23.36
	1RB-Low (0)	841.5 (26965)	24.19	23.58	23.56
		831.5 (26865)	23.97	23.41	23.60
		822.5 (26775)	24.27	23.35	23.48
	36RB-High (38)	841.5 (26965)	23.16	22.21	22.01
		831.5 (26865)	23.10	22.23	22.16
		822.5 (26775)	23.14	22.12	22.13
	36RB-Middle (19)	841.5 (26965)	23.20	22.21	22.19
		831.5 (26865)	23.12	22.18	22.16
		822.5 (26775)	23.12	22.10	22.16
	36RB-Low (0)	841.5 (26965)	23.15	22.18	22.15
		831.5 (26865)	23.18	22.12	22.19
		822.5 (26775)	23.11	22.10	22.00
	75RB (0)	841.5 (26965)	23.04	22.08	22.21
		831.5 (26865)	23.13	22.15	22.09
		822.5 (26775)	23.10	22.16	22.16

LTE Band41 PC3-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	20.34	20.50	20.20
		2640.3(41093)	20.66	20.80	20.52
		2593 (40620)	20.72	20.85	20.54
		2545.8(40148)	20.82	20.99	20.63
		2498.5 (39675)	20.60	20.72	20.45
	1RB-Middle (12)	2687.5 (41565)	20.31	20.49	20.14
		2640.3(41093)	20.67	20.80	20.46
		2593 (40620)	20.63	20.78	20.44
		2545.8(40148)	20.74	20.94	20.59
		2498.5 (39675)	20.47	20.70	20.35
	1RB-Low (0)	2687.5 (41565)	20.33	20.50	20.19
		2640.3(41093)	20.66	20.70	20.49
		2593 (40620)	20.57	20.71	20.48
		2545.8(40148)	20.79	20.91	20.61
		2498.5 (39675)	20.58	20.75	20.39
	12RB-High (13)	2687.5 (41565)	20.42	20.38	20.38
		2640.3(41093)	20.77	20.68	20.69
		2593 (40620)	20.75	20.66	20.69
		2545.8(40148)	20.82	20.78	20.78
		2498.5 (39675)	20.66	20.61	20.66
	12RB-Middle (6)	2687.5 (41565)	20.41	20.36	20.41
		2640.3(41093)	20.69	20.57	20.68
		2593 (40620)	20.76	20.69	20.69
		2545.8(40148)	20.84	20.80	20.82
		2498.5 (39675)	20.64	20.66	20.67
	12RB-Low (0)	2687.5 (41565)	20.41	20.37	20.43
		2640.3(41093)	20.67	20.65	20.71
		2593 (40620)	20.68	20.64	20.67
		2545.8(40148)	20.80	20.81	20.83
		2498.5 (39675)	20.62	20.64	20.67
	25RB (0)	2687.5 (41565)	20.41	20.40	20.35
		2640.3(41093)	20.68	20.66	20.61
		2593 (40620)	20.71	20.72	20.67
		2545.8(40148)	20.83	20.81	20.79
		2498.5 (39675)	20.63	20.66	20.61

10MHz	1RB-High (49)	2685 (41540)	20.24	20.38	20.19
		2639(41080)	20.60	20.68	20.43
		2593 (40620)	20.65	20.73	20.54
		2547(40160)	20.73	20.80	20.58
		2501 (39700)	20.62	20.68	20.55
	1RB-Middle (24)	2685 (41540)	20.38	20.39	20.25
		2639(41080)	20.65	20.69	20.49
		2593 (40620)	20.63	20.69	20.51
		2547(40160)	20.73	20.81	20.59
		2501 (39700)	20.56	20.64	20.45
	1RB-Low (0)	2685 (41540)	20.43	20.53	20.27
		2639(41080)	20.78	20.82	20.59
		2593 (40620)	20.69	20.75	20.55
		2547(40160)	20.82	20.98	20.74
		2501 (39700)	20.61	20.65	20.47
	25RB-High (25)	2685 (41540)	20.43	20.41	20.40
		2639(41080)	20.72	20.72	20.67
		2593 (40620)	20.72	20.71	20.70
		2547(40160)	20.85	20.83	20.80
		2501 (39700)	20.68	20.66	20.62
	25RB-Middle (12)	2685 (41540)	20.37	20.33	20.31
		2639(41080)	20.75	20.75	20.73
		2593 (40620)	20.75	20.75	20.75
		2547(40160)	20.84	20.85	20.85
		2501 (39700)	20.68	20.68	20.68
	25RB-Low (0)	2685 (41540)	20.37	20.36	20.30
		2639(41080)	20.67	20.65	20.63
		2593 (40620)	20.62	20.65	20.63
		2547(40160)	20.85	20.81	20.83
		2501 (39700)	20.62	20.60	20.60
	50RB (0)	2685 (41540)	20.38	20.45	20.31
		2639(41080)	20.74	20.73	20.67
		2593 (40620)	20.74	20.76	20.71
		2547(40160)	20.86	20.86	20.80
		2501 (39700)	20.61	20.68	20.60

15MHz	1RB-High (74)	2682.5 (41515)	20.16	20.31	20.03
		2637.8(41068)	20.44	20.58	20.32
		2593 (40620)	20.48	20.66	20.34
		2548.3(40173)	20.60	20.72	20.46
		2503.5 (39725)	20.45	20.60	20.18
	1RB-Middle (37)	2682.5 (41515)	20.17	20.35	20.04
		2637.8(41068)	20.47	20.60	20.26
		2593 (40620)	20.49	20.61	20.33
		2548.3(40173)	20.55	20.69	20.43
		2503.5 (39725)	20.37	20.53	20.15
	1RB-Low (0)	2682.5 (41515)	20.34	20.48	20.21
		2637.8(41068)	20.59	20.78	20.45
		2593 (40620)	20.56	20.75	20.42
		2548.3(40173)	20.62	20.81	20.51
		2503.5 (39725)	20.37	20.54	20.17
	36RB-High (38)	2682.5 (41515)	20.25	20.23	20.25
		2637.8(41068)	20.55	20.54	20.57
		2593 (40620)	20.60	20.54	20.59
		2548.3(40173)	20.67	20.68	20.70
		2503.5 (39725)	20.51	20.49	20.53
	36RB-Middle (19)	2682.5 (41515)	20.22	20.19	20.22
		2637.8(41068)	20.51	20.51	20.50
		2593 (40620)	20.56	20.56	20.61
		2548.3(40173)	20.68	20.65	20.70
		2503.5 (39725)	20.53	20.50	20.51
	36RB-Low (0)	2682.5 (41515)	20.26	20.29	20.30
		2637.8(41068)	20.57	20.56	20.59
		2593 (40620)	20.55	20.54	20.55
		2548.3(40173)	20.73	20.75	20.75
		2503.5 (39725)	20.47	20.49	20.45
	75RB (0)	2682.5 (41515)	20.23	20.26	20.25
		2637.8(41068)	20.52	20.56	20.54
		2593 (40620)	20.60	20.64	20.63
		2548.3(40173)	20.69	20.73	20.72
		2503.5 (39725)	20.53	20.53	20.59

20MHz	1RB-High (99)	2680 (41490)	20.19	20.33	19.87
		2636.5(41055)	20.28	20.41	20.00
		2593 (40620)	20.57	20.69	20.25
		2549.5(40185)	20.30	20.51	20.04
		2506 (39750)	20.55	20.75	20.17
	1RB-Middle (50)	2680 (41490)	20.21	20.36	19.91
		2636.5(41055)	20.32	20.49	20.03
		2593 (40620)	20.49	20.64	20.22
		2549.5(40185)	20.34	20.49	20.03
		2506 (39750)	20.56	20.76	20.19
	1RB-Low (0)	2680 (41490)	20.36	20.54	20.02
		2636.5(41055)	20.51	20.73	20.18
		2593 (40620)	20.64	20.80	20.26
		2549.5(40185)	20.34	20.53	19.99
		2506 (39750)	20.62	20.80	20.12
	50RB-High (50)	2680 (41490)	20.35	20.36	20.38
		2636.5(41055)	20.40	20.45	20.45
		2593 (40620)	20.66	20.68	20.73
		2549.5(40185)	20.47	20.51	20.52
		2506 (39750)	20.76	20.77	20.71
	50RB-Middle (25)	2680 (41490)	20.32	20.37	20.37
		2636.5(41055)	20.40	20.46	20.46
		2593 (40620)	20.69	20.81	20.80
		2549.5(40185)	20.47	20.55	20.58
		2506 (39750)	20.78	20.84	20.64
	50RB-Low (0)	2680 (41490)	20.37	20.41	20.42
		2636.5(41055)	20.48	20.51	20.56
		2593 (40620)	20.64	20.66	20.71
		2549.5(40185)	20.54	20.53	20.56
		2506 (39750)	20.75	20.84	20.71
	100RB (0)	2680 (41490)	20.29	20.30	20.32
		2636.5(41055)	20.39	20.43	20.47
		2593 (40620)	20.72	20.75	20.73
		2549.5(40185)	20.49	20.51	20.53
		2506 (39750)	20.78	20.81	20.70

LTE Band41 PC3-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	21.55	20.50	19.89
		2640.3(41093)	21.62	20.75	20.17
		2593 (40620)	21.84	20.75	20.41
		2545.8(40148)	21.57	20.80	20.45
		2498.5 (39675)	21.96	20.80	20.55
	1RB-Middle (12)	2687.5 (41565)	21.16	20.40	19.93
		2640.3(41093)	21.54	20.83	20.38
		2593 (40620)	21.82	20.95	20.21
		2545.8(40148)	21.75	20.80	20.48
		2498.5 (39675)	21.62	20.93	20.71
	1RB-Low (0)	2687.5 (41565)	21.67	20.50	20.20
		2640.3(41093)	22.01	21.07	20.61
		2593 (40620)	21.72	21.13	20.53
		2545.8(40148)	21.80	20.84	20.82
		2498.5 (39675)	21.57	20.85	20.30
	12RB-High (13)	2687.5 (41565)	20.35	19.34	19.45
		2640.3(41093)	20.75	19.95	19.82
		2593 (40620)	20.79	19.90	19.68
		2545.8(40148)	20.76	19.95	19.82
		2498.5 (39675)	20.72	19.94	19.70
	12RB-Middle (6)	2687.5 (41565)	20.50	19.38	19.59
		2640.3(41093)	20.68	19.67	19.49
		2593 (40620)	20.92	20.00	19.56
		2545.8(40148)	20.83	19.96	19.91
		2498.5 (39675)	21.09	19.82	19.90
	12RB-Low (0)	2687.5 (41565)	20.56	19.66	19.30
		2640.3(41093)	20.69	19.93	19.74
		2593 (40620)	20.72	19.70	19.85
		2545.8(40148)	20.99	20.10	20.02
		2498.5 (39675)	20.81	19.81	19.80
	25RB (0)	2687.5 (41565)	20.45	19.30	19.55
		2640.3(41093)	20.92	19.71	19.53
		2593 (40620)	20.86	19.94	19.70
		2545.8(40148)	20.71	19.84	20.05
		2498.5 (39675)	20.84	20.05	19.90

10MHz	1RB-High (49)	2685 (41540)	21.29	20.34	20.02
		2639(41080)	21.61	20.83	20.25
		2593 (40620)	21.88	20.87	20.56
		2547(40160)	21.63	20.65	20.55
		2501 (39700)	21.95	21.12	20.43
	1RB-Middle (24)	2685 (41540)	21.48	20.30	20.21
		2639(41080)	21.61	20.77	20.21
		2593 (40620)	21.51	20.68	20.44
		2547(40160)	21.95	20.82	20.74
		2501 (39700)	21.78	20.80	20.71
	1RB-Low (0)	2685 (41540)	21.66	20.80	20.39
		2639(41080)	21.91	20.95	20.68
		2593 (40620)	22.00	20.73	20.65
		2547(40160)	22.08	20.98	20.80
		2501 (39700)	21.59	20.83	20.56
	25RB-High (25)	2685 (41540)	20.30	19.47	19.25
		2639(41080)	20.62	19.59	19.78
		2593 (40620)	20.95	19.58	19.52
		2547(40160)	21.04	19.75	19.88
		2501 (39700)	20.71	20.10	19.65
	25RB-Middle (12)	2685 (41540)	20.51	19.42	19.59
		2639(41080)	20.66	19.77	19.56
		2593 (40620)	20.98	19.86	19.81
		2547(40160)	21.03	19.88	19.78
		2501 (39700)	20.92	19.81	19.93
	25RB-Low (0)	2685 (41540)	20.66	19.32	19.34
		2639(41080)	20.95	19.83	19.76
		2593 (40620)	20.83	19.77	19.58
		2547(40160)	21.17	19.91	19.83
		2501 (39700)	21.06	19.94	19.67
	50RB (0)	2685 (41540)	20.58	19.48	19.29
		2639(41080)	20.77	19.54	19.77
		2593 (40620)	20.76	19.81	20.02
		2547(40160)	21.08	19.63	19.70
		2501 (39700)	20.76	20.11	19.86

15MHz	1RB-High (74)	2682.5 (41515)	21.20	20.46	19.98
		2637.8(41068)	21.53	20.90	20.54
		2593 (40620)	21.73	20.78	20.52
		2548.3(40173)	21.50	20.89	20.47
		2503.5 (39725)	21.88	20.96	20.72
	1RB-Middle (37)	2682.5 (41515)	21.14	20.26	19.99
		2637.8(41068)	21.72	20.62	20.35
		2593 (40620)	21.55	20.86	20.28
		2548.3(40173)	21.95	21.05	20.83
		2503.5 (39725)	21.85	21.06	20.63
	1RB-Low (0)	2682.5 (41515)	21.54	20.55	20.26
		2637.8(41068)	21.66	21.00	20.78
		2593 (40620)	21.93	20.91	20.67
		2548.3(40173)	21.79	21.11	20.60
		2503.5 (39725)	21.80	20.89	20.47
	36RB-High (38)	2682.5 (41515)	20.61	19.33	19.16
		2637.8(41068)	20.89	19.88	19.58
		2593 (40620)	20.63	19.62	19.62
		2548.3(40173)	20.79	20.00	19.79
		2503.5 (39725)	20.88	20.00	19.99
	36RB-Middle (19)	2682.5 (41515)	20.71	19.36	19.23
		2637.8(41068)	20.80	19.52	19.53
		2593 (40620)	20.75	19.79	19.90
		2548.3(40173)	21.05	19.72	20.00
		2503.5 (39725)	20.86	19.96	20.02
	36RB-Low (0)	2682.5 (41515)	20.56	19.43	19.18
		2637.8(41068)	20.74	19.72	19.69
		2593 (40620)	20.63	19.90	19.51
		2548.3(40173)	20.98	19.86	19.84
		2503.5 (39725)	20.96	19.80	20.01
	75RB (0)	2682.5 (41515)	20.53	19.48	19.21
		2637.8(41068)	20.80	19.83	19.87
		2593 (40620)	20.79	19.85	19.89
		2548.3(40173)	20.76	19.71	19.67
		2503.5 (39725)	21.06	19.93	19.83

20MHz	1RB-High (99)	2680 (41490)	21.35	20.43	20.04
		2636.5(41055)	21.63	20.73	20.35
		2593 (40620)	21.73	20.77	20.50
		2549.5(40185)	21.67	20.84	20.45
		2506 (39750)	21.83	20.95	20.57
	1RB-Middle (50)	2680 (41490)	21.32	20.45	20.09
		2636.5(41055)	21.64	20.76	20.38
		2593 (40620)	21.65	20.76	20.41
		2549.5(40185)	21.77	20.88	20.64
		2506 (39750)	21.73	20.86	20.51
	1RB-Low (0)	2680 (41490)	21.62	20.70	20.34
		2636.5(41055)	21.85	20.96	20.64
		2593 (40620)	21.85	20.93	20.60
		2549.5(40185)	21.89	21.01	20.64
		2506 (39750)	21.76	20.87	20.47
	50RB-High (50)	2680 (41490)	20.46	19.47	19.30
		2636.5(41055)	20.77	19.75	19.65
		2593 (40620)	20.82	19.78	19.67
		2549.5(40185)	20.89	19.83	19.77
		2506 (39750)	20.91	19.92	19.85
	50RB-Middle (25)	2680 (41490)	20.51	19.47	19.39
		2636.5(41055)	20.81	19.70	19.59
		2593 (40620)	20.83	19.81	19.75
		2549.5(40185)	20.92	19.89	19.81
		2506 (39750)	20.92	19.93	19.87
	50RB-Low (0)	2680 (41490)	20.56	19.48	19.38
		2636.5(41055)	20.82	19.79	19.69
		2593 (40620)	20.80	19.79	19.68
		2549.5(40185)	21.03	20.01	19.90
		2506 (39750)	20.91	19.89	19.82
	100RB (0)	2680 (41490)	20.43	19.39	19.38
		2636.5(41055)	20.73	19.71	19.72
		2593 (40620)	20.86	19.83	19.82
		2549.5(40185)	20.90	19.83	19.87
		2506 (39750)	20.92	19.92	19.95

LTE Band41 PC3-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	20.55	20.50	20.35
		2640.3(41093)	20.79	20.91	20.59
		2593 (40620)	20.70	20.83	20.54
		2545.8(40148)	20.72	20.87	20.57
		2498.5 (39675)	20.42	20.59	20.29
	1RB-Middle (12)	2687.5 (41565)	20.50	20.55	20.35
		2640.3(41093)	20.70	20.91	20.53
		2593 (40620)	20.64	20.83	20.43
		2545.8(40148)	20.64	20.86	20.52
		2498.5 (39675)	20.40	20.58	20.24
	1RB-Low (0)	2687.5 (41565)	20.52	20.57	20.35
		2640.3(41093)	20.72	20.83	20.53
		2593 (40620)	20.56	20.73	20.44
		2545.8(40148)	20.59	20.77	20.43
		2498.5 (39675)	20.47	20.63	20.33
	12RB-High (13)	2687.5 (41565)	20.55	20.50	20.54
		2640.3(41093)	20.80	20.72	20.73
		2593 (40620)	20.69	20.66	20.72
		2545.8(40148)	20.77	20.71	20.70
		2498.5 (39675)	20.52	20.49	20.46
	12RB-Middle (6)	2687.5 (41565)	20.63	20.60	20.58
		2640.3(41093)	20.85	20.79	20.81
		2593 (40620)	20.66	20.63	20.69
		2545.8(40148)	20.80	20.72	20.75
		2498.5 (39675)	20.53	20.51	20.52
	12RB-Low (0)	2687.5 (41565)	20.58	20.56	20.61
		2640.3(41093)	20.78	20.73	20.76
		2593 (40620)	20.65	20.66	20.67
		2545.8(40148)	20.81	20.70	20.78
		2498.5 (39675)	20.49	20.48	20.50
	25RB (0)	2687.5 (41565)	20.59	20.56	20.53
		2640.3(41093)	20.78	20.79	20.75
		2593 (40620)	20.68	20.66	20.60
		2545.8(40148)	20.71	20.72	20.69
		2498.5 (39675)	20.48	20.52	20.48

10MHz	1RB-High (49)	2685 (41540)	20.45	20.57	20.34
		2639(41080)	20.75	20.73	20.51
		2593 (40620)	20.70	20.69	20.46
		2547(40160)	20.73	20.68	20.49
		2501 (39700)	20.52	20.60	20.44
	1RB-Middle (24)	2685 (41540)	20.58	20.60	20.39
		2639(41080)	20.73	20.79	20.56
		2593 (40620)	20.66	20.70	20.48
		2547(40160)	20.67	20.77	20.57
		2501 (39700)	20.47	20.51	20.30
	1RB-Low (0)	2685 (41540)	20.68	20.72	20.47
		2639(41080)	20.86	20.94	20.72
		2593 (40620)	20.76	20.80	20.59
		2547(40160)	20.74	20.78	20.62
		2501 (39700)	20.48	20.56	20.38
	25RB-High (25)	2685 (41540)	20.56	20.59	20.54
		2639(41080)	20.79	20.78	20.72
		2593 (40620)	20.76	20.69	20.66
		2547(40160)	20.75	20.74	20.72
		2501 (39700)	20.55	20.50	20.48
	25RB-Middle (12)	2685 (41540)	20.59	20.63	20.63
		2639(41080)	20.82	20.85	20.85
		2593 (40620)	20.67	20.67	20.63
		2547(40160)	20.80	20.80	20.78
		2501 (39700)	20.56	20.54	20.52
	25RB-Low (0)	2685 (41540)	20.57	20.55	20.52
		2639(41080)	20.74	20.73	20.69
		2593 (40620)	20.64	20.63	20.63
		2547(40160)	20.74	20.72	20.68
		2501 (39700)	20.49	20.53	20.49
	50RB (0)	2685 (41540)	20.60	20.68	20.58
		2639(41080)	20.79	20.85	20.79
		2593 (40620)	20.65	20.69	20.61
		2547(40160)	20.77	20.78	20.74
		2501 (39700)	20.55	20.55	20.47

15MHz	1RB-High (74)	2682.5 (41515)	20.35	20.50	20.19
		2637.8(41068)	20.55	20.70	20.33
		2593 (40620)	20.45	20.65	20.30
		2548.3(40173)	20.55	20.62	20.29
		2503.5 (39725)	20.27	20.44	20.05
	1RB-Middle (37)	2682.5 (41515)	20.34	20.47	20.17
		2637.8(41068)	20.52	20.70	20.35
		2593 (40620)	20.42	20.58	20.25
		2548.3(40173)	20.45	20.64	20.32
		2503.5 (39725)	20.24	20.36	20.02
	1RB-Low (0)	2682.5 (41515)	20.50	20.65	20.32
		2637.8(41068)	20.67	20.86	20.50
		2593 (40620)	20.56	20.74	20.37
		2548.3(40173)	20.58	20.72	20.40
		2503.5 (39725)	20.26	20.43	20.06
	36RB-High (38)	2682.5 (41515)	20.46	20.40	20.43
		2637.8(41068)	20.64	20.58	20.67
		2593 (40620)	20.60	20.51	20.61
		2548.3(40173)	20.60	20.60	20.60
		2503.5 (39725)	20.39	20.38	20.39
	36RB-Middle (19)	2682.5 (41515)	20.39	20.38	20.38
		2637.8(41068)	20.60	20.56	20.60
		2593 (40620)	20.51	20.50	20.50
		2548.3(40173)	20.58	20.58	20.57
		2503.5 (39725)	20.41	20.34	20.37
	36RB-Low (0)	2682.5 (41515)	20.45	20.47	20.46
		2637.8(41068)	20.64	20.65	20.71
		2593 (40620)	20.56	20.51	20.50
		2548.3(40173)	20.58	20.59	20.61
		2503.5 (39725)	20.35	20.32	20.33
	75RB (0)	2682.5 (41515)	20.44	20.48	20.42
		2637.8(41068)	20.60	20.64	20.61
		2593 (40620)	20.54	20.54	20.53
		2548.3(40173)	20.62	20.64	20.65
		2503.5 (39725)	20.34	20.40	20.42

20MHz	1RB-High (99)	2680 (41490)	20.32	20.54	20.14
		2636.5(41055)	20.37	20.54	20.13
		2593 (40620)	20.53	20.66	20.37
		2549.5(40185)	20.18	20.33	20.01
		2506 (39750)	20.38	20.53	20.20
	1RB-Middle (50)	2680 (41490)	20.34	20.49	20.12
		2636.5(41055)	20.37	20.50	20.18
		2593 (40620)	20.45	20.62	20.29
		2549.5(40185)	20.27	20.34	20.02
		2506 (39750)	20.45	20.55	20.16
	1RB-Low (0)	2680 (41490)	20.50	20.68	20.34
		2636.5(41055)	20.60	20.76	20.46
		2593 (40620)	20.63	20.75	20.41
		2549.5(40185)	20.33	20.42	20.10
		2506 (39750)	20.45	20.59	20.24
	50RB-High (50)	2680 (41490)	20.43	20.47	20.45
		2636.5(41055)	20.47	20.52	20.47
		2593 (40620)	20.60	20.67	20.60
		2549.5(40185)	20.35	20.38	20.33
		2506 (39750)	20.54	20.59	20.50
	50RB-Middle (25)	2680 (41490)	20.48	20.57	20.44
		2636.5(41055)	20.58	20.62	20.51
		2593 (40620)	20.55	20.61	20.56
		2549.5(40185)	20.45	20.43	20.35
		2506 (39750)	20.61	20.60	20.56
	50RB-Low (0)	2680 (41490)	20.49	20.50	20.45
		2636.5(41055)	20.54	20.58	20.54
		2593 (40620)	20.58	20.64	20.58
		2549.5(40185)	20.31	20.33	20.31
		2506 (39750)	20.59	20.69	20.60
	100RB (0)	2680 (41490)	20.50	20.53	20.54
		2636.5(41055)	20.56	20.61	20.62
		2593 (40620)	20.56	20.55	20.61
		2549.5(40185)	20.39	20.42	20.46
		2506 (39750)	20.59	20.62	20.65

LTE Band41 PC2-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	20.23	20.57	20.48
		2640.3(41093)	20.57	20.85	20.75
		2593 (40620)	20.59	20.87	20.82
		2545.8(40148)	20.68	20.98	20.89
		2498.5 (39675)	20.51	20.84	20.65
	1RB-Middle (12)	2687.5 (41565)	20.25	20.57	20.45
		2640.3(41093)	20.52	20.88	20.70
		2593 (40620)	20.55	20.87	20.75
		2545.8(40148)	20.59	20.95	20.84
		2498.5 (39675)	20.46	20.84	20.66
	1RB-Low (0)	2687.5 (41565)	20.26	20.52	20.45
		2640.3(41093)	20.49	20.83	20.64
		2593 (40620)	20.44	20.72	20.68
		2545.8(40148)	20.61	20.92	20.85
		2498.5 (39675)	20.46	20.81	20.63
	12RB-High (13)	2687.5 (41565)	20.32	20.34	20.33
		2640.3(41093)	20.59	20.70	20.64
		2593 (40620)	20.61	20.68	20.61
		2545.8(40148)	20.72	20.76	20.73
		2498.5 (39675)	20.56	20.64	20.59
	12RB-Middle (6)	2687.5 (41565)	20.34	20.36	20.42
		2640.3(41093)	20.59	20.65	20.62
		2593 (40620)	20.64	20.69	20.67
		2545.8(40148)	20.74	20.80	20.78
		2498.5 (39675)	20.61	20.67	20.63
	12RB-Low (0)	2687.5 (41565)	20.34	20.37	20.38
		2640.3(41093)	20.60	20.62	20.65
		2593 (40620)	20.59	20.61	20.60
		2545.8(40148)	20.73	20.77	20.76
		2498.5 (39675)	20.55	20.66	20.56
	25RB (0)	2687.5 (41565)	20.30	20.37	20.30
		2640.3(41093)	20.60	20.66	20.58
		2593 (40620)	20.63	20.70	20.65
		2545.8(40148)	20.72	20.76	20.71
		2498.5 (39675)	20.55	20.59	20.55

10MHz	1RB-High (49)	2685 (41540)	20.28	20.49	20.30
		2639(41080)	20.41	20.76	20.58
		2593 (40620)	20.40	20.76	20.64
		2547(40160)	20.64	20.85	20.77
		2501 (39700)	20.46	20.81	20.71
	1RB-Middle (24)	2685 (41540)	20.20	20.48	20.43
		2639(41080)	20.52	20.75	20.75
		2593 (40620)	20.60	20.71	20.74
		2547(40160)	20.65	20.89	20.82
		2501 (39700)	20.41	20.65	20.52
	1RB-Low (0)	2685 (41540)	20.27	20.57	20.51
		2639(41080)	20.55	20.92	20.79
		2593 (40620)	20.62	20.80	20.75
		2547(40160)	20.69	20.97	20.89
		2501 (39700)	20.46	20.78	20.67
	25RB-High (25)	2685 (41540)	20.28	20.33	20.30
		2639(41080)	20.62	20.62	20.60
		2593 (40620)	20.60	20.63	20.60
		2547(40160)	20.76	20.74	20.73
		2501 (39700)	20.57	20.55	20.57
	25RB-Middle (12)	2685 (41540)	20.29	20.31	20.26
		2639(41080)	20.63	20.69	20.68
		2593 (40620)	20.67	20.69	20.62
		2547(40160)	20.78	20.80	20.72
		2501 (39700)	20.57	20.58	20.55
	25RB-Low (0)	2685 (41540)	20.28	20.26	20.25
		2639(41080)	20.59	20.59	20.55
		2593 (40620)	20.58	20.56	20.54
		2547(40160)	20.72	20.75	20.72
		2501 (39700)	20.51	20.53	20.55
	50RB (0)	2685 (41540)	20.26	20.32	20.27
		2639(41080)	20.62	20.68	20.62
		2593 (40620)	20.64	20.61	20.60
		2547(40160)	20.75	20.78	20.77
		2501 (39700)	20.56	20.56	20.53

15MHz	1RB-High (74)	2682.5 (41515)	20.03	20.31	20.23
		2637.8(41068)	20.32	20.65	20.46
		2593 (40620)	20.29	20.72	20.54
		2548.3(40173)	20.41	20.75	20.65
		2503.5 (39725)	20.35	20.57	20.44
	1RB-Middle (37)	2682.5 (41515)	20.04	20.36	20.20
		2637.8(41068)	20.35	20.67	20.52
		2593 (40620)	20.30	20.64	20.49
		2548.3(40173)	20.42	20.73	20.62
		2503.5 (39725)	20.25	20.52	20.38
	1RB-Low (0)	2682.5 (41515)	20.16	20.52	20.37
		2637.8(41068)	20.47	20.79	20.64
		2593 (40620)	20.43	20.76	20.60
		2548.3(40173)	20.48	20.86	20.68
		2503.5 (39725)	20.19	20.51	20.38
	36RB-High (38)	2682.5 (41515)	20.20	20.10	20.22
		2637.8(41068)	20.50	20.48	20.49
		2593 (40620)	20.50	20.46	20.48
		2548.3(40173)	20.59	20.60	20.58
		2503.5 (39725)	20.44	20.42	20.44
	36RB-Middle (19)	2682.5 (41515)	20.15	20.16	20.14
		2637.8(41068)	20.46	20.48	20.44
		2593 (40620)	20.49	20.52	20.53
		2548.3(40173)	20.59	20.61	20.61
		2503.5 (39725)	20.44	20.45	20.46
	36RB-Low (0)	2682.5 (41515)	20.18	20.22	20.21
		2637.8(41068)	20.50	20.49	20.53
		2593 (40620)	20.44	20.45	20.48
		2548.3(40173)	20.60	20.62	20.63
		2503.5 (39725)	20.39	20.36	20.37
	75RB (0)	2682.5 (41515)	20.13	20.20	20.17
		2637.8(41068)	20.47	20.47	20.47
		2593 (40620)	20.51	20.55	20.51
		2548.3(40173)	20.61	20.63	20.64
		2503.5 (39725)	20.41	20.45	20.44

20MHz	1RB-High (99)	2680 (41490)	20.19	20.51	20.20
		2636.5(41055)	20.32	20.66	20.34
		2593 (40620)	20.53	20.86	20.57
		2549.5(40185)	20.31	20.64	20.30
		2506 (39750)	20.58	20.88	20.60
	1RB-Middle (50)	2680 (41490)	20.19	20.52	20.20
		2636.5(41055)	20.35	20.65	20.34
		2593 (40620)	20.55	20.81	20.50
		2549.5(40185)	20.26	20.61	20.31
		2506 (39750)	20.63	20.90	20.59
	1RB-Low (0)	2680 (41490)	20.41	20.74	20.34
		2636.5(41055)	20.49	20.86	20.52
		2593 (40620)	20.64	20.97	20.59
		2549.5(40185)	20.35	20.71	20.30
		2506 (39750)	20.62	20.93	20.65
	50RB-High (50)	2680 (41490)	20.34	20.40	20.35
		2636.5(41055)	20.49	20.54	20.49
		2593 (40620)	20.67	20.73	20.76
		2549.5(40185)	20.54	20.53	20.46
		2506 (39750)	20.77	20.79	20.79
	50RB-Middle (25)	2680 (41490)	20.37	20.41	20.35
		2636.5(41055)	20.48	20.49	20.48
		2593 (40620)	20.72	20.76	20.76
		2549.5(40185)	20.55	20.54	20.56
		2506 (39750)	20.82	20.81	20.82
	50RB-Low (0)	2680 (41490)	20.42	20.44	20.38
		2636.5(41055)	20.51	20.57	20.56
		2593 (40620)	20.65	20.71	20.73
		2549.5(40185)	20.53	20.55	20.57
		2506 (39750)	20.77	20.84	20.82
	100RB (0)	2680 (41490)	20.33	20.38	20.37
		2636.5(41055)	20.44	20.52	20.51
		2593 (40620)	20.74	20.76	20.75
		2549.5(40185)	20.52	20.58	20.57
		2506 (39750)	20.79	20.82	20.81

LTE Band41 PC2-Power Level B1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	24.01	23.62	23.46
		2640.3(41093)	24.24	23.58	23.48
		2593 (40620)	24.54	24.02	23.58
		2545.8(40148)	24.81	24.14	23.66
		2498.5 (39675)	24.53	23.92	23.85
	1RB-Middle (12)	2687.5 (41565)	24.04	23.50	23.35
		2640.3(41093)	24.70	23.94	23.60
		2593 (40620)	24.31	23.85	23.68
		2545.8(40148)	24.44	23.95	23.58
		2498.5 (39675)	24.63	23.63	23.94
	1RB-Low (0)	2687.5 (41565)	24.22	23.62	23.34
		2640.3(41093)	24.53	23.86	23.95
		2593 (40620)	24.81	23.71	23.98
		2545.8(40148)	24.82	23.93	24.13
		2498.5 (39675)	24.89	23.71	23.92
	12RB-High (13)	2687.5 (41565)	23.30	22.39	22.04
		2640.3(41093)	23.63	22.57	22.45
		2593 (40620)	23.57	22.44	22.38
		2545.8(40148)	23.67	23.06	22.92
		2498.5 (39675)	24.00	22.78	23.02
	12RB-Middle (6)	2687.5 (41565)	23.30	22.60	22.13
		2640.3(41093)	23.91	22.41	22.57
		2593 (40620)	23.74	22.65	22.86
		2545.8(40148)	23.88	22.77	22.86
		2498.5 (39675)	23.92	22.93	22.87
	12RB-Low (0)	2687.5 (41565)	23.68	22.63	22.63
		2640.3(41093)	23.87	23.00	22.62
		2593 (40620)	23.67	23.02	22.45
		2545.8(40148)	23.81	22.97	22.58
		2498.5 (39675)	23.69	22.71	22.69
	25RB (0)	2687.5 (41565)	23.24	22.30	22.32
		2640.3(41093)	23.62	22.89	22.67
		2593 (40620)	24.01	22.72	22.77
		2545.8(40148)	23.73	23.01	22.74
		2498.5 (39675)	23.77	23.08	22.68

10MHz	1RB-High (49)	2685 (41540)	24.46	23.29	23.14
		2639(41080)	24.32	24.02	23.39
		2593 (40620)	24.74	24.06	23.71
		2547(40160)	24.78	23.92	23.69
		2501 (39700)	24.93	23.86	23.84
	1RB-Middle (24)	2685 (41540)	24.42	23.42	23.60
		2639(41080)	24.40	23.59	23.42
		2593 (40620)	24.31	23.62	23.47
		2547(40160)	24.70	24.22	24.04
		2501 (39700)	24.47	24.07	23.55
	1RB-Low (0)	2685 (41540)	24.19	23.86	23.59
		2639(41080)	24.41	23.94	23.91
		2593 (40620)	24.92	24.26	23.86
		2547(40160)	24.63	23.91	23.97
		2501 (39700)	24.37	23.81	24.12
	25RB-High (25)	2685 (41540)	23.16	22.16	22.24
		2639(41080)	23.62	22.57	22.53
		2593 (40620)	23.83	22.57	22.57
		2547(40160)	23.94	22.66	22.63
		2501 (39700)	23.76	23.03	22.55
	25RB-Middle (12)	2685 (41540)	23.27	22.27	22.35
		2639(41080)	23.43	22.77	22.78
		2593 (40620)	23.61	22.66	22.58
		2547(40160)	23.89	22.82	22.70
		2501 (39700)	23.97	22.83	22.62
	25RB-Low (0)	2685 (41540)	23.33	22.62	22.30
		2639(41080)	23.54	22.95	22.76
		2593 (40620)	23.89	22.99	22.53
		2547(40160)	24.05	22.85	22.60
		2501 (39700)	24.06	22.81	22.52
	50RB (0)	2685 (41540)	23.61	22.55	22.48
		2639(41080)	23.42	22.42	22.48
		2593 (40620)	23.52	22.82	22.71
		2547(40160)	24.08	22.92	22.89
		2501 (39700)	23.61	22.91	23.04

15MHz	1RB-High (74)	2682.5 (41515)	24.31	23.53	23.42
		2637.8(41068)	24.36	23.62	23.70
		2593 (40620)	24.60	23.92	23.51
		2548.3(40173)	24.83	24.09	23.67
		2503.5 (39725)	24.69	23.79	23.94
	1RB-Middle (37)	2682.5 (41515)	24.37	23.25	23.32
		2637.8(41068)	24.62	23.64	23.60
		2593 (40620)	24.45	24.05	23.58
		2548.3(40173)	24.39	23.70	23.70
		2503.5 (39725)	24.44	23.87	23.48
	1RB-Low (0)	2682.5 (41515)	24.33	23.45	23.81
		2637.8(41068)	24.45	24.28	24.23
		2593 (40620)	24.90	23.88	24.12
		2548.3(40173)	24.77	23.90	24.05
		2503.5 (39725)	24.77	23.87	23.58
	36RB-High (38)	2682.5 (41515)	23.24	22.44	22.61
		2637.8(41068)	23.54	22.98	22.87
		2593 (40620)	23.46	22.96	22.54
		2548.3(40173)	23.77	22.58	22.76
		2503.5 (39725)	23.77	22.88	22.66
	36RB-Middle (19)	2682.5 (41515)	23.44	22.56	22.10
		2637.8(41068)	23.52	22.41	22.80
		2593 (40620)	23.59	22.52	22.56
		2548.3(40173)	23.95	23.08	22.90
		2503.5 (39725)	23.99	22.82	22.57
	36RB-Low (0)	2682.5 (41515)	23.26	22.18	22.23
		2637.8(41068)	23.59	22.85	22.54
		2593 (40620)	23.56	22.62	22.86
		2548.3(40173)	24.05	23.03	23.09
		2503.5 (39725)	23.69	23.10	22.57
	75RB (0)	2682.5 (41515)	23.51	22.18	22.64
		2637.8(41068)	23.82	22.89	22.85
		2593 (40620)	23.72	22.92	22.78
		2548.3(40173)	23.66	22.88	22.90
		2503.5 (39725)	23.63	23.16	23.20

20MHz	1RB-High (99)	2680 (41490)	24.20	23.46	23.38
		2636.5(41055)	24.44	23.81	23.61
		2593 (40620)	24.55	23.87	23.80
		2549.5(40185)	24.60	23.91	23.78
		2506 (39750)	24.67	24.01	23.97
	1RB-Middle (50)	2680 (41490)	24.19	23.48	23.34
		2636.5(41055)	24.49	23.76	23.66
		2593 (40620)	24.51	23.83	23.70
		2549.5(40185)	24.69	23.96	23.86
		2506 (39750)	24.61	23.90	23.76
	1RB-Low (0)	2680 (41490)	24.37	23.74	23.60
		2636.5(41055)	24.66	24.03	23.95
		2593 (40620)	24.71	24.00	23.85
		2549.5(40185)	24.72	24.07	23.97
		2506 (39750)	24.62	23.91	23.86
	50RB-High (50)	2680 (41490)	23.34	22.36	22.31
		2636.5(41055)	23.65	22.69	22.62
		2593 (40620)	23.72	22.73	22.66
		2549.5(40185)	23.78	22.82	22.74
		2506 (39750)	23.89	22.91	22.83
	50RB-Middle (25)	2680 (41490)	23.44	22.43	22.40
		2636.5(41055)	23.61	22.70	22.61
		2593 (40620)	23.75	22.81	22.76
		2549.5(40185)	23.87	22.85	22.80
		2506 (39750)	23.88	22.89	22.84
	50RB-Low (0)	2680 (41490)	23.41	22.45	22.34
		2636.5(41055)	23.71	22.76	22.69
		2593 (40620)	23.71	22.73	22.66
		2549.5(40185)	23.93	22.95	22.86
		2506 (39750)	23.79	22.87	22.81
	100RB (0)	2680 (41490)	23.33	22.35	22.39
		2636.5(41055)	23.64	22.69	22.72
		2593 (40620)	23.75	22.80	22.80
		2549.5(40185)	23.82	22.82	22.84
		2506 (39750)	23.88	22.90	22.91

LTE Band41 PC2_Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	20.51	20.82	20.70
		2640.3(41093)	20.73	20.96	20.94
		2593 (40620)	20.67	20.96	20.86
		2545.8(40148)	20.67	20.93	20.92
		2498.5 (39675)	20.41	20.81	20.58
	1RB-Middle (12)	2687.5 (41565)	20.54	20.90	20.70
		2640.3(41093)	20.75	20.92	20.92
		2593 (40620)	20.67	20.91	20.82
		2545.8(40148)	20.65	20.91	20.86
		2498.5 (39675)	20.41	20.85	20.59
	1RB-Low (0)	2687.5 (41565)	20.50	20.83	20.69
		2640.3(41093)	20.68	20.96	20.89
		2593 (40620)	20.61	20.92	20.75
		2545.8(40148)	20.60	20.91	20.77
		2498.5 (39675)	20.44	20.76	20.60
	12RB-High (13)	2687.5 (41565)	20.61	20.62	20.60
		2640.3(41093)	20.82	20.86	20.84
		2593 (40620)	20.72	20.81	20.74
		2545.8(40148)	20.76	20.80	20.79
		2498.5 (39675)	20.55	20.58	20.55
	12RB-Middle (6)	2687.5 (41565)	20.64	20.72	20.68
		2640.3(41093)	20.86	20.92	20.90
		2593 (40620)	20.73	20.79	20.75
		2545.8(40148)	20.79	20.83	20.80
		2498.5 (39675)	20.56	20.61	20.56
	12RB-Low (0)	2687.5 (41565)	20.65	20.66	20.64
		2640.3(41093)	20.81	20.85	20.84
		2593 (40620)	20.70	20.73	20.73
		2545.8(40148)	20.77	20.81	20.78
		2498.5 (39675)	20.53	20.63	20.51
	25RB (0)	2687.5 (41565)	20.63	20.66	20.63
		2640.3(41093)	20.83	20.89	20.84
		2593 (40620)	20.68	20.71	20.67
		2545.8(40148)	20.77	20.79	20.73
		2498.5 (39675)	20.54	20.58	20.50

10MHz	1RB-High (49)	2685 (41540)	20.56	20.77	20.63
		2639(41080)	20.64	20.95	20.84
		2593 (40620)	20.64	20.93	20.79
		2547(40160)	20.60	20.98	20.82
		2501 (39700)	20.47	20.76	20.61
	1RB-Middle (24)	2685 (41540)	20.50	20.78	20.71
		2639(41080)	20.72	20.99	20.90
		2593 (40620)	20.59	20.84	20.74
		2547(40160)	20.68	20.92	20.84
		2501 (39700)	20.39	20.69	20.59
	1RB-Low (0)	2685 (41540)	20.54	20.90	20.74
		2639(41080)	20.79	20.95	20.98
		2593 (40620)	20.60	20.96	20.85
		2547(40160)	20.68	20.95	20.93
		2501 (39700)	20.45	20.84	20.58
	25RB-High (25)	2685 (41540)	20.65	20.63	20.61
		2639(41080)	20.82	20.88	20.80
		2593 (40620)	20.73	20.76	20.76
		2547(40160)	20.79	20.80	20.75
		2501 (39700)	20.55	20.57	20.51
	25RB-Middle (12)	2685 (41540)	20.63	20.67	20.65
		2639(41080)	20.89	20.90	20.86
		2593 (40620)	20.72	20.74	20.67
		2547(40160)	20.81	20.83	20.77
		2501 (39700)	20.55	20.56	20.55
	25RB-Low (0)	2685 (41540)	20.55	20.61	20.55
		2639(41080)	20.82	20.82	20.74
		2593 (40620)	20.67	20.65	20.66
		2547(40160)	20.78	20.80	20.76
		2501 (39700)	20.55	20.54	20.48
	50RB (0)	2685 (41540)	20.66	20.68	20.62
		2639(41080)	20.88	20.87	20.79
		2593 (40620)	20.70	20.72	20.65
		2547(40160)	20.79	20.86	20.75
		2501 (39700)	20.52	20.55	20.52

15MHz	1RB-High (74)	2682.5 (41515)	20.36	20.61	20.46
		2637.8(41068)	20.53	20.89	20.64
		2593 (40620)	20.48	20.81	20.61
		2548.3(40173)	20.51	20.79	20.59
		2503.5 (39725)	20.31	20.56	20.35
	1RB-Middle (37)	2682.5 (41515)	20.31	20.64	20.47
		2637.8(41068)	20.50	20.87	20.67
		2593 (40620)	20.42	20.73	20.56
		2548.3(40173)	20.46	20.81	20.64
		2503.5 (39725)	20.19	20.57	20.32
	1RB-Low (0)	2682.5 (41515)	20.50	20.80	20.59
		2637.8(41068)	20.65	20.99	20.85
		2593 (40620)	20.57	20.85	20.72
		2548.3(40173)	20.55	20.88	20.73
		2503.5 (39725)	20.23	20.55	20.34
	36RB-High (38)	2682.5 (41515)	20.50	20.50	20.50
		2637.8(41068)	20.71	20.69	20.70
		2593 (40620)	20.60	20.62	20.61
		2548.3(40173)	20.64	20.60	20.64
		2503.5 (39725)	20.44	20.45	20.43
	36RB-Middle (19)	2682.5 (41515)	20.46	20.45	20.47
		2637.8(41068)	20.64	20.64	20.66
		2593 (40620)	20.52	20.55	20.56
		2548.3(40173)	20.63	20.67	20.67
		2503.5 (39725)	20.42	20.41	20.39
	36RB-Low (0)	2682.5 (41515)	20.48	20.50	20.46
		2637.8(41068)	20.71	20.71	20.69
		2593 (40620)	20.55	20.58	20.58
		2548.3(40173)	20.63	20.59	20.62
		2503.5 (39725)	20.39	20.38	20.40
	75RB (0)	2682.5 (41515)	20.45	20.49	20.49
		2637.8(41068)	20.67	20.70	20.73
		2593 (40620)	20.56	20.60	20.61
		2548.3(40173)	20.67	20.69	20.67
		2503.5 (39725)	20.43	20.48	20.47

20MHz	1RB-High (99)	2680 (41490)	20.34	20.64	20.44
		2636.5(41055)	20.35	20.66	20.41
		2593 (40620)	20.55	20.84	20.70
		2549.5(40185)	20.19	20.49	20.24
		2506 (39750)	20.40	20.68	20.46
	1RB-Middle (50)	2680 (41490)	20.33	20.62	20.48
		2636.5(41055)	20.36	20.68	20.52
		2593 (40620)	20.46	20.76	20.60
		2549.5(40185)	20.18	20.50	20.30
		2506 (39750)	20.42	20.71	20.51
	1RB-Low (0)	2680 (41490)	20.47	20.83	20.66
		2636.5(41055)	20.56	20.90	20.73
		2593 (40620)	20.59	20.90	20.68
		2549.5(40185)	20.20	20.56	20.42
		2506 (39750)	20.46	20.73	20.56
	50RB-High (50)	2680 (41490)	20.44	20.51	20.47
		2636.5(41055)	20.48	20.52	20.49
		2593 (40620)	20.65	20.67	20.60
		2549.5(40185)	20.39	20.40	20.36
		2506 (39750)	20.61	20.64	20.56
	50RB-Middle (25)	2680 (41490)	20.52	20.59	20.53
		2636.5(41055)	20.57	20.66	20.58
		2593 (40620)	20.58	20.65	20.57
		2549.5(40185)	20.41	20.42	20.36
		2506 (39750)	20.60	20.66	20.65
	50RB-Low (0)	2680 (41490)	20.50	20.55	20.54
		2636.5(41055)	20.56	20.62	20.55
		2593 (40620)	20.58	20.67	20.62
		2549.5(40185)	20.31	20.37	20.34
		2506 (39750)	20.62	20.68	20.57
	100RB (0)	2680 (41490)	20.55	20.57	20.62
		2636.5(41055)	20.58	20.63	20.65
		2593 (40620)	20.62	20.61	20.64
		2549.5(40185)	20.41	20.42	20.47
		2506 (39750)	20.63	20.63	20.69

LTE Band66 ANT4-Power Level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	20.37	20.80	20.52
		1745 (132322)	20.43	20.84	20.72
		1710.7 (131979)	20.28	20.64	20.52
	1RB-Middle (3)	1779.3 (132665)	20.36	20.85	20.47
		1745 (132322)	20.45	20.82	20.75
		1710.7 (131979)	20.38	20.80	20.61
	1RB-Low (0)	1779.3 (132665)	20.33	20.82	20.59
		1745 (132322)	20.40	20.96	20.68
		1710.7 (131979)	20.34	20.68	20.65
	3RB-High (3)	1779.3 (132665)	20.39	20.44	20.51
		1745 (132322)	20.53	20.60	20.68
		1710.7 (131979)	20.35	20.42	20.46
	3RB-Middle (1)	1779.3 (132665)	20.38	20.49	20.53
		1745 (132322)	20.56	20.65	20.61
		1710.7 (131979)	20.37	20.58	20.61
	3RB-Low (0)	1779.3 (132665)	20.37	20.49	20.49
		1745 (132322)	20.43	20.44	20.49
		1710.7 (131979)	20.40	20.43	20.52
	6RB (0)	1779.3 (132665)	20.41	20.49	20.43
		1745 (132322)	20.52	20.59	20.56
		1710.7 (131979)	20.41	20.52	20.45
3MHz	1RB-High (14)	1778.5 (132657)	20.37	20.85	20.50
		1745 (132322)	20.50	20.77	20.65
		1711.5 (131987)	20.38	20.82	20.67
	1RB-Middle (7)	1778.5 (132657)	20.29	20.82	20.56
		1745 (132322)	20.69	20.79	20.81
		1711.5 (131987)	20.28	20.68	20.45
	1RB-Low (0)	1778.5 (132657)	20.33	20.85	20.67
		1745 (132322)	20.50	20.86	20.74
		1711.5 (131987)	20.42	20.77	20.63
	8RB-High (7)	1778.5 (132657)	20.45	20.53	20.57
		1745 (132322)	20.59	20.66	20.58
		1711.5 (131987)	20.46	20.54	20.56
	8RB-Middle (4)	1778.5 (132657)	20.47	20.61	20.60
		1745 (132322)	20.59	20.59	20.60
		1711.5 (131987)	20.53	20.56	20.57
	8RB-Low (0)	1778.5 (132657)	20.46	20.58	20.55
		1745 (132322)	20.55	20.70	20.58
		1711.5 (131987)	20.45	20.53	20.58
	15RB (0)	1778.5 (132657)	20.52	20.56	20.48
		1745 (132322)	20.57	20.58	20.64
		1711.5 (131987)	20.47	20.53	20.52

5MHz	1RB-High (24)	1777.5 (132647)	20.43	20.70	20.47
		1745 (132322)	20.51	20.81	20.74
		1712.5 (131997)	20.43	20.75	20.65
	1RB-Middle (12)	1777.5 (132647)	20.35	20.83	20.66
		1745 (132322)	20.54	20.83	20.74
		1712.5 (131997)	20.37	20.72	20.69
	1RB-Low (0)	1777.5 (132647)	20.49	20.87	20.55
		1745 (132322)	20.55	20.84	20.76
		1712.5 (131997)	20.43	20.78	20.63
	12RB-High (13)	1777.5 (132647)	20.56	20.63	20.57
		1745 (132322)	20.59	20.59	20.69
		1712.5 (131997)	20.52	20.55	20.55
	12RB-Middle (6)	1777.5 (132647)	20.54	20.62	20.56
		1745 (132322)	20.62	20.63	20.63
		1712.5 (131997)	20.48	20.55	20.55
	12RB-Low (0)	1777.5 (132647)	20.58	20.58	20.56
		1745 (132322)	20.63	20.66	20.72
		1712.5 (131997)	20.53	20.55	20.56
	25RB (0)	1777.5 (132647)	20.55	20.55	20.55
		1745 (132322)	20.65	20.67	20.65
		1712.5 (131997)	20.54	20.51	20.49
10MHz	1RB-High (49)	1775 (132622)	20.37	20.76	20.66
		1745 (132322)	20.40	20.83	20.69
		1715 (132022)	20.43	20.70	20.62
	1RB-Middle (24)	1775 (132622)	20.68	20.55	20.70
		1745 (132322)	20.63	20.99	20.85
		1715 (132022)	20.77	20.67	20.60
	1RB-Low (0)	1775 (132622)	20.55	20.82	20.66
		1745 (132322)	20.47	20.91	20.87
		1715 (132022)	20.51	20.71	20.59
	25RB-High (25)	1775 (132622)	20.48	20.55	20.52
		1745 (132322)	20.58	20.56	20.64
		1715 (132022)	20.52	20.56	20.45
	25RB-Middle (12)	1775 (132622)	20.53	20.60	20.49
		1745 (132322)	20.61	20.65	20.73
		1715 (132022)	20.49	20.58	20.49
	25RB-Low (0)	1775 (132622)	20.55	20.63	20.50
		1745 (132322)	20.62	20.72	20.52
		1715 (132022)	20.44	20.43	20.42
	50RB (0)	1775 (132622)	20.49	20.58	20.64
		1745 (132322)	20.54	20.65	20.68
		1715 (132022)	20.48	20.55	20.54

15MHz	1RB-High (74)	1772.5 (132597)	20.37	20.73	20.56
		1745 (132322)	20.27	20.80	20.71
		1717.5 (132047)	20.19	20.58	20.53
	1RB-Middle (37)	1772.5 (132597)	20.35	20.53	20.57
		1745 (132322)	20.36	20.66	20.69
		1717.5 (132047)	20.32	20.62	20.54
	1RB-Low (0)	1772.5 (132597)	20.28	20.74	20.65
		1745 (132322)	20.37	20.75	20.60
		1717.5 (132047)	20.21	20.53	20.44
	36RB-High (38)	1772.5 (132597)	20.37	20.45	20.35
		1745 (132322)	20.39	20.52	20.43
		1717.5 (132047)	20.38	20.40	20.38
	36RB-Middle (19)	1772.5 (132597)	20.42	20.39	20.48
		1745 (132322)	20.47	20.48	20.51
		1717.5 (132047)	20.37	20.37	20.39
	36RB-Low (0)	1772.5 (132597)	20.42	20.48	20.48
		1745 (132322)	20.46	20.47	20.53
		1717.5 (132047)	20.21	20.29	20.29
	75RB (0)	1772.5 (132597)	20.41	20.47	20.46
		1745 (132322)	20.48	20.49	20.48
		1717.5 (132047)	20.39	20.31	20.41
20MHz	1RB-High (99)	1770 (132572)	20.17	20.35	20.38
		1745 (132322)	20.23	20.63	20.48
		1720 (132072)	20.13	20.53	20.45
	1RB-Middle (50)	1770 (132572)	20.09	20.44	20.50
		1745 (132322)	20.31	20.65	20.46
		1720 (132072)	20.08	20.32	20.26
	1RB-Low (0)	1770 (132572)	20.15	20.81	20.48
		1745 (132322)	20.24	20.61	20.39
		1720 (132072)	20.04	20.25	20.17
	50RB-High (50)	1770 (132572)	20.17	20.17	20.19
		1745 (132322)	20.27	20.35	20.43
		1720 (132072)	20.28	20.22	20.24
	50RB-Middle (25)	1770 (132572)	20.26	20.37	20.35
		1745 (132322)	20.38	20.43	20.42
		1720 (132072)	20.21	20.22	20.16
	50RB-Low (0)	1770 (132572)	20.29	20.32	20.29
		1745 (132322)	20.30	20.32	20.36
		1720 (132072)	20.10	20.08	20.16
	100RB (0)	1770 (132572)	20.29	20.28	20.26
		1745 (132322)	20.36	20.30	20.36
		1720 (132072)	20.19	20.27	20.23

LTE Band66 ANT4-Power Level B1/E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	22.90	22.19	22.26
		1745 (132322)	23.05	22.39	22.41
		1710.7 (131979)	22.97	22.14	22.13
	1RB-Middle (3)	1779.3 (132665)	22.96	22.38	22.31
		1745 (132322)	23.10	22.36	22.41
		1710.7 (131979)	23.00	22.29	22.25
	1RB-Low (0)	1779.3 (132665)	22.91	22.33	22.43
		1745 (132322)	22.96	22.37	22.17
		1710.7 (131979)	22.91	22.19	22.14
	3RB-High (3)	1779.3 (132665)	23.05	22.14	22.18
		1745 (132322)	23.16	22.25	22.26
		1710.7 (131979)	22.93	22.02	22.08
	3RB-Middle (1)	1779.3 (132665)	23.04	22.13	22.28
		1745 (132322)	23.20	22.22	22.33
		1710.7 (131979)	22.98	22.03	22.13
	3RB-Low (0)	1779.3 (132665)	22.98	22.05	22.19
		1745 (132322)	23.07	22.18	22.13
		1710.7 (131979)	23.00	21.98	22.13
	6RB (0)	1779.3 (132665)	22.12	21.16	21.12
		1745 (132322)	22.17	21.26	21.17
		1710.7 (131979)	22.01	21.12	21.05
3MHz	1RB-High (14)	1778.5 (132657)	22.99	22.45	22.20
		1745 (132322)	23.21	22.40	22.47
		1711.5 (131987)	23.02	22.33	22.28
	1RB-Middle (7)	1778.5 (132657)	23.01	22.41	22.20
		1745 (132322)	23.34	22.54	22.18
		1711.5 (131987)	22.90	22.34	22.11
	1RB-Low (0)	1778.5 (132657)	23.14	22.50	22.12
		1745 (132322)	23.12	22.58	22.32
		1711.5 (131987)	23.10	22.28	22.14
	8RB-High (7)	1778.5 (132657)	22.14	21.27	21.18
		1745 (132322)	22.31	21.41	21.27
		1711.5 (131987)	22.10	21.15	21.15
	8RB-Middle (4)	1778.5 (132657)	22.22	21.27	21.22
		1745 (132322)	22.24	21.35	21.29
		1711.5 (131987)	22.16	21.15	21.13
	8RB-Low (0)	1778.5 (132657)	22.20	21.29	21.23
		1745 (132322)	22.20	21.30	21.25
		1711.5 (131987)	22.08	21.17	21.12
	15RB (0)	1778.5 (132657)	22.17	21.19	21.20
		1745 (132322)	22.21	21.26	21.25
		1711.5 (131987)	22.14	21.15	21.16

5MHz	1RB-High (24)	1777.5 (132647)	23.16	22.45	22.32
		1745 (132322)	23.18	22.49	22.26
		1712.5 (131997)	23.03	22.31	22.31
	1RB-Middle (12)	1777.5 (132647)	23.17	22.41	22.15
		1745 (132322)	23.18	22.54	22.37
		1712.5 (131997)	22.93	22.40	22.07
	1RB-Low (0)	1777.5 (132647)	23.11	22.29	22.33
		1745 (132322)	23.12	22.56	22.35
		1712.5 (131997)	23.09	22.26	22.34
	12RB-High (13)	1777.5 (132647)	22.23	21.28	21.19
		1745 (132322)	22.25	21.29	21.30
		1712.5 (131997)	22.08	21.12	21.09
	12RB-Middle (6)	1777.5 (132647)	22.23	21.28	21.27
		1745 (132322)	22.25	21.29	21.30
		1712.5 (131997)	22.18	21.10	21.18
	12RB-Low (0)	1777.5 (132647)	22.18	21.22	21.30
		1745 (132322)	22.25	21.27	21.26
		1712.5 (131997)	22.12	21.13	21.09
	25RB (0)	1777.5 (132647)	22.15	21.21	21.21
		1745 (132322)	22.25	21.28	21.28
		1712.5 (131997)	22.08	21.11	21.09
10MHz	1RB-High (49)	1775 (132622)	23.02	22.30	22.17
		1745 (132322)	23.34	22.61	22.42
		1715 (132022)	23.04	22.25	21.11
	1RB-Middle (24)	1775 (132622)	23.05	22.47	22.07
		1745 (132322)	23.39	22.48	22.37
		1715 (132022)	23.03	22.16	21.18
	1RB-Low (0)	1775 (132622)	23.00	22.46	22.12
		1745 (132322)	23.28	22.55	22.03
		1715 (132022)	22.86	22.27	21.18
	25RB-High (25)	1775 (132622)	22.19	21.23	21.21
		1745 (132322)	22.22	21.24	21.53
		1715 (132022)	22.17	21.11	20.14
	25RB-Middle (12)	1775 (132622)	22.27	21.28	20.15
		1745 (132322)	22.28	21.32	21.47
		1715 (132022)	22.11	21.14	20.17
	25RB-Low (0)	1775 (132622)	22.21	21.32	20.18
		1745 (132322)	22.23	21.35	21.47
		1715 (132022)	22.13	21.15	20.17
	50RB (0)	1775 (132622)	22.26	21.23	21.22
		1745 (132322)	22.21	21.24	20.30
		1715 (132022)	22.14	21.17	20.17

15MHz	1RB-High (74)	1772.5 (132597)	22.97	22.38	21.17
		1745 (132322)	23.07	22.48	21.32
		1717.5 (132047)	22.96	22.23	21.27
	1RB-Middle (37)	1772.5 (132597)	23.15	22.33	21.28
		1745 (132322)	23.16	22.39	21.23
		1717.5 (132047)	22.93	22.18	21.12
	1RB-Low (0)	1772.5 (132597)	23.16	22.45	21.34
		1745 (132322)	23.07	22.56	21.31
		1717.5 (132047)	22.96	22.26	21.07
	36RB-High (38)	1772.5 (132597)	22.21	21.16	20.22
		1745 (132322)	22.12	21.14	20.20
		1717.5 (132047)	21.97	21.05	20.09
	36RB-Middle (19)	1772.5 (132597)	22.17	21.21	20.19
		1745 (132322)	22.11	21.14	20.28
		1717.5 (132047)	22.02	21.03	20.08
	36RB-Low (0)	1772.5 (132597)	22.21	21.16	20.22
		1745 (132322)	22.16	21.10	20.22
		1717.5 (132047)	21.98	20.95	19.97
	75RB (0)	1772.5 (132597)	22.16	21.20	20.15
		1745 (132322)	22.14	21.17	20.17
		1717.5 (132047)	21.96	20.99	20.02
20MHz	1RB-High (99)	1770 (132572)	23.10	22.33	22.34
		1745 (132322)	23.11	22.40	22.40
		1720 (132072)	23.10	22.44	22.27
	1RB-Middle (50)	1770 (132572)	23.11	22.37	22.34
		1745 (132322)	23.15	22.55	22.42
		1720 (132072)	23.12	22.26	22.19
	1RB-Low (0)	1770 (132572)	23.10	22.55	22.39
		1745 (132322)	23.11	22.46	22.27
		1720 (132072)	23.13	22.29	22.33
	50RB-High (50)	1770 (132572)	22.25	21.20	21.17
		1745 (132322)	22.20	21.23	21.15
		1720 (132072)	22.13	21.15	21.32
	50RB-Middle (25)	1770 (132572)	22.21	21.25	21.23
		1745 (132322)	22.22	21.23	21.22
		1720 (132072)	22.12	21.10	21.28
	50RB-Low (0)	1770 (132572)	22.22	21.24	21.23
		1745 (132322)	22.14	21.16	21.15
		1720 (132072)	22.11	21.13	21.32
	100RB (0)	1770 (132572)	22.19	21.19	21.20
		1745 (132322)	22.14	21.13	21.14
		1720 (132072)	22.15	21.12	21.27

LTE Band66 ANT4-Power Level C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	20.31	20.50	20.40
		1745 (132322)	20.32	20.69	20.55
		1710.7 (131979)	20.21	20.48	20.53
	1RB-Middle (3)	1779.3 (132665)	20.29	20.62	20.55
		1745 (132322)	20.33	20.67	20.69
		1710.7 (131979)	20.23	20.68	20.55
	1RB-Low (0)	1779.3 (132665)	20.29	20.62	20.51
		1745 (132322)	20.27	20.71	20.66
		1710.7 (131979)	20.24	20.60	20.52
	3RB-High (3)	1779.3 (132665)	20.23	20.30	20.38
		1745 (132322)	20.31	20.38	20.53
		1710.7 (131979)	20.20	20.32	20.40
	3RB-Middle (1)	1779.3 (132665)	20.29	20.40	20.49
		1745 (132322)	20.40	20.45	20.67
		1710.7 (131979)	20.29	20.38	20.57
	3RB-Low (0)	1779.3 (132665)	20.25	20.33	20.40
		1745 (132322)	20.35	20.43	20.46
		1710.7 (131979)	20.26	20.31	20.43
	6RB (0)	1779.3 (132665)	20.34	20.39	20.34
		1745 (132322)	20.40	20.39	20.47
		1710.7 (131979)	20.33	20.43	20.38
3MHz	1RB-High (14)	1778.5 (132657)	20.28	20.61	20.56
		1745 (132322)	20.38	20.78	20.51
		1711.5 (131987)	20.29	20.65	20.61
	1RB-Middle (7)	1778.5 (132657)	20.30	20.66	20.39
		1745 (132322)	20.66	20.67	20.47
		1711.5 (131987)	20.22	20.63	20.42
	1RB-Low (0)	1778.5 (132657)	20.28	20.69	20.51
		1745 (132322)	20.36	20.72	20.65
		1711.5 (131987)	20.33	20.68	20.63
	8RB-High (7)	1778.5 (132657)	20.40	20.53	20.48
		1745 (132322)	20.49	20.53	20.55
		1711.5 (131987)	20.40	20.45	20.46
	8RB-Middle (4)	1778.5 (132657)	20.44	20.47	20.43
		1745 (132322)	20.47	20.61	20.54
		1711.5 (131987)	20.37	20.48	20.44
	8RB-Low (0)	1778.5 (132657)	20.37	20.52	20.46
		1745 (132322)	20.42	20.53	20.48
		1711.5 (131987)	20.39	20.49	20.47
	15RB (0)	1778.5 (132657)	20.44	20.44	20.40
		1745 (132322)	20.45	20.52	20.52
		1711.5 (131987)	20.35	20.40	20.39

5MHz	1RB-High (24)	1777.5 (132647)	20.42	20.68	20.55
		1745 (132322)	20.36	20.79	20.56
		1712.5 (131997)	20.36	20.64	20.54
	1RB-Middle (12)	1777.5 (132647)	20.28	20.71	20.38
		1745 (132322)	20.40	20.71	20.58
		1712.5 (131997)	20.28	20.71	20.40
	1RB-Low (0)	1777.5 (132647)	20.32	20.75	20.63
		1745 (132322)	20.43	20.73	20.45
		1712.5 (131997)	20.39	20.80	20.53
	12RB-High (13)	1777.5 (132647)	20.43	20.46	20.40
		1745 (132322)	20.53	20.53	20.52
		1712.5 (131997)	20.37	20.43	20.39
	12RB-Middle (6)	1777.5 (132647)	20.47	20.46	20.44
		1745 (132322)	20.48	20.52	20.50
		1712.5 (131997)	20.46	20.55	20.52
	12RB-Low (0)	1777.5 (132647)	20.41	20.49	20.45
		1745 (132322)	20.46	20.48	20.46
		1712.5 (131997)	20.37	20.40	20.40
	25RB (0)	1777.5 (132647)	20.37	20.46	20.46
		1745 (132322)	20.48	20.42	20.50
		1712.5 (131997)	20.36	20.40	20.39
10MHz	1RB-High (49)	1775 (132622)	20.20	20.64	20.56
		1745 (132322)	20.42	20.55	20.49
		1715 (132022)	20.21	20.58	20.59
	1RB-Middle (24)	1775 (132622)	20.47	20.73	20.39
		1745 (132322)	20.49	20.53	20.52
		1715 (132022)	20.44	20.54	20.25
	1RB-Low (0)	1775 (132622)	20.33	20.80	20.64
		1745 (132322)	20.37	20.80	20.60
		1715 (132022)	20.17	20.62	20.39
	25RB-High (25)	1775 (132622)	20.41	20.47	20.37
		1745 (132322)	20.42	20.50	20.33
		1715 (132022)	20.38	20.42	20.41
	25RB-Middle (12)	1775 (132622)	20.41	20.47	20.44
		1745 (132322)	20.45	20.58	20.48
		1715 (132022)	20.37	20.42	20.32
	25RB-Low (0)	1775 (132622)	20.45	20.39	20.48
		1745 (132322)	20.50	20.49	20.46
		1715 (132022)	20.41	20.35	20.39
	50RB (0)	1775 (132622)	20.46	20.55	20.52
		1745 (132322)	20.46	20.45	20.49
		1715 (132022)	20.36	20.40	20.41

15MHz	1RB-High (74)	1772.5 (132597)	20.20	20.52	20.55
		1745 (132322)	20.28	20.68	20.57
		1717.5 (132047)	20.12	20.62	20.51
	1RB-Middle (37)	1772.5 (132597)	20.19	20.62	20.45
		1745 (132322)	20.35	20.59	20.58
		1717.5 (132047)	20.13	20.48	20.33
	1RB-Low (0)	1772.5 (132597)	20.22	20.54	20.45
		1745 (132322)	20.27	20.56	20.53
		1717.5 (132047)	20.03	20.44	20.39
	36RB-High (38)	1772.5 (132597)	20.35	20.40	20.35
		1745 (132322)	20.28	20.33	20.38
		1717.5 (132047)	20.25	20.28	20.34
	36RB-Middle (19)	1772.5 (132597)	20.31	20.32	20.39
		1745 (132322)	20.29	20.32	20.35
		1717.5 (132047)	20.32	20.26	20.30
	36RB-Low (0)	1772.5 (132597)	20.35	20.35	20.39
		1745 (132322)	20.32	20.31	20.38
		1717.5 (132047)	20.19	20.20	20.25
	75RB (0)	1772.5 (132597)	20.35	20.31	20.35
		1745 (132322)	20.29	20.33	20.34
		1717.5 (132047)	20.21	20.25	20.31
20MHz	1RB-High (99)	1770 (132572)	20.22	20.62	20.37
		1745 (132322)	20.24	20.56	20.53
		1720 (132072)	20.22	20.51	20.34
	1RB-Middle (50)	1770 (132572)	20.28	20.67	20.56
		1745 (132322)	20.30	20.63	20.63
		1720 (132072)	20.17	20.48	20.45
	1RB-Low (0)	1770 (132572)	20.32	20.69	20.62
		1745 (132322)	20.20	20.58	20.57
		1720 (132072)	20.17	20.49	20.36
	50RB-High (50)	1770 (132572)	20.33	20.36	20.36
		1745 (132322)	20.40	20.39	20.34
		1720 (132072)	20.30	20.25	20.29
	50RB-Middle (25)	1770 (132572)	20.37	20.39	20.37
		1745 (132322)	20.32	20.36	20.29
		1720 (132072)	20.22	20.33	20.32
	50RB-Low (0)	1770 (132572)	20.38	20.37	20.43
		1745 (132322)	20.34	20.39	20.36
		1720 (132072)	20.16	20.12	20.16
	100RB (0)	1770 (132572)	20.31	20.41	20.32
		1745 (132322)	20.36	20.37	20.27
		1720 (132072)	20.18	20.28	20.19

LTE Band66 ANT4-Power Level D1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	16.25	16.52	16.55
		1745 (132322)	16.49	16.80	16.65
		1710.7 (131979)	16.29	16.75	16.43
	1RB-Middle (3)	1779.3 (132665)	16.32	16.63	16.49
		1745 (132322)	16.50	16.89	16.68
		1710.7 (131979)	16.37	16.82	16.60
	1RB-Low (0)	1779.3 (132665)	16.29	16.55	16.52
		1745 (132322)	16.45	16.70	16.64
		1710.7 (131979)	16.33	16.74	16.50
	3RB-High (3)	1779.3 (132665)	16.32	16.30	16.42
		1745 (132322)	16.47	16.52	16.53
		1710.7 (131979)	16.31	16.41	16.48
	3RB-Middle (1)	1779.3 (132665)	16.30	16.39	16.40
		1745 (132322)	16.48	16.57	16.54
		1710.7 (131979)	16.43	16.51	16.47
	3RB-Low (0)	1779.3 (132665)	16.25	16.40	16.36
		1745 (132322)	16.45	16.51	16.50
		1710.7 (131979)	16.38	16.35	16.45
	6RB (0)	1779.3 (132665)	16.38	16.40	16.36
		1745 (132322)	16.52	16.57	16.51
		1710.7 (131979)	16.44	16.52	16.40
3MHz	1RB-High (14)	1778.5 (132657)	16.35	16.64	16.50
		1745 (132322)	16.48	16.72	16.69
		1711.5 (131987)	16.43	16.70	16.64
	1RB-Middle (7)	1778.5 (132657)	16.38	16.61	16.57
		1745 (132322)	16.57	16.81	16.68
		1711.5 (131987)	16.35	16.62	16.48
	1RB-Low (0)	1778.5 (132657)	16.36	16.69	16.51
		1745 (132322)	16.45	16.80	16.73
		1711.5 (131987)	16.39	16.74	16.68
	8RB-High (7)	1778.5 (132657)	16.48	16.49	16.48
		1745 (132322)	16.53	16.67	16.51
		1711.5 (131987)	16.49	16.51	16.49
	8RB-Middle (4)	1778.5 (132657)	16.47	16.49	16.44
		1745 (132322)	16.62	16.68	16.51
		1711.5 (131987)	16.51	16.60	16.60
	8RB-Low (0)	1778.5 (132657)	16.43	16.51	16.50
		1745 (132322)	16.59	16.64	16.58
		1711.5 (131987)	16.42	16.53	16.51
	15RB (0)	1778.5 (132657)	16.45	16.44	16.42
		1745 (132322)	16.59	16.54	16.59
		1711.5 (131987)	16.48	16.55	16.49

5MHz	1RB-High (24)	1777.5 (132647)	16.39	16.68	16.66
		1745 (132322)	16.51	16.80	16.67
		1712.5 (131997)	16.38	16.80	16.56
	1RB-Middle (12)	1777.5 (132647)	16.58	16.70	16.57
		1745 (132322)	16.45	16.81	16.61
		1712.5 (131997)	16.28	16.70	16.48
	1RB-Low (0)	1777.5 (132647)	16.43	16.82	16.55
		1745 (132322)	16.49	16.87	16.65
		1712.5 (131997)	16.43	16.83	16.68
	12RB-High (13)	1777.5 (132647)	16.49	16.47	16.42
		1745 (132322)	16.58	16.56	16.52
		1712.5 (131997)	16.55	16.51	16.46
	12RB-Middle (6)	1777.5 (132647)	16.52	16.50	16.46
		1745 (132322)	16.55	16.63	16.63
		1712.5 (131997)	16.49	16.52	16.50
	12RB-Low (0)	1777.5 (132647)	16.48	16.56	16.51
		1745 (132322)	16.61	16.62	16.59
		1712.5 (131997)	16.52	16.58	16.53
	25RB (0)	1777.5 (132647)	16.49	16.45	16.44
		1745 (132322)	16.55	16.58	16.63
		1712.5 (131997)	16.50	16.54	16.52
10MHz	1RB-High (49)	1775 (132622)	16.27	16.68	16.69
		1745 (132322)	16.37	16.78	16.81
		1715 (132022)	16.33	16.65	16.64
	1RB-Middle (24)	1775 (132622)	16.52	16.47	16.63
		1745 (132322)	16.73	16.70	16.72
		1715 (132022)	16.60	16.60	16.61
	1RB-Low (0)	1775 (132622)	16.52	16.66	16.68
		1745 (132322)	16.67	16.70	16.86
		1715 (132022)	16.30	16.76	16.62
	25RB-High (25)	1775 (132622)	16.46	16.53	16.43
		1745 (132322)	16.50	16.45	16.43
		1715 (132022)	16.55	16.37	16.57
	25RB-Middle (12)	1775 (132622)	16.47	16.55	16.44
		1745 (132322)	16.58	16.67	16.53
		1715 (132022)	16.57	16.50	16.51
	25RB-Low (0)	1775 (132622)	16.45	16.48	16.48
		1745 (132322)	16.56	16.67	16.54
		1715 (132022)	16.48	16.56	16.40
	50RB (0)	1775 (132622)	16.48	16.54	16.52
		1745 (132322)	16.57	16.60	16.57
		1715 (132022)	16.51	16.53	16.52

15MHz	1RB-High (74)	1772.5 (132597)	16.24	16.62	16.50
		1745 (132322)	16.41	16.65	16.66
		1717.5 (132047)	16.28	16.74	16.46
	1RB-Middle (37)	1772.5 (132597)	16.36	16.57	16.50
		1745 (132322)	16.46	16.79	16.71
		1717.5 (132047)	16.27	16.59	16.53
	1RB-Low (0)	1772.5 (132597)	16.33	16.71	16.56
		1745 (132322)	16.39	16.73	16.65
		1717.5 (132047)	16.30	16.54	16.52
	36RB-High (38)	1772.5 (132597)	16.33	16.37	16.34
		1745 (132322)	16.53	16.44	16.46
		1717.5 (132047)	16.36	16.36	16.37
	36RB-Middle (19)	1772.5 (132597)	16.42	16.37	16.46
		1745 (132322)	16.34	16.47	16.47
		1717.5 (132047)	16.37	16.40	16.37
	36RB-Low (0)	1772.5 (132597)	16.38	16.43	16.43
		1745 (132322)	16.44	16.45	16.44
		1717.5 (132047)	16.30	16.32	16.23
	75RB (0)	1772.5 (132597)	16.38	16.37	16.33
		1745 (132322)	16.48	16.50	16.39
		1717.5 (132047)	16.39	16.41	16.41
20MHz	1RB-High (99)	1770 (132572)	16.20	16.57	16.36
		1745 (132322)	16.37	16.69	16.53
		1720 (132072)	16.22	16.56	16.40
	1RB-Middle (50)	1770 (132572)	16.16	16.63	16.50
		1745 (132322)	16.31	16.66	16.47
		1720 (132072)	16.17	16.41	16.34
	1RB-Low (0)	1770 (132572)	16.23	16.70	16.54
		1745 (132322)	16.24	16.71	16.52
		1720 (132072)	16.17	16.51	16.45
	50RB-High (50)	1770 (132572)	16.27	16.24	16.21
		1745 (132322)	16.41	16.41	16.43
		1720 (132072)	16.30	16.31	16.36
	50RB-Middle (25)	1770 (132572)	16.32	16.36	16.35
		1745 (132322)	16.36	16.41	16.38
		1720 (132072)	16.36	16.35	16.32
	50RB-Low (0)	1770 (132572)	16.39	16.41	16.38
		1745 (132322)	16.38	16.42	16.41
		1720 (132072)	16.22	16.35	16.34
	100RB (0)	1770 (132572)	16.35	16.30	16.30
		1745 (132322)	16.33	16.38	16.36
		1720 (132072)	16.35	16.35	16.36

LTE Band66 ANT4-Power Level E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	22.90	22.40	22.41
		1745 (132322)	22.91	22.59	22.46
		1710.7 (131979)	23.36	23.29	22.56
	1RB-Middle (3)	1779.3 (132665)	22.94	22.48	22.65
		1745 (132322)	23.13	22.68	22.86
		1710.7 (131979)	22.91	22.53	22.66
	1RB-Low (0)	1779.3 (132665)	22.99	22.48	22.63
		1745 (132322)	23.29	22.94	22.60
		1710.7 (131979)	23.41	23.19	22.82
	3RB-High (3)	1779.3 (132665)	23.08	22.58	22.72
		1745 (132322)	23.23	23.23	22.75
		1710.7 (131979)	23.37	23.37	22.66
	3RB-Middle (1)	1779.3 (132665)	23.05	22.74	22.77
		1745 (132322)	23.40	22.88	22.89
		1710.7 (131979)	23.40	23.45	22.70
	3RB-Low (0)	1779.3 (132665)	23.13	22.98	22.57
		1745 (132322)	23.23	22.77	22.46
		1710.7 (131979)	23.70	23.22	22.87
	6RB (0)	1779.3 (132665)	22.90	22.76	22.81
		1745 (132322)	23.24	22.93	22.39
		1710.7 (131979)	23.59	23.10	22.80
3MHz	1RB-High (14)	1778.5 (132657)	22.93	22.65	22.48
		1745 (132322)	23.08	22.50	22.68
		1711.5 (131987)	23.24	23.02	22.62
	1RB-Middle (7)	1778.5 (132657)	23.08	22.67	22.62
		1745 (132322)	22.95	22.59	22.79
		1711.5 (131987)	23.01	22.52	22.43
	1RB-Low (0)	1778.5 (132657)	22.98	22.69	22.63
		1745 (132322)	23.34	22.76	22.58
		1711.5 (131987)	23.29	23.09	22.94
	8RB-High (7)	1778.5 (132657)	23.10	22.67	22.52
		1745 (132322)	23.32	23.05	22.68
		1711.5 (131987)	23.61	23.57	22.66
	8RB-Middle (4)	1778.5 (132657)	23.15	22.92	22.63
		1745 (132322)	23.21	22.76	22.69
		1711.5 (131987)	23.38	23.30	22.74
	8RB-Low (0)	1778.5 (132657)	23.18	22.83	22.55
		1745 (132322)	23.32	22.93	22.55
		1711.5 (131987)	23.56	23.25	23.10
	15RB (0)	1778.5 (132657)	22.90	22.82	22.63
		1745 (132322)	23.25	23.04	22.67
		1711.5 (131987)	23.45	23.10	22.76

5MHz	1RB-High (24)	1777.5 (132647)	22.90	22.42	22.49
		1745 (132322)	23.07	22.60	22.66
		1712.5 (131997)	23.36	23.08	22.72
	1RB-Middle (12)	1777.5 (132647)	22.95	22.47	22.63
		1745 (132322)	22.93	22.69	22.69
		1712.5 (131997)	23.03	22.53	22.43
	1RB-Low (0)	1777.5 (132647)	23.02	22.60	22.48
		1745 (132322)	23.08	22.67	22.42
		1712.5 (131997)	23.20	23.34	22.77
	12RB-High (13)	1777.5 (132647)	23.11	22.83	22.53
		1745 (132322)	23.32	23.01	22.83
		1712.5 (131997)	23.48	23.38	22.69
	12RB-Middle (6)	1777.5 (132647)	23.17	22.71	22.84
		1745 (132322)	23.40	22.79	22.73
		1712.5 (131997)	23.52	23.31	22.99
	12RB-Low (0)	1777.5 (132647)	23.27	22.85	22.54
		1745 (132322)	23.27	23.03	22.67
		1712.5 (131997)	23.48	23.15	23.10
	25RB (0)	1777.5 (132647)	22.96	23.01	22.59
		1745 (132322)	23.08	22.84	22.57
		1712.5 (131997)	23.41	23.28	22.63
10MHz	1RB-High (49)	1775 (132622)	22.93	22.44	22.49
		1745 (132322)	22.87	22.67	22.48
		1715 (132022)	23.32	23.01	22.48
	1RB-Middle (24)	1775 (132622)	22.98	22.62	22.54
		1745 (132322)	22.90	22.83	22.68
		1715 (132022)	23.19	22.72	22.64
	1RB-Low (0)	1775 (132622)	22.94	22.49	22.51
		1745 (132322)	23.14	22.93	22.35
		1715 (132022)	23.35	23.08	23.00
	25RB-High (25)	1775 (132622)	23.14	22.54	22.58
		1745 (132322)	23.38	23.20	22.94
		1715 (132022)	23.65	23.29	22.57
	25RB-Middle (12)	1775 (132622)	23.05	22.83	22.74
		1745 (132322)	23.18	22.80	22.92
		1715 (132022)	23.41	23.36	22.81
	25RB-Low (0)	1775 (132622)	23.01	23.06	22.50
		1745 (132322)	23.26	22.95	22.58
		1715 (132022)	23.44	23.26	22.96
	50RB (0)	1775 (132622)	22.97	23.00	22.59
		1745 (132322)	23.00	22.99	22.56
		1715 (132022)	23.64	23.27	22.80

15MHz	1RB-High (74)	1772.5 (132597)	22.98	22.46	22.43
		1745 (132322)	22.95	22.63	22.73
		1717.5 (132047)	23.34	23.04	22.48
	1RB-Middle (37)	1772.5 (132597)	22.94	22.62	22.49
		1745 (132322)	23.03	22.72	22.84
		1717.5 (132047)	23.12	22.72	22.49
	1RB-Low (0)	1772.5 (132597)	22.92	22.60	22.73
		1745 (132322)	23.17	22.96	22.52
		1717.5 (132047)	23.30	23.13	22.97
	36RB-High (38)	1772.5 (132597)	22.99	22.79	22.67
		1745 (132322)	23.19	23.00	22.95
		1717.5 (132047)	23.47	23.54	22.59
	36RB-Middle (19)	1772.5 (132597)	23.02	22.78	22.61
		1745 (132322)	23.28	23.05	22.65
		1717.5 (132047)	23.57	23.39	22.84
	36RB-Low (0)	1772.5 (132597)	23.04	23.06	22.64
		1745 (132322)	23.32	23.03	22.56
		1717.5 (132047)	23.54	23.28	22.93
	75RB (0)	1772.5 (132597)	23.10	22.73	22.84
		1745 (132322)	23.02	23.08	22.62
		1717.5 (132047)	23.43	23.13	22.85
20MHz	1RB-High (99)	1770 (132572)	22.92	22.52	22.41
		1745 (132322)	23.01	22.60	22.58
		1720 (132072)	23.26	23.14	22.60
	1RB-Middle (50)	1770 (132572)	22.97	22.58	22.51
		1745 (132322)	23.04	22.73	22.76
		1720 (132072)	23.06	22.66	22.56
	1RB-Low (0)	1770 (132572)	22.99	22.58	22.59
		1745 (132322)	23.19	22.82	22.48
		1720 (132072)	23.27	23.21	22.91
	50RB-High (50)	1770 (132572)	23.11	22.68	22.57
		1745 (132322)	23.29	23.09	22.81
		1720 (132072)	23.52	23.43	22.55
	50RB-Middle (25)	1770 (132572)	23.12	22.77	22.73
		1745 (132322)	23.29	22.91	22.79
		1720 (132072)	23.49	23.34	22.84
	50RB-Low (0)	1770 (132572)	23.15	22.93	22.51
		1745 (132322)	23.18	22.88	22.58
		1720 (132072)	23.58	23.17	23.01
	100RB (0)	1770 (132572)	23.05	22.88	22.72
		1745 (132322)	23.13	22.98	22.52
		1720 (132072)	23.55	23.21	22.73

LTE Band66 ANT0-Power Level D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	22.90	22.40	22.41
		1745 (132322)	22.91	22.59	22.46
		1710.7 (131979)	23.36	23.29	22.56
	1RB-Middle (3)	1779.3 (132665)	22.94	22.48	22.65
		1745 (132322)	23.13	22.68	22.86
		1710.7 (131979)	22.91	22.53	22.66
	1RB-Low (0)	1779.3 (132665)	22.99	22.48	22.63
		1745 (132322)	23.29	22.94	22.60
		1710.7 (131979)	23.41	23.19	22.82
	3RB-High (3)	1779.3 (132665)	23.08	22.58	22.72
		1745 (132322)	23.23	23.23	22.75
		1710.7 (131979)	23.37	23.37	22.66
	3RB-Middle (1)	1779.3 (132665)	23.05	22.74	22.77
		1745 (132322)	23.40	22.88	22.89
		1710.7 (131979)	23.40	23.45	22.70
	3RB-Low (0)	1779.3 (132665)	23.13	22.98	22.57
		1745 (132322)	23.23	22.77	22.46
		1710.7 (131979)	23.70	23.22	22.87
	6RB (0)	1779.3 (132665)	22.90	22.76	22.81
		1745 (132322)	23.24	22.93	22.39
		1710.7 (131979)	23.59	23.10	22.80
3MHz	1RB-High (14)	1778.5 (132657)	22.93	22.65	22.48
		1745 (132322)	23.08	22.50	22.68
		1711.5 (131987)	23.24	23.02	22.62
	1RB-Middle (7)	1778.5 (132657)	23.08	22.67	22.62
		1745 (132322)	22.95	22.59	22.79
		1711.5 (131987)	23.01	22.52	22.43
	1RB-Low (0)	1778.5 (132657)	22.98	22.69	22.63
		1745 (132322)	23.34	22.76	22.58
		1711.5 (131987)	23.29	23.09	22.94
	8RB-High (7)	1778.5 (132657)	23.10	22.67	22.52
		1745 (132322)	23.32	23.05	22.68
		1711.5 (131987)	23.61	23.57	22.66
	8RB-Middle (4)	1778.5 (132657)	23.15	22.92	22.63
		1745 (132322)	23.21	22.76	22.69
		1711.5 (131987)	23.38	23.30	22.74
	8RB-Low (0)	1778.5 (132657)	23.18	22.83	22.55
		1745 (132322)	23.32	22.93	22.55
		1711.5 (131987)	23.56	23.25	23.10
	15RB (0)	1778.5 (132657)	22.90	22.82	22.63
		1745 (132322)	23.25	23.04	22.67
		1711.5 (131987)	23.45	23.10	22.76

5MHz	1RB-High (24)	1777.5 (132647)	22.90	22.42	22.49
		1745 (132322)	23.07	22.60	22.66
		1712.5 (131997)	23.36	23.08	22.72
	1RB-Middle (12)	1777.5 (132647)	22.95	22.47	22.63
		1745 (132322)	22.93	22.69	22.69
		1712.5 (131997)	23.03	22.53	22.43
	1RB-Low (0)	1777.5 (132647)	23.02	22.60	22.48
		1745 (132322)	23.08	22.67	22.42
		1712.5 (131997)	23.20	23.34	22.77
	12RB-High (13)	1777.5 (132647)	23.11	22.83	22.53
		1745 (132322)	23.32	23.01	22.83
		1712.5 (131997)	23.48	23.38	22.69
	12RB-Middle (6)	1777.5 (132647)	23.17	22.71	22.84
		1745 (132322)	23.40	22.79	22.73
		1712.5 (131997)	23.52	23.31	22.99
	12RB-Low (0)	1777.5 (132647)	23.27	22.85	22.54
		1745 (132322)	23.27	23.03	22.67
		1712.5 (131997)	23.48	23.15	23.10
	25RB (0)	1777.5 (132647)	22.96	23.01	22.59
		1745 (132322)	23.08	22.84	22.57
		1712.5 (131997)	23.41	23.28	22.63
10MHz	1RB-High (49)	1775 (132622)	22.93	22.44	22.49
		1745 (132322)	22.87	22.67	22.48
		1715 (132022)	23.32	23.01	22.48
	1RB-Middle (24)	1775 (132622)	22.98	22.62	22.54
		1745 (132322)	22.90	22.83	22.68
		1715 (132022)	23.19	22.72	22.64
	1RB-Low (0)	1775 (132622)	22.94	22.49	22.51
		1745 (132322)	23.14	22.93	22.35
		1715 (132022)	23.35	23.08	23.00
	25RB-High (25)	1775 (132622)	23.14	22.54	22.58
		1745 (132322)	23.38	23.20	22.94
		1715 (132022)	23.65	23.29	22.57
	25RB-Middle (12)	1775 (132622)	23.05	22.83	22.74
		1745 (132322)	23.18	22.80	22.92
		1715 (132022)	23.41	23.36	22.81
	25RB-Low (0)	1775 (132622)	23.01	23.06	22.50
		1745 (132322)	23.26	22.95	22.58
		1715 (132022)	23.44	23.26	22.96
	50RB (0)	1775 (132622)	22.97	23.00	22.59
		1745 (132322)	23.00	22.99	22.56
		1715 (132022)	23.64	23.27	22.80

15MHz	1RB-High (74)	1772.5 (132597)	22.98	22.46	22.43
		1745 (132322)	22.95	22.63	22.73
		1717.5 (132047)	23.34	23.04	22.48
	1RB-Middle (37)	1772.5 (132597)	22.94	22.62	22.49
		1745 (132322)	23.03	22.72	22.84
		1717.5 (132047)	23.12	22.72	22.49
	1RB-Low (0)	1772.5 (132597)	22.92	22.60	22.73
		1745 (132322)	23.17	22.96	22.52
		1717.5 (132047)	23.30	23.13	22.97
	36RB-High (38)	1772.5 (132597)	22.99	22.79	22.67
		1745 (132322)	23.19	23.00	22.95
		1717.5 (132047)	23.47	23.54	22.59
	36RB-Middle (19)	1772.5 (132597)	23.02	22.78	22.61
		1745 (132322)	23.28	23.05	22.65
		1717.5 (132047)	23.57	23.39	22.84
	36RB-Low (0)	1772.5 (132597)	23.04	23.06	22.64
		1745 (132322)	23.32	23.03	22.56
		1717.5 (132047)	23.54	23.28	22.93
	75RB (0)	1772.5 (132597)	23.10	22.73	22.84
		1745 (132322)	23.02	23.08	22.62
		1717.5 (132047)	23.43	23.13	22.85
20MHz	1RB-High (99)	1770 (132572)	22.92	22.52	22.41
		1745 (132322)	23.01	22.60	22.58
		1720 (132072)	23.26	23.14	22.60
	1RB-Middle (50)	1770 (132572)	22.97	22.58	22.51
		1745 (132322)	23.04	22.73	22.76
		1720 (132072)	23.06	22.66	22.56
	1RB-Low (0)	1770 (132572)	22.99	22.58	22.59
		1745 (132322)	23.19	22.82	22.48
		1720 (132072)	23.27	23.21	22.91
	50RB-High (50)	1770 (132572)	23.11	22.68	22.57
		1745 (132322)	23.29	23.09	22.81
		1720 (132072)	23.52	23.43	22.55
	50RB-Middle (25)	1770 (132572)	23.12	22.77	22.73
		1745 (132322)	23.29	22.91	22.79
		1720 (132072)	23.49	23.34	22.84
	50RB-Low (0)	1770 (132572)	23.15	22.93	22.51
		1745 (132322)	23.18	22.88	22.58
		1720 (132072)	23.58	23.17	23.01
	100RB (0)	1770 (132572)	23.05	22.88	22.72
		1745 (132322)	23.13	22.98	22.52
		1720 (132072)	23.55	23.21	22.73

LTE Band66 ANT0-Power Level E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	6.95	6.85	6.61
		1745 (132322)	7.01	6.93	6.45
		1710.7 (131979)	7.09	7.00	6.52
	1RB-Middle (3)	1779.3 (132665)	6.90	6.83	6.49
		1745 (132322)	7.00	6.81	6.46
		1710.7 (131979)	7.06	6.97	6.64
	1RB-Low (0)	1779.3 (132665)	7.01	6.83	6.55
		1745 (132322)	7.12	6.91	6.44
		1710.7 (131979)	7.06	6.91	6.63
	3RB-High (3)	1779.3 (132665)	6.91	6.72	6.58
		1745 (132322)	7.01	6.88	6.55
		1710.7 (131979)	7.02	6.96	6.60
	3RB-Middle (1)	1779.3 (132665)	6.94	6.81	6.43
		1745 (132322)	6.96	6.97	6.45
		1710.7 (131979)	7.01	7.03	6.43
	3RB-Low (0)	1779.3 (132665)	6.91	6.76	6.56
		1745 (132322)	7.11	7.01	6.57
		1710.7 (131979)	7.11	7.02	6.65
	6RB (0)	1779.3 (132665)	6.92	6.70	6.47
		1745 (132322)	7.05	6.95	6.39
		1710.7 (131979)	7.18	6.95	6.46
3MHz	1RB-High (14)	1778.5 (132657)	6.95	6.77	6.52
		1745 (132322)	7.08	6.93	6.37
		1711.5 (131987)	7.04	6.96	6.53
	1RB-Middle (7)	1778.5 (132657)	6.86	6.76	6.44
		1745 (132322)	6.94	6.81	6.47
		1711.5 (131987)	7.06	6.98	6.58
	1RB-Low (0)	1778.5 (132657)	6.90	6.81	6.59
		1745 (132322)	7.12	6.93	6.39
		1711.5 (131987)	7.07	6.95	6.56
	8RB-High (7)	1778.5 (132657)	6.87	6.80	6.50
		1745 (132322)	6.97	6.96	6.62
		1711.5 (131987)	7.14	6.89	6.61
	8RB-Middle (4)	1778.5 (132657)	6.89	6.80	6.48
		1745 (132322)	7.00	6.98	6.37
		1711.5 (131987)	7.06	6.95	6.43
	8RB-Low (0)	1778.5 (132657)	6.95	6.89	6.57
		1745 (132322)	7.08	6.88	6.61
		1711.5 (131987)	7.18	6.94	6.73
	15RB (0)	1778.5 (132657)	6.89	6.82	6.47
		1745 (132322)	6.95	6.91	6.36
		1711.5 (131987)	7.04	6.92	6.61

5MHz	1RB-High (24)	1777.5 (132647)	6.89	6.78	6.53
		1745 (132322)	6.97	6.95	6.37
		1712.5 (131997)	6.99	7.00	6.52
	1RB-Middle (12)	1777.5 (132647)	6.93	6.75	6.48
		1745 (132322)	6.93	6.82	6.54
		1712.5 (131997)	6.99	6.98	6.59
	1RB-Low (0)	1777.5 (132647)	7.01	6.79	6.62
		1745 (132322)	7.07	6.90	6.39
		1712.5 (131997)	7.04	6.87	6.50
	12RB-High (13)	1777.5 (132647)	6.93	6.71	6.63
		1745 (132322)	6.98	6.93	6.56
		1712.5 (131997)	7.15	6.89	6.55
	12RB-Middle (6)	1777.5 (132647)	6.94	6.91	6.50
		1745 (132322)	7.06	6.97	6.47
		1712.5 (131997)	7.04	7.08	6.49
	12RB-Low (0)	1777.5 (132647)	6.99	6.80	6.56
		1745 (132322)	7.07	6.95	6.61
		1712.5 (131997)	7.09	6.97	6.58
	25RB (0)	1777.5 (132647)	6.95	6.82	6.51
		1745 (132322)	6.94	6.82	6.43
		1712.5 (131997)	7.07	6.91	6.52
10MHz	1RB-High (49)	1775 (132622)	6.85	6.76	6.55
		1745 (132322)	6.96	6.86	6.47
		1715 (132022)	7.00	7.01	6.46
	1RB-Middle (24)	1775 (132622)	6.92	6.85	6.46
		1745 (132322)	7.04	6.93	6.55
		1715 (132022)	7.09	7.00	6.56
	1RB-Low (0)	1775 (132622)	6.89	6.84	6.61
		1745 (132322)	6.99	6.83	6.45
		1715 (132022)	7.09	6.95	6.49
	25RB-High (25)	1775 (132622)	6.91	6.81	6.56
		1745 (132322)	7.06	6.86	6.52
		1715 (132022)	7.02	6.94	6.50
	25RB-Middle (12)	1775 (132622)	6.99	6.95	6.46
		1745 (132322)	6.98	6.97	6.52
		1715 (132022)	7.14	7.00	6.43
	25RB-Low (0)	1775 (132622)	6.99	6.82	6.46
		1745 (132322)	7.01	6.91	6.53
		1715 (132022)	7.07	7.08	6.58
	50RB (0)	1775 (132622)	6.90	6.80	6.52
		1745 (132322)	7.06	6.82	6.43
		1715 (132022)	7.14	7.04	6.58

15MHz	1RB-High (74)	1772.5 (132597)	6.95	6.74	6.50
		1745 (132322)	6.97	6.87	6.37
		1717.5 (132047)	7.14	7.00	6.46
	1RB-Middle (37)	1772.5 (132597)	6.85	6.77	6.43
		1745 (132322)	6.98	6.84	6.54
		1717.5 (132047)	7.13	6.98	6.65
	1RB-Low (0)	1772.5 (132597)	6.92	6.82	6.58
		1745 (132322)	6.99	6.89	6.41
		1717.5 (132047)	6.98	7.01	6.64
	36RB-High (38)	1772.5 (132597)	6.81	6.81	6.64
		1745 (132322)	7.08	6.98	6.61
		1717.5 (132047)	7.10	6.87	6.61
	36RB-Middle (19)	1772.5 (132597)	6.98	6.85	6.50
		1745 (132322)	6.99	6.92	6.46
		1717.5 (132047)	7.14	6.94	6.46
	36RB-Low (0)	1772.5 (132597)	7.05	6.76	6.58
		1745 (132322)	7.05	6.91	6.56
		1717.5 (132047)	7.09	6.95	6.64
	75RB (0)	1772.5 (132597)	6.97	6.79	6.44
		1745 (132322)	6.94	6.95	6.37
		1717.5 (132047)	7.03	6.92	6.48
20MHz	1RB-High (99)	1770 (132572)	6.89	6.79	6.55
		1745 (132322)	7.03	6.94	6.43
		1720 (132072)	7.07	6.98	6.52
	1RB-Middle (50)	1770 (132572)	6.89	6.79	6.43
		1745 (132322)	6.99	6.87	6.52
		1720 (132072)	7.08	6.93	6.63
	1RB-Low (0)	1770 (132572)	6.97	6.83	6.57
		1745 (132322)	7.06	6.92	6.47
		1720 (132072)	7.06	6.95	6.58
	50RB-High (50)	1770 (132572)	6.89	6.79	6.58
		1745 (132322)	7.02	6.92	6.56
		1720 (132072)	7.08	6.93	6.55
	50RB-Middle (25)	1770 (132572)	6.97	6.89	6.51
		1745 (132322)	7.05	6.93	6.46
		1720 (132072)	7.10	7.02	6.46
	50RB-Low (0)	1770 (132572)	6.98	6.83	6.53
		1745 (132322)	7.05	6.96	6.55
		1720 (132072)	7.14	7.02	6.67
	100RB (0)	1770 (132572)	6.94	6.79	6.49
		1745 (132322)	7.02	6.91	6.43
		1720 (132072)	7.12	6.98	6.55

LTE Band66 ANT0-Power Level F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	15.57	15.81	15.39
		1745 (132322)	15.70	15.99	15.03
		1710.7 (131979)	15.89	16.15	15.20
	1RB-Middle (3)	1779.3 (132665)	15.47	15.76	15.11
		1745 (132322)	15.68	15.72	15.04
		1710.7 (131979)	15.82	16.08	15.48
	1RB-Low (0)	1779.3 (132665)	15.71	15.76	15.27
		1745 (132322)	15.96	15.95	15.00
		1710.7 (131979)	15.81	15.95	15.44
	3RB-High (3)	1779.3 (132665)	15.49	15.52	15.34
		1745 (132322)	15.70	15.87	15.26
		1710.7 (131979)	15.73	16.06	15.37
	3RB-Middle (1)	1779.3 (132665)	15.54	15.71	14.99
		1745 (132322)	15.60	16.08	15.02
		1710.7 (131979)	15.70	16.23	14.99
	3RB-Low (0)	1779.3 (132665)	15.49	15.59	15.29
		1745 (132322)	15.94	16.17	15.30
		1710.7 (131979)	15.94	16.19	15.49
	6RB (0)	1779.3 (132665)	15.50	15.47	15.08
		1745 (132322)	15.79	16.03	14.89
		1710.7 (131979)	16.08	16.04	15.06
3MHz	1RB-High (14)	1778.5 (132657)	15.57	15.62	15.19
		1745 (132322)	15.86	15.99	14.83
		1711.5 (131987)	15.78	16.07	15.22
	1RB-Middle (7)	1778.5 (132657)	15.37	15.60	15.00
		1745 (132322)	15.56	15.72	15.08
		1711.5 (131987)	15.82	16.11	15.33
	1RB-Low (0)	1778.5 (132657)	15.47	15.72	15.36
		1745 (132322)	15.95	16.00	14.88
		1711.5 (131987)	15.84	16.04	15.28
	8RB-High (7)	1778.5 (132657)	15.40	15.70	15.14
		1745 (132322)	15.61	16.06	15.42
		1711.5 (131987)	16.00	15.91	15.41
	8RB-Middle (4)	1778.5 (132657)	15.44	15.70	15.09
		1745 (132322)	15.69	16.10	14.84
		1711.5 (131987)	15.83	16.04	14.98
	8RB-Low (0)	1778.5 (132657)	15.58	15.91	15.30
		1745 (132322)	15.87	15.88	15.41
		1711.5 (131987)	16.09	16.01	15.69
	15RB (0)	1778.5 (132657)	15.43	15.75	15.08
		1745 (132322)	15.58	15.95	14.81
		1711.5 (131987)	15.78	15.98	15.41

5MHz	1RB-High (24)	1777.5 (132647)	15.45	15.64	15.21
		1745 (132322)	15.62	16.03	14.83
		1712.5 (131997)	15.67	16.15	15.19
	1RB-Middle (12)	1777.5 (132647)	15.52	15.58	15.09
		1745 (132322)	15.52	15.73	15.23
		1712.5 (131997)	15.67	16.12	15.35
	1RB-Low (0)	1777.5 (132647)	15.70	15.68	15.43
		1745 (132322)	15.85	15.93	14.88
		1712.5 (131997)	15.78	15.86	15.15
	12RB-High (13)	1777.5 (132647)	15.52	15.48	15.45
		1745 (132322)	15.64	16.00	15.29
		1712.5 (131997)	16.02	15.90	15.26
	12RB-Middle (6)	1777.5 (132647)	15.56	15.95	15.14
		1745 (132322)	15.82	16.08	15.07
		1712.5 (131997)	15.77	16.33	15.11
	12RB-Low (0)	1777.5 (132647)	15.66	15.70	15.29
		1745 (132322)	15.85	16.04	15.39
		1712.5 (131997)	15.89	16.09	15.34
	25RB (0)	1777.5 (132647)	15.58	15.73	15.17
		1745 (132322)	15.54	15.74	14.98
		1712.5 (131997)	15.84	15.94	15.20
10MHz	1RB-High (49)	1775 (132622)	15.36	15.61	15.27
		1745 (132322)	15.59	15.83	15.08
		1715 (132022)	15.68	16.17	15.04
	1RB-Middle (24)	1775 (132622)	15.50	15.80	15.04
		1745 (132322)	15.77	16.00	15.27
		1715 (132022)	15.88	16.15	15.28
	1RB-Low (0)	1775 (132622)	15.45	15.79	15.40
		1745 (132322)	15.67	15.77	15.02
		1715 (132022)	15.88	16.04	15.12
	25RB-High (25)	1775 (132622)	15.48	15.72	15.29
		1745 (132322)	15.83	15.84	15.20
		1715 (132022)	15.73	16.01	15.15
	25RB-Middle (12)	1775 (132622)	15.66	16.05	15.05
		1745 (132322)	15.65	16.09	15.19
		1715 (132022)	15.99	16.16	14.98
	25RB-Low (0)	1775 (132622)	15.67	15.75	15.04
		1745 (132322)	15.71	15.94	15.21
		1715 (132022)	15.85	16.34	15.34
	50RB (0)	1775 (132622)	15.47	15.69	15.20
		1745 (132322)	15.81	15.74	14.98
		1715 (132022)	15.99	16.24	15.33

15MHz	1RB-High (74)	1772.5 (132597)	15.58	15.55	15.15
		1745 (132322)	15.62	15.86	14.84
		1717.5 (132047)	15.99	16.15	15.04
	1RB-Middle (37)	1772.5 (132597)	15.34	15.63	14.97
		1745 (132322)	15.63	15.79	15.24
		1717.5 (132047)	15.97	16.10	15.49
	1RB-Low (0)	1772.5 (132597)	15.51	15.74	15.34
		1745 (132322)	15.66	15.91	14.94
		1717.5 (132047)	15.65	16.18	15.47
	36RB-High (38)	1772.5 (132597)	15.25	15.72	15.46
		1745 (132322)	15.86	16.11	15.40
		1717.5 (132047)	15.91	15.85	15.41
	36RB-Middle (19)	1772.5 (132597)	15.65	15.82	15.14
		1745 (132322)	15.66	15.97	15.05
		1717.5 (132047)	16.01	16.02	15.05
	36RB-Low (0)	1772.5 (132597)	15.79	15.60	15.32
		1745 (132322)	15.79	15.95	15.29
		1717.5 (132047)	15.88	16.03	15.46
	75RB (0)	1772.5 (132597)	15.62	15.67	15.00
		1745 (132322)	15.56	16.05	14.84
		1717.5 (132047)	15.75	15.98	15.10
20MHz	1RB-High (99)	1770 (132572)	15.43	15.68	15.26
		1745 (132322)	15.76	16.01	14.98
		1720 (132072)	15.85	16.10	15.19
	1RB-Middle (50)	1770 (132572)	15.45	15.68	14.99
		1745 (132322)	15.66	15.86	15.20
		1720 (132072)	15.87	16.00	15.44
	1RB-Low (0)	1770 (132572)	15.61	15.77	15.30
		1745 (132322)	15.82	15.97	15.07
		1720 (132072)	15.82	16.04	15.32
	50RB-High (50)	1770 (132572)	15.44	15.67	15.32
		1745 (132322)	15.72	15.98	15.29
		1720 (132072)	15.87	15.99	15.26
	50RB-Middle (25)	1770 (132572)	15.61	15.90	15.16
		1745 (132322)	15.80	15.99	15.04
		1720 (132072)	15.90	16.19	15.04
	50RB-Low (0)	1770 (132572)	15.65	15.76	15.22
		1745 (132322)	15.80	16.06	15.27
		1720 (132072)	15.99	16.21	15.54
	100RB (0)	1770 (132572)	15.55	15.66	15.13
		1745 (132322)	15.74	15.94	14.98
		1720 (132072)	15.95	16.12	15.26

LTE Band71-Power Level A1/B1/C1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	695.5 (133447)	23.71	23.18	23.00
		680.5 (133297)	23.84	23.06	23.10
		665.5 (133147)	23.70	23.22	22.98
	1RB-Middle (12)	695.5 (133447)	23.99	23.06	23.09
		680.5 (133297)	23.82	23.16	23.25
		665.5 (133147)	23.76	23.05	23.13
	1RB-Low (0)	695.5 (133447)	23.74	23.14	23.03
		680.5 (133297)	23.74	23.13	23.13
		665.5 (133147)	23.82	23.02	23.09
	12RB-High (13)	695.5 (133447)	22.85	21.89	21.84
		680.5 (133297)	22.93	21.93	21.87
		665.5 (133147)	22.86	21.93	21.81
	12RB-Middle (6)	695.5 (133447)	22.89	21.93	21.92
		680.5 (133297)	22.87	21.82	21.88
		665.5 (133147)	22.89	21.88	21.94
	12RB-Low (0)	695.5 (133447)	22.78	21.85	21.89
		680.5 (133297)	22.78	21.88	21.84
		665.5 (133147)	22.90	21.86	21.88
	25RB (0)	695.5 (133447)	22.85	21.93	21.91
		680.5 (133297)	22.86	21.84	21.82
		665.5 (133147)	22.91	21.87	21.91
10MHz	1RB-High (49)	693 (132422)	23.65	22.94	21.97
		680.5 (133297)	23.68	23.05	21.99
		668 (133172)	23.62	22.96	21.90
	1RB-Middle (24)	693 (132422)	23.79	22.86	21.86
		680.5 (133297)	24.17	22.97	21.82
		668 (133172)	24.17	23.05	21.99
	1RB-Low (0)	693 (132422)	23.88	22.92	22.06
		680.5 (133297)	24.07	23.26	22.20
		668 (133172)	24.09	23.20	22.11
	25RB-High (25)	693 (132422)	22.89	21.88	20.86
		680.5 (133297)	22.94	21.86	20.89
		668 (133172)	22.69	21.83	20.80
	25RB-Middle (12)	693 (132422)	22.86	21.82	20.83
		680.5 (133297)	22.92	21.91	20.89
		668 (133172)	22.92	21.85	20.85
	25RB-Low (0)	693 (132422)	22.87	21.86	20.88
		680.5 (133297)	22.87	21.89	20.89
		668 (133172)	22.93	21.89	20.93
	50RB (0)	693 (132422)	22.75	21.86	20.71
		680.5 (133297)	22.82	21.85	20.74
		668 (133172)	22.93	21.94	20.72

15MHz	1RB-High (74)	690.5 (133397)	23.75	23.03	21.90
		680.5 (133297)	23.59	22.87	21.92
		670.5 (133197)	23.61	23.00	21.89
	1RB-Middle (37)	690.5 (133397)	23.50	23.06	22.21
		680.5 (133297)	23.73	23.01	21.85
		670.5 (133197)	23.80	23.02	21.72
	1RB-Low (0)	690.5 (133397)	23.78	23.13	21.95
		680.5 (133297)	23.75	23.14	21.92
		670.5 (133197)	24.02	23.09	21.90
	36RB-High (38)	690.5 (133397)	22.80	21.79	20.81
		680.5 (133297)	22.74	21.77	20.77
		670.5 (133197)	22.80	21.80	20.76
	36RB-Middle (19)	690.5 (133397)	22.75	21.68	20.82
		680.5 (133297)	22.66	21.71	20.77
		670.5 (133197)	22.74	21.77	20.81
	36RB-Low (0)	690.5 (133397)	22.68	21.76	20.85
		680.5 (133297)	22.74	21.75	20.76
		670.5 (133197)	22.73	21.82	20.71
	75RB (0)	690.5 (133397)	22.71	21.73	20.76
		680.5 (133297)	22.71	21.75	20.74
		670.5 (133197)	22.75	21.82	20.73
20MHz	1RB-High (99)	688 (133372)	23.64	23.06	21.94
		683 (133322)	23.67	23.06	21.89
		673 (133222)	23.66	23.02	21.76
	1RB-Middle (50)	688 (133372)	23.66	23.07	21.96
		683 (133322)	23.66	22.88	21.91
		673 (133222)	23.59	22.94	21.89
	1RB-Low (0)	688 (133372)	23.63	22.99	21.75
		683 (133322)	23.65	22.98	22.11
		673 (133222)	23.79	23.11	21.93
	50RB-High (50)	688 (133372)	22.66	21.70	20.76
		683 (133322)	22.77	21.72	20.85
		673 (133222)	22.75	21.71	20.75
	50RB-Middle (25)	688 (133372)	22.78	21.83	20.87
		683 (133322)	22.71	21.70	20.83
		673 (133222)	22.77	21.70	20.76
	50RB-Low (0)	688 (133372)	22.63	21.69	20.73
		683 (133322)	22.68	21.68	20.81
		673 (133222)	22.79	21.68	20.73
	100RB (0)	688 (133372)	22.74	21.80	20.76
		683 (133322)	22.67	21.69	20.75
		673 (133222)	22.91	21.72	20.85

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.

11.4 5G NR Measurement result

Maximum Target Power for Production Unit –Power Level D1/E1/F1

Mode	Band	Tune up (dBm)		
		Level D1 Receiver on (head scenario)- ENDC	**Level E1** Receiver off (Body scenario – hotspot off) - ENDC	**Level F1** Receiver off (Body scenario- hotspot on) - ENDC
ENDC	5G NR-n2	19	23.8	21.5
	5G NR-n5	19	19	24.5
	5G NR-n25	19	24	21.5
	5G NR-n41	18	20.5	15
	5G NR-n66	17.5	24.5	20
	5G NR-n71	19	19	24.5
	5G NR-n77	20	19	17

5G NR n2-Power Level D1								
SCS (kHz)	**NR BW (MHz)**	**Modulation**	**RB allocation**		**Frequency (MHz)**	**NR Test CH.**	**QRCT CH.**	**Power Results (dBm)**
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	381050	17.63
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	375550	17.57
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	17.74
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900	380000	378092	17.51
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	374092	17.48
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	370092	17.67
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1852.5	370500	370050	17.75
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	18.05
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	18.17
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	18.21
15	5	CP-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	18.56
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	18.48
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	18.59
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	18.56
15	5	CP-OFDM 64QAM	Edge_Full_Right	2@23	1852.5	370500	370050	18.51
15	5	CP-OFDM 64QAM	Edge_Full_Left	2@0	1852.5	370500	370050	18.64
15	5	CP-OFDM 64QAM	Inner_1RB_Right	1@23	1852.5	370500	370050	18.55
15	5	CP-OFDM 64QAM	Inner_1RB_Left	1@1	1852.5	370500	370050	18.62
15	5	CP-OFDM 64QAM	Outer_Full	25@0	1852.5	370500	370050	18.34
15	10	CP-OFDM 64QAM	Edge_Full_Left	2@0	1855	371000	370064	18.61
15	15	CP-OFDM 64QAM	Edge_Full_Left	2@0	1857.5	371500	370078	18.55

5G NR n2_Power Level E1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	381050	23.13
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	375550	23.14
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	23.23
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900	380000	378092	23.11
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	374092	23.05
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	370092	23.01
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1852.5	370500	370050	23.01
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	22.84
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	21.42
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	19.36
15	5	CP-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	22.75
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	22.22
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	20.83
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	17.46
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1852.5	370500	370050	22.61
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1852.5	370500	370050	22.71
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1852.5	370500	370050	23.08
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1852.5	370500	370050	23.07
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1852.5	370500	370050	22.61
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1855	371000	370064	23.17
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1857.5	371500	370078	23.05

5G NR n2-Power Level F1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	381050	19.66
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	375550	19.73
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	19.92
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900	380000	378092	19.64
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	374092	19.59
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	370092	19.81
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1852.5	370500	370050	19.85
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	20.37
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	20.35
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	20.31
15	5	CP-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	20.79
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	20.86
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	20.93
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	19.73
15	5	CP-OFDM 64QAM	Edge_Full_Right	2@23	1852.5	370500	370050	20.91
15	5	CP-OFDM 64QAM	Edge_Full_Left	2@0	1852.5	370500	370050	21.02
15	5	CP-OFDM 64QAM	Inner_1RB_Right	1@23	1852.5	370500	370050	20.92
15	5	CP-OFDM 64QAM	Inner_1RB_Left	1@1	1852.5	370500	370050	20.99
15	5	CP-OFDM 64QAM	Outer_Full	25@0	1852.5	370500	370050	20.77
15	10	CP-OFDM 64QAM	Edge_Full_Left	2@0	1855	371000	370064	21.01
15	15	CP-OFDM 64QAM	Edge_Full_Left	2@0	1857.5	371500	370078	20.94

5G NR n5-Power Level D1/E1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	168850	17.51
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	166850	17.59
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	164850	17.82
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839	167800	165892	17.52
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	165392	17.58
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834	166800	164892	17.67
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	826.5	165300	164850	17.62
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	826.5	165300	164850	18.02
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	826.5	165300	164850	18.01
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	826.5	165300	164850	18.51
15	5	CP-OFDM QPSK	Inner_Full	13@6	826.5	165300	164850	18.42
15	5	CP-OFDM 16QAM	Inner_Full	13@6	826.5	165300	164850	18.64
15	5	CP-OFDM 64QAM	Inner_Full	13@6	826.5	165300	164850	18.43
15	5	CP-OFDM 256QAM	Inner_Full	13@6	826.5	165300	164850	17.99
15	5	CP-OFDM 16QAM	Edge_Full_Right	2@23	826.5	165300	164850	18.17
15	5	CP-OFDM 16QAM	Edge_Full_Left	2@0	826.5	165300	164850	18.07
15	5	CP-OFDM 16QAM	Inner_1RB_Right	1@23	826.5	165300	164850	18.21
15	5	CP-OFDM 16QAM	Inner_1RB_Left	1@1	826.5	165300	164850	18.23
15	5	CP-OFDM 16QAM	Outer_Full	25@0	826.5	165300	164850	18.09
15	10	CP-OFDM 16QAM	Inner_Full	12@6	831.5	166300	164848	18.62
15	15	CP-OFDM 16QAM	Inner_Full	19@9	834	166800	164892	18.53

5G NR n5-Power Level F1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	168850	23.54
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	166850	23.79
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	164850	23.76
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839	167800	165892	23.71
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	165392	23.73
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834	166800	164892	23.75
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	836.5	167300	166850	23.51
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	836.5	167300	166850	23.47
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	836.5	167300	166850	21.98
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	836.5	167300	166850	19.96
15	5	CP-OFDM QPSK	Inner_Full	13@6	836.5	167300	166850	23.63
15	5	CP-OFDM 16QAM	Inner_Full	13@6	836.5	167300	166850	23.11
15	5	CP-OFDM 64QAM	Inner_Full	13@6	836.5	167300	166850	21.59
15	5	CP-OFDM 256QAM	Inner_Full	13@6	836.5	167300	166850	17.96
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	836.5	167300	166850	23.28
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	167300	166850	23.28
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	836.5	167300	166850	23.74
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	166850	23.75
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	836.5	167300	166850	23.37
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	836.5	167300	166364	23.74
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	836.5	167300	165878	23.73

5G NR n25-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	382050	17.63
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	376050	17.57
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	17.79
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1905	381000	379092	17.52
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	374592	17.47
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	370092	17.66
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1852.5	370500	370050	17.69
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	17.94
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	18.05
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	18.12
15	5	CP-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	18.27
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	18.39
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	18.56
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	18.45
15	5	CP-OFDM 64QAM	Edge_1RB_Right	1@24	1852.5	370500	370050	18.59
15	5	CP-OFDM 64QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	18.61
15	5	CP-OFDM 64QAM	Edge_Full_Right	2@23	1852.5	370500	370050	18.57
15	5	CP-OFDM 64QAM	Edge_Full_Left	2@0	1852.5	370500	370050	18.56
15	5	CP-OFDM 64QAM	Inner_1RB_Right	1@23	1852.5	370500	370050	18.62
15	5	CP-OFDM 64QAM	Inner_1RB_Left	1@1	1852.5	370500	370050	18.59
15	5	CP-OFDM 64QAM	Outer_Full	25@0	1852.5	370500	370050	18.34
15	10	CP-OFDM 64QAM	Inner_1RB_Right	1@23	1855	371000	370064	18.18
15	15	CP-OFDM 64QAM	Inner_1RB_Right	1@23	1857.5	371500	370078	18.22

5G NR n25-Power Level E1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	382050	23.07
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	376050	23.14
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	23.24
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1905	381000	379092	23.16
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	374592	23.09
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	370092	23.19
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1852.5	370500	370050	23.09
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	22.85
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	21.43
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	19.42
15	5	CP-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	22.45
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	21.95
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	20.48
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	17.47
15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1@24	1852.5	370500	370050	22.73
15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1852.5	370500	370050	22.67
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1852.5	370500	370050	22.77
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1852.5	370500	370050	22.75
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1852.5	370500	370050	23.13
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1852.5	370500	370050	23.10
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1852.5	370500	370050	22.75
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1855	371000	370064	23.21
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1857.5	371500	370078	23.02

5G NR n25-Power Level F1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	382050	19.81
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	376050	19.66
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	19.95
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1905	381000	379092	19.71
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	374592	19.62
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	370092	19.87
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1852.5	370500	370050	19.71
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	20.11
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	20.25
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	20.35
15	5	CP-OFDM QPSK	Inner_Full	12@6	1852.5	370500	370050	20.62
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1852.5	370500	370050	20.73
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1852.5	370500	370050	20.88
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1852.5	370500	370050	19.60
15	5	CP-OFDM 64QAM	Edge_1RB_Right	1@24	1852.5	370500	370050	21.09
15	5	CP-OFDM 64QAM	Edge_1RB_Left	1@0	1852.5	370500	370050	21.11
15	5	CP-OFDM 64QAM	Edge_Full_Right	2@23	1852.5	370500	370050	21.14
15	5	CP-OFDM 64QAM	Edge_Full_Left	2@0	1852.5	370500	370050	21.17
15	5	CP-OFDM 64QAM	Inner_1RB_Right	1@23	1852.5	370500	370050	21.13
15	5	CP-OFDM 64QAM	Inner_1RB_Left	1@1	1852.5	370500	370050	21.12
15	5	CP-OFDM 64QAM	Outer_Full	25@0	1852.5	370500	370050	20.89
15	10	CP-OFDM 64QAM	Edge_Full_Left	2@0	1855	371000	370064	20.81
15	15	CP-OFDM 64QAM	Edge_Full_Left	2@0	1857.5	371500	370078	20.91

5G NR n41-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	534162	16.18
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	525462	16.23
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	516762	16.51
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	508065	16.60
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	499368	16.77
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	518172	16.19
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	513471	16.26
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	508770	16.21
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	504072	16.49
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	499374	16.55
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2506.02	501204	499368	16.56
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2506.02	501204	499368	17.15
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2506.02	501204	499368	17.12
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2506.02	501204	499368	17.24
30	20	CP-OFDM QPSK	Inner_Full	25@12	2506.02	501204	499368	17.47
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2506.02	501204	499368	17.48
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2506.02	501204	499368	17.78
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2506.02	501204	499368	15.90
30	20	CP-OFDM 64QAM	Edge_Full_Right	2@49	2506.02	501204	499368	17.69
30	20	CP-OFDM 64QAM	Edge_Full_Left	2@0	2506.02	501204	499368	17.71
30	20	CP-OFDM 64QAM	Inner_1RB_Right	1@49	2506.02	501204	499368	17.74
30	20	CP-OFDM 64QAM	Inner_1RB_Left	1@1	2506.02	501204	499368	17.84
30	20	CP-OFDM 64QAM	Outer_Full	50@0	2506.02	501204	499368	17.45
30	40	CP-OFDM 64QAM	Inner_1RB_Left	1@1	2516.01	503202	199386	17.73
30	60	CP-OFDM 64QAM	Inner_1RB_Left	1@1	2526	505200	499368	17.63

5G NR n41-Power Level E1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	534162	18.92
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	525462	19.05
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	516762	19.35
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	508065	19.32
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	499368	19.51
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	518172	18.85
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	513471	18.94
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	508770	18.98
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	504072	19.17
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	499374	19.17
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2506.02	501204	499368	19.33
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2506.02	501204	499368	19.79
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2506.02	501204	499368	19.82
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2506.02	501204	499368	19.91
30	20	CP-OFDM QPSK	Inner_Full	25@12	2506.02	501204	499368	20.22
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2506.02	501204	499368	20.33
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2506.02	501204	499368	20.42
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2506.02	501204	499368	18.58
30	20	CP-OFDM 64QAM	Edge_Full_Right	2@49	2506.02	501204	499368	20.34
30	20	CP-OFDM 64QAM	Edge_Full_Left	2@0	2506.02	501204	499368	20.46
30	20	CP-OFDM 64QAM	Inner_1RB_Right	1@49	2506.02	501204	499368	20.37
30	20	CP-OFDM 64QAM	Inner_1RB_Left	1@1	2506.02	501204	499368	20.48
30	20	CP-OFDM 64QAM	Outer_Full	50@0	2506.02	501204	499368	20.23
30	40	CP-OFDM 64QAM	Inner_1RB_Left	1@1	2516.01	503202	199386	20.39
30	60	CP-OFDM 64QAM	Inner_1RB_Left	1@1	2526	505200	499368	20.32

5G NR n41-Power Level F1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	534162	13.92
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	525462	13.96
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	516762	14.20
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	508065	14.28
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	499368	14.42
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	518172	13.93
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	513471	13.99
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	508770	13.95
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	504072	14.18
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	499374	14.23
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2506.02	501204	499368	14.04
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2506.02	501204	499368	14.54
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2506.02	501204	499368	14.52
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2506.02	501204	499368	14.62
30	20	CP-OFDM QPSK	Inner_Full	25@12	2506.02	501204	499368	14.81
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2506.02	501204	499368	14.82
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2506.02	501204	499368	14.98
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2506.02	501204	499368	13.48
30	20	CP-OFDM 64QAM	Edge_Full_Right	2@49	2506.02	501204	499368	14.93
30	20	CP-OFDM 64QAM	Edge_Full_Left	2@0	2506.02	501204	499368	14.92
30	20	CP-OFDM 64QAM	Inner_1RB_Right	1@49	2506.02	501204	499368	14.93
30	20	CP-OFDM 64QAM	Inner_1RB_Left	1@1	2506.02	501204	499368	14.92
30	20	CP-OFDM 64QAM	Outer_Full	50@0	2506.02	501204	499368	14.80
30	40	CP-OFDM 64QAM	Inner_1RB_Left	1@1	2516.01	503202	199386	14.91
30	60	CP-OFDM 64QAM	Inner_1RB_Left	1@1	2526	505200	499368	14.95

5G NR n66-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	355050	15.92
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	348550	16.08
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	342050	16.27
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1760	354000	352092	15.75
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	15.92
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1730	344000	342092	16.24
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1712.5	342500	342050	16.14
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1712.5	342500	342050	16.14
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1712.5	342500	342050	16.44
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1712.5	342500	342050	16.60
15	5	CP-OFDM QPSK	Inner_Full	13@6	1712.5	342500	342050	16.98
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1712.5	342500	342050	16.98
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1712.5	342500	342050	16.77
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1712.5	342500	342050	16.72
15	5	CP-OFDM 16QAM	Edge_1RB_Right	1@24	1712.5	342500	342050	16.84
15	5	CP-OFDM 16QAM	Edge_1RB_Left	1@0	1712.5	342500	342050	17.04
15	5	CP-OFDM 16QAM	Edge_Full_Right	2@23	1712.5	342500	342050	16.90
15	5	CP-OFDM 16QAM	Edge_Full_Left	2@0	1712.5	342500	342050	17.12
15	5	CP-OFDM 16QAM	Inner_1RB_Right	1@23	1712.5	342500	342050	16.90
15	5	CP-OFDM 16QAM	Inner_1RB_Left	1@1	1712.5	342500	342050	16.85
15	5	CP-OFDM 16QAM	Outer_Full	25@0	1712.5	342500	342050	16.82
15	10	CP-OFDM 16QAM	Inner_Full	13@6	1715	343000	342064	16.84
15	15	CP-OFDM 16QAM	Inner_Full	13@6	1717.5	343500	342078	16.95

5G NR n66-Power Level E1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	355050	22.91
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	348550	23.07
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	342050	23.11
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1760	354000	352092	22.90
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	23.16
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1730	344000	342092	23.15
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1745	349000	347092	22.83
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	1745	349000	347092	22.84
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	1745	349000	347092	21.25
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	1745	349000	347092	19.09
15	20	CP-OFDM QPSK	Inner_Full	53@26	1745	349000	347092	22.90
15	20	CP-OFDM 16QAM	Inner_Full	53@26	1745	349000	347092	22.50
15	20	CP-OFDM 64QAM	Inner_Full	53@26	1745	349000	347092	20.80
15	20	CP-OFDM 256QAM	Inner_Full	53@26	1745	349000	347092	17.17
15	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1@105	1745	349000	347092	22.72
15	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	1745	349000	347092	22.87
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1745	349000	347092	22.61
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	347092	22.70
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1745	349000	347092	23.28
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	347092	23.35
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	1745	349000	347092	22.58
15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	342064	23.81
15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	342078	23.41

5G NR n66-Power Level F1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	355050	18.02
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	348550	18.11
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	342050	18.39
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1760	354000	352092	18.01
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	347092	18.04
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1730	344000	342092	18.31
15	5	DFT-s-OFDM PI/2 BPSK	Inner_Full	12@6	1712.5	342500	342050	18.24
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1712.5	342500	342050	18.44
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1712.5	342500	342050	18.69
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1712.5	342500	342050	18.75
15	5	CP-OFDM QPSK	Inner_Full	13@6	1712.5	342500	342050	19.09
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1712.5	342500	342050	19.14
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1712.5	342500	342050	18.96
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1712.5	342500	342050	17.51
15	5	CP-OFDM 16QAM	Edge_1RB_Right	1@24	1712.5	342500	342050	19.11
15	5	CP-OFDM 16QAM	Edge_1RB_Left	1@0	1712.5	342500	342050	19.04
15	5	CP-OFDM 16QAM	Edge_Full_Right	2@23	1712.5	342500	342050	19.13
15	5	CP-OFDM 16QAM	Edge_Full_Left	2@0	1712.5	342500	342050	19.12
15	5	CP-OFDM 16QAM	Inner_1RB_Right	1@23	1712.5	342500	342050	19.12
15	5	CP-OFDM 16QAM	Inner_1RB_Left	1@1	1712.5	342500	342050	19.07
15	5	CP-OFDM 16QAM	Outer_Full	25@0	1712.5	342500	342050	19.11
15	10	CP-OFDM 16QAM	Inner_Full	13@6	1715	343000	342064	19.11
15	15	CP-OFDM 16QAM	Inner_Full	13@6	1717.5	343500	342078	19.13

5G NR n71-Power Level D1/E1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	695.5	139100	138650	17.45
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	680.5	136100	135650	17.73
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	665.5	133100	132650	17.62
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	688	137600	135692	17.53
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	680.5	136100	134192	17.52
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	673	134600	132692	17.57
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	680.5	136100	135650	17.49
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	680.5	136100	135650	17.89
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	680.5	136100	135650	17.86
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	680.5	136100	135650	18.06
15	5	CP-OFDM QPSK	Inner_Full	13@6	680.5	136100	135650	18.24
15	5	CP-OFDM 16QAM	Inner_Full	13@6	680.5	136100	135650	18.37
15	5	CP-OFDM 64QAM	Inner_Full	13@6	680.5	136100	135650	18.45
15	5	CP-OFDM 256QAM	Inner_Full	13@6	680.5	136100	135650	17.88
15	5	CP-OFDM 64QAM	Edge_1RB_Right	1@24	680.5	136100	135650	18.76
15	5	CP-OFDM 64QAM	Edge_1RB_Left	1@0	680.5	136100	135650	18.86
15	5	CP-OFDM 64QAM	Edge_Full_Right	2@23	680.5	136100	135650	18.22
15	5	CP-OFDM 64QAM	Edge_Full_Left	2@0	680.5	136100	135650	18.37
15	5	CP-OFDM 64QAM	Inner_1RB_Right	1@23	680.5	136100	135650	18.79
15	5	CP-OFDM 64QAM	Inner_1RB_Left	1@1	680.5	136100	135650	18.95
15	5	CP-OFDM 64QAM	Outer_Full	25@0	680.5	136100	135650	18.49
15	10	CP-OFDM 64QAM	Inner_1RB_Left	1@1	680.5	136100	135164	18.87
15	15	CP-OFDM 64QAM	Inner_1RB_Left	1@1	680.5	136100	134678	18.67

5G NR n77-Power Level D1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	664054	19.40
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	660588	19.42
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	657121	19.48
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	653655	19.50
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	650188	19.30
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	646722	18.82
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	658724	19.02
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	656324	19.19
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	653924	19.17
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	651524	19.10
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	649124	18.99
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	646724	18.74
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3814.000	654267	653655	19.35
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3814.000	654267	653655	19.69
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3814.000	654267	653655	19.65
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3814.000	654267	653655	19.67
30	20	CP-OFDM QPSK	Inner_Full	25@12	3814.000	654267	653655	19.94
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3814.000	654267	653655	19.92
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3814.000	654267	653655	19.99
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3814.000	654267	653655	18.39
30	20	CP-OFDM 64QAM	Edge_Full_Right	2@49	3814.000	654267	653655	19.74
30	20	CP-OFDM 64QAM	Edge_Full_Left	2@0	3814.000	654267	653655	19.70
30	20	CP-OFDM 64QAM	Inner_1RB_Right	1@49	3814.000	654267	653655	19.98
30	20	CP-OFDM 64QAM	Inner_1RB_Left	1@1	3814.000	654267	653655	19.95
30	20	CP-OFDM 64QAM	Outer_Full	51@0	3814.000	654267	653655	19.98
30	40	CP-OFDM 64QAM	Inner_Full	50@25	3768.000	651200	649928	19.84
30	50	CP-OFDM 64QAM	Inner_Full	64@32	3771.000	651400	649824	19.68
30	60	CP-OFDM 64QAM	Inner_Full	81@40	3774.000	651600	649656	19.75
30	80	CP-OFDM 64QAM	Inner_Full	108@54	3780.000	652000	649396	19.66
30	90	CP-OFDM 64QAM	Inner_Full	120@60	3783.000	652200	649260	19.64

5G NR n77-Power Level E1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	664054	18.26
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	660588	18.31
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	657121	18.36
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	653655	18.50
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	650188	18.14
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	646722	17.70
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	658724	18.00
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	656324	18.10
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	653924	18.16
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	651524	18.04
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	649124	17.83
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	646724	17.62
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3814.000	654267	653655	18.30
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3814.000	654267	653655	18.67
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3814.000	654267	653655	18.65
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3814.000	654267	653655	18.51
30	20	CP-OFDM QPSK	Inner_Full	25@12	3814.000	654267	653655	18.75
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3814.000	654267	653655	18.88
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3814.000	654267	653655	18.89
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3814.000	654267	653655	17.19
30	20	CP-OFDM 64QAM	Edge_Full_Right	2@49	3814.000	654267	653655	18.59
30	20	CP-OFDM 64QAM	Edge_Full_Left	2@0	3814.000	654267	653655	18.52
30	20	CP-OFDM 64QAM	Inner_1RB_Right	1@49	3814.000	654267	653655	18.83
30	20	CP-OFDM 64QAM	Inner_1RB_Left	1@1	3814.000	654267	653655	18.87
30	20	CP-OFDM 64QAM	Outer_Full	51@0	3814.000	654267	653655	18.84
30	40	CP-OFDM 64QAM	Inner_Full	50@25	3768.000	651200	649928	18.71
30	50	CP-OFDM 64QAM	Inner_Full	64@32	3771.000	651400	649824	18.55
30	60	CP-OFDM 64QAM	Inner_Full	81@40	3774.000	651600	649656	18.66
30	80	CP-OFDM 64QAM	Inner_Full	108@54	3780.000	652000	649396	18.49
30	90	CP-OFDM 64QAM	Inner_Full	120@60	3783.000	652200	649260	18.64

5G NR n77-Power Level F1								
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (MHz)	NR Test CH.	QRCT CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	664054	16.27
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	660588	16.23
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	657121	16.37
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	653655	16.35
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	650188	16.22
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	646722	16.01
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	658724	16.02
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	656324	16.05
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	653924	16.08
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	651524	16.11
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	649124	15.97
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	646724	15.82
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3866.000	657733	657121	16.31
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3866.000	657733	657121	16.54
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3866.000	657733	657121	16.47
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3866.000	657733	657121	16.52
30	20	CP-OFDM QPSK	Inner_Full	25@12	3866.000	657733	657121	16.71
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3866.000	657733	657121	16.69
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3866.000	657733	657121	16.82
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3866.000	657733	657121	16.89
30	20	CP-OFDM 256QAM	Edge_Full_Right	2@49	3866.000	657733	657121	16.98
30	20	CP-OFDM 256QAM	Edge_Full_Left	2@0	3866.000	657733	657121	16.99
30	20	CP-OFDM 256QAM	Inner_1RB_Right	1@49	3866.000	657733	657121	16.95
30	20	CP-OFDM 256QAM	Inner_1RB_Left	1@1	3866.000	657733	657121	16.93
30	20	CP-OFDM 256QAM	Outer_Full	51@0	3866.000	657733	657121	16.79
30	40	CP-OFDM 256QAM	Inner_Full	50@25	3768.000	651200	649928	16.61
30	50	CP-OFDM 256QAM	Inner_Full	64@32	3771.000	651400	649824	16.46
30	60	CP-OFDM 256QAM	Inner_Full	81@40	3774.000	651600	649656	16.50
30	80	CP-OFDM 256QAM	Inner_Full	108@54	3780.000	652000	649396	16.47
30	90	CP-OFDM 256QAM	Inner_Full	120@60	3783.000	652200	649260	16.37

11.5 Wi-Fi and BT Measurement result

The maximum output power of BT antenna is 9.53dBm.
The maximum tune up of BT antenna is 9.7dBm.

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

Receiver on (head scenario-cellular on)-Power Level A1

802.11b	
Channel\data rate	1Mbps
11(2462MHz)	14.19
6(2437(MHz)	14.47
1(2412MHz)	13.90
Tune up	15.00
802.11g	
Channel\data rate	6Mbps
11(2462MHz)	12.16
6(2437(MHz)	12.53
1(2412MHz)	12.11
Tune up	13.00
802.11n-20MHz	
Channel\data rate	MCS0
11(2462MHz)	12.00
6(2437(MHz)	12.30
1(2412MHz)	11.82
Tune up	13.00
802.11n-40MHz	
Channel\data rate	MCS0
9(2452MHz)	12.71
6(2437MHz)	12.96
3(2422MHz)	12.91
Tune up	13.00

Receiver on/off (head/body scenario -cellular off and Hotspot off)-Power Level B1

802.11b	
Channel\data rate	1Mbps
11(2462MHz)	21.51
6(2437(MHz)	21.78
1(2412MHz)	21.25
Tune up	22.00
802.11g	
Channel\data rate	6Mbps
11(2462MHz)	18.75
6(2437(MHz)	19.00
1(2412MHz)	18.48
Tune up	19.50
802.11n-20MHz	
Channel\data rate	MCS0
11(2462MHz)	17.34
6(2437(MHz)	17.63
1(2412MHz)	17.08
Tune up	18.00
802.11n-40MHz	
Channel\data rate	MCS0
9(2452MHz)	17.05
6(2437MHz)	17.96
3(2422MHz)	17.38
Tune up	18.50

Receiver off (Body scenario –hotspot on and cellular on)-Power Level C1

802.11b	
Channel\data rate	1Mbps
11(2462MHz)	16.18
6(2437MHz)	16.43
1(2412MHz)	16.01
Tune up	17.00
802.11g	
Channel\data rate	6Mbps
11(2462MHz)	14.13
6(2437MHz)	14.14
1(2412MHz)	13.73
Tune up	15.00
802.11n-20MHz	
Channel\data rate	MCS0
11(2462MHz)	13.96
6(2437MHz)	13.95
1(2412MHz)	13.69
Tune up	15.00
802.11n-40MHz	
Channel\data rate	MCS0
9(2452MHz)	14.34
6(2437MHz)	14.93
3(2422MHz)	14.67
Tune up	15.00

Receiver off (Body scenario –hotspot off and cellular on)-Power Level D1

802.11b	
Channel\data rate	1Mbps
11(2462MHz)	9.89
6(2437MHz)	9.92
1(2412MHz)	9.53
Tune up	11.00
802.11g	
Channel\data rate	6Mbps
11(2462MHz)	8.26
6(2437MHz)	8.30
1(2412MHz)	8.02
Tune up	10.00
802.11n-20MHz	
Channel\data rate	MCS0
11(2462MHz)	8.06
6(2437MHz)	8.09
1(2412MHz)	8.01
Tune up	10.00
802.11n-40MHz	
Channel\data rate	MCS0
9(2452MHz)	8.49
6(2437MHz)	8.50
3(2422MHz)	8.38
Tune up	10.00

The average conducted power for Wi-Fi 5G is as following:

Receiver on (head scenario-cellular on)-Power Level A1

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	10.84
40(5200 MHz)	11.04
44(5220 MHz)	11.17
48(5240 MHz)	11.54
52(5260 MHz)	11.55
56(5280 MHz)	11.34
60(5300 MHz)	11.07
64(5320 MHz)	10.58
100(5500 MHz)	11.78
104(5520 MHz)	10.86
108(5540 MHz)	10.51
112(5560 MHz)	10.21
116(5580 MHz)	10.33
120(5600 MHz)	10.75
124(5620 MHz)	11.36
128(5640 MHz)	11.83
Tune up	12.00
132(5660 MHz)	11.77
136(5680 MHz)	11.37
140(5700 MHz)	11.17
144(5720 MHz)	11.09
149(5745 MHz)	11.08
153(5765 MHz)	11.51
157(5785 MHz)	12.08
161(5805 MHz)	12.64
165(5825 MHz)	13.36
Tune up	13.50

Receiver on/off (head/body scenario -cellular off and Hotspot off)-Power Level B1

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	17.60
40(5200 MHz)	17.82
44(5220 MHz)	17.76
48(5240 MHz)	17.91
52(5260 MHz)	18.04
56(5280 MHz)	17.80
60(5300 MHz)	17.74
64(5320 MHz)	17.65
100(5500 MHz)	18.48
104(5520 MHz)	18.12
108(5540 MHz)	17.53
112(5560 MHz)	17.30
116(5580 MHz)	17.50
120(5600 MHz)	17.48
124(5620 MHz)	17.80
128(5640 MHz)	17.85
132(5660 MHz)	17.98
136(5680 MHz)	17.67
140(5700 MHz)	17.35
144(5720 MHz)	17.30
149(5745 MHz)	17.30
153(5765 MHz)	17.94
157(5785 MHz)	17.90
161(5805 MHz)	18.47
165(5825 MHz)	17.72
Tune up	18.50

Receiver off(Body scenario –hotspot on and cellular on)-Power Level C1

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	9.21
40(5200 MHz)	9.42
44(5220 MHz)	9.50
48(5240 MHz)	9.69
52(5260 MHz)	9.94
56(5280 MHz)	9.61
60(5300 MHz)	9.48
64(5320 MHz)	9.10
100(5500 MHz)	10.01
104(5520 MHz)	9.33
108(5540 MHz)	8.60
112(5560 MHz)	8.63
116(5580 MHz)	8.62
120(5600 MHz)	9.22
124(5620 MHz)	9.67
128(5640 MHz)	10.06
Tune up	10.50
132(5660 MHz)	9.97
136(5680 MHz)	9.65
140(5700 MHz)	9.22
144(5720 MHz)	9.09
149(5745 MHz)	9.09
153(5765 MHz)	9.60
157(5785 MHz)	10.19
161(5805 MHz)	10.75
165(5825 MHz)	11.22
Tune up	11.50

Receiver off(Body scenario –hotspot off and cellular on)-Power Level D1

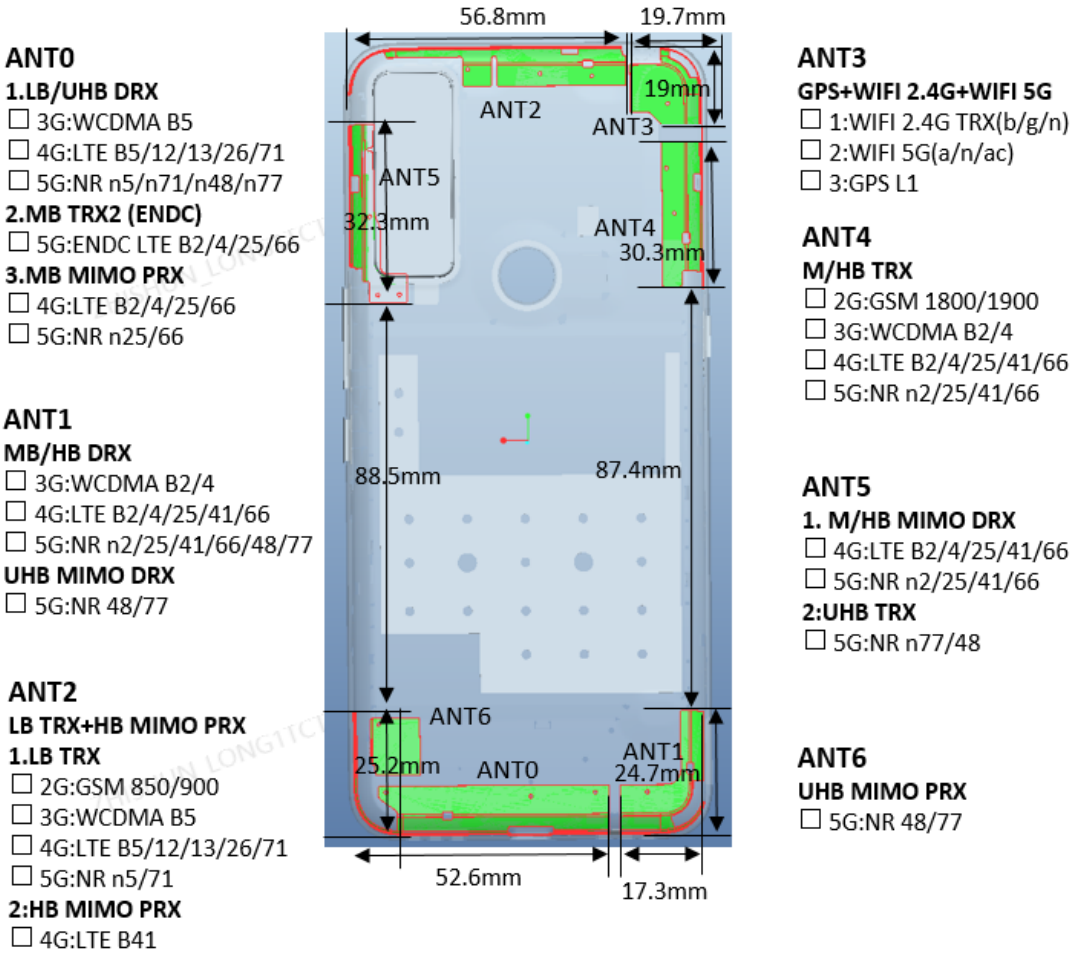
802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	12.35
40(5200 MHz)	12.58
44(5220 MHz)	12.73
48(5240 MHz)	13.16
52(5260 MHz)	13.42
Tune up	13.50
56(5280 MHz)	13.17
60(5300 MHz)	12.88
64(5320 MHz)	12.32
100(5500 MHz)	13.67
104(5520 MHz)	12.59
108(5540 MHz)	12.18
112(5560 MHz)	11.83
116(5580 MHz)	11.97
120(5600 MHz)	12.46
124(5620 MHz)	13.18
128(5640 MHz)	13.73
Tune up	14.00
132(5660 MHz)	13.66
136(5680 MHz)	13.19
140(5700 MHz)	12.96
144(5720 MHz)	12.86
149(5745 MHz)	12.81
153(5765 MHz)	13.23
157(5785 MHz)	13.98
161(5805 MHz)	14.70
165(5825 MHz)	14.86
Tune up	15.00

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



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
ANT0	Yes	Yes	Yes	Yes	No	Yes
ANT2	Yes	Yes	Yes	No	Yes	No
ANT3	Yes	Yes	Yes	Yes	Yes	No
ANT4	Yes	Yes	Yes	No	Yes	No
ANT5	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	9.7	9.33	YES
		Body	19.20	9.7	9.33	YES
2.4GHz WLAN	2.45	Head	9.58	22	158.48	No
		Body	19.17	22	158.48	No
5GHz WLAN	5.2	Head	6.58	18.5	70.79	No
		Body	13.16	18.5	70.79	No
	5.3	Head	6.52	18.5	70.79	No
		Body	13.03	18.5	70.79	No
	5.6	Head	6.34	18.5	70.79	No
		Body	12.68	18.5	70.79	No
	5.8	Head	6.23	18.5	70.79	No
		Body	12.46	18.5	70.79	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, Touch (GSM1900)	0.89	0.20	**1.09**
Highest SAR value for Body	Rear 10mm (ENDC 5A-n77A)	1.11	0.17	**1.28**

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, Touch (GSM1900)	0.89	0.14	**1.03**
Highest SAR value for Body	Rear 10mm (ENDC 5A-n77A)	1.11	0.08	**1.19**

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

	Position	Main antenna	BT	Sum
Highest SAR value for Head	Right head, Touch (GSM1900)	0.89	0.39[1]	**1.28**
Highest SAR value for Body	Rear 10mm (ENDC 5A-n77A)	1.11	0.19[1]	**1.30**

[1] - Estimated SAR for Bluetooth (see the table 13.8)

Table 13.4: The sum of SAR values for Main antenna + Wifi2.4G +BT

	Position	Main antenna	WiFi-2.4G	BT	Sum
Highest SAR value for Head	Right head, Touch (GSM1900)	0.89	0.20	0.39[1]	**1.48**
Highest SAR value for Body	Rear 10mm (ENDC 5A-n77A)	1.11	0.17	0.19[1]	**1.47**

[1] - Estimated SAR for Bluetooth (see the table 13.8)

Table 13.5: The sum of SAR values for Main antenna + Wifi5G +BT

	Position	Main antenna	WiFi-5G	BT	Sum
Highest SAR value for Head	Right head, Touch (GSM1900)	0.89	0.14	0.39[1]	**1.42**
Highest SAR value for Body	Rear 10mm (ENDC 5A-n77A)	1.11	0.08	0.19[1]	**1.38**

[1] - Estimated SAR for Bluetooth (see the table 13.8)

Table 13.6: The sum of SAR values for Phablet

	Position	Main antenna	WiFi-5G	BT	Sum
Highest SAR value for Body	Left 0mm (LTE B41-PC2)	3.50	0.29	0.16[1]	**3.95**
Highest SAR value for Body	Rear 0mm (ENDC 13A-n66A)	3.28	0.46	0.16[1]	**3.90**

[1] - Estimated SAR for Bluetooth (see the table 13.8)

Table 13.7: The SAR values for ENDC

	LTE	NR	Mode	Position	Reported SAR 1g(W/kg)
ENDC	LTE Band 2-ANT4	n5	Head	Right Cheek	**0.82(0.57+0.25)**
			Body	Rear 15mm	**0.59(0.51+0.08)**
		n71	Head	Right Cheek	**0.69(0.57+0.12)**
			Body	Top 10mm	**0.61(0.20+0.41)**
	LTE Band 2-ANT0	n41	Head	Right Cheek	**0.80(0.07+0.73)**
			Body	Rear 10mm	**0.53(0.27+0.26)**
		n66	Head	Right Cheek	**0.54(0.07+0.47)**
			Body	Top 10mm	**0.71(0.52+0.19)**
		n77	Head	Right Cheek	**0.80(0.12+0.68)**
			Body	Rear 10mm	**0.98(0.27+0.71)**
	LTE Band 5	n2	Head	Right Cheek	**0.75(0.19+0.56)**
			Body	Rear 15mm	**0.85(0.07+0.78)**
		n66	Head	Right Cheek	**0.66(0.19+0.47)**
			Body	Rear 10mm	**0.77(0.40+0.37)**
		n77	Head	Left Cheek	**0.91(0.23+0.68)**
			Body	Rear 10mm	**1.11(0.40+0.71)**
	LTE Band 12	n66	Head	Right Cheek	**0.60(0.13+0.47)**
			Body	Rear 10mm	**0.76(0.39+0.37)**
	LTE Band 13	n2	Head	Right Cheek	**0.74(0.18+0.56)**
			Body	Rear 15mm	**0.86(0.08+0.78)**
		n66	Head	Right Cheek	**0.65(0.18+0.47)**
			Body	Rear 10mm	**0.76(0.39+0.37)**
		n77	Head	Left Cheek	**0.91(0.23+0.68)**
			Body	Rear 10mm	**1.10(0.39+0.71)**
	LTE Band 66-ANT4	n5	Head	Right Cheek	**0.68(0.43+0.25)**
			Body	Rear 10mm	**0.55(0.18+0.37)**
		n71	Head	Right Cheek	**0.55(0.43+0.12**
			Body	Rear 10mm	**0.59(0.18+0.41)**
	LTE Band 66-ANT0	n2	Head	Right Cheek	**0.65(0.09+0.56)**
			Body	Rear 15mm	**0.78(0.00+0.78)**
		n25	Head	Right Cheek	**0.63(0.09+0.54)**
			Body	Rear 15mm	**0.78(0.00+0.78)**
		n41	Head	Right Cheek	**0.82(0.09+0.73)**
			Body	Rear 10mm	**0.62(0.36+0.26)**
		n77	Head	Left Cheek	**0.77(0.09+0.68)**
			Body	Rear 10mm	**1.07(0.36+0.71)**

Table 13.8: Estimated SAR for Bluetooth

Mode/Band	F (GHz)	Position	Distance (mm)	Upper limit of power *		Estimated (W/kg)
				dBm	mW	
Bluetooth	2.441	Head	5	9.7	9.33	0.39(1g)
Bluetooth	2.441	Body	10	9.7	9.33	0.19(1g)
Bluetooth	2.441	Body	5	9.7	9.33	0.16(10g)

* - Maximum possible output power declared by manufacturer

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 and x = 18.75 for 10-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 1:4
WCDMA&LTE FDD&5G NR	1:1
LTE TDD	1:1.58 or 1:2.37

14.1 SAR results for 2G/3G/4G

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

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	Left	Cheek	/	31.75	33.50	0.321	**0.48**	0.566	**0.85**	-0.09
251	848.8	Left	Tilt	/	31.79	33.50	0.308	**0.46**	0.620	**0.92**	0.07
190	836.6	Left	Tilt	Fig.1	31.75	33.50	0.317	**0.47**	0.627	**0.94**	0.03
128	824.2	Left	Tilt	/	31.64	33.50	0.305	**0.47**	0.609	**0.93**	-0.08
190	836.6	Right	Cheek	/	31.75	33.50	0.316	**0.47**	0.555	**0.83**	-0.13
190	836.6	Right	Tilt	/	31.75	33.50	0.277	**0.41**	0.545	**0.82**	0.05

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Mode (number of timeslots)	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (2)	Front	/	29.18	29.50	0.093	**0.10**	0.159	**0.17**	0.03
190	836.6	GPRS (2)	Rear	/	29.18	29.50	0.116	**0.12**	0.197	**0.21**	-0.09
190	836.6	GPRS (2)	Left	/	29.18	29.50	0.032	**0.03**	0.051	**0.05**	0.12
190	836.6	GPRS (2)	Right	/	29.18	29.50	0.074	**0.08**	0.125	**0.13**	0.03
251	848.8	GPRS (2)	Top	/	29.29	29.50	0.109	**0.11**	0.212	**0.22**	0.07
190	836.6	GPRS (2)	Top	Fig.2	29.18	29.50	0.131	**0.14**	0.254	**0.27**	0.08
128	824.2	GPRS (2)	Top	/	29.80	29.50	0.114	**0.11**	0.211	**0.20**	-0.03
190	836.6	EGPRS (2)	Top	/	29.22	29.50	0.121	**0.13**	0.235	**0.25**	0.13

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

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	Left	Cheek	/	26.14	27.00	0.142	**0.17**	0.241	**0.29**	0.02
661	1880	Left	Tilt	/	26.14	27.00	0.132	**0.16**	0.238	**0.29**	-0.04
512	1850.2	Right	Cheek	Fig.3	25.88	27.00	0.362	**0.47**	0.697	**0.90**	0.09
661	1880	Right	Cheek	/	26.14	27.00	0.313	**0.38**	0.607	**0.74**	0.03
810	1909.8	Right	Cheek	/	26.11	27.00	0.255	**0.26**	0.498	**0.61**	-0.09
661	1880	Right	Tilt	/	26.14	27.00	0.129	**0.16**	0.255	**0.31**	0.07

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Mode (number of timeslots)	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (2)	Front	/	27.93	28.70	0.073	**0.07**	0.210	**0.25**	0.12
512	1850.2	GPRS (2)	Rear	Fig.4	28.42	28.70	0.182	**0.18**	0.569	**0.61**	-0.09
661	1880	GPRS (2)	Rear	/	27.93	28.70	0.159	**0.16**	0.493	**0.59**	0.03
810	1909.8	GPRS (2)	Rear	/	27.15	28.70	0.067	**0.07**	0.209	**0.30**	-0.07
512	1850.2	EGPRS (2)	Rear	/	28.46	28.70	0.165	**0.17**	0.523	**0.55**	0.12

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

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

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Mode (number of timeslots)	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (2)	Front	/	25.14	26.00	0.109	**0.13**	0.162	**0.20**	0.11
512	1850.2	GPRS (2)	Rear	Fig.5	25.67	26.00	0.294	**0.32**	0.555	**0.60**	0.09
661	1880	GPRS (2)	Rear	/	25.14	26.00	0.260	**0.32**	0.485	**0.59**	-0.04
810	1909.8	GPRS (2)	Rear	/	24.53	26.00	0.195	**0.27**	0.363	**0.51**	0.1
661	1880	GPRS (2)	Left	/	25.14	26.00	0.114	**0.14**	0.188	**0.23**	0.12
512	1850.2	GPRS (2)	Top	/	25.67	26.00	0.080	**0.09**	0.132	**0.14**	-0.07
512	1850.2	EGPRS (2)	Rear		25.81	26.00	0.271	**0.28**	0.532	**0.56**	0.07

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

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

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9400	1880	Left	Cheek	/	19.90	21.00	0.103	**0.13**	0.180	**0.23**	0.03
9400	1880	Left	Tilt	/	19.90	21.00	0.091	**0.12**	0.162	**0.21**	0.12
9538	1907.6	Right	Cheek	/	19.84	21.00	0.154	**0.20**	0.288	**0.38**	0.06
9400	1880	Right	Cheek	Fig.6	19.90	21.00	0.173	**0.22**	0.322	**0.41**	-0.04
9262	1852.4	Right	Cheek	/	20.02	21.00	0.161	**0.20**	0.310	**0.39**	-0.07
9400	1880	Right	Tilt	/	19.90	21.00	0.093	**0.12**	0.162	**0.21**	-0.11

Table 14.1-7: SAR Values (WCDMA 1900 MHz Band – Body worn)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9538	1907.6	Front	/	22.87	24.00	0.114	**0.15**	0.177	**0.23**	-0.02
9400	1880	Front	/	22.90	24.00	0.184	**0.24**	0.291	**0.37**	-0.04
9262	1852.4	Front	Fig.7	22.82	24.00	0.191	**0.25**	0.298	**0.39**	0.09
9400	1880	Rear	/	22.90	24.00	0.144	**0.19**	0.212	**0.27**	-0.04

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

Table 14.1-8: SAR Values (WCDMA 1900 MHz Band - Hotspot)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Front	/	19.71	21.00	0.184	**0.25**	0.355	**0.48**	-0.1
9538	1907.6	Rear	/	19.64	21.00	0.199	**0.27**	0.370	**0.51**	-0.08
9400	1880	Rear	/	19.71	21.00	0.236	**0.32**	0.434	**0.58**	-0.13
9262	1852.4	Rear	Fig.8	19.70	21.00	0.244	**0.33**	0.457	**0.62**	-0.04
9400	1880	Left	/	19.71	21.00	0.139	**0.19**	0.269	**0.36**	0.09
9400	1880	Top	/	19.71	21.00	0.114	**0.15**	0.204	**0.27**	-0.1

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

Table 14.1-9: SAR Values (WCDMA 1700 MHz Band - Head)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1513	1752.6	Left	Cheek	/	19.97	21.00	0.250	**0.32**	0.303	**0.38**	0.01
1412	1732.4	Left	Tilt	/	19.96	21.00	0.193	**0.25**	0.250	**0.32**	-0.09
1513	1752.6	Right	Cheek	/	19.97	21.00	0.387	**0.49**	0.546	**0.69**	0.12
1412	1732.4	Right	Cheek	**Fig**.9	19.96	21.00	0.293	**0.37**	0.560	**0.71**	-0.03
1312	1712.4	Right	Cheek	/	19.96	21.00	0.370	**0.47**	0.525	**0.67**	-0.04
1412	1732.4	Right	Tilt	/	19.96	21.00	0.198	**0.25**	0.260	**0.33**	0.07

Table 14.1-10: SAR Values (WCDMA 1700 MHz Band – Body worn)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.5	Front	/	22.78	24.00	0.257	**0.34**	0.381	**0.50**	-0.08
1513	1752.6	Rear	**Fig**.10	22.81	24.00	0.288	**0.38**	0.447	**0.59**	0.17
1412	1732.5	Rear	/	22.78	24.00	0.258	**0.34**	0.399	**0.53**	-0.01
1312	1712.4	Rear	/	22.72	24.00	0.238	**0.32**	0.370	**0.50**	-0.16

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

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.5	Front	/	19.83	21.00	0.232	**0.30**	0.399	**0.52**	-0.02
1513	1752.6	Rear	Fig.11	19.73	21.00	0.256	**0.34**	0.444	**0.59**	0.09
1412	1732.5	Rear	/	19.83	21.00	0.236	**0.31**	0.407	**0.53**	-0.04
1312	1712.4	Rear	/	19.78	21.00	0.228	**0.30**	0.397	**0.53**	0.07
1412	1732.5	Left	/	19.83	21.00	0.154	**0.20**	0.260	**0.34**	-0.1
1413	1733.5	Top	/	19.83	21.00	0.094	**0.12**	0.155	**0.20**	0.05

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

Table 14.1-12: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4183	836.6	Left	Cheek	/	22.90	24.00	0.231	**0.30**	0.372	**0.48**	0.09
4132	826.4	Left	Tilt	/	22.86	24.00	0.088	**0.11**	0.168	**0.22**	-0.08
4183	836.6	Left	Tilt	Fig.12	22.90	24.00	0.211	**0.27**	0.382	**0.49**	0.13
4233	846.6	Left	Tilt	/	22.80	24.00	0.195	**0.26**	0.361	**0.48**	0.05
4183	836.6	Right	Cheek	/	22.90	24.00	0.212	**0.27**	0.358	**0.46**	-0.16
4183	836.6	Right	Tilt	/	22.90	24.00	0.190	**0.24**	0.340	**0.44**	0.01

Table 14.1-13: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4183	836.6	Front	/	22.90	24.00	0.075	**0.10**	0.134	**0.17**	0.05
4233	846.6	Rear	Fig.13	22.90	24.00	0.130	**0.17**	0.209	**0.27**	-0.02
4183	836.6	Rear	/	22.90	24.00	0.120	**0.15**	0.190	**0.24**	0.13
4132	826.4	Rear	/	22.86	24.00	0.068	**0.09**	0.118	**0.15**	-0.04
4183	836.6	Left	/	22.90	24.00	0.000	**0.00**	0.000	**0.00**	/
4183	836.6	Right	/	22.90	24.00	0.041	**0.05**	0.073	**0.09**	-0.04
4183	836.6	**Top**	/	22.90	24.00	0.079	**0.10**	0.156	**0.20**	0.09

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

Table 14.1-14: SAR Values (LTE Band2 ANT4- Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
18900	1880	1RB_Low	Left	Cheek	/	20.44	21.00	0.190	**0.22**	0.296	**0.34**	-0.02
18900	1880	1RB_Low	Left	Tilt	/	20.44	21.00	0.177	**0.20**	0.299	**0.34**	0.19
18900	1880	1RB_Low	Right	Cheek	Fig.14	20.44	21.00	0.293	**0.33**	0.563	**0.64**	-0.14
18900	1880	1RB_Low	Right	Tilt	/	20.44	21.00	0.135	**0.15**	0.219	**0.25**	-0.07
18900	1880	50RB-Low	Left	Cheek	/	20.55	21.00	0.187	**0.21**	0.292	**0.32**	0.18
18900	1880	50RB-Low	Left	Tilt	/	20.55	21.00	0.176	**0.20**	0.304	**0.34**	-0.14
18900	1880	50RB-Low	Right	Cheek	/	20.55	21.00	0.287	**0.32**	0.529	**0.59**	-0.19
18900	1880	50RB-Low	Right	Tilt	/	20.55	21.00	0.130	**0.14**	0.214	**0.24**	0.05
18900	1880	1RB_Low	Left	Cheek	Note2	16.40	17.00	0.146	**0.17**	0.244	**0.28**	-0.07
18900	1880	1RB_Low	Left	Tilt	Note2	16.40	17.00	0.132	**0.15**	0.234	**0.27**	0.15
18900	1880	1RB_Low	Right	Cheek	Note2	16.40	17.00	0.244	**0.28**	0.494	**0.57**	0.19
18900	1880	1RB_Low	Right	Tilt	Note2	16.40	17.00	0.158	**0.18**	0.320	**0.37**	0.1
18900	1880	50RB-High	Left	Cheek	Note2	16.53	17.00	0.100	**0.11**	0.172	**0.19**	-0.14
18900	1880	50RB-High	Left	Tilt	Note2	16.53	17.00	0.104	**0.12**	0.201	**0.22**	0
18900	1880	50RB-High	Right	Cheek	Note2	16.53	17.00	0.181	**0.20**	0.375	**0.42**	0
18900	1880	50RB-High	Right	Tilt	Note2	16.53	17.00	0.107	**0.12**	0.212	**0.24**	-0.13

Note1: The LTE mode is QPSK_20MHz.

Note2: The results are for ENDC only.

Table 14.1-15: SAR Values (LTE Band2 ANT4– Body worn)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
18900	1880	1RB-Low Front	/	24.08	24.70	0.204	**0.24**	0.309	**0.36**	-0.13
18900	1880	1RB-Low Rear	Fig.15	24.08	24.70	0.261	**0.30**	0.440	**0.51**	-0.09
19100	1900	50RB-Mid Front	/	23.14	23.70	0.184	**0.21**	0.282	**0.32**	0.13
19100	1900	50RB-Mid Rear	/	23.14	23.70	0.239	**0.27**	0.408	**0.46**	0.07

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

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are also for ENDC.

Table 14.1-16: SAR Values (LTE Band2 ANT4 – Hotspot)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
19100	1900	1RB-Low Front	/	20.73	21.00	0.150	**0.16**	0.248	**0.26**	0.12
19100	1900	1RB-Low Rear	/	20.73	21.00	0.218	**0.23**	0.412	**0.44**	-0.14
19100	1900	1RB-Low Left	/	20.73	21.00	0.144	**0.15**	0.273	**0.29**	0.08
19100	1900	1RB-Low Top	/	20.73	21.00	0.108	**0.11**	0.198	**0.21**	0.09
19100	1900	50RB-High Front	/	20.72	21.00	0.136	**0.15**	0.227	**0.24**	0.09
19100	1900	50RB-High Rear	Fig.16	20.72	21.00	0.233	**0.25**	0.439	**0.47**	-0.13
19100	1900	50RB-High Left	/	20.72	21.00	0.147	**0.16**	0.283	**0.30**	0.03
19100	1900	50RB-High Top	/	20.72	21.00	0.104	**0.11**	0.186	**0.20**	0.07
18900	1880	1RB-Low Front	Note3	16.40	17.00	0.061	**0.07**	0.100	**0.11**	0.12
18900	1880	1RB-Low Rear	Note3	16.40	17.00	0.098	**0.11**	0.177	**0.20**	-0.19
18900	1880	1RB-Low Left	Note3	16.40	17.00	0.049	**0.06**	0.092	**0.11**	0.18
18900	1880	1RB-Low Top	Note3	16.40	17.00	0.000	**0.00**	0.000	**0.00**	/
18900	1880	50RB-High Front	Note3	16.40	17.00	0.039	**0.04**	0.071	**0.08**	0.13
18900	1880	50RB-High Rear	Note3	16.53	17.00	0.042	**0.05**	0.070	**0.08**	0.13
18900	1880	50RB-High Left	Note3	16.53	17.00	0.061	**0.07**	0.115	**0.13**	0.08
18900	1880	50RB-High Top	Note3	16.53	17.00	0.038	**0.04**	0.073	**0.08**	-0.05

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

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

Table 14.1-17: SAR Values (LTE Band2 ANT0- Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
18700	1860	1RB_Mid	Left	Cheek	Fig.17	22.78	24.00	0.059	**0.08**	0.093	**0.12**	0.05
18700	1860	1RB_Mid	Left	Tilt	/	22.78	24.00	<0.01	<0.01	<0.01	<0.01	/
18700	1860	1RB_Mid	Right	Cheek	/	22.78	24.00	0.035	**0.05**	0.053	**0.07**	0.04
18700	1860	1RB_Mid	Right	Tilt	/	22.78	24.00	<0.01	<0.01	<0.01	<0.01	0.09
18700	1860	50RB-Low	Left	Cheek	/	22.42	23.00	0.042	**0.05**	0.071	**0.08**	0.03
18700	1860	50RB-Low	Left	Tilt	/	22.42	23.00	<0.01	<0.01	<0.01	<0.01	/
18700	1860	50RB-Low	Right	Cheek	/	22.42	23.00	0.018	**0.02**	0.032	**0.04**	0.15
18700	1860	50RB-Low	Right	Tilt	/	22.42	23.00	<0.01	<0.01	<0.01	<0.01	-0.17

Note1: The LTE mode is QPSK_20MHz.

Note2: The results are for ENDC only.

Table 14.1-18: SAR Values (LTE Band2 ANT0– Body worn)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
18900	1880	1RB-Low Front	/	7.93	8.00	<0.01	<0.01	<0.01	<0.01	/
18900	1880	1RB-Low Rear	/	7.93	8.00	<0.01	<0.01	<0.01	<0.01	/
19100	1900	50RB-Mid Front	/	7.99	8.00	<0.01	<0.01	<0.01	<0.01	/
19100	1900	50RB-Mid Rear	/	7.99	8.00	<0.01	<0.01	<0.01	<0.01	/

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

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

Table 14.1-19: SAR Values (LTE Band2 ANT0 – Hotspot)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
18700	1860	1RB-Low Front	/	15.72	17.00	0.089	**0.12**	0.161	**0.22**	-0.11
18700	1860	1RB-Low Rear	/	15.72	17.00	0.105	**0.14**	0.199	**0.27**	0.13
18700	1860	1RB-Low Left	/	15.72	17.00	<0.01	<0.01	<0.01	<0.01	/
18700	1860	1RB-Low Right		15.72	17.00	<0.01	<0.01	<0.01	<0.01	/
18700	1860	1RB-Low Bottom	Fig.18	15.72	17.00	0.198	**0.27**	0.386	**0.52**	-0.19
18700	1860	50RB-Low Front	/	15.85	17.00	0.086	**0.11**	0.156	**0.20**	-0.19
18700	1860	50RB-Low Rear		15.85	17.00	0.100	**0.13**	0.186	**0.24**	0.18
18700	1860	50RB-Low Left	/	15.85	17.00	<0.01	<0.01	<0.01	<0.01	/
18700	1860	50RB-Low Right		15.85	17.00	0.024	**0.03**	0.046	**0.06**	-0.07
18700	1860	50RB-Low Bottom	/	15.85	17.00	0.193	**0.25**	0.375	**0.49**	0.09

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

Note2: The LTE mode is QPSK_10MHz.

Note3: The results are for ENDC only.

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

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20600	844	1RB_Low	Left	Cheek	/	24.29	24.70	0.434	**0.48**	0.706	**0.78**	0.05

20450	929	1RB_Low	Left	Tilt	/	24.27	24.70	0.393	**0.43**	0.737	**0.81**	-0.08
20525	836.5	1RB_Low	Left	Tilt	Fig.19	24.25	24.70	0.407	**0.45**	0.779	**0.86**	-0.04
20600	844	1RB_Low	Left	Tilt	/	24.29	24.70	0.395	**0.43**	0.757	**0.83**	-0.05
20525	836.5	50RB	Left	Tilt	/	23.39	23.70	0.321	**0.34**	0.624	**0.67**	0.15
20600	844	1RB_Low	Right	Cheek	/	24.29	24.70	0.337	**0.37**	0.582	**0.64**	-0.08
20600	844	1RB_Low	Right	Tilt	/	24.29	24.70	0.342	**0.38**	0.638	**0.70**	0.19
20600	844	25RB-High	Left	Cheek	/	23.41	23.70	0.329	**0.35**	0.555	**0.59**	-0.19
20600	844	25RB-High	Left	Tilt	/	23.41	23.70	0.312	**0.33**	0.604	**0.65**	-0.17
20600	844	25RB-High	Right	Cheek	/	23.41	23.70	0.334	**0.36**	0.551	**0.59**	-0.13
20600	844	25RB-High	Right	Tilt	/	23.41	23.70	0.295	**0.32**	0.523	**0.56**	0.18
20600	844	1RB_Mid	Left	Cheek	Note2	18.39	19.00	0.113	**0.13**	0.196	**0.23**	0.11
20600	844	1RB_Mid	Left	Tilt	Note2	18.39	19.00	0.107	**0.12**	0.208	**0.24**	0.11
20600	844	1RB_Mid	Right	Cheek	Note2	18.39	19.00	0.099	**0.11**	0.163	**0.19**	0.07
20600	844	1RB_Mid	Right	Tilt	Note2	18.39	19.00	0.080	**0.09**	0.148	**0.17**	-0.12
20600	844	25RB-High	Left	Cheek	Note2	18.28	19.00	0.099	**0.12**	0.178	**0.21**	-0.11
20600	844	25RB-High	Left	Tilt	Note2	18.28	19.00	0.079	**0.09**	0.149	**0.18**	-0.1
20600	844	25RB-High	Right	Cheek	Note2	18.28	19.00	0.082	**0.10**	0.138	**0.16**	0.11
20600	844	25RB-High	Right	Tilt	Note2	18.28	19.00	0.067	**0.08**	0.126	**0.15**	-0.07

Note1: The LTE mode is QPSK_10MHz.

Note2: The results are for ENDC only.

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

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
20600	844	1RB-Mid Front	/	18.39	19.00	0.036	**0.04**	0.047	**0.05**	-0.18
20600	844	1RB-Mid Rear	Fig.20	18.39	19.00	0.043	**0.05**	0.057	**0.07**	-0.11
20600	844	25RB-High Front	/	18.28	19.00	0.028	**0.03**	0.038	**0.04**	-0.17
20600	844	25RB-High Rear	/	18.28	19.00	0.031	**0.04**	0.046	**0.05**	0.15

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

Note2: The LTE mode is QPSK_10MHz.

Note3: The results are for ENDC only.

Table 14.1-22: SAR Values (LTE Band5 – Hotspot)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
20600	844	1RB-Low Front	/	24.29	24.70	0.182	**0.20**	0.301	**0.33**	0.07
20600	844	1RB-Low Rear	Fig.21	24.29	24.70	0.232	**0.25**	0.368	**0.40**	0.02

20600	844	1RB-Low Left	/	24.29	24.70	0.090	**0.10**	0.133	**0.15**	-0.07
20600	844	1RB-Low Right	/	24.29	24.70	0.134	**0.15**	0.200	**0.22**	0.05
20600	844	1RB-Low Top	/	24.29	24.70	0.171	**0.19**	0.333	**0.37**	0.12
20600	844	25RB-High Front	/	23.41	23.70	0.143	**0.15**	0.235	**0.25**	-0.02
20600	844	25RB-High Rear	/	23.41	23.70	0.189	**0.20**	0.291	**0.31**	-0.19
20600	844	25RB-High Left	/	23.41	23.70	0.060	**0.06**	0.090	**0.10**	0.17
20600	844	25RB-High Right		23.41	23.70	0.093	**0.10**	0.138	**0.15**	0.07
20600	844	25RB-High Top	/	23.41	23.70	0.150	**0.16**	0.286	**0.31**	0.02

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

Note2: The LTE mode is QPSK_10MHz.

Note3: The results are also for ENDC.

Table 14.1-23: SAR Values (LTE Band12 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23130	711	1RB-Low	Left	Cheek	/	24.15	24.70	0.274	**0.31**	0.458	**0.52**	-0.13
23130	711	1RB-Low	Left	Tilt	Fig.22	24.15	24.70	0.259	**0.29**	0.477	**0.54**	0.1
23130	711	1RB-Low	Right	Cheek	/	24.15	24.70	0.242	**0.27**	0.466	**0.53**	0.05
23130	711	1RB-Low	Right	Tilt	/	24.15	24.70	0.237	**0.27**	0.421	**0.48**	-0.16
23095	707.5	25RB-Mid	Left	Cheek	/	23.04	23.70	0.229	**0.27**	0.378	**0.44**	0.01
23095	707.5	25RB-Mid	Left	Tilt	/	23.04	23.70	0.210	**0.24**	0.386	**0.45**	-0.07
23095	707.5	25RB-Mid	Right	Cheek	/	23.04	23.70	0.219	**0.25**	0.375	**0.44**	0.05
23095	707.5	25RB-Mid	Right	Tilt	/	23.04	23.70	0.192	**0.22**	0.338	**0.39**	-0.02
23060	704	1RB-Mid	Left	Cheek	Note2	18.32	19.00	0.099	**0.12**	0.138	**0.16**	-0.07
23060	704	1RB-Mid	Left	Tilt	Note2	18.32	19.00	0.078	**0.09**	0.126	**0.15**	0.11
23060	704	1RB-Mid	Right	Cheek	Note2	18.32	19.00	0.083	**0.10**	0.114	**0.13**	0.08
23060	704	1RB-Mid	Right	Tilt	Note2	18.32	19.00	0.072	**0.08**	0.107	**0.13**	-0.08
23060	704	25RB-Low	Left	Cheek	Note2	18.32	19.00	0.071	**0.08**	0.103	**0.12**	0.09
23060	704	25RB-Low	Left	Tilt	Note2	18.32	19.00	0.068	**0.08**	0.108	**0.13**	0.05
23060	704	25RB-Low	Right	Cheek	Note2	18.32	19.00	0.829	**0.97**	0.111	**0.13**	-0.09
23060	704	25RB-Low	Right	Tilt	Note2	18.32	19.00	0.071	**0.08**	0.101	**0.12**	0.1

Note1: The LTE mode is QPSK_10MHz.

Note2: The results are for ENDC only.

Table 14.1-24: SAR Values (LTE Band12– Body worn)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
23060	704	1RB-Mid Front	/	18.32	19.00	0.064	**0.07**	0.083	**0.10**	0.19
23060	704	1RB-Mid Rear	Fig.23	18.32	19.00	0.066	**0.08**	0.086	**0.10**	-0.12
23060	704	25RB-Low Front	/	18.32	19.00	0.053	**0.06**	0.071	**0.08**	-0.12
23060	704	25RB-Low Rear	/	18.32	19.00	0.064	**0.07**	0.083	**0.10**	0.17

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

Note2: The LTE mode is QPSK_10MHz.

Note3: The results are for ENDC only.

Table 14.1-25: SAR Values (LTE Band12 – Hotspot)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
23130	711	1RB-Low Front	/	24.15	24.70	0.143	**0.16**	0.165	**0.19**	-0.1
23130	711	1RB-Low Rear	Fig.24	24.15	24.70	0.264	**0.30**	0.347	**0.39**	-0.09
23130	711	1RB-Low Left	/	24.15	24.70	0.086	**0.10**	0.111	**0.13**	-0.13
23130	711	1RB-Low Right	/	24.15	24.70	0.121	**0.14**	0.155	**0.18**	0.05
23130	711	1RB-Low Top	/	24.15	24.70	0.110	**0.12**	0.181	**0.21**	0.07
23095	707.5	25RB-Low Front	/	22.90	23.70	0.129	**0.16**	0.150	**0.18**	0.13
23095	707.5	25RB-Low Rear	/	22.90	23.70	0.213	**0.26**	0.290	**0.35**	0.12
23095	707.5	25RB-Low Left	/	22.90	23.70	0.128	**0.15**	0.164	**0.20**	0.06
23095	707.5	25RB-Low Right		22.90	23.70	0.126	**0.15**	0.162	**0.19**	-0.01
23095	707.5	25RB-Low Top	/	22.90	23.70	0.100	**0.12**	0.162	**0.19**	0.02

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

Note2: The LTE mode is QPSK_10MHz.

Note3: The results are also for ENDC.

Table 14.1-26: SAR Values (LTE Band13 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23230	782	1RB-High	Left	Cheek	Fig.25	23.55	24.70	0.490	**0.64**	0.661	**0.86**	-0.09
23230	782	50RB	Left	Cheek	/	22.92	23.70	0.423	**0.51**	0.602	**0.72**	0.13

23230	782	1RB-High	Left	Tilt	/	23.55	24.70	0.422	**0.55**	0.643	**0.84**	-0.04
23230	782	50RB	Left	Tilt	/	22.92	23.70	0.332	**0.40**	0.518	**0.62**	0.16
23230	782	1RB-High	Right	Cheek	/	23.55	24.70	0.439	**0.57**	0.607	**0.79**	0.07
23230	782	1RB-High	Right	Tilt	/	23.55	24.70	0.386	**0.50**	0.563	**0.73**	0.08
23230	782	25RB-Mid	Left	Cheek	/	22.88	23.70	0.406	**0.49**	0.542	**0.65**	-0.13
23230	782	25RB-Mid	Left	Tilt	/	22.88	23.70	0.335	**0.40**	0.510	**0.62**	0.05
23230	782	25RB-Mid	Right	Cheek	/	22.88	23.70	0.368	**0.44**	0.518	**0.63**	-0.09
23230	782	25RB-Mid	Right	Tilt	/	22.88	23.70	0.307	**0.37**	0.459	**0.55**	0.03
23230	782	1RB-Mid	Left	Cheek	Note2	17.97	19.00	0.128	**0.16**	0.179	**0.23**	0.17
23230	782	1RB-Mid	Left	Tilt	Note2	17.97	19.00	0.071	**0.09**	0.100	**0.13**	0.08
23230	782	1RB-Mid	Right	Cheek	Note2	17.97	19.00	0.112	**0.14**	0.144	**0.18**	0.17
23230	782	1RB-Mid	Right	Tilt	Note2	17.97	19.00	0.080	**0.10**	0.111	**0.14**	-0.14
23230	782	25RB-High	Left	Cheek	Note2	17.97	19.00	0.078	**0.10**	0.096	**0.12**	-0.14
23230	782	25RB-High	Left	Tilt	Note2	17.97	19.00	0.058	**0.07**	0.082	**0.10**	-0.03
23230	782	25RB-High	Right	Cheek	Note2	17.97	19.00	0.098	**0.12**	0.125	**0.16**	-0.13
23230	782	25RB-High	Right	Tilt	Note2	17.97	19.00	0.073	**0.09**	0.101	**0.13**	0.1

Note1: The LTE mode is QPSK_10MHz.

Note2: The results are for ENDC only.

Table 14.1-27: SAR Values (LTE Band13– Body worn)

Ambient Temperature: 22.9 ℃		Liquid Temperature: 22.5℃								
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
23230	782	1RB-Mid Front	/	17.97	19.00	0.043	**0.05**	0.055	**0.07**	0.18
23230	782	1RB-Mid Rear	Fig.26	17.97	19.00	0.049	**0.06**	0.064	**0.08**	-0.01
23230	782	25RB-High Front	/	17.97	19.00	0.034	**0.04**	0.045	**0.06**	-0.14
23230	782	25RB-High Rear	/	17.97	19.00	0.041	**0.05**	0.052	**0.07**	-0.17

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

Note2: The LTE mode is QPSK_10MHz.

Note3: The results are for ENDC only.

Table 14.1-28: SAR Values (LTE Band13 – Hotspot)

Ambient Temperature: 22.9 ℃		Liquid Temperature: 22.5℃								
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
23230	782	1RB-High Front	/	23.55	24.70	0.131	**0.17**	0.193	**0.25**	0.12
23230	782	1RB-High Rear	Fig.27	23.55	24.70	0.230	**0.30**	0.301	**0.39**	0.05
23230	782	1RB-High Left	/	23.55	24.70	0.049	**0.06**	0.069	**0.09**	-0.01
23230	782	1RB-High Right	/	23.55	24.70	0.090	**0.12**	0.120	**0.16**	0.08

23230	782	1RB-High Top	/	23.55	24.70	0.135	**0.18**	0.230	**0.30**	-0.09
23230	782	25RB-Mid Front	/	22.88	24.70	0.104	**0.16**	0.154	**0.23**	0.01
23230	782	25RB-Mid Rear	/	22.88	24.70	0.176	**0.27**	0.233	**0.35**	0.13
23230	782	25RB-Mid Left	/	22.88	24.70	0.050	**0.08**	0.067	**0.10**	-0.04
23230	782	25RB-Mid Right		22.88	24.70	0.075	**0.11**	0.099	**0.15**	0.09
23230	782	25RB-Mid Top	/	22.88	24.70	0.106	**0.16**	0.179	**0.27**	-0.04

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

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-29: SAR Values (LTE Band25 - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26590	1905	1RB-Low	Left	Cheek	/	20.45	21.00	0.091	**0.10**	0.147	**0.17**	0.07
26590	1905	1RB-Low	Left	Tilt	/	20.45	21.00	0.125	**0.14**	0.216	**0.25**	-0.1
26590	1905	1RB-Low	Right	Cheek	/	20.45	21.00	0.277	**0.31**	0.520	**0.59**	-0.08
26590	1905	1RB-Low	Right	Tilt	/	20.45	21.00	0.129	**0.15**	0.230	**0.26**	-0.11
26140	1860	50RB-High	Left	Cheek	/	20.59	21.00	0.197	**0.22**	0.303	**0.33**	0.05
26140	1860	50RB-High	Left	Tilt	/	20.59	21.00	0.187	**0.21**	0.318	**0.35**	0.06
26140	1860	50RB-High	Right	Cheek	Fig.28	20.59	21.00	0.317	**0.35**	0.607	**0.67**	-0.07
26140	1860	50RB-High	Right	Tilt	/	20.59	21.00	0.145	**0.16**	0.250	**0.27**	0.12

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-30: SAR Values (LTE Band25– Body worn)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
26140	1860	1RB-High Front	Fig.29	23.80	24.70	0.255	**0.31**	0.402	**0.49**	-0.02
26140	1860	1RB-High Rear	/	23.80	24.70	0.167	**0.21**	0.252	**0.31**	0.09
26590	1905	50RB-Mid Front	/	22.94	23.70	0.217	**0.26**	0.340	**0.41**	0.1
26590	1905	50RB-Mid Rear	/	22.94	23.70	0.118	**0.14**	0.170	**0.20**	-0.01

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-31: SAR Values (LTE Band25 – Hotspot)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
26590	1905	1RB-Low Front	/	20.37	21.00	0.146	**0.17**	0.201	**0.23**	-0.04
26590	1905	1RB-Low Rear	Fig.30	20.37	21.00	0.255	**0.29**	0.410	**0.47**	0.09
26590	1905	1RB-Low Left	/	20.37	21.00	0.170	**0.20**	0.267	**0.31**	-0.03
26590	1905	1RB-Low Top	/	20.37	21.00	0.104	**0.12**	0.155	**0.18**	0.07
26590	1905	50RB-Low Front	/	20.52	21.00	0.140	**0.16**	0.191	**0.21**	0.01
26590	1905	50RB-Low Rear	/	20.52	21.00	0.240	**0.27**	0.378	**0.42**	-0.09
26590	1905	50RB-Low Left	/	20.52	21.00	0.175	**0.20**	0.283	**0.32**	0.12
26590	1905	50RB-Low Top	/	20.52	21.00	0.095	**0.11**	0.142	**0.16**	0.04

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-32: SAR Values (LTE Band26 - Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26775	822.5	1RB-Low	Left	Cheek	Fig.31	24.45	24.70	0.542	**0.57**	0.734	**0.78**	0.12
26775	822.5	1RB-Low	Left	Tilt	/	24.45	24.70	0.400	**0.42**	0.632	**0.67**	0.06
26775	822.5	1RB-Low	Right	Cheek	/	24.45	24.70	0.454	**0.48**	0.655	**0.69**	-0.01
26775	822.5	1RB-Low	Right	Tilt	/	24.45	24.70	0.368	**0.39**	0.574	**0.61**	0.02
26965	841.5	36RB-Mid	Left	Cheek	/	23.20	23.70	0.467	**0.52**	0.655	**0.73**	0.08
26965	841.5	36RB-Mid	Left	Tilt	/	23.20	23.70	0.434	**0.49**	0.693	**0.78**	-0.09
26965	841.5	36RB-Mid	Right	Cheek	/	23.20	23.70	0.439	**0.49**	0.618	**0.69**	-0.04
26965	841.5	36RB-Mid	Right	Tilt	/	23.20	23.70	0.390	**0.44**	0.608	**0.68**	0.07

Note1: The LTE mode is QPSK_15MHz.

Table 14.1-33: SAR Values (LTE Band26 – Body)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
26775	822.5	1RB-Low Front	/	24.27	24.70	0.124	**0.14**	0.216	**0.24**	0.03
26775	822.5	1RB-Low Rear	/	24.27	24.70	0.194	**0.21**	0.278	**0.31**	0.05
26775	822.5	1RB-Low Left	/	24.27	24.70	0.037	**0.04**	0.059	**0.07**	-0.09
26775	822.5	1RB-Low Right	/	24.27	24.70	0.107	**0.12**	0.171	**0.19**	-0.03

26775	822.5	1RB-Low Top	/	24.27	24.70	0.111	**0.12**	0.221	**0.24**	-0.04
26965	841.5	36RB-Mid Front	/	23.20	23.70	0.142	**0.16**	0.247	**0.28**	0.11
26965	841.5	36RB-Mid Rear	/	23.20	23.70	0.190	**0.21**	0.297	**0.33**	-0.09
26965	841.5	36RB-Mid Left	/	23.20	23.70	0.039	**0.04**	0.063	**0.07**	0.02
26965	841.5	36RB-Mid Right	/	23.20	23.70	0.077	**0.09**	0.121	**0.14**	-0.04
26965	841.5	36RB-Mid Top	Fig.32	23.20	23.70	0.154	**0.17**	0.300	**0.34**	0.07

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

Note2: The LTE mode is QPSK_15MHz.

Table 14.1-34: SAR Values (LTE Band41 PC3 - Head)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
40620	2593	1RB-Low	Left	Cheek	/	20.64	21.00	0.064	**0.07**	0.137	**0.15**	-0.07
40620	2593	1RB-Low	Left	Tilt	/	20.64	21.00	0.036	**0.04**	0.072	**0.08**	0.05
40620	2593	1RB-Low	Right	Cheek	Fig.33	20.64	21.00	0.286	**0.31**	0.759	**0.82**	-0.02
40185	2549.9	1RB-Low	Right	Cheek	/	20.34	21.00	0.222	**0.26**	0.587	**0.68**	0.10
40620	2593	1RB-Low	Right	Cheek	/	20.64	21.00	0.255	**0.28**	0.670	**0.73**	-0.1
41055	2636.5	1RB-Low	Right	Cheek	/	20.51	21.00	0.265	**0.30**	0.671	**0.75**	-0.09
41490	2680	1RB-Low	Right	Cheek	/	20.36	21.00	0.267	**0.31**	0.701	**0.81**	-0.13
40620	2593	100RB	Right	Cheek	/	20.72	21.00	0.268	**0.29**	0.741	**0.79**	0.06
40620	2593	1RB-Low	Right	Tilt	/	20.64	21.00	0.104	**0.11**	0.250	**0.27**	0.05
39750	2506	50RB-Mid	Left	Cheek	/	20.78	21.00	0.073	**0.08**	0.163	**0.17**	0.07
39750	2506	50RB-Mid	Left	Tilt	/	20.78	21.00	0.028	**0.03**	0.054	**0.06**	0.13
39750	2506	50RB-Mid	Right	Cheek	/	20.78	21.00	0.245	**0.26**	0.654	**0.69**	0.12
39750	2506	50RB-Mid	Right	Tilt	/	20.78	21.00	0.087	**0.09**	0.205	**0.22**	0.11

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-35: SAR Values (LTE Band41 PC3– Body worn)

Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5°C						
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
40185	2549.9	1RB-Low Front	/	21.89	22.70	0.038	**0.05**	0.076	**0.09**	0.17
40185	2549.9	1RB-Low Rear	Fig.34	21.89	22.70	0.156	**0.19**	0.324	**0.39**	-0.01
40185	2549.9	50RB-Low Front	/	21.03	21.70	0.035	**0.04**	0.067	**0.08**	-0.16
40185	2549.9	50RB-Low Rear	/	21.03	21.70	0.128	**0.15**	0.270	**0.32**	0.03

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-36: SAR Values (LTE Band41 PC3 – Hotspot)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
40620	2593	1RB-Low Front	/	20.63	21.00	0.077	**0.08**	0.155	**0.17**	0.07
40620	2593	1RB-Low Rear	/	20.63	21.00	0.279	**0.30**	0.647	**0.70**	-0.1
40620	2593	1RB-Low Left	Fig.35	20.63	21.00	0.317	**0.35**	0.738	**0.80**	-0.13
41055	2636.5	1RB-Low Left	/	20.60	21.00	0.293	**0.32**	0.722	**0.79**	0.05
41490	2680	1RB-Low Left	/	20.50	21.00	0.281	**0.32**	0.685	**0.77**	0.07
39750	2506	1RB-Low Left	/	20.45	21.00	0.307	**0.35**	0.671	**0.76**	0.13
40185	2549.9	1RB-Low Left	/	20.33	21.00	0.308	**0.36**	0.668	**0.78**	-0.04
40620	2593	1RB-Low Left	/	20.56	21.00	0.305	**0.34**	0.703	**0.78**	0.09
40620	2593	1RB-Low Top	/	20.60	21.00	0.021	**0.02**	0.038	**0.04**	-0.1
39750	2506	50RB-Mid Front	/	20.61	21.00	0.091	**0.10**	0.187	**0.20**	-0.08
39750	2506	50RB-Mid Rear	/	20.61	21.00	0.247	**0.27**	0.520	**0.57**	0.02
39750	2506	50RB-Mid Left	/	20.61	21.00	0.313	**0.34**	0.725	**0.79**	0.08
39750	2506	50RB-Mid Top	/	20.61	21.00	0.000	**0.00**	0.000	**0.00**	/

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-37: SAR Values (LTE Band41 PC2 - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
40620	2593	1RB-Mid	Left	Cheek	/	20.55	21.00	0.040	**0.04**	0.085	**0.09**	0.03
40620	2593	1RB-Mid	Left	Tilt	/	20.55	21.00	0.025	**0.03**	0.049	**0.05**	0.09
40620	2593	1RB-Mid	Right	Cheek	Fig.36	20.55	21.00	0.192	**0.21**	0.508	**0.56**	-0.02
40620	2593	1RB-Mid	Right	Tilt	/	20.55	21.00	0.072	**0.08**	0.164	**0.18**	0.13
39750	2506	50RB-Low	Left	Cheek	/	20.77	21.00	0.047	**0.05**	0.104	**0.11**	0.06
39750	2506	50RB-Low	Left	Tilt	/	20.77	21.00	0.025	**0.03**	0.050	**0.05**	-0.02
39750	2506	50RB-Low	Right	Cheek	/	20.77	21.00	0.156	**0.16**	0.389	**0.41**	-0.03
39750	2506	50RB-Low	Right	Tilt	/	20.77	21.00	0.059	**0.06**	0.132	**0.14**	0

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-38: SAR Values (LTE Band41 PC2– Body worn)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
40185	2549.9	1RB-Low Front	/	24.72	25.20	0.068	**0.08**	0.130	**0.15**	0.13
40185	2549.9	1RB-Low Rear	Fig.37	24.72	25.20	0.211	**0.24**	0.435	**0.49**	-0.09
40185	2549.9	50RB-Low Front	/	23.93	24.20	0.055	**0.06**	0.107	**0.11**	-0.07
40185	2549.9	50RB-Low Rear	/	23.93	24.20	0.176	**0.19**	0.361	**0.38**	0.12

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-39: SAR Values (LTE Band41 PC2 – Hotspot)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
40620	2593	1RB-Low Front	/	20.59	21.00	0.052	**0.06**	0.107	**0.12**	-0.04
40620	2593	1RB-Low Rear	/	20.59	21.00	0.183	**0.20**	0.419	**0.46**	0.09
40620	2593	1RB-Low Left	/	20.59	21.00	0.216	**0.24**	0.507	**0.56**	-0.03
40620	2593	1RB-Low Top	/	20.59	21.00	0.015	**0.02**	0.023	**0.03**	0.12
40620	2593	50RB-High Front	/	20.65	21.00	0.052	**0.06**	0.115	**0.12**	0.01
40620	2593	50RB-High Rear	/	20.65	21.00	0.199	**0.22**	0.434	**0.47**	-0.09
40620	2593	50RB-High Left	Fig.38	20.65	21.00	0.242	**0.26**	0.590	**0.64**	0.12
40620	2593	50RB-High Top	/	20.65	21.00	0.000	**0.00**	0.000	**0.00**	/

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-40: SAR Values (LTE Band66 ANT4- Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132322	1745	1RB-Mid	Left	Cheek	/	20.31	21.00	0.272	**0.32**	0.457	**0.54**	0.03
132322	1745	1RB-Mid	Left	Tilt	/	20.31	21.00	0.248	**0.29**	0.453	**0.53**	-0.06
132322	1745	1RB-Mid	Right	Cheek	Fig.39	20.31	21.00	0.325	**0.38**	0.650	**0.76**	0.18
132322	1745	1RB-Mid	Right	Tilt	/	20.31	21.00	0.178	**0.21**	0.310	**0.36**	0.09
132322	1745	50RB-Mid	Left	Cheek	/	20.38	21.00	0.337	**0.39**	0.562	**0.65**	0.02
132322	1745	50RB-Mid	Left	Tilt	/	20.38	21.00	0.304	**0.35**	0.548	**0.63**	0.11
132322	1745	50RB-Mid	Right	Cheek	/	20.38	21.00	0.332	**0.38**	0.561	**0.65**	-0.06
132322	1745	50RB-Mid	Right	Tilt	/	20.38	21.00	0.184	**0.21**	0.330	**0.38**	0.08
132322	1745	1RB-High	Left	Cheek	Note2	16.37	17.00	0.093	**0.11**	0.126	**0.15**	0
132322	1745	1RB-High	Left	Tilt	Note2	16.37	17.00	0.111	**0.13**	0.170	**0.20**	-0.09
132322	1745	1RB-High	Right	Cheek	Note2	16.37	17.00	0.222	**0.26**	0.376	**0.43**	0.02
132322	1745	1RB-High	Right	Tilt	Note2	16.37	17.00	0.093	**0.11**	0.140	**0.16**	-0.09
132322	1745	50RB-High	Left	Cheek	Note2	16.41	17.00	0.125	**0.14**	0.184	**0.21**	-0.09
132322	1745	50RB-High	Left	Tilt	Note2	16.41	17.00	0.071	**0.08**	0.110	**0.13**	-0.12
132322	1745	50RB-High	Right	Cheek	Note2	16.41	17.00	0.202	**0.23**	0.346	**0.40**	-0.05
132322	1745	50RB-High	Right	Tilt	Note2	16.41	17.00	0.070	**0.08**	0.106	**0.12**	-0.06

Note1: The LTE mode is QPSK_20MHz.

Note2: The results are for ENDC only.

Table 14.1-41: SAR Values (LTE Band66 ANT4 – Body worn)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
132322	1745	1RB-Mid Front	Fig.40	23.15	24.00	0.298	**0.36**	0.395	**0.48**	-0.1
132322	1745	1RB-Mid Rear	/	23.15	24.00	0.239	**0.29**	0.336	**0.41**	0.04
132572	1770	50RB-High Front	/	22.25	23.00	0.245	**0.29**	0.324	**0.39**	0.18
132572	1770	50RB-High Rear	/	22.25	23.00	0.210	**0.25**	0.296	**0.35**	-0.11

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

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are also for ENDC.

Table 14.1-42: SAR Values (LTE Band66 ANT4– Hotspot)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
132572	1770	1RB-Low Front	/	20.32	21.00	0.197	**0.23**	0.300	**0.35**	0.01
132572	1770	1RB-Low Rear	/	20.32	21.00	0.250	**0.29**	0.416	**0.49**	-0.1
132572	1770	1RB-Low Left	/	20.32	21.00	0.129	**0.15**	0.217	**0.25**	-0.08
132572	1770	1RB-Low Top	/	20.32	21.00	0.138	**0.16**	0.232	**0.27**	-0.07
132322	1745	50RB-High Front	/	20.40	21.00	0.198	**0.23**	0.305	**0.35**	-0.09
132322	1745	50RB-High Rear	Fig.41	20.40	21.00	0.255	**0.29**	0.430	**0.49**	-0.04
132322	1745	50RB-High Left	/	20.40	21.00	0.154	**0.18**	0.262	**0.30**	0.09
132322	1745	50RB-High Top	/	20.40	21.00	0.137	**0.16**	0.229	**0.26**	0.09
132322	1745	1RB-High Front	Note3	16.37	17.00	0.066	**0.08**	0.105	**0.12**	0.13
132322	1745	1RB-High Rear	Note3	16.37	17.00	0.090	**0.10**	0.156	**0.18**	-0.13
132322	1745	1RB-High Left	Note3	16.37	17.00	0.046	**0.05**	0.081	**0.09**	-0.18
132322	1745	1RB-High Top	Note3	16.37	17.00	0.045	**0.05**	0.077	**0.09**	0.12
132322	1745	50RB-High Front	Note3	16.41	17.00	0.058	**0.07**	0.093	**0.11**	0.15
132322	1745	50RB-High Rear	Note3	16.41	17.00	0.080	**0.09**	0.143	**0.16**	0.04
132322	1745	50RB-High Left	Note3	16.41	17.00	0.038	**0.04**	0.068	**0.08**	0.19
132322	1745	50RB-High Top	Note3	16.41	17.00	0.037	**0.04**	0.063	**0.07**	0.11

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

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

Table 14.1-43: SAR Values (LTE Band66 ANT0- Head)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132072	1720	1RB-Mid	Left	Cheek	Fig.42	23.27	24.00	0.051	**0.06**	0.078	**0.09**	-0.18
132072	1720	1RB-Mid	Left	Tilt	/	23.27	24.00	0.043	**0.05**	0.069	**0.08**	0.12
132072	1720	1RB-Mid	Right	Cheek	/	23.27	24.00	0.048	**0.06**	0.075	**0.09**	-0.04
132072	1720	1RB-Mid	Right	Tilt	/	23.27	24.00	0.030	**0.04**	0.045	**0.05**	0.12
132072	1720	50RB-Mid	Left	Cheek	/	23.58	24.00	0.048	**0.05**	0.073	**0.08**	-0.1
132072	1720	50RB-Mid	Left	Tilt	/	23.58	24.00	0.042	**0.05**	0.067	**0.07**	-0.07
132072	1720	50RB-Mid	Right	Cheek	/	23.58	24.00	0.038	**0.04**	0.059	**0.06**	-0.03
132072	1720	50RB-Mid	Right	Tilt	/	23.58	24.00	0.032	**0.04**	0.048	**0.05**	-0.02

Note1: The LTE mode is QPSK_20MHz.

Note2: The results are for ENDC only.

Table 14.1-44: SAR Values (LTE Band66 ANT0 – Body worn)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
132322	1745	1RB-Mid Front	/	7.08	8.00	<0.01	<0.01	<0.01	<0.01	/
132322	1745	1RB-Mid Rear	/	7.08	8.00	<0.01	<0.01	<0.01	<0.01	/
132572	1770	50RB-High Front	/	7.14	8.00	<0.01	<0.01	<0.01	<0.01	/
132572	1770	50RB-High Rear	/	7.14	8.00	<0.01	<0.01	<0.01	<0.01	/

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

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

Table 14.1-45 SAR Values (LTE Band66 ANT0– Hotspot)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
132072	1720	1RB-Low Front	/	15.87	17.00	0.080	**0.10**	0.142	**0.18**	-0.02
132072	1720	1RB-Low Rear	/	15.87	17.00	0.148	**0.19**	0.276	**0.36**	0.17
132072	1720	1RB-Low Left	/	15.87	17.00	<0.01	<0.01	<0.01	<0.01	/
132072	1720	1RB-Low Right	/	15.87	17.00	0.044	**0.06**	0.078	**0.10**	-0.14
132072	1720	1RB-Low Bottom	Fig.43	15.87	17.00	0.193	**0.25**	0.367	**0.48**	0.18
132072	1720	50RB-Low Front	/	15.99	17.00	0.083	**0.10**	0.151	**0.19**	0.08
132072	1720	50RB-Low Rear	/	15.99	17.00	0.153	**0.19**	0.287	**0.36**	0.16
132072	1720	50RB-Low Left	/	15.99	17.00	<0.01	<0.01	<0.01	<0.01	/
132072	1720	50RB-Low Right	/	15.99	17.00	0.035	**0.04**	0.067	**0.08**	-0.07
132072	1720	50RB-Low Top	/	15.99	17.00	0.180	**0.23**	0.356	**0.45**	0.19

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

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

Table 14.1-46: SAR Values (LTE Band71- Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
133222	673	1RB-Low	Left	Cheek	Fig.44	23.79	24.70	0.394	**0.49**	0.546	**0.67**	0.03
133222	673	1RB-Low	Left	Tilt	/	23.79	24.70	0.345	**0.43**	0.513	**0.63**	0.09
133222	673	1RB-Low	Right	Cheek	/	23.79	24.70	0.360	**0.44**	0.504	**0.62**	-0.02
133222	673	1RB-Low	Right	Tilt	/	23.79	24.70	0.316	**0.39**	0.459	**0.57**	0.1
133222	673	50RB-Low	Left	Cheek	/	22.79	23.70	0.316	**0.39**	0.431	**0.53**	0.05
133222	673	50RB-Low	Left	Tilt	/	22.79	23.70	0.276	**0.34**	0.402	**0.50**	-0.12
133222	673	50RB-Low	Right	Cheek	/	22.79	23.70	0.252	**0.31**	0.353	**0.44**	-0.06
133222	673	50RB-Low	Right	Tilt	/	22.79	23.70	0.246	**0.30**	0.356	**0.44**	0.04

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-47 SAR Values (LTE Band71– Hotspot)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
133222	673	1RB-Low Front	/	23.79	24.70	0.232	**0.29**	0.301	**0.37**	0.13
133222	673	1RB-Low Rear	Fig.45	23.79	24.70	0.284	**0.35**	0.384	**0.47**	0.05
133222	673	1RB-Low Left	/	23.79	24.70	0.130	**0.16**	0.184	**0.23**	-0.09
133222	673	1RB-Low Right	/	23.79	24.70	0.189	**0.23**	0.269	**0.33**	0.06
133222	673	1RB-Low Top	/	23.79	24.70	0.131	**0.16**	0.238	**0.29**	0.01
133222	673	50RB-Low Front	/	22.79	23.70	0.186	**0.23**	0.242	**0.30**	-0.09
133222	673	50RB-Low Rear	/	22.79	23.70	0.214	**0.26**	0.290	**0.36**	-0.13
133222	673	50RB-Low Left	/	22.79	23.70	0.130	**0.16**	0.186	**0.23**	0.05
133222	673	50RB-Low Right	/	22.79	23.70	0.204	**0.25**	0.296	**0.36**	0.07
133222	673	50RB-Low Top	/	22.79	23.70	0.117	**0.14**	0.205	**0.25**	0.13

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

Note2: The LTE mode is QPSK_20M

14.2 SAR results for 5G NR

Table 14.2-1: SAR Values (n2–Head) - NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
370050	1852.5	Left	Cheek	/	18.64	19.00	0.154	**0.17**	0.254	**0.28**	0.18
370050	1852.5	Left	Tilt	/	18.64	19.00	0.148	**0.16**	0.259	**0.28**	0.16
370050	1852.5	Right	Cheek	Fig.46	18.64	19.00	0.264	**0.29**	0.511	**0.56**	-0.08
370050	1852.5	Right	Tilt	/	18.64	19.00	0.115	**0.12**	0.194	**0.21**	0.18

Table 14.2-2: SAR Values (n2–Body worn) - NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
370050	1852.5	Front	/	23.23	23.80	0.332	**0.38**	0.503	**0.57**	0.01
370050	1852.5	Rear	Fig.47	23.23	23.80	0.420	**0.48**	0.683	**0.78**	-0.02

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

Table 14.2-3: SAR Values (n2–Hotspot) - NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
370050	1852.5	Front	/	21.02	21.50	0.122	**0.14**	0.197	**0.22**	-0.14
370050	1852.5	Rear	Fig.48	21.02	21.50	0.193	**0.22**	0.354	**0.40**	0.19
370050	1852.5	Left	/	21.02	21.50	0.109	**0.12**	0.203	**0.23**	0.07
370050	1852.5	Top	/	21.02	21.50	0.103	**0.12**	0.184	**0.21**	0.02

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

Table 14.2-4: SAR Values (n5–Head) - NSA

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
164850	826.5	Left	Cheek	Fig.49	18.64	19.00	0.173	**0.19**	0.242	**0.26**	0.12
164850	826.5	Left	Tilt	/	18.64	19.00	0.144	**0.16**	0.230	**0.25**	-0.03
164850	826.5	Right	Cheek		18.64	19.00	0.162	**0.18**	0.226	**0.25**	-0.04
164850	826.5	Right	Tilt	/	18.64	19.00	0.127	**0.14**	0.190	**0.21**	-0.03

Table 14.2-5: SAR Values (n5– Body worn) - NSA

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
164850	826.5	Front	/	18.64	19.00	0.048	**0.05**	0.061	**0.07**	0.03
164850	826.5	Rear	Fig.50	18.64	19.00	0.057	**0.06**	0.074	**0.08**	-0.07

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

Table 14.2-6: SAR Values (n5 –Hotspot) - NSA

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
166850	836.5	Front	/	23.79	24.50	0.166	**0.20**	0.270	**0.32**	0.13
166850	836.5	Rear	/	23.79	24.50	0.207	**0.24**	0.313	**0.37**	-0.06
166850	836.5	Left	/	23.79	24.50	0.095	**0.11**	0.141	**0.17**	-0.14
166850	836.5	Right	/	23.79	24.50	0.170	**0.20**	0.250	**0.29**	0.07
166850	836.5	Top	Fig.51	23.79	24.50	0.188	**0.22**	0.357	**0.42**	-0.17

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

Table 14.2-7: SAR Values (n25–Head) - NSA

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C						
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
370050	1852.5	Left	Cheek	/	18.62	19.00	0.143	**0.16**	0.220	**0.24**	-0.01
370050	1852.5	Left	Tilt	/	18.62	19.00	0.138	**0.15**	0.230	**0.25**	-0.10
370050	1852.5	Right	Cheek	Fig.52	18.62	19.00	0.266	**0.29**	0.498	**0.54**	-0.17
370050	1852.5	Right	Tilt	/	18.62	19.00	0.112	**0.12**	0.180	**0.20**	0.11

Table 14.2-8: SAR Values (n25-Body worn) - NSA

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C					
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
370050	1852.5	Front	/	23.24	24.00	0.317	**0.38**	0.463	**0.55**	0.04
370050	1852.5	Rear	Fig.53	23.24	24.00	0.409	**0.49**	0.656	**0.78**	0.00

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

Table 14.2-9: SAR Values (n25-Hotspot) - NSA

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C					
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
370050	1852.5	Front	/	21.17	21.50	0.155	**0.17**	0.241	**0.26**	0.08
370050	1852.5	Rear	Fig.54	21.17	21.50	0.239	**0.26**	0.420	**0.45**	0.14
370050	1852.5	Left	/	21.17	21.50	0.158	**0.17**	0.277	**0.30**	0.12
370050	1852.5	Top	/	21.17	21.50	0.155	**0.17**	0.266	**0.29**	-0.19

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

Table 14.2-10: SAR Values (n41–Head) - NSA

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C						
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
499368	2506.02	Left	Cheek	/	17.78	18.00	0.069	**0.07**	0.152	**0.16**	0.05
499368	2506.02	Left	Tilt	/	17.78	18.00	0.032	**0.03**	0.063	**0.07**	-0.01
499368	2506.02	Right	Cheek	Fig.55	17.78	18.00	0.257	**0.27**	0.695	**0.73**	0.06
499368	2506.02	Right	Tilt	/	17.78	18.00	0.080	**0.08**	0.188	**0.20**	-0.11

Table 14.2-11: SAR Values (n41-Body worn) - NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
499368	2506.02	Front	/	20.48	20.50	0.075	**0.08**	0.143	**0.14**	0.13
499368	2506.02	Rear	Fig.56	20.48	20.50	0.213	**0.21**	0.428	**0.43**	0.05

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

Table 14.2-12: SAR Values (n41-Hotspot) - NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
499368	2506.02	Front	/	14.98	15.00	0.041	**0.04**	0.120	**0.12**	0.16
499368	2506.02	Rear	/	14.98	15.00	0.120	**0.12**	0.261	**0.26**	-0.03
499368	2506.02	Left	Fig.57	14.98	15.00	0.151	**0.15**	0.346	**0.35**	-0.07
499368	2506.02	Top	/	14.98	15.00	<0.01	<0.01	<0.01	<0.01	/

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

Table 14.2-13: SAR Values (n66–Head) - NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
342050	1712.5	Left	Cheek	/	17.12	17.50	0.132	**0.14**	0.207	**0.23**	0.08
342050	1712.5	Left	Tilt	/	17.12	17.50	0.120	**0.13**	0.206	**0.22**	-0.19
342050	1712.5	Right	Cheek	Fig.58	17.12	17.50	0.228	**0.25**	0.430	**0.47**	0.18
342050	1712.5	Right	Tilt	/	17.12	17.50	0.102	**0.11**	0.181	**0.20**	-0.01

Table 14.2-14: SAR Values (n66-Body worn) - NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
348064	1745	Front	/	23.51	24.50	0.257	**0.32**	0.386	**0.48**	-0.18
348064	1745	Rear	Fig.59	23.51	24.50	0.326	**0.41**	0.498	**0.63**	0.19

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

Table 14.2-15: SAR Values (n66-Hotspot) - NSA

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
342050	1712.5	Front	/	17.12	18.00	0.136	**0.17**	0.214	**0.26**	0.03
342050	1712.5	Rear	Fig.60	17.12	18.00	0.180	**0.22**	0.306	**0.37**	-0.19
342050	1712.5	Left	/	17.12	18.00	0.114	**0.14**	0.202	**0.25**	0.17
342050	1712.5	Top	/	17.12	18.00	0.088	**0.11**	0.153	**0.19**	-0.04

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

Table 14.2-16: SAR Values (n71–Head) - NSA

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
135650	680.5	Left	Cheek	Fig.61	18.95	19.00	0.092	**0.09**	0.126	**0.13**	0.05
135650	680.5	Left	Tilt	/	18.95	19.00	0.081	**0.08**	0.116	**0.12**	0.10
135650	680.5	Right	Cheek	/	18.95	19.00	0.089	**0.09**	0.120	**0.12**	-0.19
135650	680.5	Right	Tilt	/	18.95	19.00	0.072	**0.07**	0.101	**0.10**	0.10

Table 14.2-17: SAR Values (n71-Body worn) - NSA

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
135650	680.5	Front	/	18.95	19.00	0.047	**0.05**	0.062	**0.06**	-0.13
135650	680.5	Rear	Fig.62	18.95	19.00	0.060	**0.06**	0.079	**0.08**	0.04

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

Table 14.2-18: SAR Values (n71-Hotspot) - NSA

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
135164	680.5	Front	/	23.95	24.50	0.193	**0.22**	0.249	**0.28**	0.19
135164	680.5	Rear	Fig.63	23.95	24.50	0.273	**0.31**	0.359	**0.41**	0.03
135164	680.5	Left	/	23.95	24.50	0.058	**0.07**	0.083	**0.09**	-0.04

135164	680.5	Right	/	23.95	24.50	0.135	**0.15**	0.192	**0.22**	0.04
135164	680.5	Top	/	23.95	24.50	0.128	**0.15**	0.242	**0.27**	0.18

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

Table 14.2-19: SAR Values (n77–Head) - NSA

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C						
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
653655	3814	Left	Cheek	Fig.64	19.99	20.00	0.231	**0.23**	0.674	**0.68**	0.12
653655	3814	Left	Tilt	/	19.99	20.00	0.046	**0.05**	0.143	**0.14**	-0.06
653655	3814	Right	Cheek	/	19.99	20.00	0.098	**0.10**	0.250	**0.25**	0.03
653655	3814	Right	Tilt	/	19.99	20.00	0.026	**0.03**	0.065	**0.07**	0.09

Table 14.2-20: SAR Values (n77-Body worn) - NSA

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C						
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz										
650188	3762	Front	/	18.89	19.00	0.043	**0.04**	0.096	**0.10**	0.17	
650188	3762	Rear	Fig.65	18.89	19.00	0.226	**0.23**	0.541	**0.55**	-0.12	

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

Table 14.2-21: SAR Values (n77-Hotspot) - NSA

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C						
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz										
657121	3866	Front	/	16.99	17.00	0.042	**0.04**	0.106	**0.11**	-0.11	
657121	3866	Rear	Fig.66	16.99	17.00	0.264	**0.26**	0.711	**0.71**	-0.09	
657121	3866	Right	/	16.99	17.00	0.239	**0.24**	0.657	**0.66**	-0.06	
657121	3866	Top	/	16.99	17.00	0.021	**0.02**	0.047	**0.05**	0.07	

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

14.3 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 14.3-1: SAR Values (WLAN - Head)– 802.11b (Fast SAR)

Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C						
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)
Ch.	MHz										
6	2437	Left	Cheek	Note1	21.78	22.00	0.234	**0.25**	0.455	**0.48**	0.10
6	2437	Left	Tilt	Note1	21.78	22.00	0.231	**0.24**	0.466	**0.49**	-0.03
11	2462	Right	Cheek	Note1	21.51	22.00	0.388	**0.43**	0.865	**0.97**	0.07
6	2437	Right	Cheek	Note1	21.78	22.00	0.426	**0.45**	0.933	**0.98**	0.06
1	2412	Right	Cheek	Note1	21.25	22.00	0.294	**0.35**	0.636	**0.76**	-0.11
6	2437	Right	Tilt	Note1	21.78	22.00	0.310	**0.33**	0.651	**0.68**	0.07
6	2437	Left	Cheek	Note2	14.47	15.00	0.041	**0.05**	0.071	**0.08**	0.12
6	2437	Left	Tilt	Note2	14.47	15.00	0.045	**0.05**	0.086	**0.10**	-0.03
6	2437	Right	Cheek	Note2	14.47	15.00	0.085	**0.10**	0.174	**0.20**	-0.17
6	2437	Right	Tilt	Note2	14.47	15.00	0.058	**0.07**	0.113	**0.13**	-0.06

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 “Right Cheek”. So the head SAR of WLAN is presented as below:

Table 14.3-2: SAR Values (WLAN - Head)– 802.11b (Full SAR)

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Power Drift (dB)
Ch.	MHz										
11	2462	Right	Cheek	/	21.51	22.00	0.385	**0.43**	0.870	**0.97**	0.07
6	2437	Right	Cheek	Fig.67	21.78	22.00	0.430	**0.45**	0.938	**0.99**	0.06
6	2437	Right	Tilt	/	21.78	22.00	0.313	**0.33**	0.646	**0.68**	0.07
6	2437	Right	Cheek	/	14.47	15.00	0.083	**0.09**	0.176	**0.20**	-0.17

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.

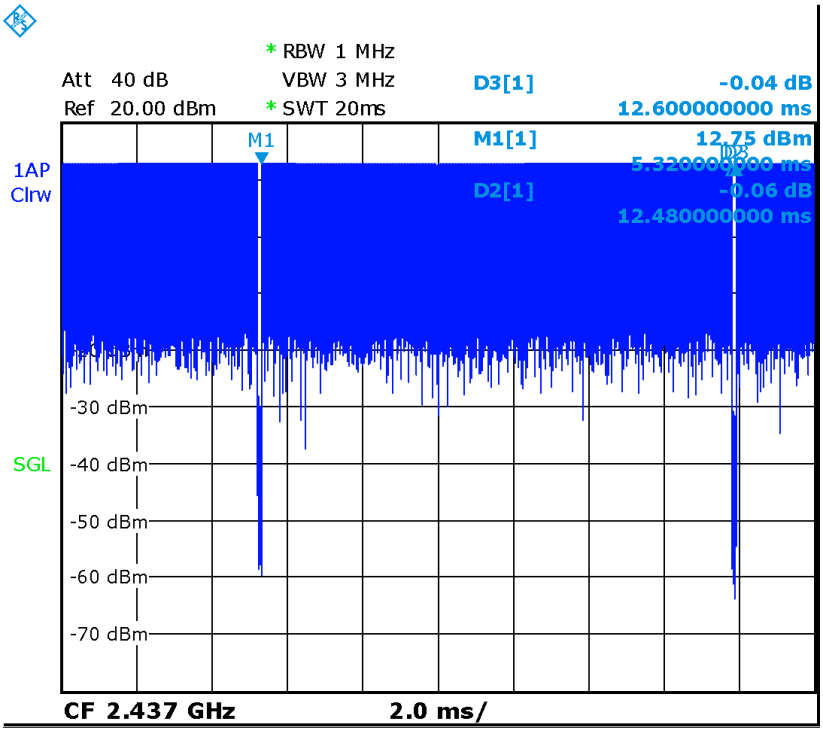
Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg 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 14.3-3: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

Ambient Temperature: 22.9 ºC			Liquid Temperature: 22.5ºC				
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	Right	Cheek	99%	100%	**0.99**	**1.00**

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



Picture 14.3-1 Duty factor plot

Body Evaluation

Table 14.3-4: 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)
Ch.	MHz									
6	2437	Front	Note1	21.78	22.00	0.066	**0.07**	0.116	**0.12**	0.06
6	2437	Rear	Note1	21.78	22.00	0.106	**0.11**	0.206	**0.22**	-0.13
6	2437	Front	Note2	9.92	11.00	<0.01	<0.01	<0.01	<0.01	/
6	2437	Rear	Note2	9.92	11.00	0.002	**0.00**	0.007	**0.01**	0.04
6	2437	Front	Note3	16.43	17.00	0.034	**0.04**	0.068	**0.08**	0.09
6	2437	Rear	Note3	16.43	17.00	0.070	**0.08**	0.150	**0.17**	-0.10
6	2437	Left	Note3	16.43	17.00	<0.01	<0.01	<0.01	<0.01	/
6	2437	Top	Note3	16.43	17.00	0.034	**0.04**	0.068	**0.08**	-0.06

Note1: The results are used for Wifi transmit standalone, the distance between the EUT and the phantom bottom is 15mm.

Note2: The results are used for Wifi transmit with WWAN, the distance between the EUT and the phantom bottom is 15mm.

Note3: The results are used for hotspot mode, 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 14.3-5: 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)
Ch.	MHz									
6	2437	Rear	Fig.A.68	21.78	22.00	0.106	**0.11**	0.206	**0.22**	-0.13
6	2437	Rear	Fig.A.69	16.43	17.00	0.070	**0.08**	0.150	**0.17**	-0.10

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.

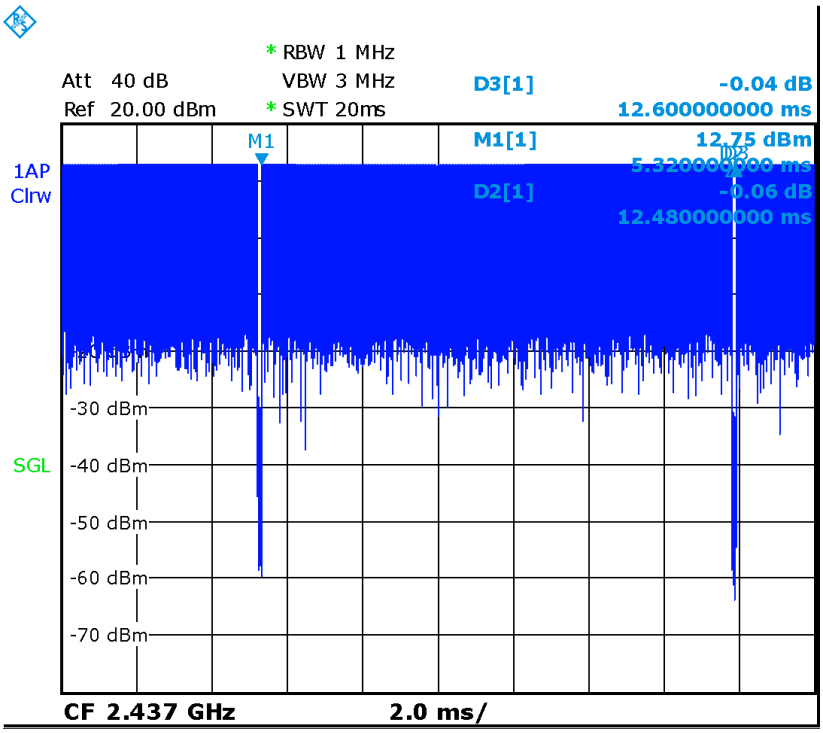
Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg 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 14.3-6: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC						
Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
Ch.	MHz					
6	2437	Rear	99%	100%	**0.22**	**0.22**
6	2437	Rear	99%	100%	**0.17**	**0.17**

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



Picture 14.3-2 Duty factor plot

14.4 WLAN Evaluation For 5G

Table 14.4-1: 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 14.4-2: Maximum output power specified of WLAN antenna – Head and Body worn– Transmit alone

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	71		54	43	45	50	45	
U-NII-2A	71		54	43	45	50	45	
U-NII-2C	71		54	43	45	63	45	
U-NII-3	71		54	68	63	63	50	
§ 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 14.4-3: Maximum output power specified of WLAN antenna –Head – Transmit with WWAN

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	16		13	13	13	13	13	
U-NII-2A	16		13	13	13	13	13	
U-NII-2C	22		13	13	13	13	13	
U-NII-3	22		13	13	13	13	13	
§ 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 14.4-4: Maximum output power specified of WLAN antenna – Body worn – Transmit with WWAN

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	22		20	20	20	20	20	
U-NII-2A	25		20	20	20	20	20	
U-NII-2C	32		20	20	20	20	20	
U-NII-3	32		20	20	20	20	20	
§ 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 14.4-5: Maximum output power specified of WLAN antenna – Hotspot

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	11		9	9	9	9	9	
U-NII-2A	11		9	9	9	9	9	
U-NII-2C	14		9	9	9	9	9	
U-NII-3	14		9	9	9	9	9	
§ 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 14.4-6: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations – Head and Body worn– Transmit alone

802.11 Mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 **58/61/60/62**	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 **64/60/59/58**	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 **70/65/57/54/56/56/ 60/61/63/58/54/54**	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	106/122/ 138 Lower power
U-NII-3	149/153/157/161/ 165 **54/62/62/70/59**	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 14.4-7: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations – Head – Transmit with WWAN

802.11 Mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 **12/13/13/14**	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 **14/13/13/11**	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 **15/12/11/10/11/12/ 14/15/15/14/13/13**	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	106/122/ 138 Lower power
U-NII-3	149/153/157/161/ 165 **13/14/16/18/22**	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 14.4-8: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations – Body worn– Transmit with WWAN

802.11 Mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 **17/18/19/21**	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 **22/21/19/17**	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 **23/18/17/15/16/18/ 21/24/23/21/20/19**	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	106/122/ 138 Lower power
U-NII-3	149/153/157/161/ 165 **19/21/25/30/31**	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 14.4-9: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations – Body – Transmit with WWAN

802.11 Mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 **17/18/19/21**	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 **22/21/19/17**	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 **23/18/17/15/16/18/**	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	106/122/ 138 Lower power

	21/24/23/21/20/19					
U-NII-3	149/153/157/161/165 **19/21/25/30/31**	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 14.4-10: Reported SAR of initial test configuration for Head transmit alone

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 **0.47**	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 **0.77**	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	106/122/138
U-NII-3	149/153/157/161/165 **0.27**	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 14.4-11: Reported SAR of initial test configuration for Head transmit with WWAN

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 **0.14**	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 **0.09**	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	106/122/138
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 14.4-12: Reported SAR of initial test configuration for Body worn transmit alone

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 **0.45**	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 **0.26**	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	106/122/138
U-NII-3	149/153/157/161/165 **0.24**	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 14.4-13: Reported SAR of initial test configuration for Body worn transmit with WWAN

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 **0.09**	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	106/122/138
U-NII-3	149/153/157/161/165 **0.11**	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 14.4-14: Reported SAR of initial test configuration for Hotspot

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 **0.08**	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 **0.04**	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	106/122/138
U-NII-3	149/153/157/161/165 **0.04**	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 14.4-15: 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	Note1	18.04	18.50	0.031	**0.03**	0.082	**0.09**	-0.08
52	5260	Left	Tilt	Note1	18.04	18.50	0.037	**0.04**	0.106	**0.12**	0.06
52	5260	Right	Cheek	Note1	18.04	18.50	0.109	**0.12**	0.420	**0.47**	-0.10
52	5260	Right	Tilt	Note1	18.04	18.50	0.103	**0.11**	0.355	**0.39**	-0.19
100	5500	Left	Cheek	Note1	18.48	18.50	0.081	**0.08**	0.227	**0.23**	0.10
100	5500	Left	Tilt	Note1	18.48	18.50	0.090	**0.09**	0.271	**0.27**	0.17
100	5500	Right	Cheek	Note1 /Fig.70	18.48	18.50	0.223	**0.22**	0.770	**0.77**	-0.09
100	5500	Right	Tilt	Note1	18.48	18.50	0.189	**0.19**	0.618	**0.62**	-0.11
161	5805	Left	Cheek	Note1	18.47	18.50	0.031	**0.03**	0.083	**0.08**	-0.19
161	5805	Left	Tilt	Note1	18.47	18.50	0.034	**0.03**	0.097	**0.10**	0.09
161	5805	Right	Cheek	Note1	18.47	18.50	0.092	**0.09**	0.268	**0.27**	0.13
161	5805	Right	Tilt	Note1	18.47	18.50	0.066	**0.07**	0.204	**0.21**	-0.10
52	5260	Left	Cheek	Note2	11.55	12.00	0.010	**0.01**	0.043	**0.05**	0.10
52	5260	Left	Tilt	Note2	11.55	12.00	0.011	**0.01**	0.057	**0.06**	-0.06
52	5260	Right	Cheek	Note2	11.55	12.00	0.032	**0.04**	0.123	**0.14**	-0.11
52	5260	Right	Tilt	Note2	11.55	12.00	0.025	**0.03**	0.089	**0.10**	-0.04
128	5640	Left	Cheek	Note2	11.83	12.00	0.010	**0.01**	0.053	**0.06**	-0.02
128	5640	Left	Tilt	Note2	11.83	12.00	0.008	**0.01**	0.047	**0.05**	0.12
128	5640	Right	Cheek	Note2	11.83	12.00	0.028	**0.03**	0.087	**0.09**	-0.09
128	5640	Right	Tilt	Note2	11.83	12.00	0.014	**0.01**	0.048	**0.05**	-0.18
165	5825	Left	Cheek	Note2	13.36	13.50	0.013	**0.01**	0.059	**0.06**	0.07
165	5825	Left	Tilt	Note2	13.36	13.50	0.012	**0.01**	0.063	**0.07**	0.01
165	5825	Right	Cheek	Note2	13.36	13.50	0.024	**0.02**	0.081	**0.08**	0.13
165	5825	Right	Tilt	Note2	13.36	13.50	0.017	**0.02**	0.057	**0.06**	-0.18

Note1: The results are used for Wifi transmit standalone.

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

Table 14.4-16: SAR Values (WLAN 5G – Body worn)

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	18.04	18.50	0.020	**0.02**	0.062	**0.07**	0.03
52	5260	Rear	Note1 /Fig.71	18.04	18.50	0.153	**0.17**	0.407	**0.45**	-0.12
128	5640	Front	Note1	18.04	18.50	0.023	**0.03**	0.095	**0.11**	-0.03
128	5640	Rear	Note1	18.04	18.50	0.091	**0.10**	0.233	**0.26**	-0.03
165	5825	Front	Note1	18.04	18.50	0.016	**0.02**	0.073	**0.08**	0.15
165	5825	Rear	Note1	18.04	18.50	0.008	**0.01**	0.220	**0.24**	0.02
52	5260	Front	Note2	13.42	13.50	0.010	**0.01**	0.039	**0.04**	0.03
52	5260	Rear	Note2	13.42	13.50	0.057	**0.06**	0.156	**0.16**	-0.10
128	5640	Front	Note2	13.73	14.00	0.007	**0.01**	0.032	**0.03**	0.06
128	5640	Rear	Note2	13.73	14.00	0.032	**0.03**	0.087	**0.09**	-0.12
165	5825	Front	Note2	14.86	15.00	0.011	**0.01**	0.042	**0.04**	0.03
165	5825	Rear	Note2	14.86	15.00	0.038	**0.04**	0.103	**0.11**	-0.12

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 15mm.

Table 14.4-17: SAR Values (WLAN 5G – Hotspot)

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	/	9.94	10.50	0.005	**0.01**	0.024	**0.03**	0.08
52	5260	Rear	Fig.72	9.94	10.50	0.025	**0.03**	0.073	**0.08**	0.06
52	5260	Left	/	9.94	10.50	0.020	**0.02**	0.057	**0.06**	-0.15
52	5260	Top	/	9.94	10.50	0.006	**0.01**	0.029	**0.03**	-0.04
128	5640	Front	/	10.06	10.50	0.005	**0.01**	0.024	**0.03**	0.06
128	5640	Rear	/	10.06	10.50	0.012	**0.01**	0.032	**0.04**	0.17
128	5640	Left	/	10.06	10.50	0.013	**0.01**	0.033	**0.04**	-0.11
128	5640	Top	/	10.06	10.50	0.005	**0.01**	0.024	**0.03**	-0.10
165	5825	Front	/	11.22	11.50	0.009	**0.01**	0.034	**0.04**	-0.19
165	5825	Rear	/	11.22	11.50	0.014	**0.01**	0.042	**0.04**	0.03
165	5825	Left	/	11.22	11.50	0.013	**0.01**	0.037	**0.04**	-0.13
165	5825	Top	/	11.22	11.50	0.007	**0.01**	0.033	**0.04**	0.05

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

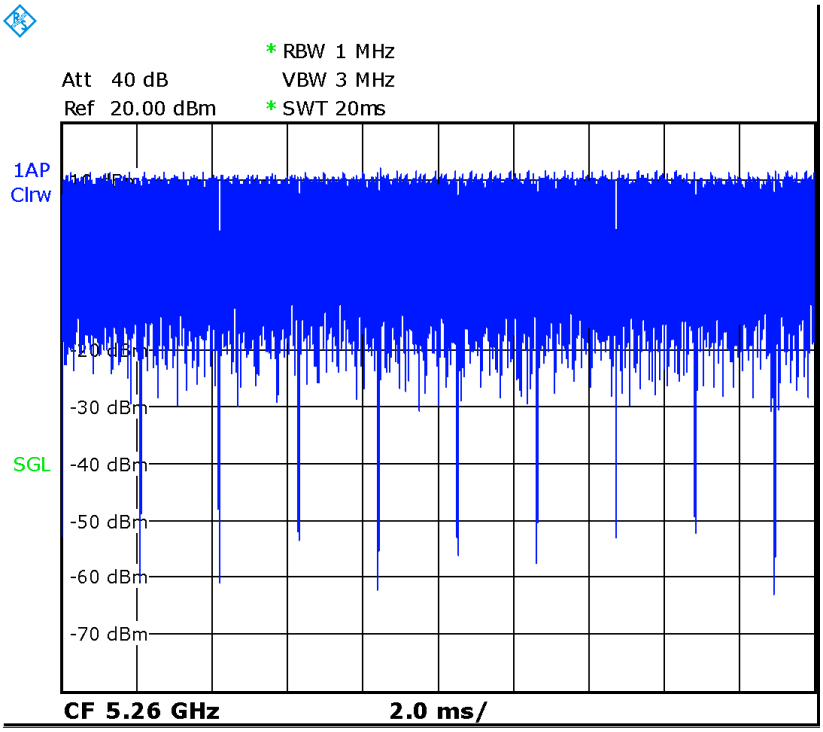
According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

Table 14.4-16: SAR Values (WLAN 5G - Head) (Scaled Reported SAR)

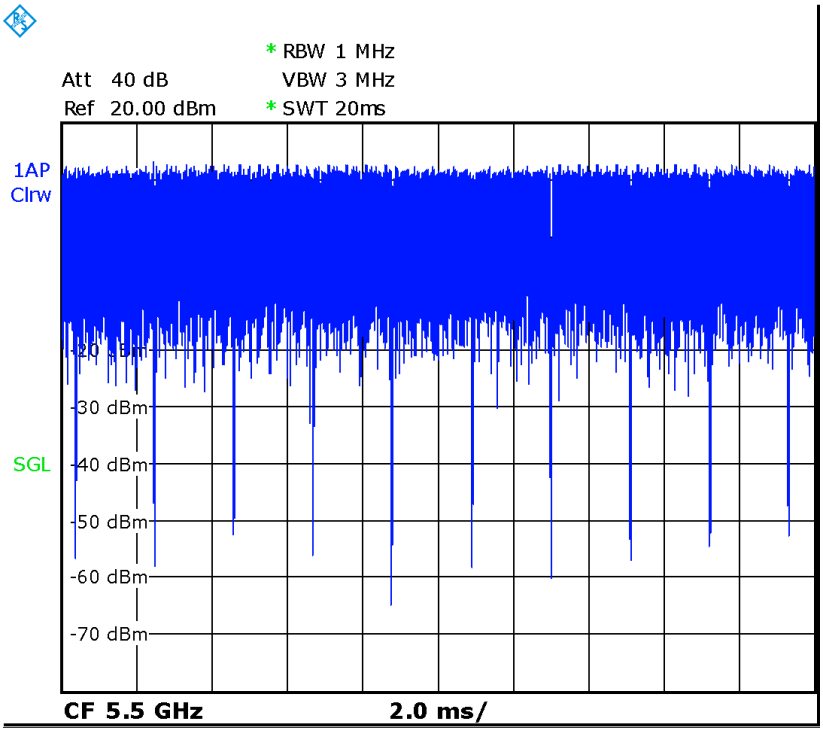
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
Ch.	MHz						
100	5500	Right	Cheek	100%	100%	**0.77**	**0.77**

Table 14.4-17: 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						
52	5260	Rear	15	100%	100%	**0.45**	**0.45**
52	5260	Rear	10	100%	100%	**0.08**	**0.08**



Picture 14.4-1 The plot of duty factor for CH.52



Picture 14.4-2 The plot of duty factor for CH.100

14.5 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.

Table 14.5-1: SAR Values for phablet

Band	Frequency		Test Mode	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
	Ch.	MHz									
GSM1900	512	1850.2	2Tx-Rear	/	28.42	28.70	1.630	**1.77**	5.200	**5.55**	0.08
GSM1900	661	1880	2Tx-Rear	/	27.93	28.70	1.250	**1.51**	4.180	**4.99**	-0.09
GSM1900	810	1909.8	2Tx-Rear	/	27.15	28.70	0.940	**1.27**	3.070	**4.39**	-0.11
LTE B5	20600	844	1RB Mid-Rear	/	18.39	19.00	0.177	**0.20**	0.311	**0.36**	0.09
LTE B12	23060	704	1RB Mid-Rear	/	18.32	19.00	0.156	**0.18**	0.289	**0.34**	0.09
LTE B13	23230	782	1RB Mid-Rear	/	17.97	19.00	0.187	**0.24**	0.326	**0.41**	-0.03
LTE 2-ANT0	18700	1860	1RB Low-Rear	/	7.93	8.00	0.061	**0.06**	0.169	**0.17**	0.13
LTE B66-ANT0	132072	1720	1RB Mid-Rear	/	7.08	8.00	0.09	**0.11**	0.186	**0.23**	-0.03
LTE B66-ANT0	132072	1720	1RB Mid-Left	/	7.08	8.00	0.002	**0.00**	0.005	**0.01**	0.03
LTE B66-ANT0	132072	1720	1RB Mid-Right	/	7.08	8.00	0.025	**0.03**	0.068	**0.08**	-0.11
LTE B41-PC2	39750	2506	1RB Mid-Rear	/	24.62	25.20	2.89	**3.30**	7.88	**9.01**	0.08
LTE B41-PC2	40185	2549.9	1RB Mid-Rear	/	24.72	25.20	2.71	**3.03**	6.67	**7.45**	0.12
LTE B41-PC2	40620	2593	1RB Mid-Rear	/	24.71	25.20	2.630	**2.94**	6.880	**7.70**	24.71
LTE B41-PC2	41055	2636.5	1RB Mid-Rear	/	24.66	25.20	2.82	**3.19**	7.48	**8.47**	0.03
LTE B41-PC2	41490	2680	1RB Mid-Rear	/	24.37	25.20	1.92	**2.32**	4.48	**5.42**	0.17
LTE B41-PC2	39750	2506	1RB Mid-Left	/	24.62	25.20	3.03	**3.46**	9.36	**10.70**	-0.06
LTE B41-PC2	40185	2549.9	1RB-Mid Left	/	24.72	25.20	3.05	**3.41**	9.15	**10.22**	-0.08
LTE B41-PC2	40620	2593	1RB-Mid Left	Fig.73	24.71	25.20	3.130	**3.50**	9.790	**10.96**	0.11
LTE B41-PC2	41055	2636.5	1RB-Mid Left	/	24.66	25.20	3.05	**3.45**	9.2	**10.42**	0.12
LTE B41-PC2	41490	2680	1RB-Mid Left	/	24.37	25.20	2.4	**2.91**	6.3	**7.63**	-0.09
N66	354064	1775	Rear	/	23.77	24.50	2.320	**2.74**	5.110	**6.05**	0.07
N66	348064	1745	Rear	/	23.81	24.50	2.590	**3.04**	5.330	**6.25**	0.03
N66	342064	1715	Rear	/	23.75	24.50	2.440	**2.90**	5.160	**6.13**	-0.11
N77	664054	3969.99	Rear	/	18.77	19.00	1.92	**2.02**	7.57	**7.98**	-0.13
N77	660588	3918	Rear	/	18.81	19.00	2.12	**2.21**	8.08	**8.44**	0.06
N77	657121	3866	Rear	/	18.82	19.00	2.42	**2.52**	9.24	**9.63**	-0.19
N77	653655	3814	Rear	/	18.82	19.00	2.61	**2.72**	10.41	**10.85**	-0.02

N77	650188	3762	Rear	/	18.89	19.00	2.71	**2.78**	10.7	**10.97**	0.03
N77	646722	3710.01	Rear	/	18.76	19.00	2.56	**2.71**	10.41	**11.00**	0.00
N77	664054	3969.99	Right	/	18.77	19.00	1.73	**1.82**	6.87	**7.24**	0.00
N77	660588	3918	Right	/	18.81	19.00	1.78	**1.86**	6.51	**6.80**	-0.01
N77	657121	3866	Right	/	18.82	19.00	2.28	**2.38**	9.61	**10.02**	-0.15
N77	653655	3814	Right	/	18.82	19.00	2.21	**2.30**	8.23	**8.58**	-0.13
N77	650188	3762	Right	/	18.89	19.00	2.12	**2.17**	7.93	**8.13**	-0.09
N77	646722	3710.01	Right	/	18.76	19.00	2.08	**2.20**	7.64	**8.07**	0.09
WIFI2450	6	2437	Rear	/	9.92	11.00	0.12	**0.15**	0.278	**0.36**	0.13
WIFI2450	6	2437	Left	/	9.92	11.00	0.038	**0.05**	0.084	**0.11**	0.09
WIFI5G	52	5260	Rear	/	13.42	13.50	0.448	**0.46**	2.12	**2.16**	0.13
WIFI5G	52	5260	Left	/	13.42	13.50	0.281	**0.29**	1.39	**1.42**	-0.09

Note1: The distance between the EUT and the phantom bottom is 0mm.

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

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	June 16, 2020	One year
03	Power sensor	NRP-Z91	101547		
04	Signal Generator	E4438C	MY49071430	February 1, 2021	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	CMW500	159889	January 13, 2021	One year
07	E-field Probe	SPEAG EX3DV4	7548	June 16, 2020	One year
08	DAE	SPEAG DAE4	1331	September 2, 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 D3700V2	1004	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_CH190 Left Tilt
Date: 5/21/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 836.6 MHz; σ = 0.892 mho/m; εr = 41.27; 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 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.54 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.627 W/kg; SAR(10 g) = 0.317 W/kg
Maximum value of SAR (measured) = 1.04 W/kg

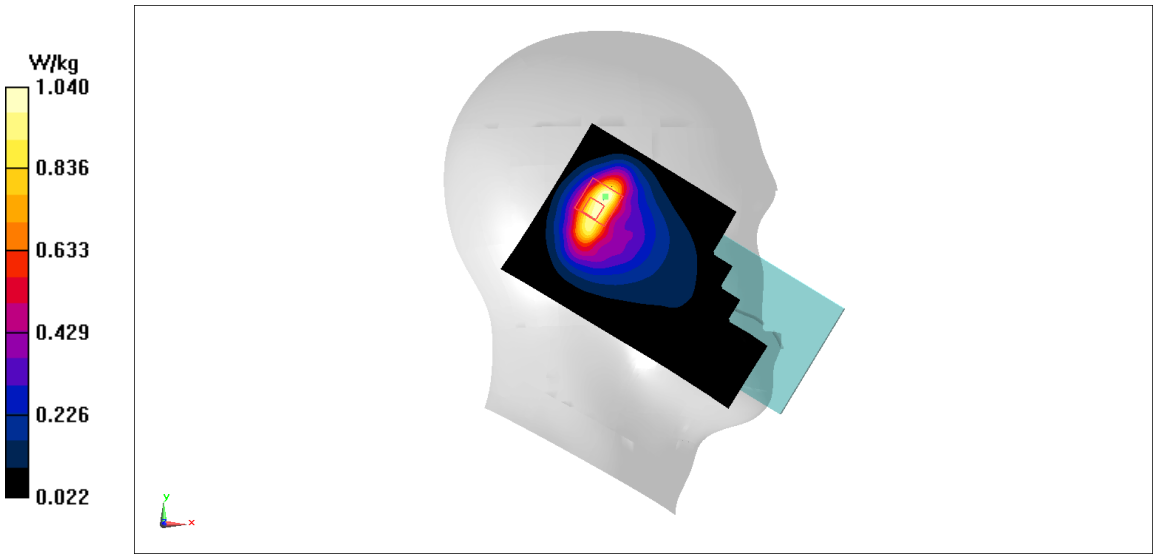


Fig A.1

GSM850_CH190 Top 10mm
Date: 5/21/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 836.6 MHz; σ = 0.892 mho/m; εr = 41.27; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: GSM850 836.6 MHz Duty Cycle: 1:4
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.388 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.44 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.543 W/kg
SAR(1 g) = 0.254 W/kg; SAR(10 g) = 0.131 W/kg
Maximum value of SAR (measured) = 0.423 W/kg

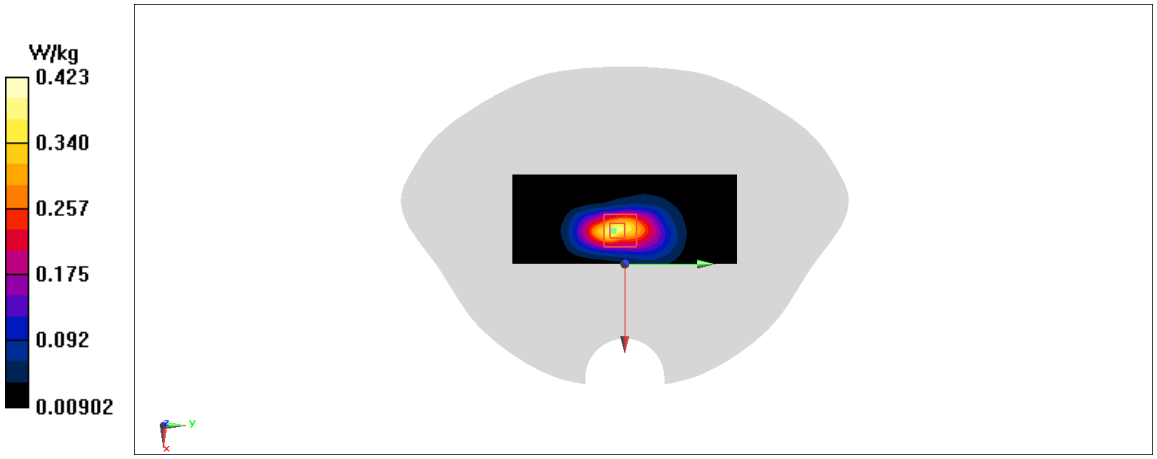


Fig A.2

PCS1900_CH512 Right Cheek
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1850.2 MHz; σ = 1.366 mho/m; εr = 39.83; 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 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.02 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.89 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.38 W/kg
SAR(1 g) = 0.697 W/kg; SAR(10 g) = 0.362 W/kg
Maximum value of SAR (measured) = 1.1 W/kg

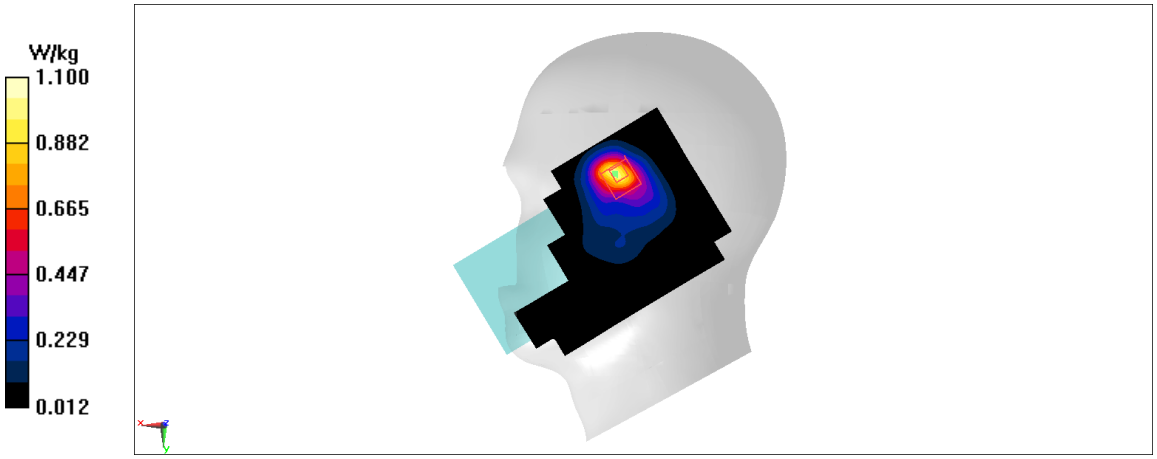


Fig A.3

PCS1900_CH512 Rear 15mm_Body Worn
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1850.2 MHz; σ = 1.366 mho/m; εr = 39.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: PCS1900 1850.2 MHz Duty Cycle: 1:4
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.666 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.05 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.569 W/kg; SAR(10 g) = 0.182 W/kg
Maximum value of SAR (measured) = 0.578 W/kg

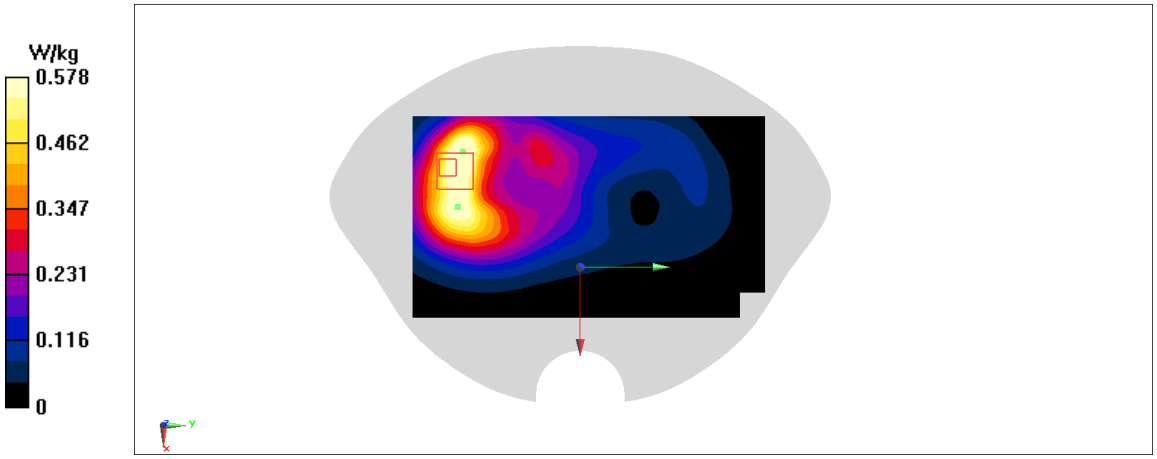


Fig A.4

PCS1900_CH512 Rear 10mm_Hotspot
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1850.2 MHz; σ = 1.366 mho/m; εr = 39.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: PCS1900 1850.2 MHz Duty Cycle: 1:4
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.931 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.09 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.555 W/kg; SAR(10 g) = 0.294 W/kg
Maximum value of SAR (measured) = 0.859 W/kg

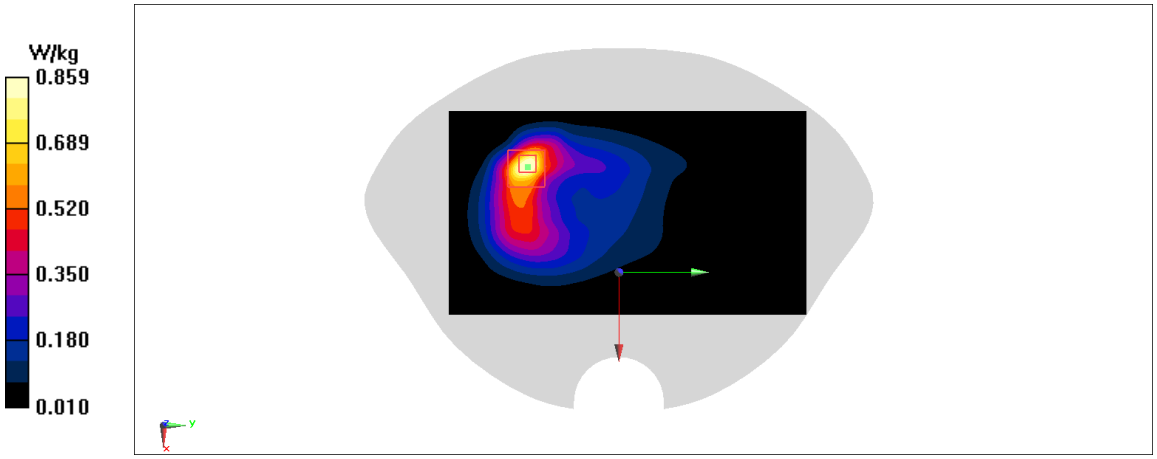


Fig A.5

WCDMA1900-BII_CH9400 Right Cheek
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.394 mho/m; εr = 39.79; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.518 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.46 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.612 W/kg
SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.173 W/kg
Maximum value of SAR (measured) = 0.486 W/kg

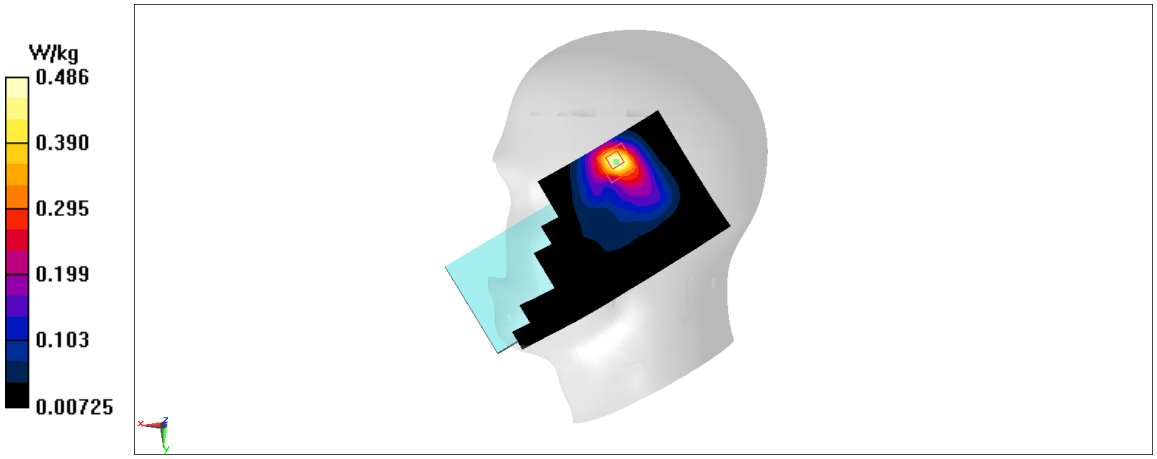


Fig A.6

WCDMA1900-BII_CH9262 Front 15mm_Body Worn
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.4 MHz; σ = 1.367 mho/m; εr = 39.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.411 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.67 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.492 W/kg
SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.191 W/kg
Maximum value of SAR (measured) = 0.407 W/kg

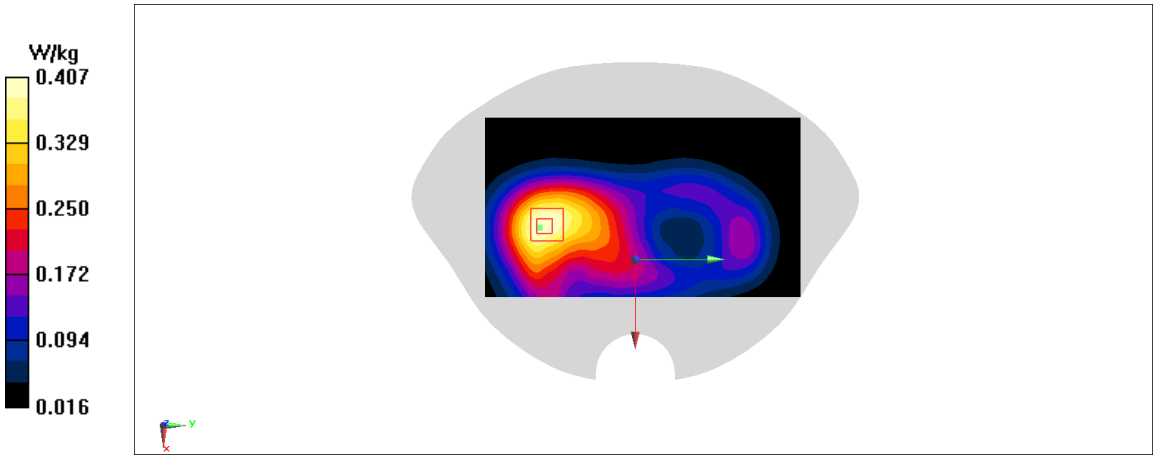


Fig A.7

WCDMA1900-BII_CH9262 Rear 10mm_Hotspot
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.4 MHz; σ = 1.367 mho/m; εr = 39.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.741 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.042 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.881 W/kg
SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.244 W/kg
Maximum value of SAR (measured) = 0.697 W/kg

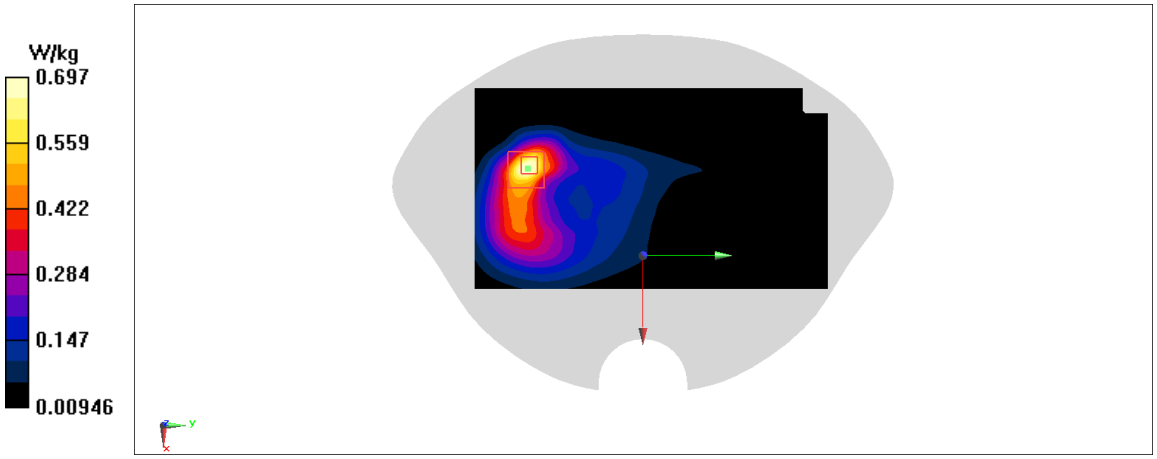


Fig A.8

WCDMA1700-BIV_CH1412 Right Cheek
Date: 5/23/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1732.4 MHz; σ = 1.328 mho/m; εr = 40.15; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1700-BIV 1732.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.913 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.41 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.56 W/kg; SAR(10 g) = 0.293 W/kg
Maximum value of SAR (measured) = 0.883 W/kg

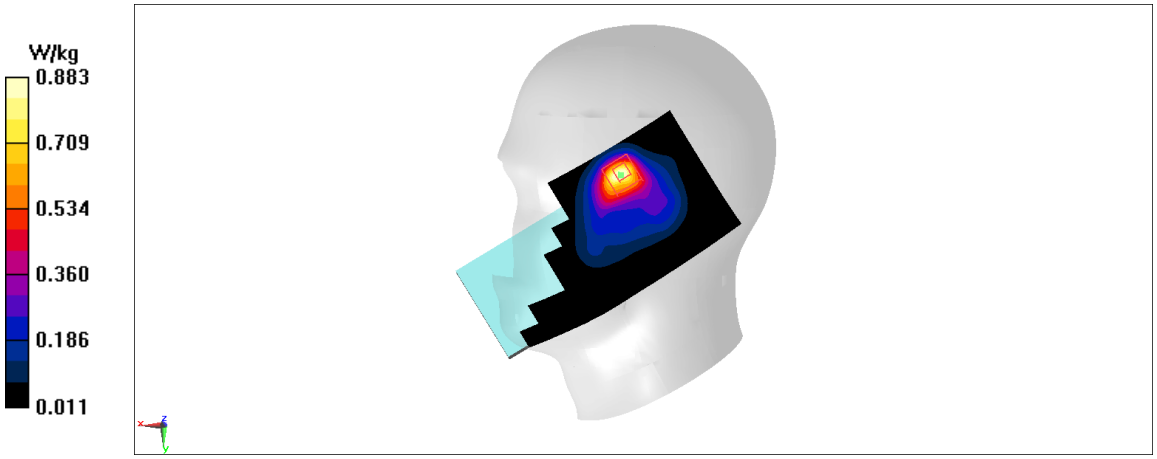


Fig A.9

WCDMA1700-BIV_CH1513 Rear 15mm_Body Worn
Date: 5/23/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1752.6 MHz; σ = 1.348 mho/m; εr = 40.13; 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 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.622 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.7 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.705 W/kg
SAR(1 g) = 0.447 W/kg; SAR(10 g) = 0.288 W/kg
Maximum value of SAR (measured) = 0.609 W/kg

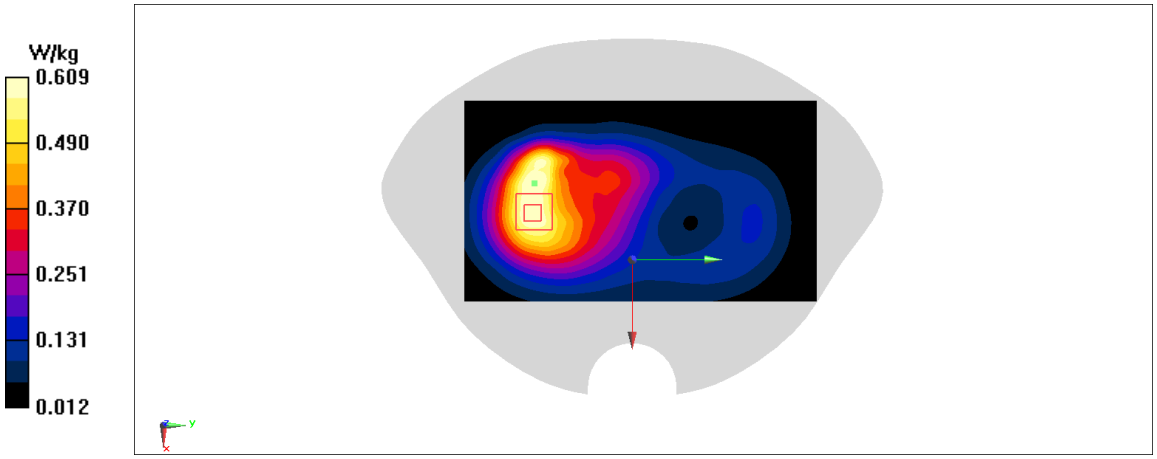


Fig A.10

WCDMA1700-BIV_CH1513 Rear 10mm_Hotspot
Date: 5/23/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1752.6 MHz; σ = 1.348 mho/m; εr = 40.13; 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 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.752 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.289 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.819 W/kg
SAR(1 g) = 0.444 W/kg; SAR(10 g) = 0.256 W/kg
Maximum value of SAR (measured) = 0.659 W/kg

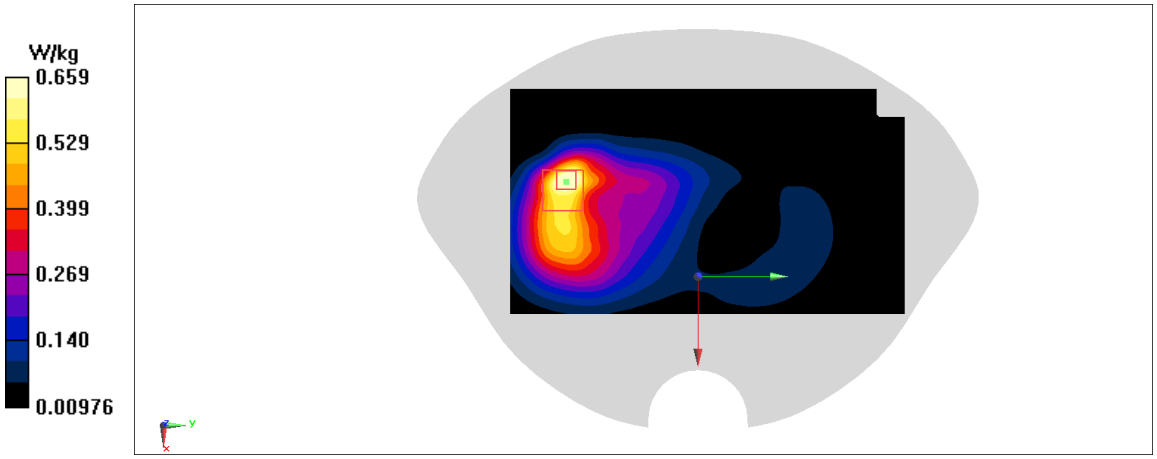


Fig A.11

WCDMA850-BV_CH4183 Left Tilt
Date: 5/21/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 836.6 MHz; σ = 0.892 mho/m; εr = 41.27; 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 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.673 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.16 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.869 W/kg
SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.211 W/kg
Maximum value of SAR (measured) = 0.636 W/kg

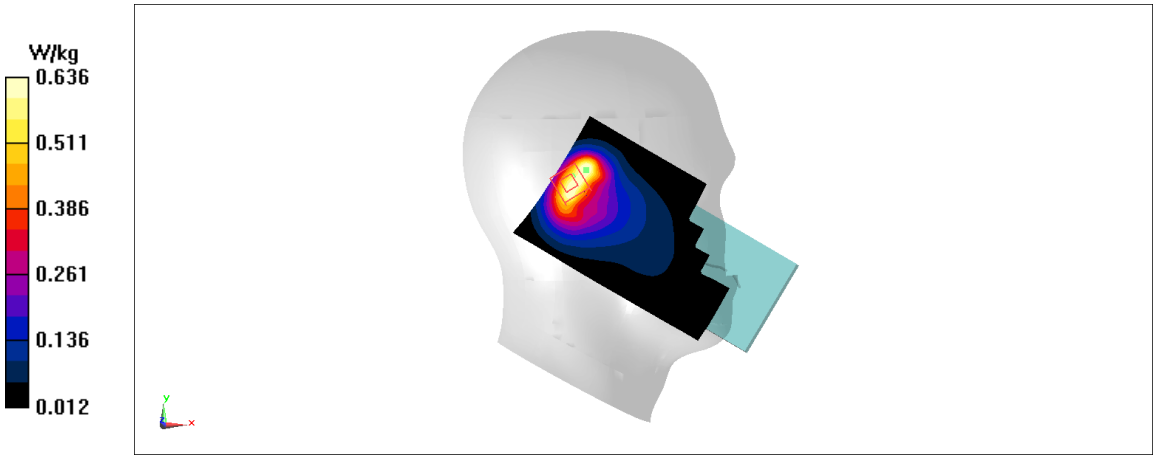


Fig A.12

WCDMA850-BV_CH4233 Rear 10mm
Date: 5/21/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 846.6 MHz; σ = 0.901 mho/m; εr = 41.26; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA850-BV 846.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.289 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.84 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.349 W/kg
SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.13 W/kg
Maximum value of SAR (measured) = 0.297 W/kg

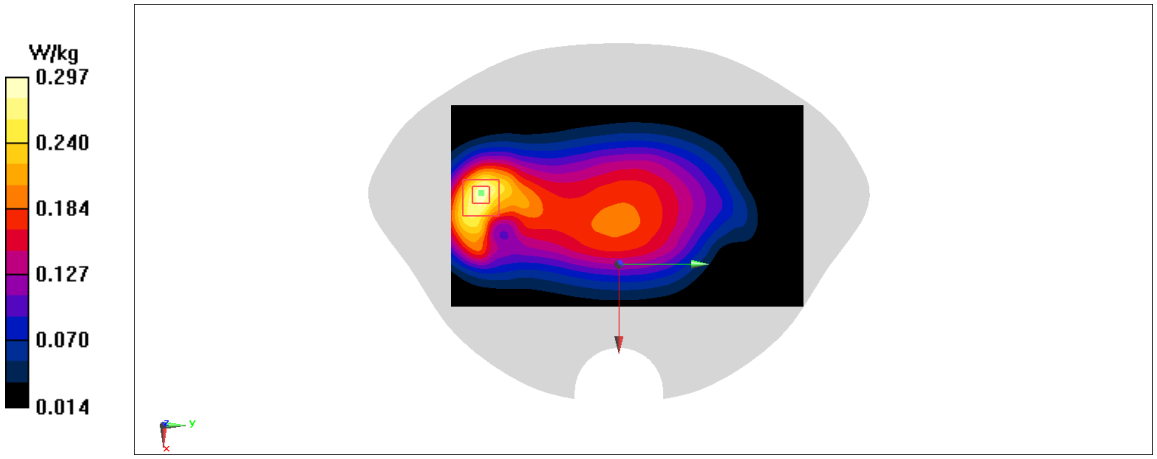


Fig A.13

LTE1900-FDD2_CH18900 Right Cheek-ANT4
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.394 mho/m; εr = 39.79; 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 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.838 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.8 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.293 W/kg
Maximum value of SAR (measured) = 0.873 W/kg

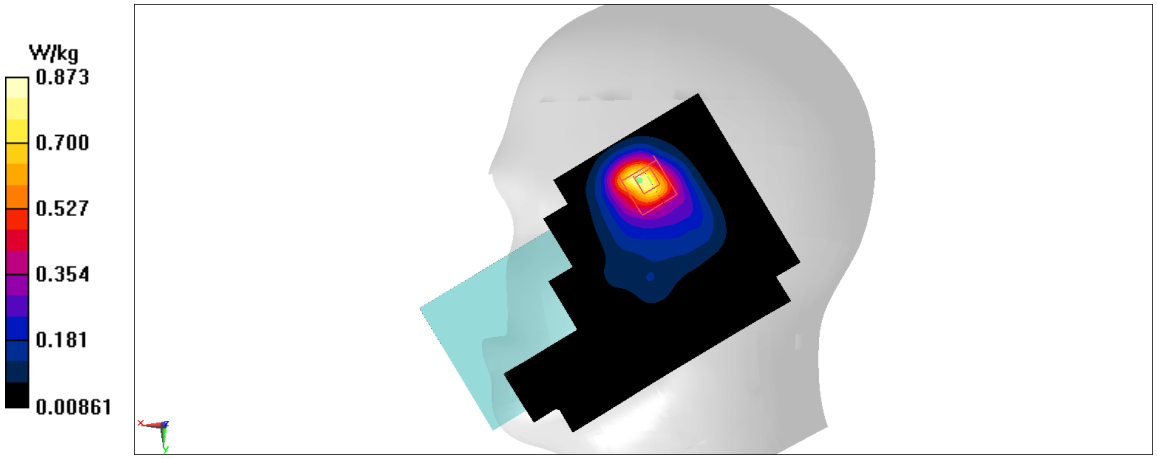


Fig A.14

LTE1900-FDD2_CH18900 Rear 15mm_Body Worn-ANT4
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.394 mho/m; εr = 39.79; 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 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.65 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.272 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.758 W/kg
SAR(1 g) = 0.44 W/kg; SAR(10 g) = 0.261 W/kg
Maximum value of SAR (measured) = 0.642 W/kg

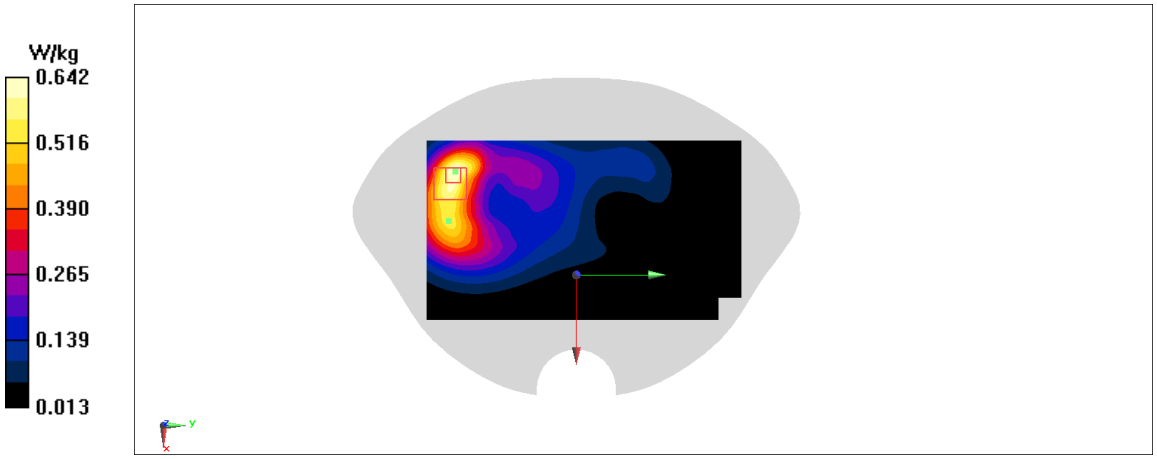


Fig A.15

LTE1900-FDD2_CH19100 Rear 10mm_Hotspot-ANT4
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.413 mho/m; εr = 39.77; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.72 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.911 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.857 W/kg
SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.233 W/kg
Maximum value of SAR (measured) = 0.694 W/kg

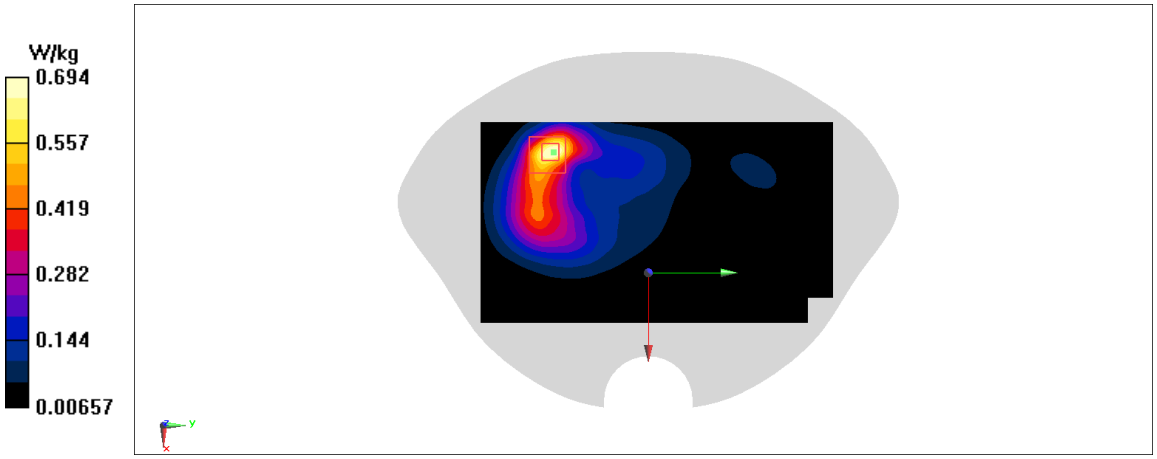


Fig A.16

LTE1900-FDD2_CH18700 Left Cheek_ANT0
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; σ = 1.375 mho/m; εr = 39.82; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.127 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.404 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.146 W/kg
SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.059 W/kg
Maximum value of SAR (measured) = 0.128 W/kg

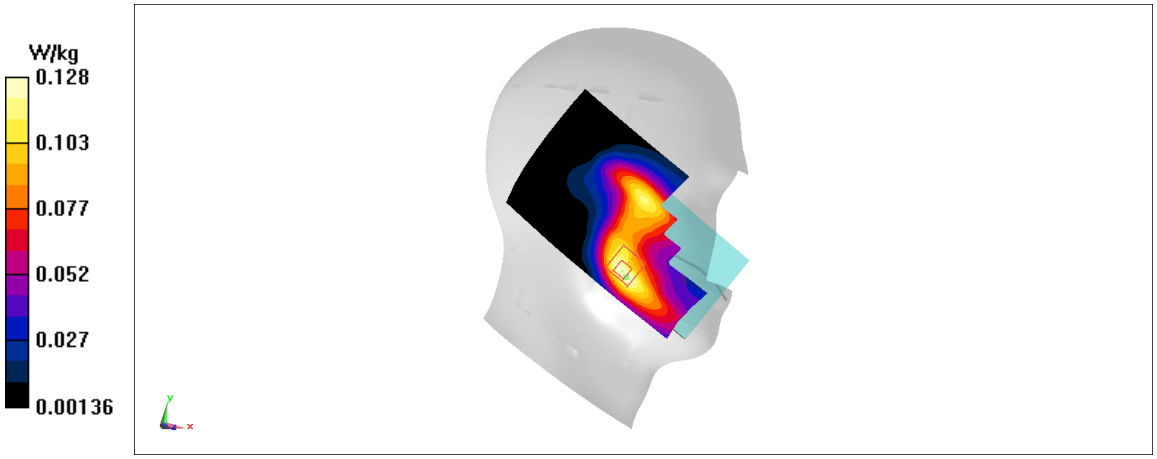


Fig A.17

LTE1900-FDD2_CH18700 Bottom 10mm_ANT0
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; σ = 1.375 mho/m; εr = 39.82; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.576 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.03 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.729 W/kg
SAR(1 g) = 0.386 W/kg; SAR(10 g) = 0.198 W/kg
Maximum value of SAR (measured) = 0.608 W/kg

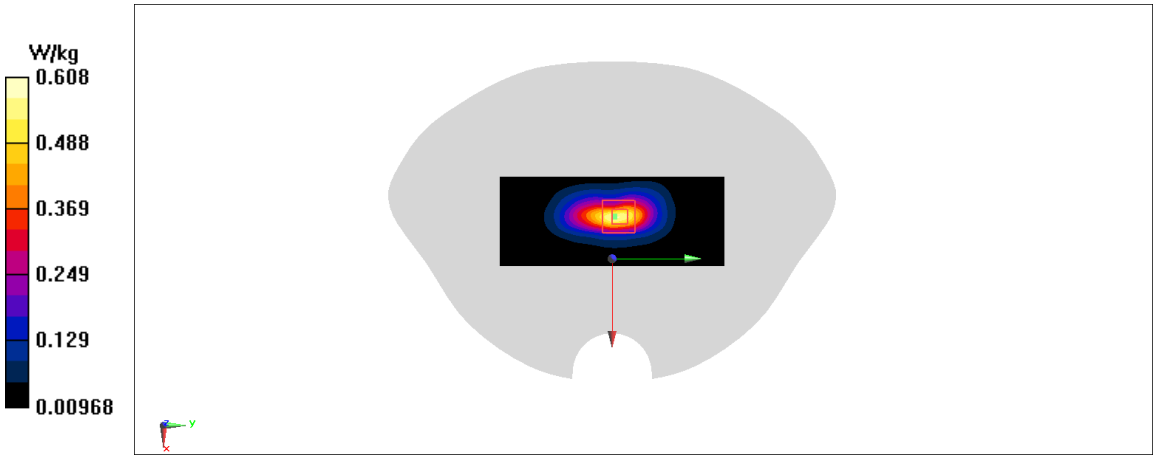


Fig A.18

LTE850-FDD5_CH20525 Left Tilt
Date: 5/21/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 836.5 MHz; σ = 0.891 mho/m; εr = 41.27; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE850-FDD5 836.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.943 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.76 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.407 W/kg
Maximum value of SAR (measured) = 1.35 W/kg

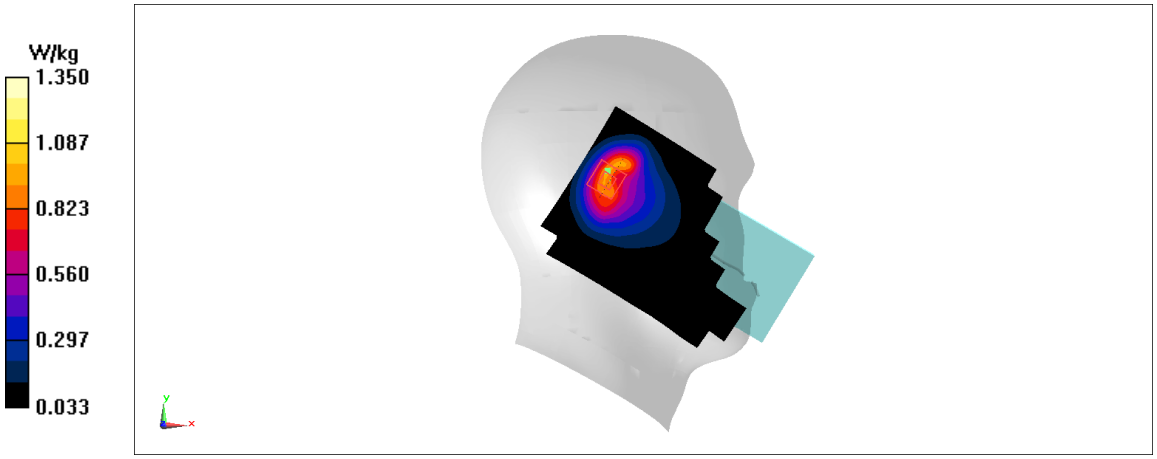


Fig A.19

LTE850-FDD5_CH20600 Rear 15mm_Body Worn
Date: 5/21/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 844 MHz; σ = 0.899 mho/m; εr = 41.26; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE850-FDD5 844 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0692 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.131 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.077 W/kg
SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.043 W/kg
Maximum value of SAR (measured) = 0.0698 W/kg

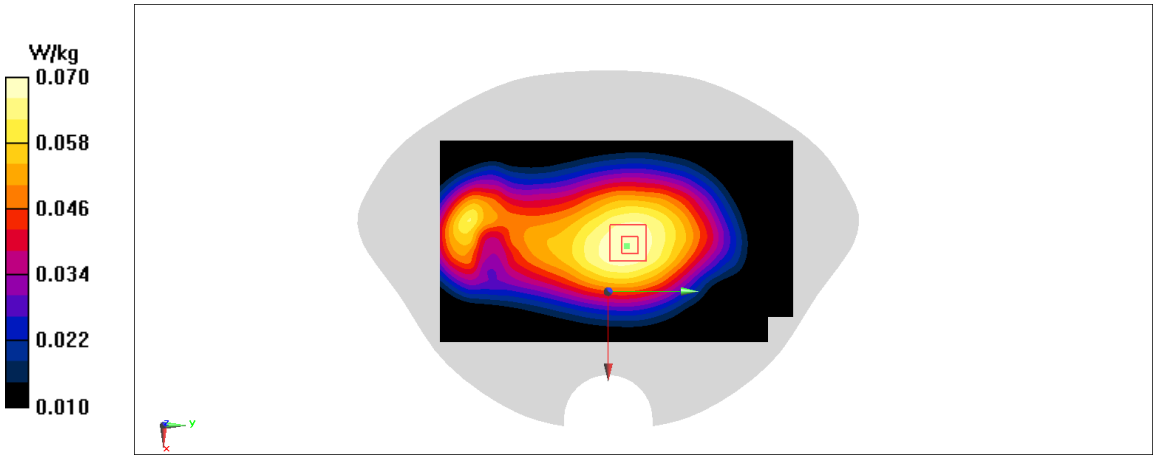


Fig A.20

LTE850-FDD5_CH20600 Rear 10mm_Hotspot
Date: 5/21/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 844 MHz; σ = 0.899 mho/m; εr = 41.26; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE850-FDD5 844 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.535 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.27 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.62 W/kg
SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.232 W/kg
Maximum value of SAR (measured) = 0.521 W/kg

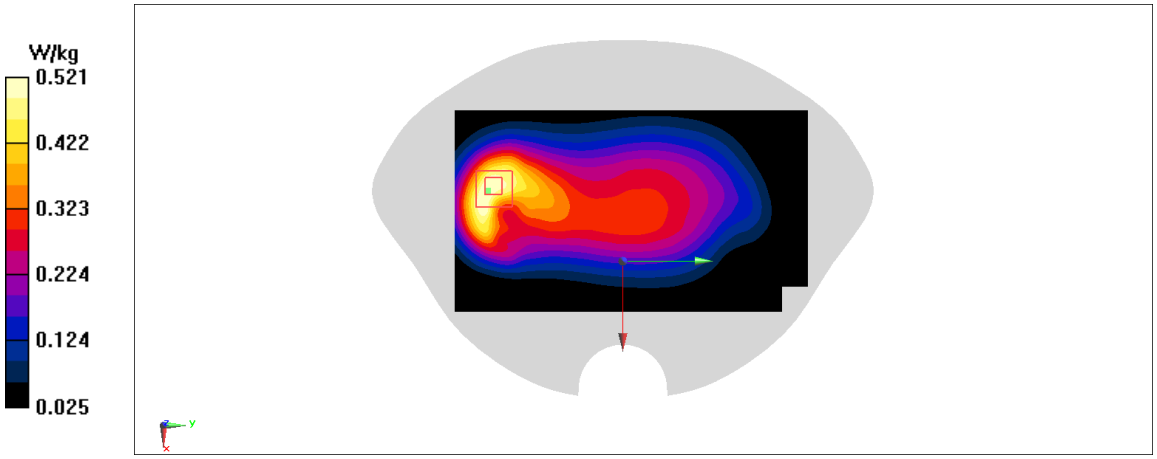


Fig A.21

LTE700-FDD12_CH23130 Left Tilt
Date: 5/19/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 711 MHz; σ = 0.871 mho/m; εr = 41.98; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.832 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.03 V/m; Power Drift = 0.1 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.477 W/kg; SAR(10 g) = 0.259 W/kg
Maximum value of SAR (measured) = 0.791 W/kg

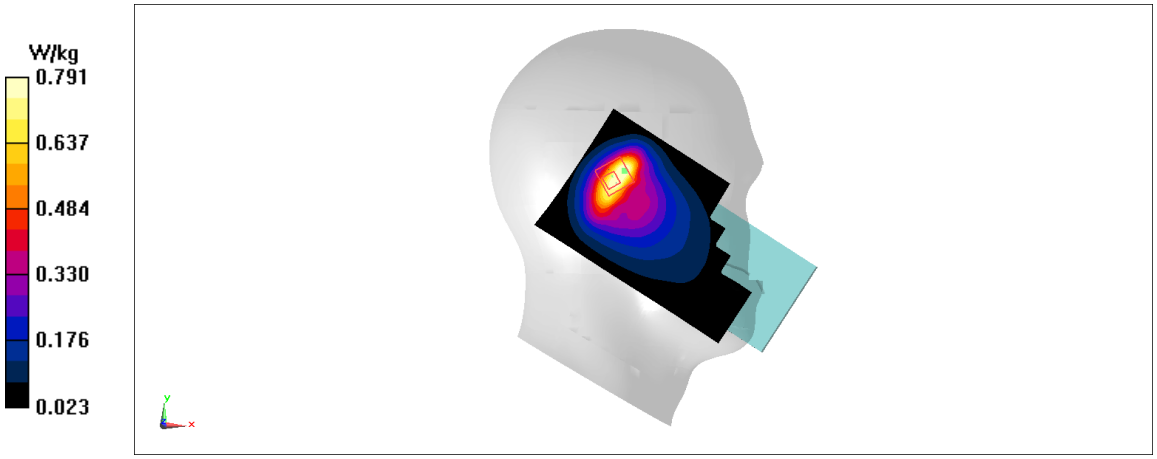


Fig A.22

LTE700-FDD12_CH23060 Rear 15mm_Body Worn
Date: 5/19/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 704 MHz; σ = 0.864 mho/m; εr = 41.99; 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 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.105 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.36 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.115 W/kg
SAR(1 g) = 0.086 W/kg; SAR(10 g) = 0.066 W/kg
Maximum value of SAR (measured) = 0.105 W/kg

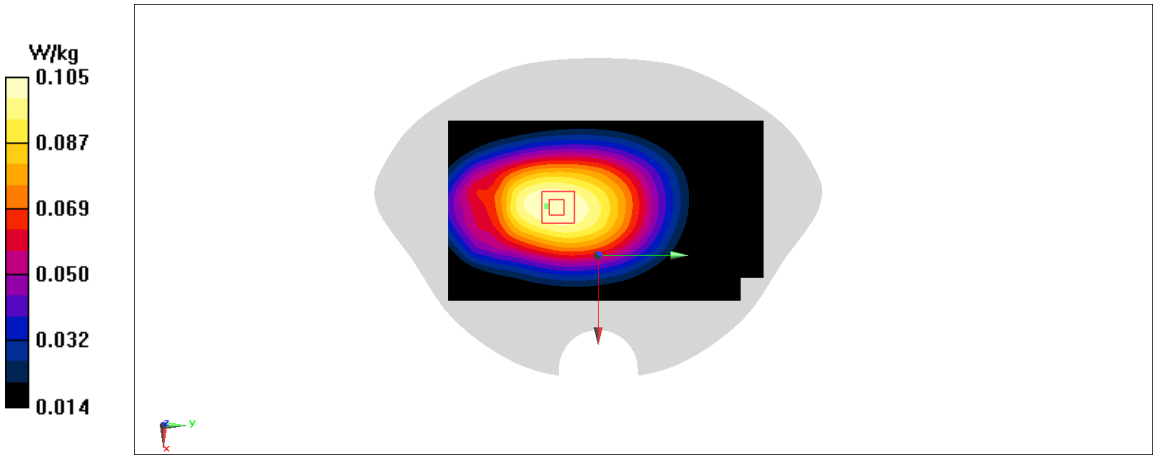


Fig A.23

LTE700-FDD12_CH23130 Rear 10mm_Hotspot
Date: 5/19/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 711 MHz; σ = 0.871 mho/m; εr = 41.98; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.426 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.3 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.471 W/kg
SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.264 W/kg
Maximum value of SAR (measured) = 0.427 W/kg

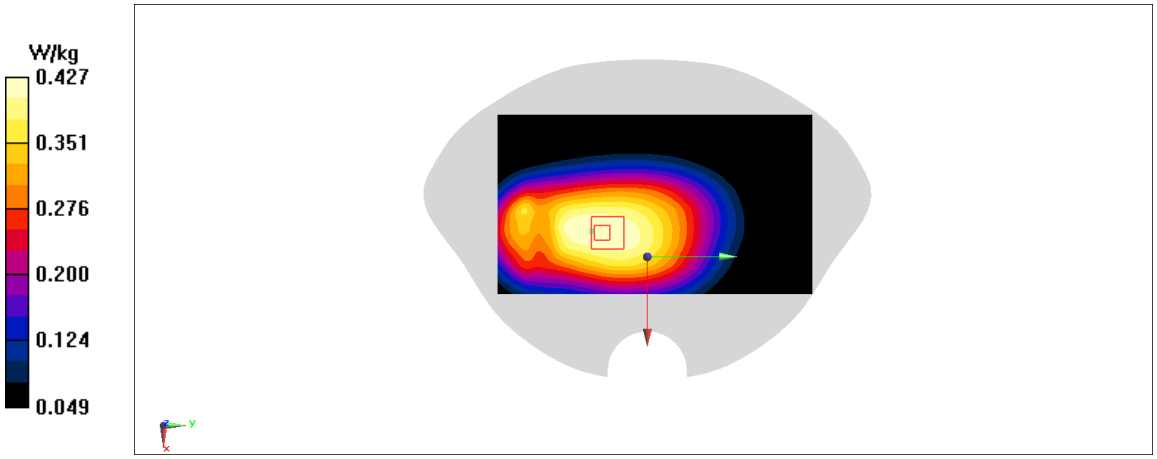


Fig A.24

LTE750-FDD13_CH23230 Left Cheek
Date: 5/19/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; σ = 0.938 mho/m; εr = 41.89; 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 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.842 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.85 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.661 W/kg; SAR(10 g) = 0.49 W/kg
Maximum value of SAR (measured) = 0.891 W/kg

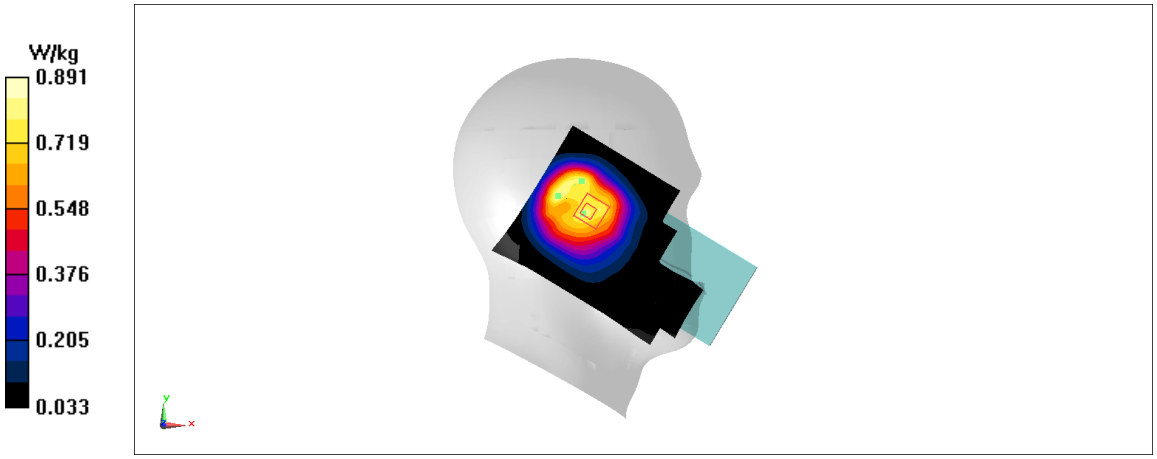


Fig A.25

LTE750-FDD13_CH23230 Rear 15mm_Body Worn
Date: 5/19/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; σ = 0.938 mho/m; εr = 41.89; 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 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0771 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.983 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.086 W/kg
SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.049 W/kg
Maximum value of SAR (measured) = 0.0776 W/kg

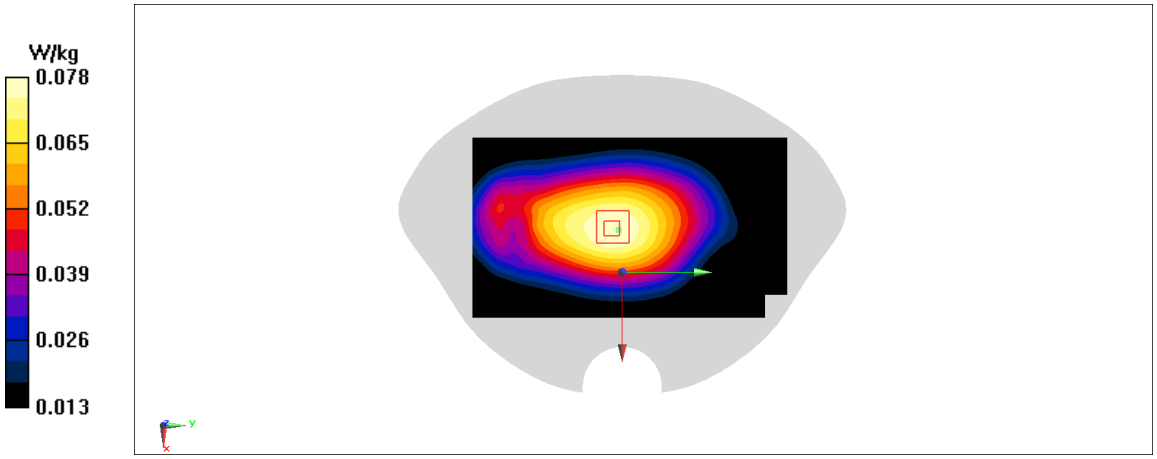


Fig A.26

LTE750-FDD13_CH23230 Rear 10mm_Hotspot
Date: 5/19/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; σ = 0.938 mho/m; εr = 41.89; 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 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.365 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.95 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.407 W/kg
SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.23 W/kg
Maximum value of SAR (measured) = 0.369 W/kg

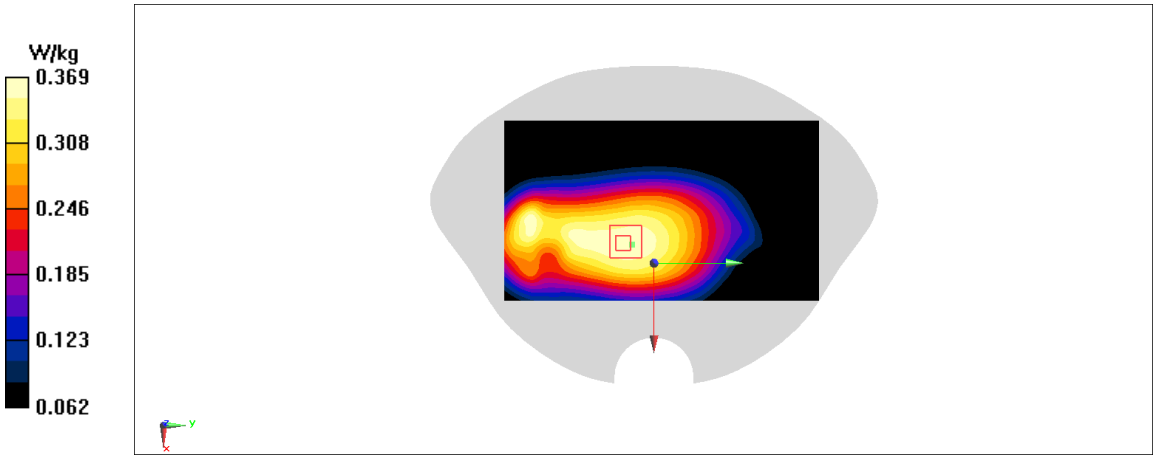


Fig A.27

LTE1900-FDD25_CH26140 Right Cheek
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; σ = 1.375 mho/m; εr = 39.82; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD25 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.03 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.85 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.317 W/kg
Maximum value of SAR (measured) = 0.988 W/kg

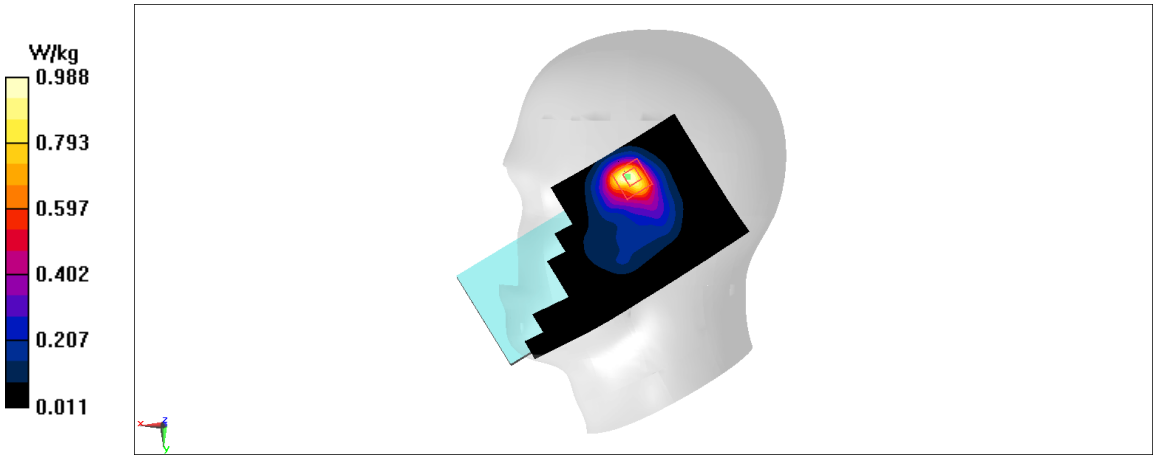


Fig A.28

LTE1900-FDD25_CH26140 Front 15mm_Body Worn
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; σ = 1.375 mho/m; εr = 39.82; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD25 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.565 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.1 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.641 W/kg
SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.255 W/kg
Maximum value of SAR (measured) = 0.555 W/kg

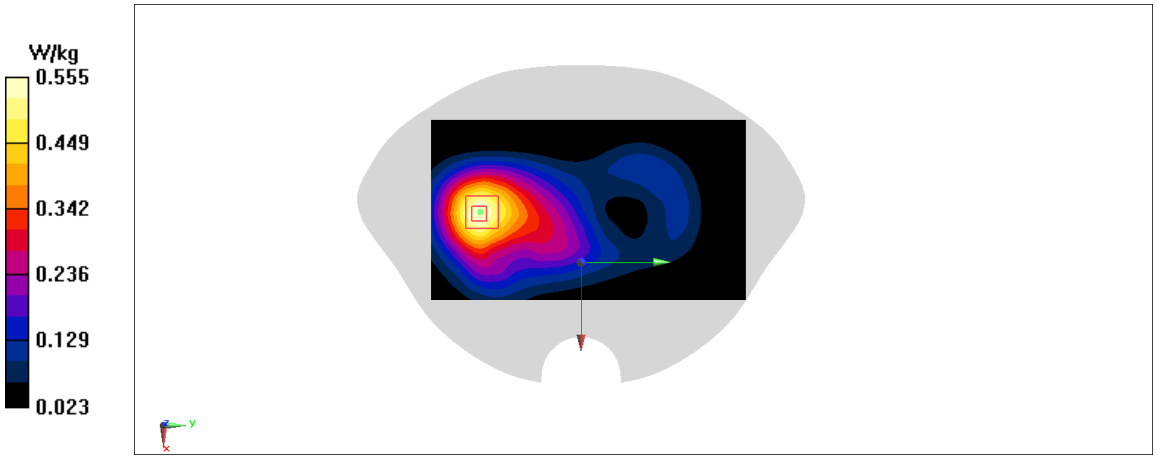


Fig A.29

LTE1900-FDD25_CH26590 Rear 10mm_Hotspot
Date: 5/25/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1905 MHz; σ = 1.418 mho/m; εr = 39.76; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD25 1905 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.686 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.383 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.77 W/kg
SAR(1 g) = 0.41 W/kg; SAR(10 g) = 0.255 W/kg
Maximum value of SAR (measured) = 0.618 W/kg

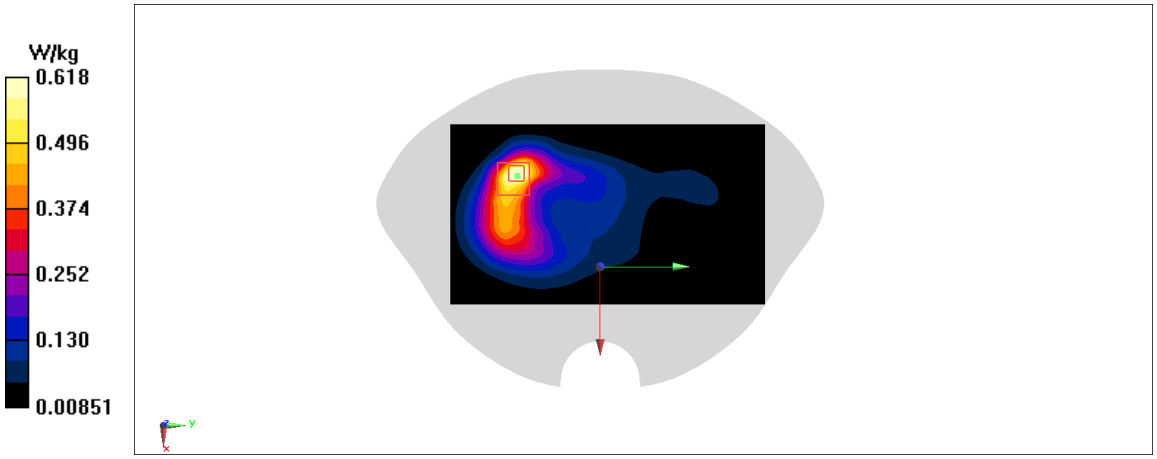


Fig A.30

LTE850-FDD26_CH26775 Left Cheek
Date: 5/21/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 822.5 MHz; σ = 0.878 mho/m; εr = 41.29; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE850-FDD26 822.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.928 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.99 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.3 W/kg
SAR(1 g) = 0.734 W/kg; SAR(10 g) = 0.542 W/kg
Maximum value of SAR (measured) = 1 W/kg

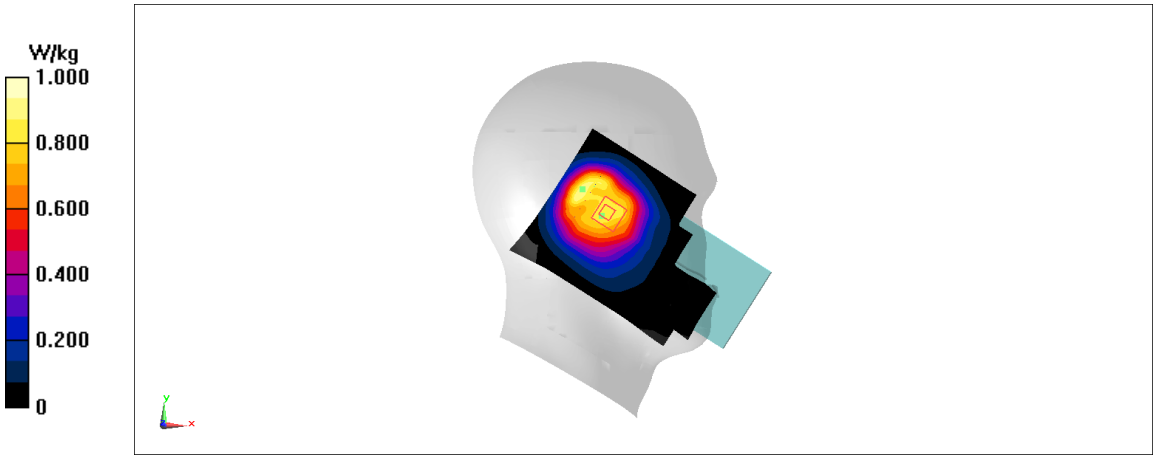


Fig A.31

LTE850-FDD26_CH26965 Top 10mm
Date: 5/21/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 841.5 MHz; σ = 0.897 mho/m; εr = 41.26; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE850-FDD26 841.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.48 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.95 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.647 W/kg
SAR(1 g) = 0.3 W/kg; SAR(10 g) = 0.154 W/kg
Maximum value of SAR (measured) = 0.49 W/kg

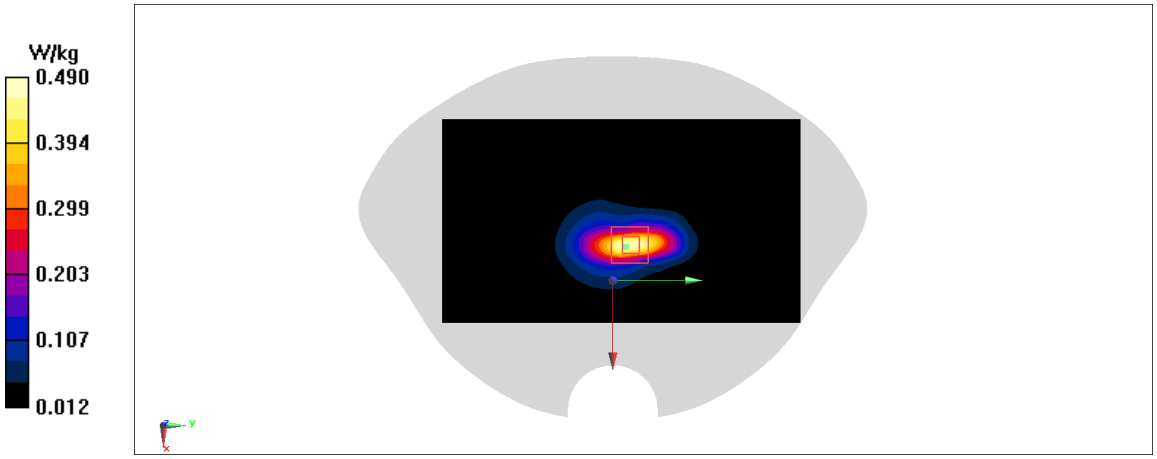


Fig A.32

LTE2500-TDD41_CH40620 Right Cheek_PC3
Date: 5/28/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2593 MHz; σ = 2.053 mho/m; εr = 39.64; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2593 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.42 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.679 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.98 W/kg
SAR(1 g) = 0.759 W/kg; SAR(10 g) = 0.286 W/kg
Maximum value of SAR (measured) = 1.38 W/kg

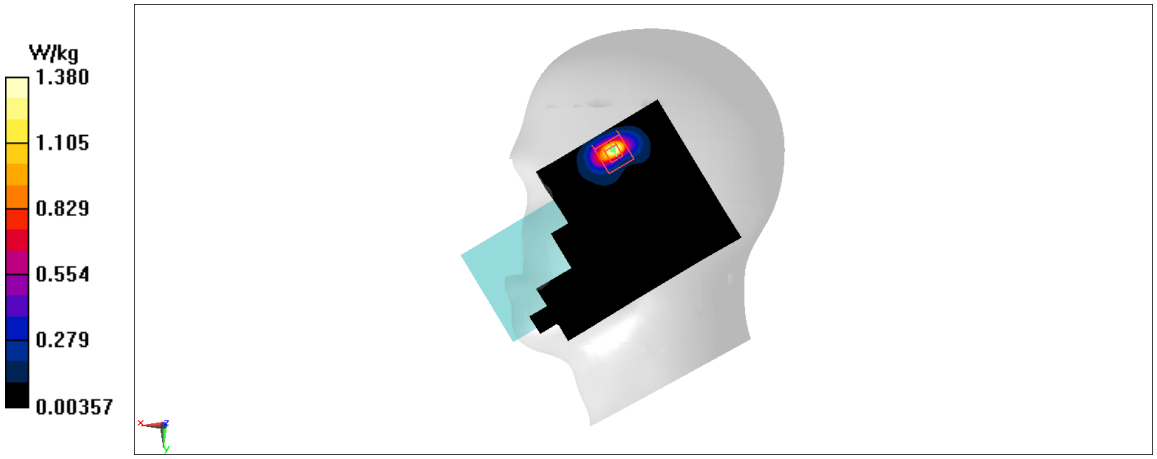


Fig A.33

LTE2500-TDD41_CH40185 Rear 15mm_PC3
Date: 5/28/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2549.9 MHz; σ = 2.016 mho/m; εr = 39.152; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2549.9 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 20.4 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.319 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 33 W/kg
SAR(1 g) = 0.324 W/kg; SAR(10 g) = 0.156 W/kg
Maximum value of SAR (measured) = 22.9 W/kg

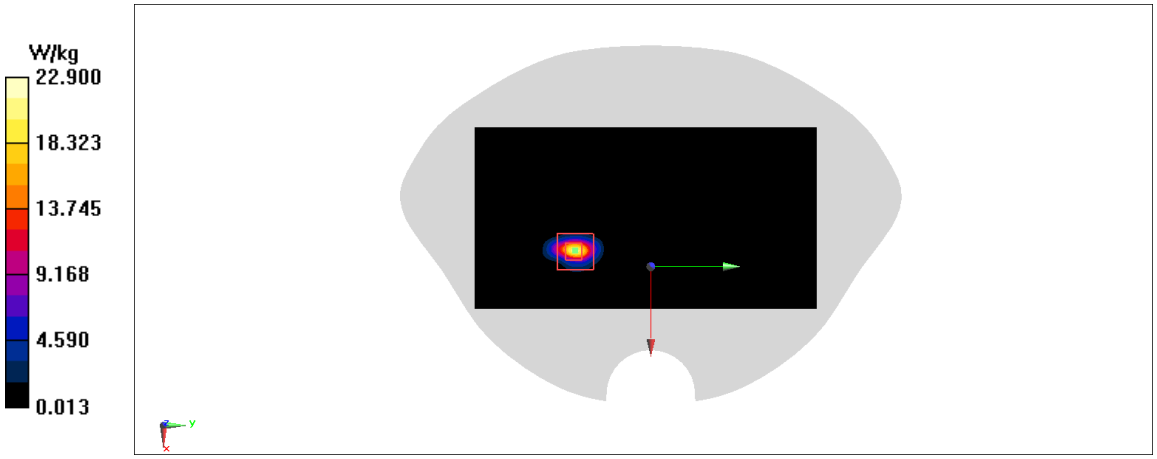


Fig A.34

LTE2500-TDD41_CH40620 Left 10mm_Hotspot_PC3
Date: 5/28/2021
Electronics: DAE4 Sn1331
Medium: Head 2600 MHz
Medium parameters used: f = 2593 MHz; σ = 2.053 mho/m; εr = 39.64; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2593 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.105 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.6 W/kg
SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.317 W/kg
Maximum value of SAR (measured) = 1.24 W/kg

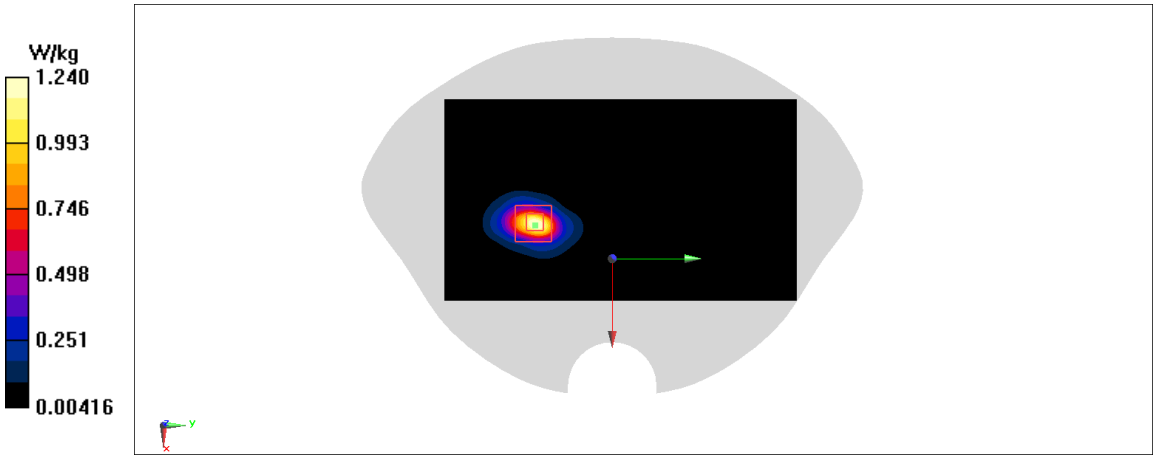


Fig A.35

LTE2500-TDD41_CH40620 Right Cheek_PC2
Date: 5/28/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2593 MHz; σ = 2.053 mho/m; εr = 39.64; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2593 MHz Duty Cycle: 1:2.37
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.955 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.37 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.508 W/kg; SAR(10 g) = 0.192 W/kg
Maximum value of SAR (measured) = 0.923 W/kg

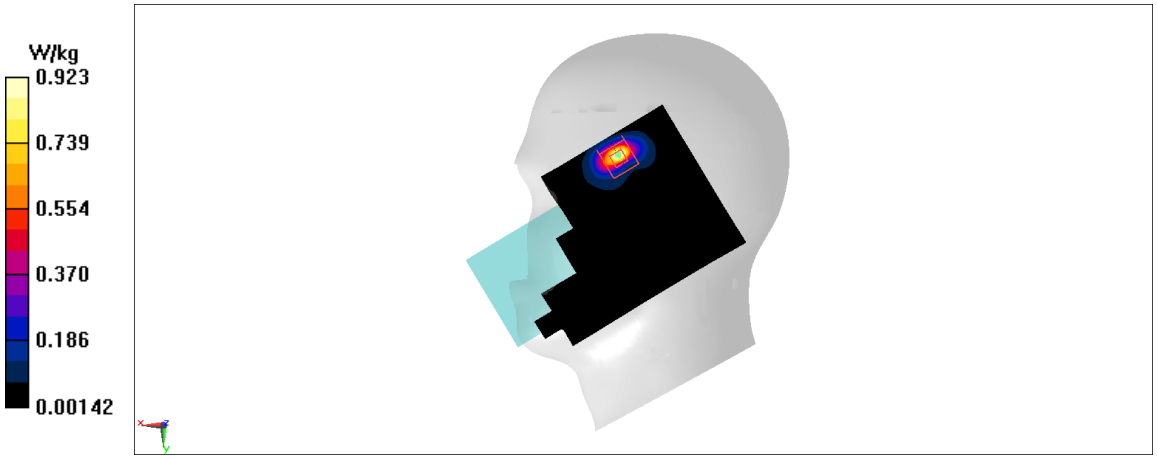


Fig A.36

LTE2500-TDD41_CH40185 Rear 15mm_Body Worn_PC2
Date: 5/28/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2549.9 MHz; σ = 2.016 mho/m; εr = 39.152; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2549.9 MHz Duty Cycle: 1:2.37
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.704 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.972 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.841 W/kg
SAR(1 g) = 0.435 W/kg; SAR(10 g) = 0.211 W/kg
Maximum value of SAR (measured) = 0.688 W/kg

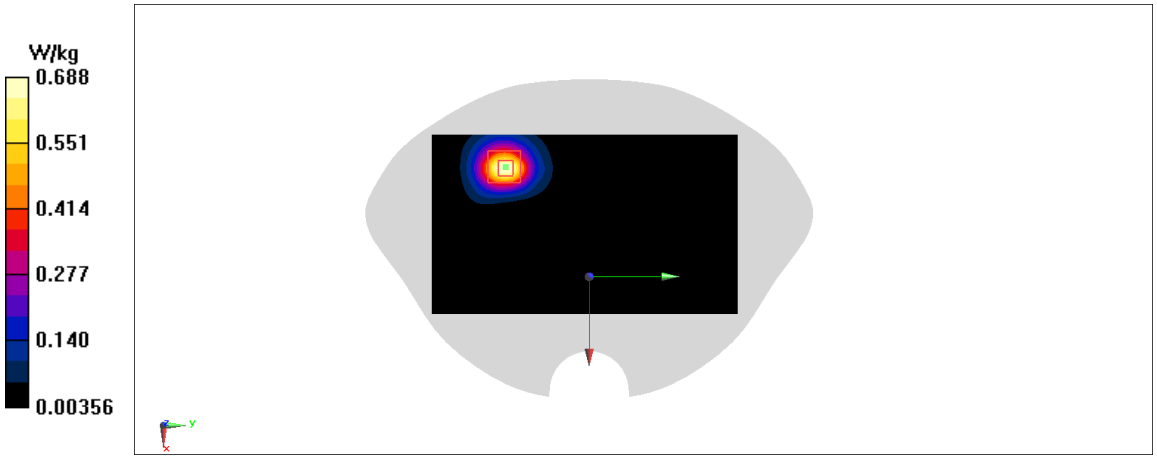


Fig A.37

LTE2500-TDD41_CH40620 Left 10mm_Hotspot_PC2
Date: 5/28/2021
Electronics: DAE4 Sn1331
Medium: Head 2600 MHz
Medium parameters used: f = 2593 MHz; σ = 2.053 mho/m; εr = 39.64; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2593 MHz Duty Cycle: 1:2.37
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.884 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.286 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.11 W/kg
SAR(1 g) = 0.59 W/kg; SAR(10 g) = 0.242 W/kg
Maximum value of SAR (measured) = 0.853 W/kg

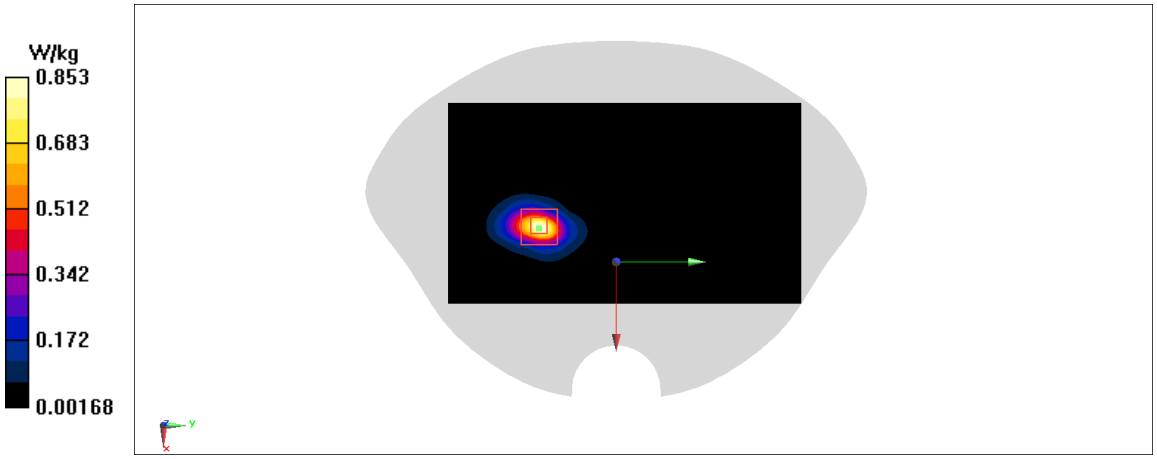


Fig A.38

LTE1700-FDD66_CH132322 Right Cheek_ANT4
Date: 5/23/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.437 mho/m; εr = 41.367; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1745 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.556 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.25 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.652 W/kg
SAR(1 g) = 0.65 W/kg; SAR(10 g) = 0.325 W/kg
Maximum value of SAR (measured) = 0.549 W/kg

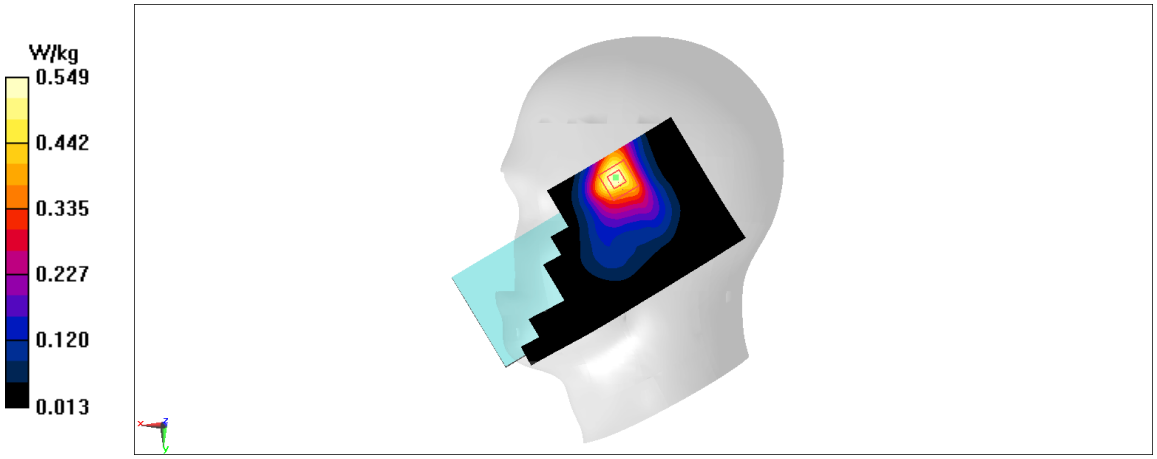


Fig A.39

LTE1700-FDD66_CH132322 Front 15mm_Body Worn_ANT4
Date: 5/23/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.437 mho/m; εr = 41.367; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1745 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.539 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.31 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.614 W/kg
SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.298 W/kg
Maximum value of SAR (measured) = 0.533 W/kg

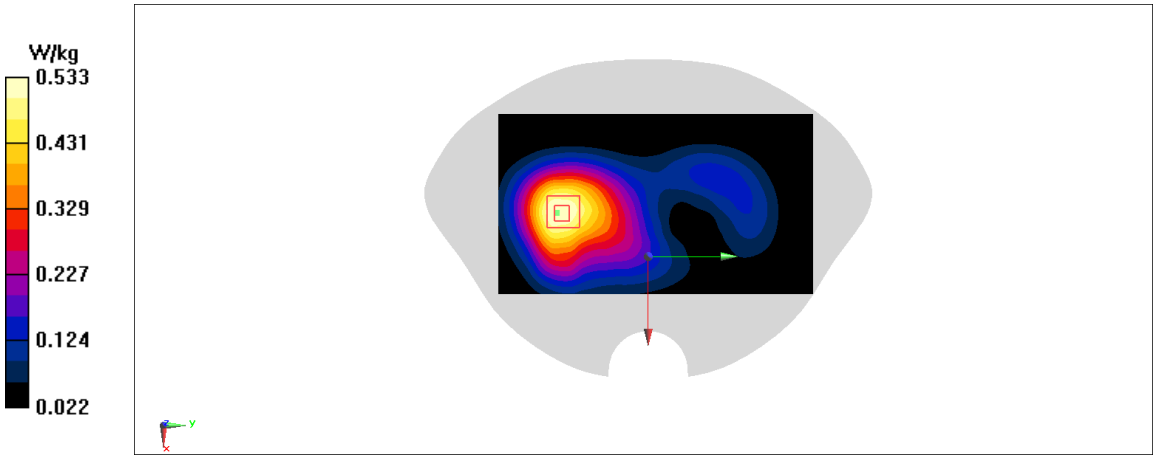


Fig A.40

LTE1700-FDD66_CH132322 Rear 10mm_Hotspot_ANT4
Date: 5/23/2021
Electronics: DAE4 Sn1331
Medium: body 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.45 mho/m; εr = 40; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1745 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.719 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.47 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.762 W/kg
SAR(1 g) = 0.43 W/kg; SAR(10 g) = 0.255 W/kg
Maximum value of SAR (measured) = 0.633 W/kg

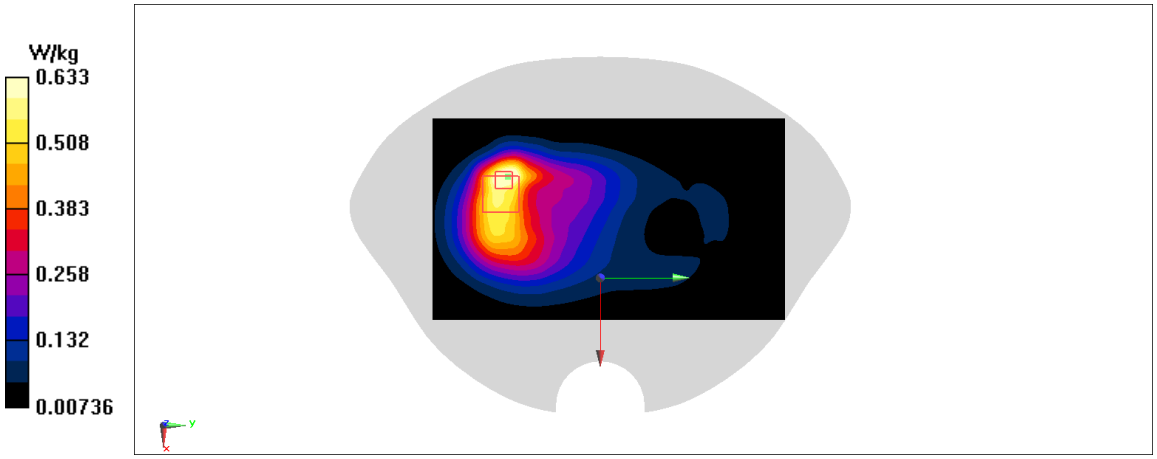


Fig A.41

LTE1700-FDD66_CH132072 Left Cheek_ANT0
Date: 5/23/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; σ = 1.45 mho/m; εr = 40; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.109 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.586 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.117 W/kg
SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.051 W/kg
Maximum value of SAR (measured) = 0.103 W/kg

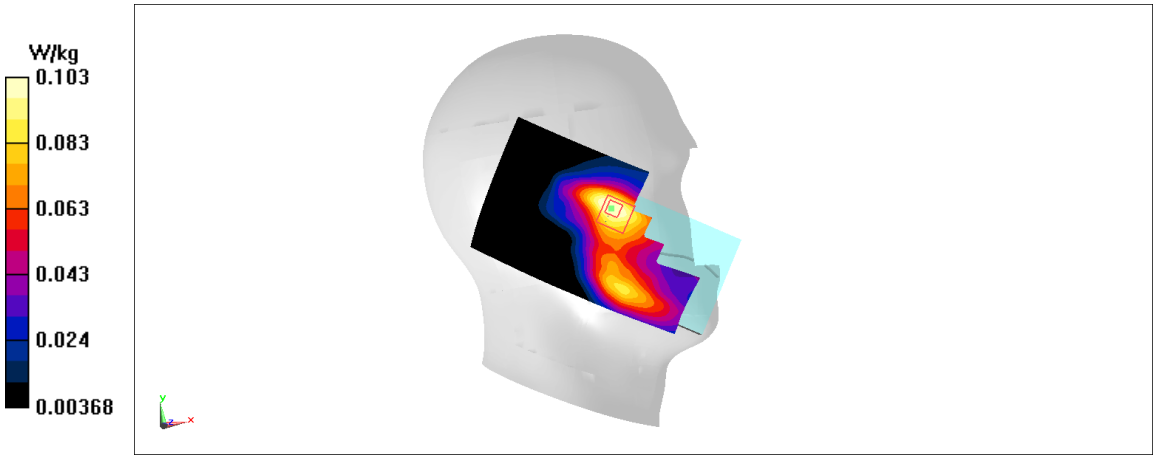


Fig A.42

LTE1700-FDD66_CH132072 Bottom 10mm_ANT0
Date: 5/23/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; σ = 1.45 mho/m; εr = 40; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.565 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.41 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.666 W/kg
SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.193 W/kg
Maximum value of SAR (measured) = 0.559 W/kg

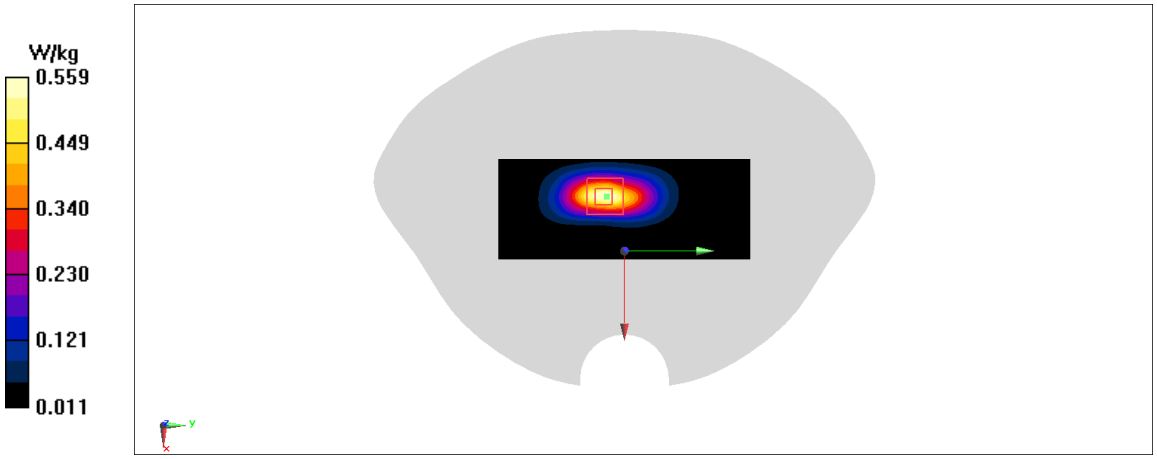


Fig A.43

LTE700-FDD71_CH133222 Left Cheek
Date: 5/19/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 673 MHz; σ = 0.864 mho/m; εr = 44.107; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE700-FDD71 673 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.739 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.23 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.911 W/kg
SAR(1 g) = 0.546 W/kg; SAR(10 g) = 0.394 W/kg
Maximum value of SAR (measured) = 0.718 W/kg

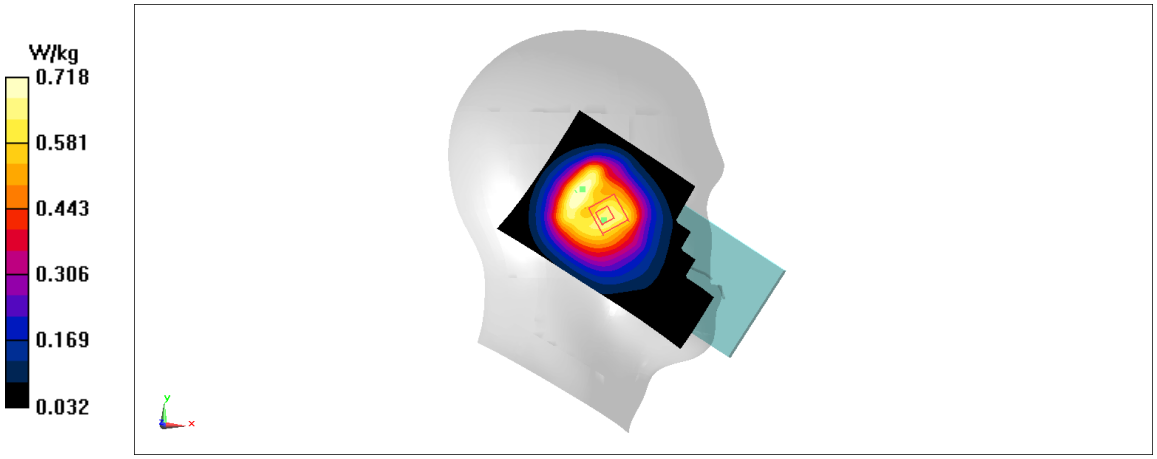


Fig A.44

LTE700-FDD71_CH133222 Rear 10mm
Date: 5/19/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 673 MHz; σ = 0.864 mho/m; εr = 44.107; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE700-FDD71 673 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.474 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.92 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.539 W/kg
SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.284 W/kg
Maximum value of SAR (measured) = 0.484 W/kg

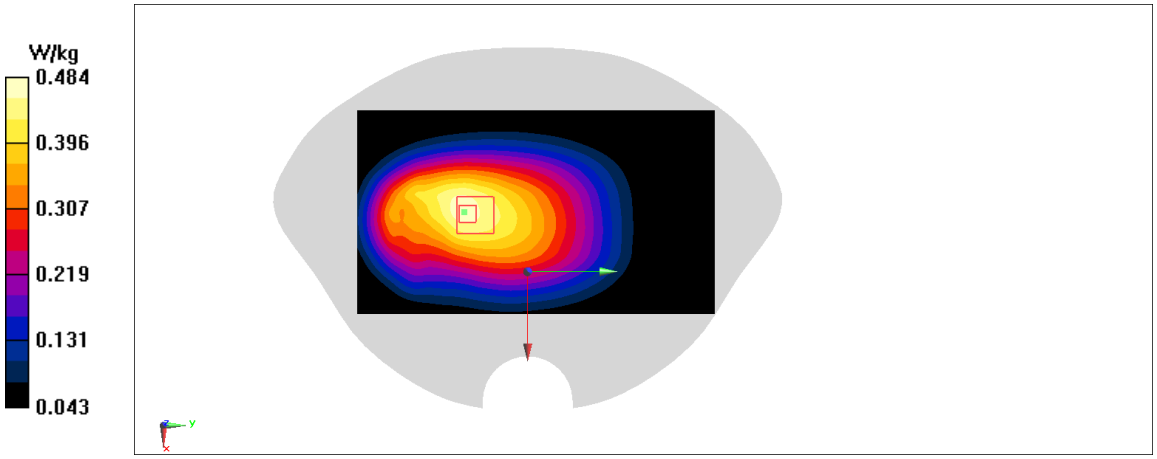


Fig A.45

5G NR-n2_CH370050 Right Cheek
Date: 5/26/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.5 MHz; σ = 1.367 mho/m; εr = 39.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n2 1852.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.808 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.10 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.511 W/kg; SAR(10 g) = 0.264 W/kg
Maximum value of SAR (measured) = 0.821 W/kg

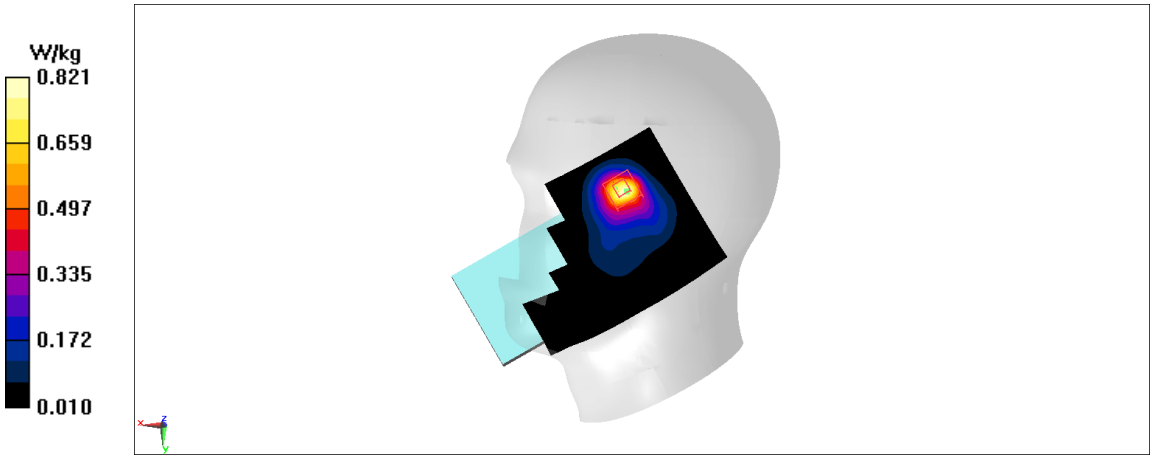


Fig A.46

5G NR-n2_CH370050 Rear 15mm_Body Worn
Date: 5/26/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.5 MHz; σ = 1.367 mho/m; εr = 39.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n2 1852.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.34 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.42 W/kg
Maximum value of SAR (measured) = 0.976 W/kg

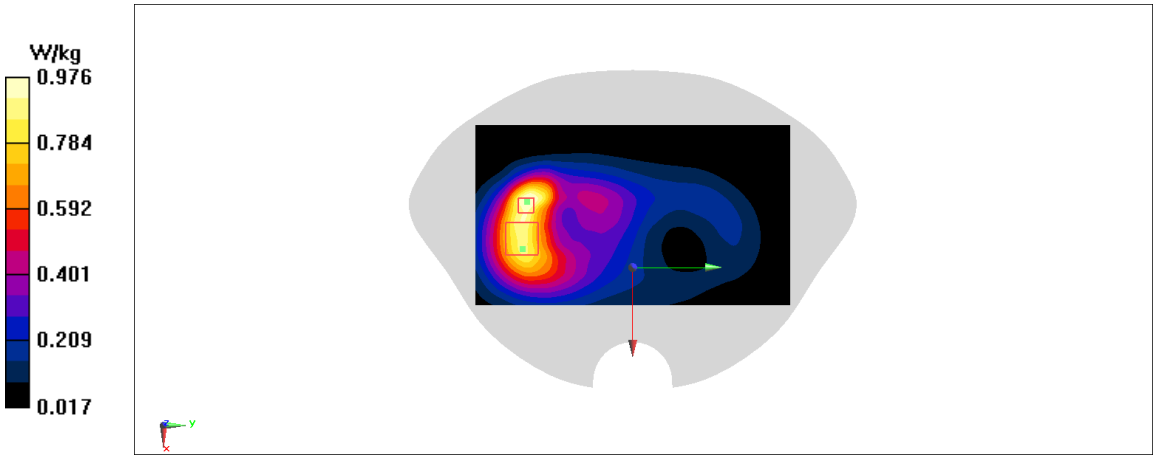


Fig A.47

5G NR-n2_CH370050 Rear 10mm_Hotspot
Date: 5/26/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.5 MHz; σ = 1.367 mho/m; εr = 39.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n2 1852.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.578 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.676 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.659 W/kg
SAR(1 g) = 0.354 W/kg; SAR(10 g) = 0.193 W/kg
Maximum value of SAR (measured) = 0.543 W/kg

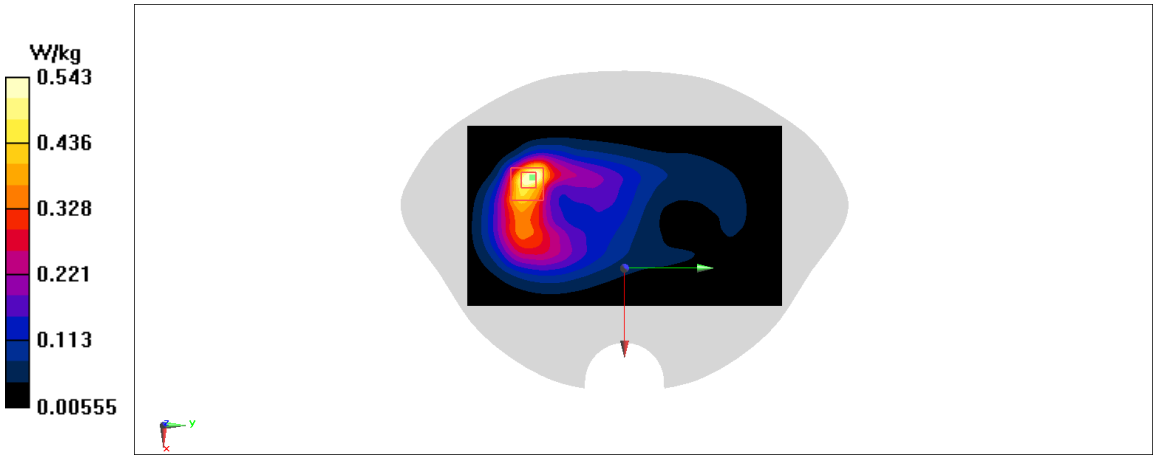


Fig A.48

5G NR-n5_CH164850 Left Cheek
Date: 5/22/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 826.5 MHz; σ = 0.881 mho/m; εr = 41.28; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n5 826.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.366 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.46 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.487 W/kg
SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.173 W/kg
Maximum value of SAR (measured) = 0.363 W/kg

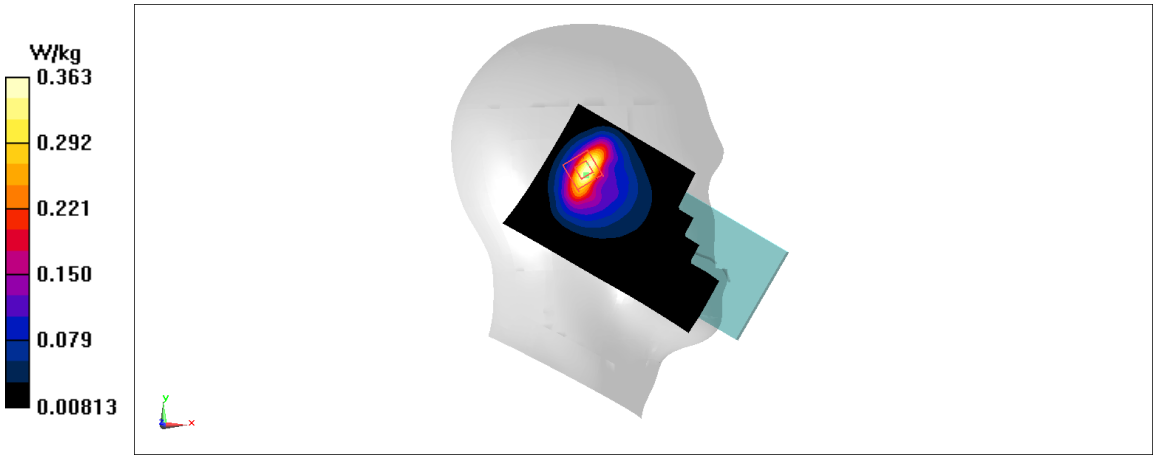


Fig A.49

5G NR-n5_CH164850 Rear 15mm_Body Worn
Date: 5/22/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 826.5 MHz; σ = 0.881 mho/m; εr = 41.28; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n5 826.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0692 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.131 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.0770 W/kg
SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.057 W/kg
Maximum value of SAR (measured) = 0.0698 W/kg

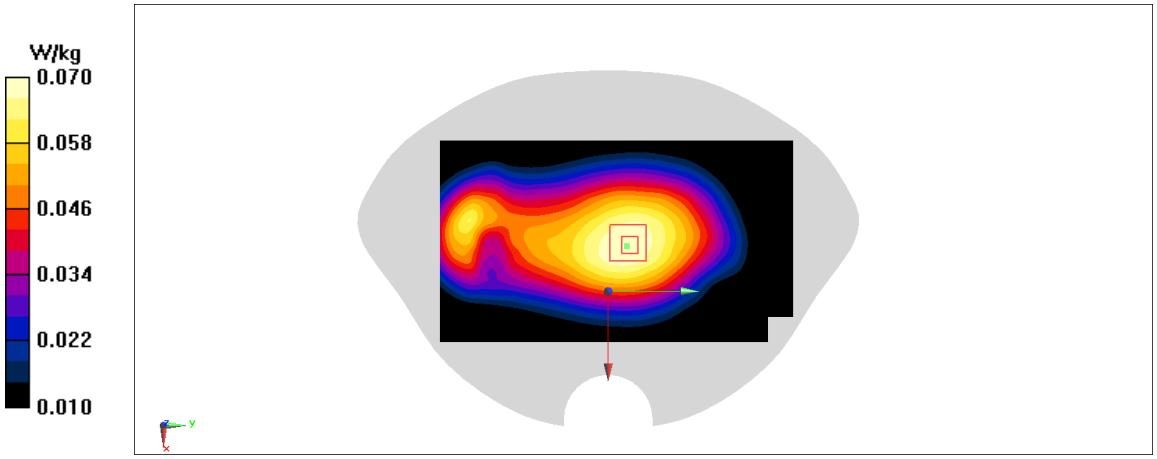


Fig A.50

5G NR-n5_CH166850 Top 10mm_Hotspot
Date: 5/22/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 826.5 MHz; σ = 0.881 mho/m; εr = 41.28; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n5 826.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.492 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.91 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.739 W/kg
SAR(1 g) = 0.357 W/kg; SAR(10 g) = 0.188 W/kg
Maximum value of SAR (measured) = 0.591 W/kg

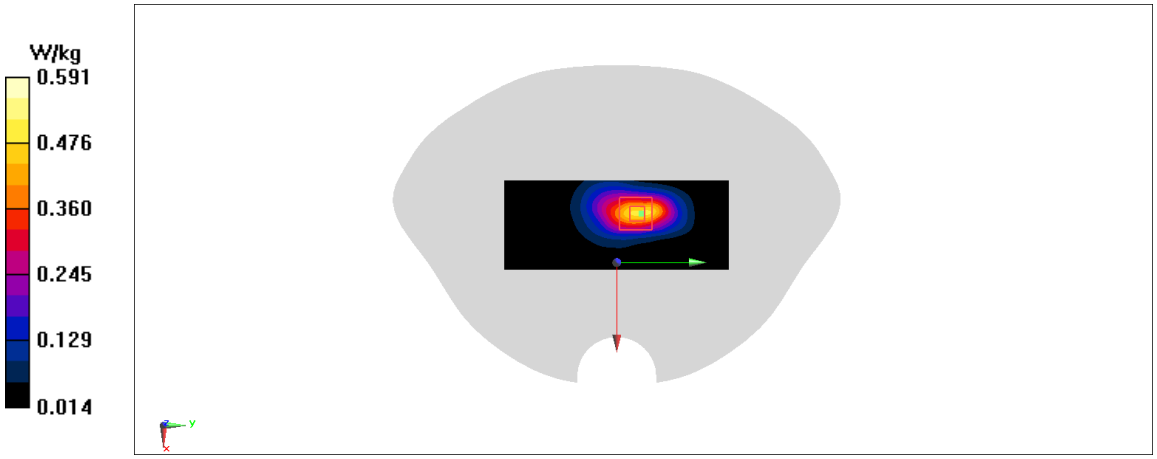


Fig A.51

5G NR-n25_CH370050 Right Cheek
Date: 5/26/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.5 MHz; σ = 1.367 mho/m; εr = 39.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n25 1852.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.720 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.66 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.954 W/kg
SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.266 W/kg
Maximum value of SAR (measured) = 0.768 W/kg

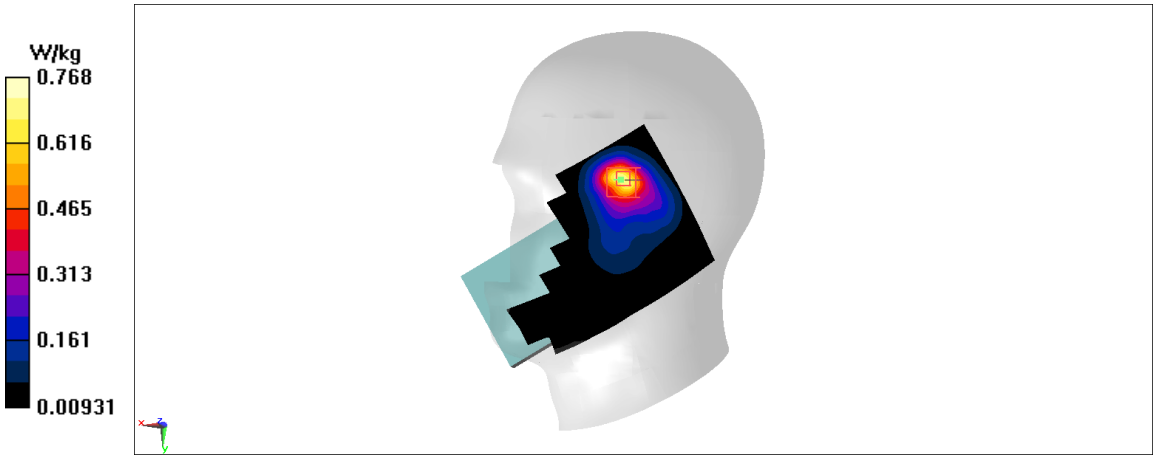


Fig A.52

5G NR-n25_CH370050 Rear 15mm_Body Worn
Date: 5/26/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.5 MHz; σ = 1.367 mho/m; εr = 39.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n25 1852.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.939 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.64 V/m; Power Drift = 0 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.409 W/kg
Maximum value of SAR (measured) = 0.940 W/kg

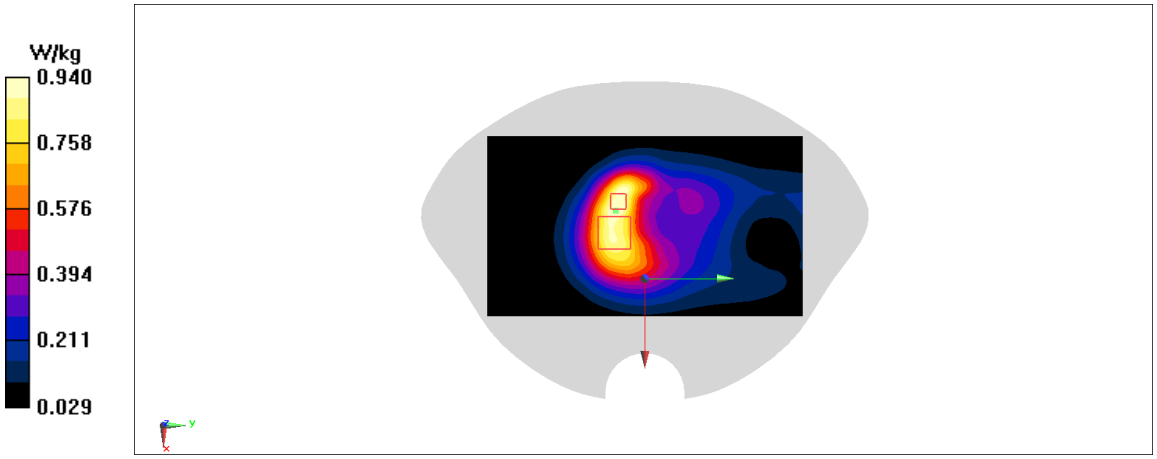


Fig A.53

5G NR-n25_CH370050 Rear 10mm_Hotspot
Date: 5/26/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.5 MHz; σ = 1.367 mho/m; εr = 39.83; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n25 1852.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.669 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.24 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.771 W/kg
SAR(1 g) = 0.42 W/kg; SAR(10 g) = 0.239 W/kg
Maximum value of SAR (measured) = 0.628 W/kg

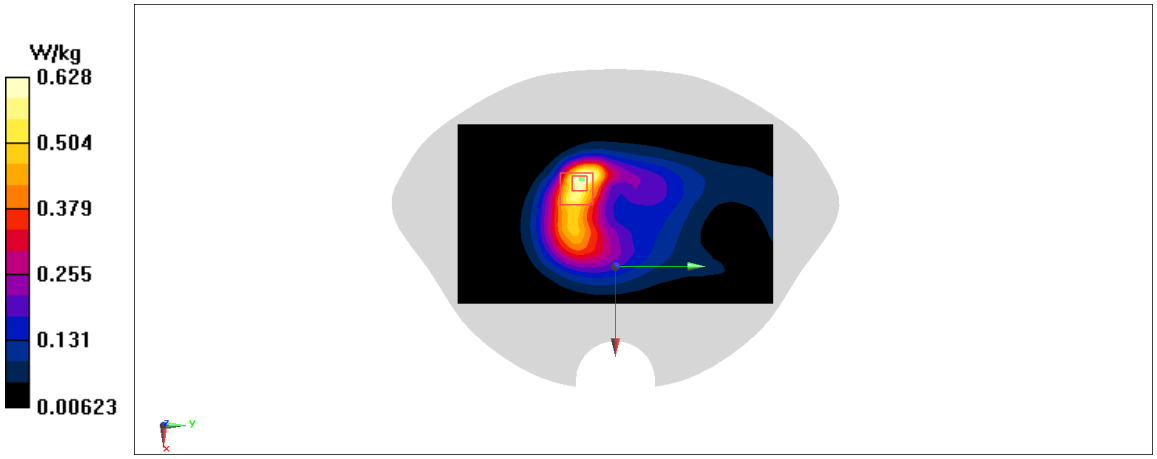


Fig A.54

5G NR-n41_CH499368 Right Cheek
Date: 5/29/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2506.02 MHz; σ = 1.982 mho/m; εr = 39.299; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n41 2506.02 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

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 = 24.12 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.695 W/kg; SAR(10 g) = 0.257 W/kg
Maximum value of SAR (measured) = 1.30 W/kg

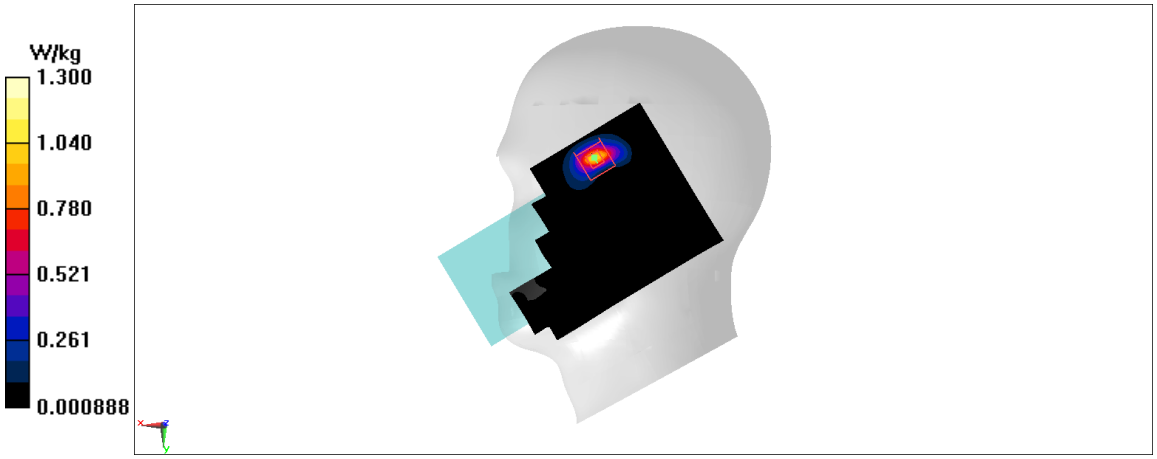


Fig A.55

5G NR-n41_CH499368 Rear 15mm_Body Worn
Date: 5/29/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2506.02 MHz; σ = 1.982 mho/m; εr = 39.299; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n41 2506.02 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.696 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.930 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.812 W/kg
SAR(1 g) = 0.428 W/kg; SAR(10 g) = 0.213 W/kg
Maximum value of SAR (measured) = 0.673 W/kg

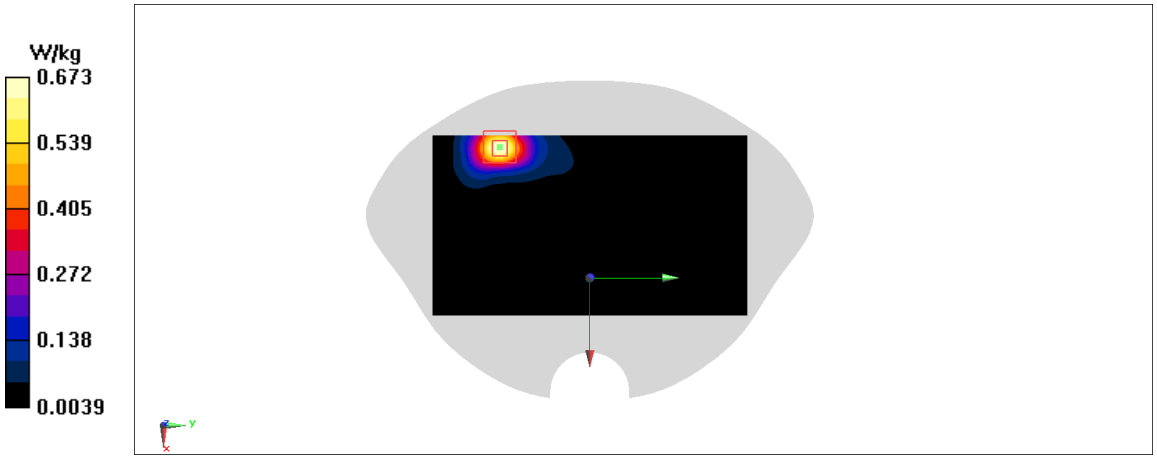


Fig A.56

5G NR-n41_CH499368 Left 10mm_Hotspot
Date: 5/29/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2506.02 MHz; σ = 1.982 mho/m; εr = 39.299; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n41 2506.02 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.565 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.123 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.726 W/kg
SAR(1 g) = 0.346 W/kg; SAR(10 g) = 0.151 W/kg
Maximum value of SAR (measured) = 0.586 W/kg

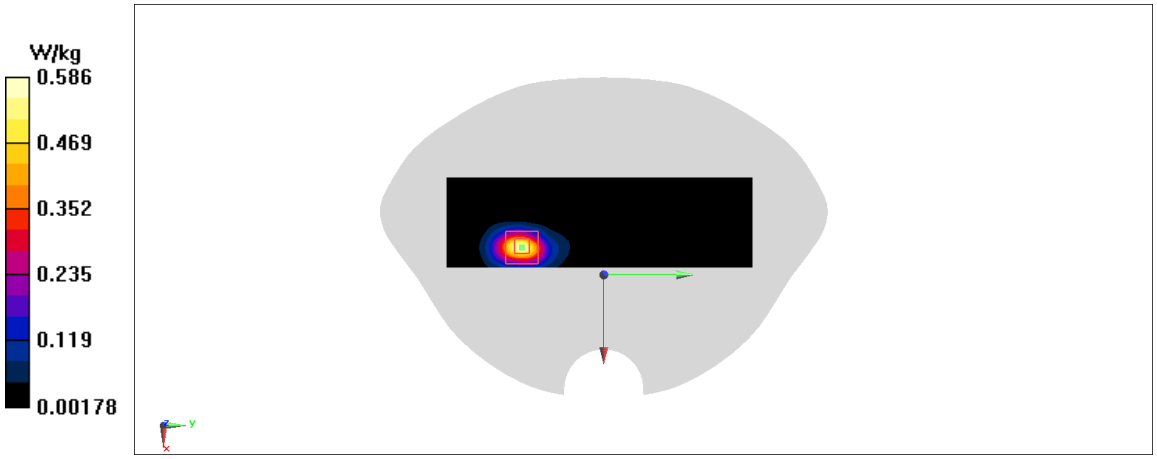


Fig A.57

5G NR-n66_CH342050 Right Cheek
Date: 5/24/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1712.5 MHz; σ = 1.405 mho/m; εr = 40.846; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n66 1712.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.666 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.882 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.846 W/kg
SAR(1 g) = 0.43 W/kg; SAR(10 g) = 0.228 W/kg
Maximum value of SAR (measured) = 0.680 W/kg

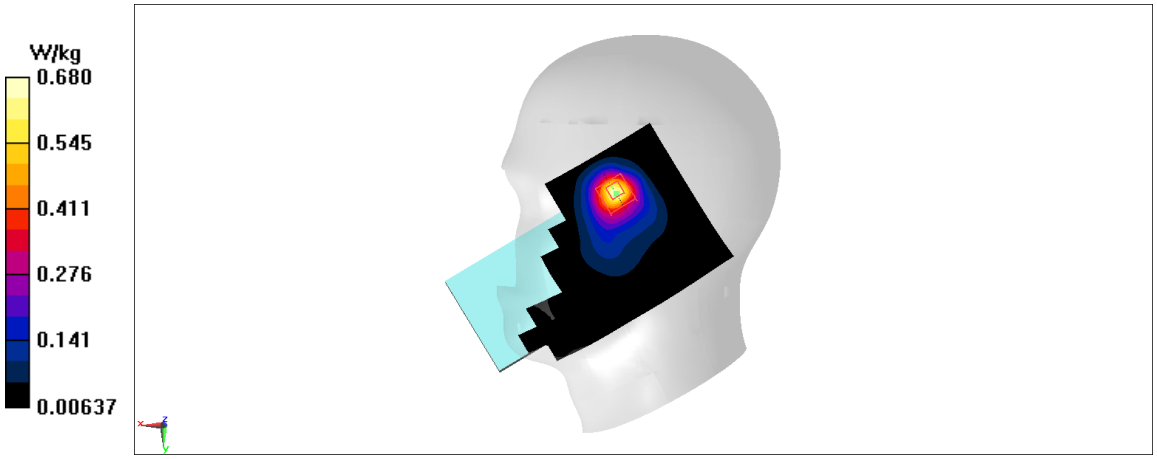


Fig A.58

5G NR-n66_CH348064 Rear 15mm_Body Worn
Date: 5/24/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1745 MHz; σ = 1.347 mho/m; εr = 40.614; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n66 1745 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.722 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.18 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.773 W/kg
SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.326 W/kg
Maximum value of SAR (measured) = 0.669 W/kg

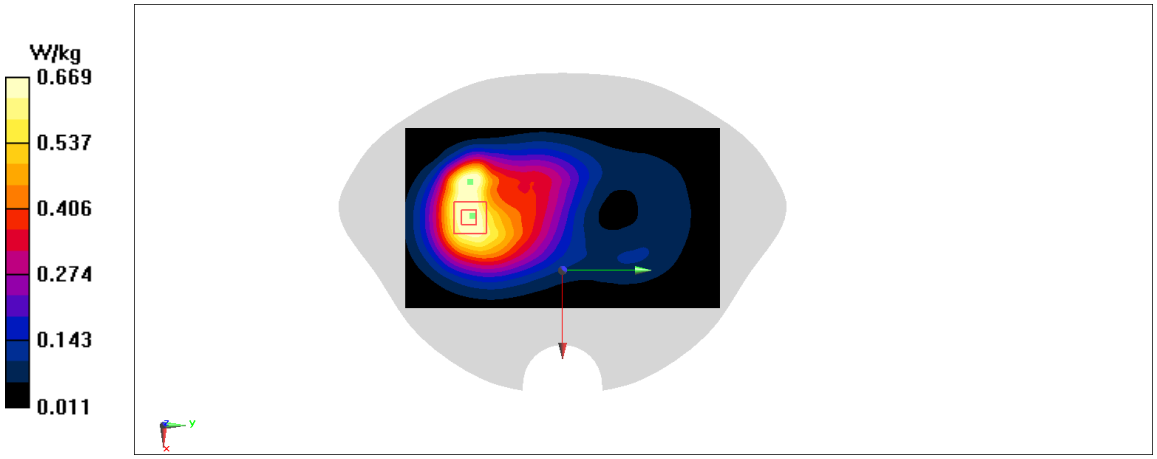


Fig A.59

5G NR-n66_CH342050 Rear 10mm_Hotspot
Date: 5/24/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1712.5 MHz; σ = 1.405 mho/m; εr = 40.846; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n66 1712.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.514 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.836 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.542 W/kg
SAR(1 g) = 0.306 W/kg; SAR(10 g) = 0.18 W/kg
Maximum value of SAR (measured) = 0.443 W/kg

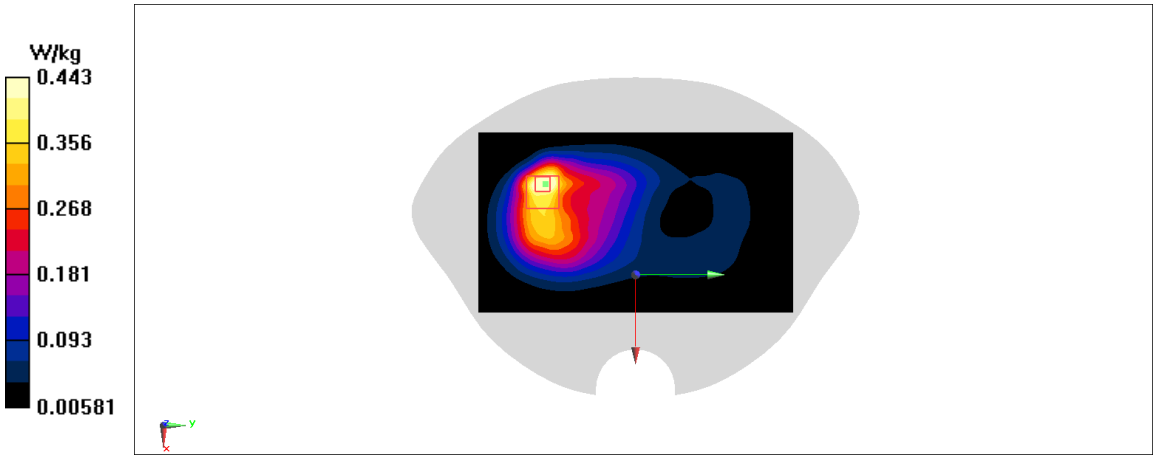


Fig A.60

5G NR-n71_CH135650 Left Cheek
Date: 5/20/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 680.5 MHz; σ = 0.864 mho/m; εr = 44.107; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n71 680.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.183 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.15 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.219 W/kg
SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.092 W/kg
Maximum value of SAR (measured) = 0.171 W/kg

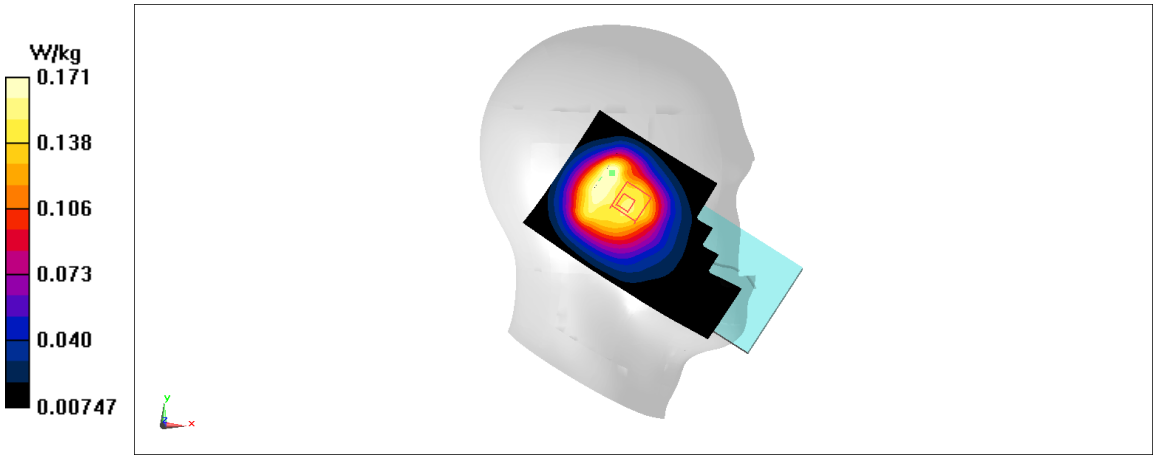


Fig A.61

5G NR-n71_CH135650 Rear 15mm_Body Worn
Date: 5/20/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 680.5 MHz; σ = 0.864 mho/m; εr = 44.107; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n71 680.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0966 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.63 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.106 W/kg
SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.06 W/kg
Maximum value of SAR (measured) = 0.0964 W/kg

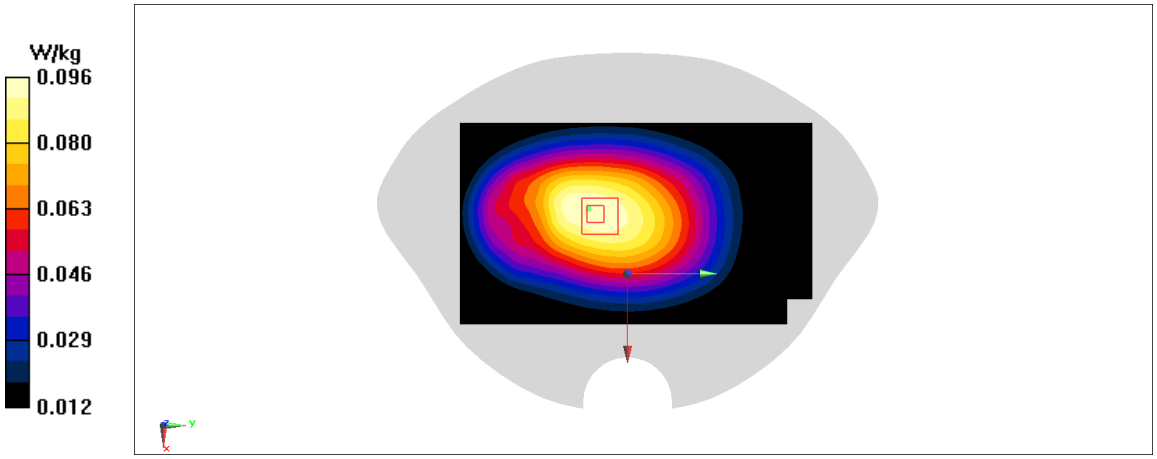


Fig A.62

5G NR-n71_CH135164 Rear 10mm_Hotspot
Date: 5/20/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 680.5 MHz; σ = 0.864 mho/m; εr = 44.107; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n71 680.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.439 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.62 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.486 W/kg
SAR(1 g) = 0.359 W/kg; SAR(10 g) = 0.273 W/kg
Maximum value of SAR (measured) = 0.440 W/kg

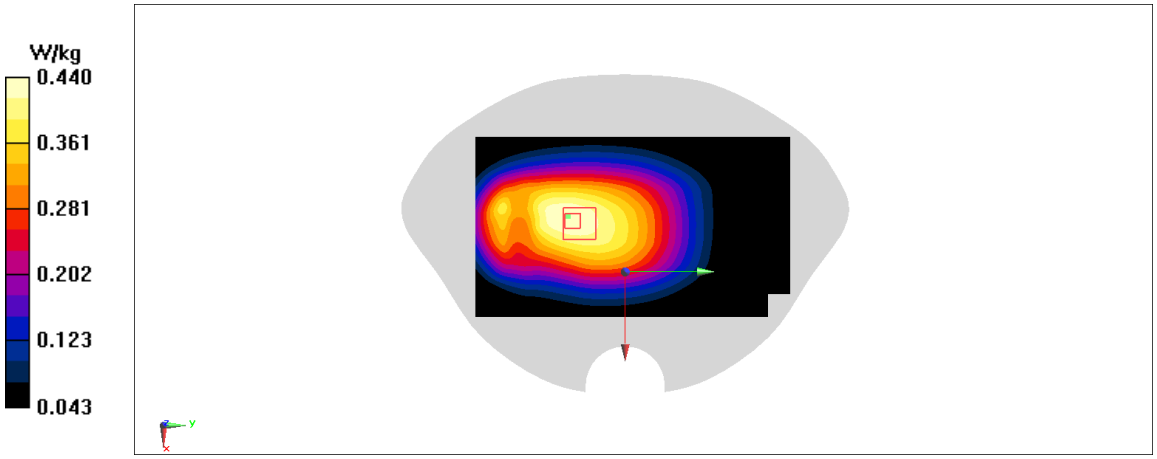


Fig A.63

5G NR-n77_CH653655 Left Cheek
Date: 6/2/2021
Electronics: DAE4 Sn1331
Medium: head 3800 MHz
Medium parameters used: f = 3814 MHz; σ = 3.079 mho/m; εr = 36.756; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n77 3814 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.53 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.887 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 2.02 W/kg
SAR(1 g) = 0.674 W/kg; SAR(10 g) = 0.231 W/kg
Maximum value of SAR (measured) = 1.31 W/kg

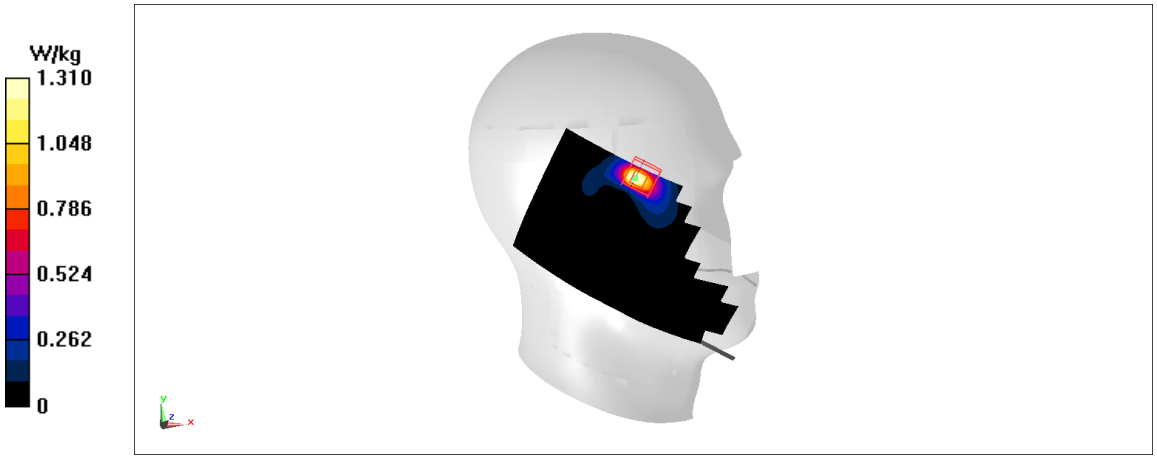


Fig A.64

5G NR-n77_CH650188 Rear 15mm_Body Worn
Date: 6/2/2021
Electronics: DAE4 Sn1331
Medium: head 3800 MHz
Medium parameters used: f = 3762 MHz; σ = 3.13 mho/m; εr = 36.665; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n77 3762 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.980 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.273 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.226 W/kg
Maximum value of SAR (measured) = 1.01 W/kg

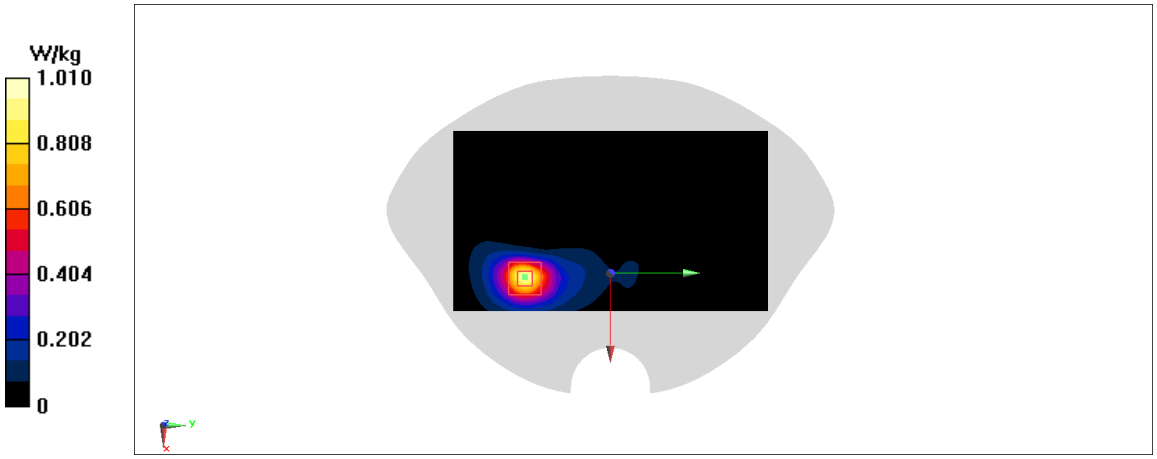


Fig A.65

5G NR-n77_CH657121 Rear 10mm_Hotspot
Date: 6/2/2021
Electronics: DAE4 Sn1331
Medium: head 3800 MHz
Medium parameters used: f = 3866 MHz; σ = 3.182 mho/m; εr = 36.577; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: 5G NR-n77 3866 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(6.4,6.4,6.4)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.40 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value =4.46 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.90 W/kg
SAR(1 g) = 0.711 W/kg; SAR(10 g) = 0.264 W/kg
Maximum value of SAR (measured) = 1.40 W/kg

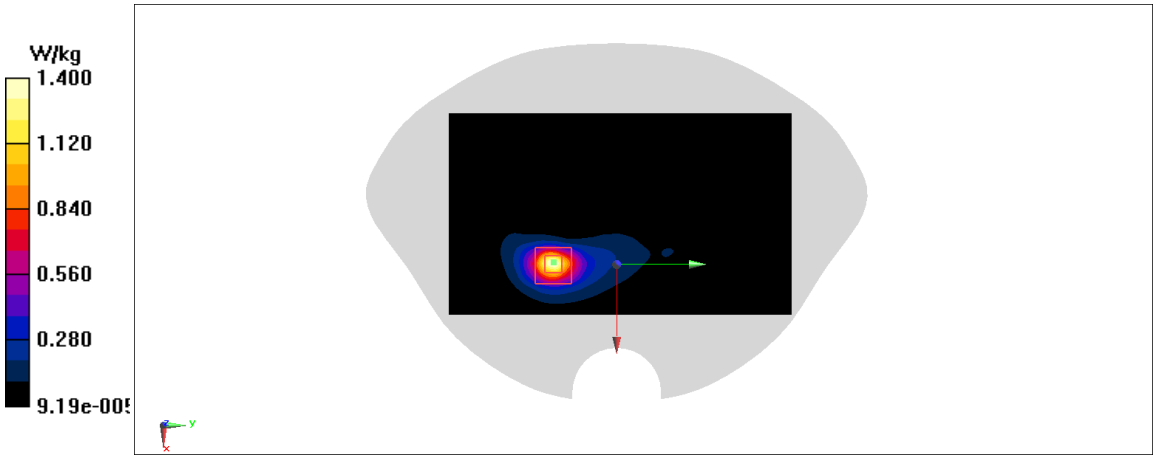


Fig A.66

WLAN2450_CH6 Right Cheek
Date: 5/27/2021
Electronics: DAE4 Sn1331
Medium: head 2450 MHz
Medium parameters used: f = 2437 MHz; σ = 1.789 mho/m; εr = 39.31; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WLAN2450 2437 MHz Duty Cycle: 1：1
Probe: EX3DV4 – SN7548 ConvF(7.4,7.4,7.4)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.54 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.93 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 0.938 W/kg; SAR(10 g) = 0.43 W/kg
Maximum value of SAR (measured) = 1.56 W/kg

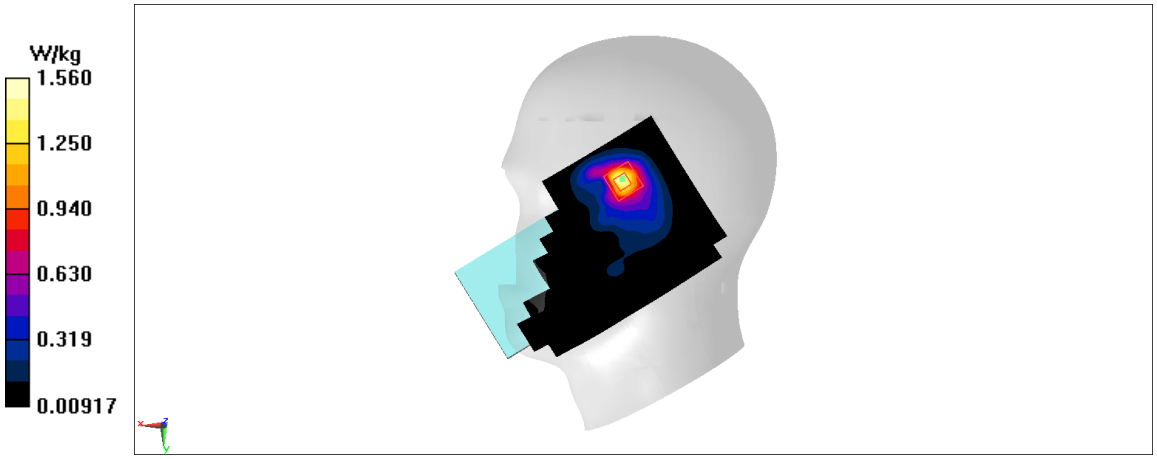


Fig A.67

WLAN2450_CH6 Rear 15mm_Body Worn
Date: 5/27/2021
Electronics: DAE4 Sn1331
Medium: head 2450 MHz
Medium parameters used: f = 2437 MHz; σ = 1.789 mho/m; εr = 39.31; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WLAN2450 2437 MHz Duty Cycle: 1：1
Probe: EX3DV4 – SN7548 ConvF(7.4,7.4,7.4)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.347 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.581 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.402 W/kg
SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.106 W/kg
Maximum value of SAR (measured) = 0.326 W/kg

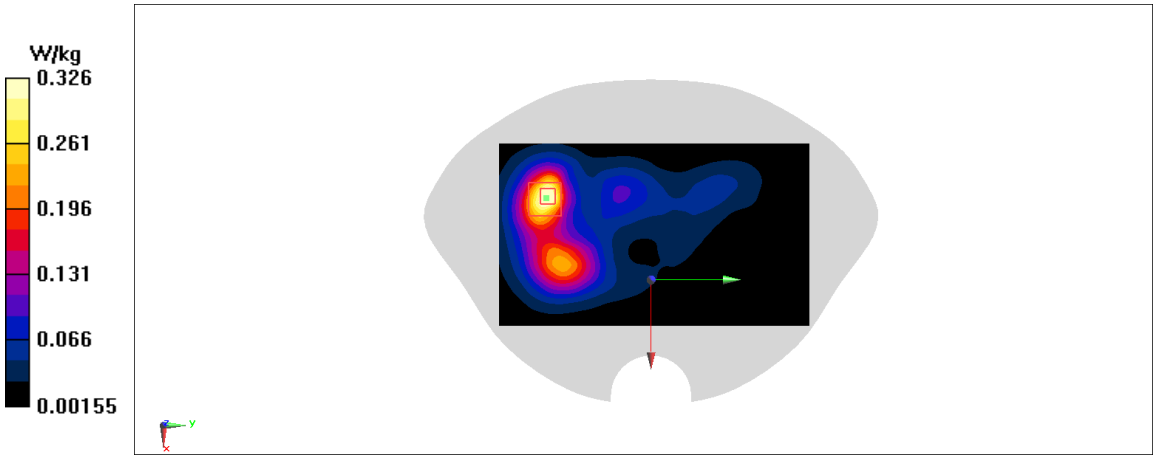


Fig A.68

WLAN2450_CH6 Rear 10mm_Hotspot
Date: 5/27/2021
Electronics: DAE4 Sn1331
Medium: head 2450 MHz
Medium parameters used: f = 2437 MHz; σ = 1.789 mho/m; εr = 39.31; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WLAN2450 2437 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.4,7.4,7.4)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.265 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.330 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.327 W/kg
SAR(1 g) = 0.15 W/kg; SAR(10 g) = 0.07 W/kg
Maximum value of SAR (measured) = 0.261 W/kg

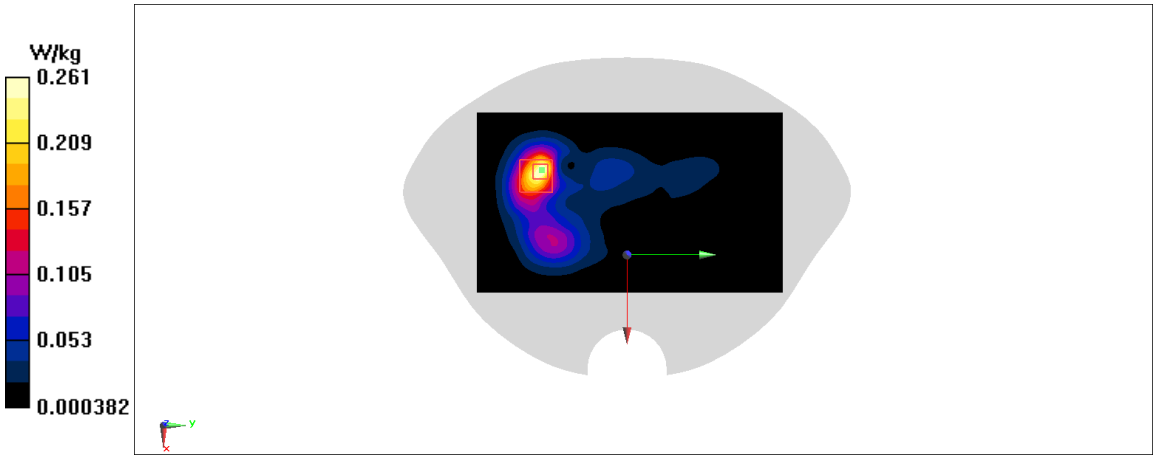


Fig A.69

WLAN_CH100 Right Cheek
Date: 5/31/2021
Electronics: DAE4 Sn1331
Medium: head 5 GHz
Medium parameters used: f = 5500 MHz; σ = 5.121 mho/m; εr = 34.301; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WLAN5G 5500 MHz Duty Cycle: 1：1
Probe: EX3DV4 – SN7548 ConvF(4.7,4.7,4.7)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.85 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 5.677 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 3.32 W/kg
SAR(1 g) = 0.77 W/kg; SAR(10 g) = 0.223 W/kg
Maximum value of SAR (measured) = 1.97 W/kg

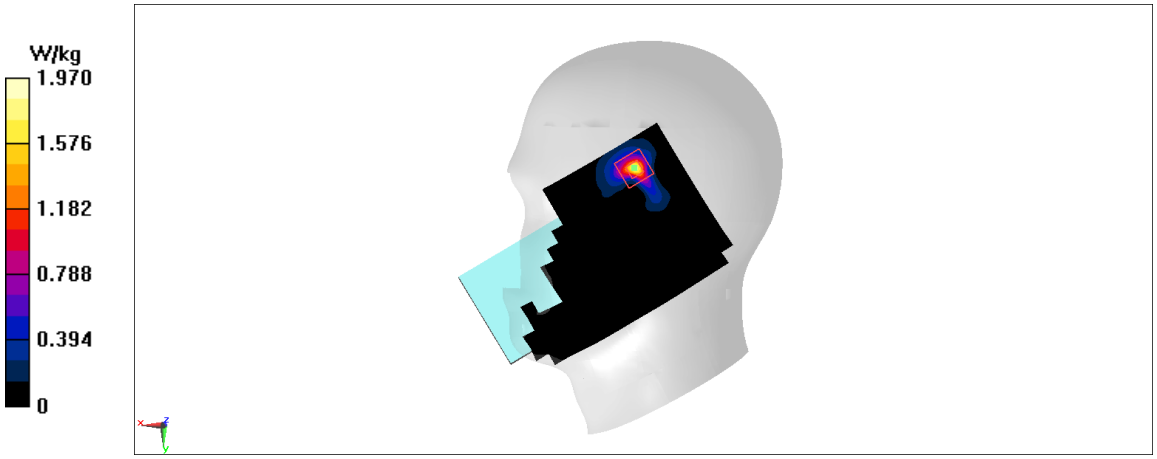


Fig A.70

WLAN_CH52 Rear 15mm_Body Worn
Date: 5/30/2021
Electronics: DAE4 Sn1331
Medium: head 5 GHz
Medium parameters used: f = 5260 MHz; σ = 4.799 mho/m; εr = 34.188; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WLAN5G 5260 MHz Duty Cycle: 1：1
Probe: EX3DV4 – SN7548 ConvF(5.08,5.08,5.08)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.905 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.184 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.153 W/kg
Maximum value of SAR (measured) = 0.907 W/kg

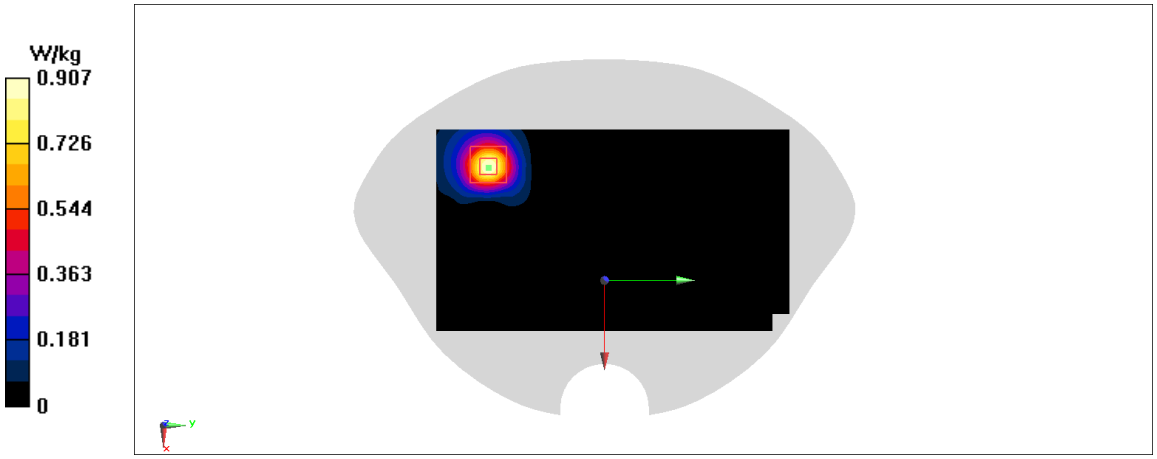


Fig A.71

WLAN5G_CH52 Rear 10mm_Hotspot
Date: 5/30/2021
Electronics: DAE4 Sn1331
Medium: head 5 GHz
Medium parameters used: f = 5260 MHz; σ = 0.905 mho/m; εr = 1.184; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WLAN5G 5260 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(5.08,5.08,5.08)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.178 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.8880 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.284 W/kg
SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.025 W/kg
Maximum value of SAR (measured) = 0.170 W/kg

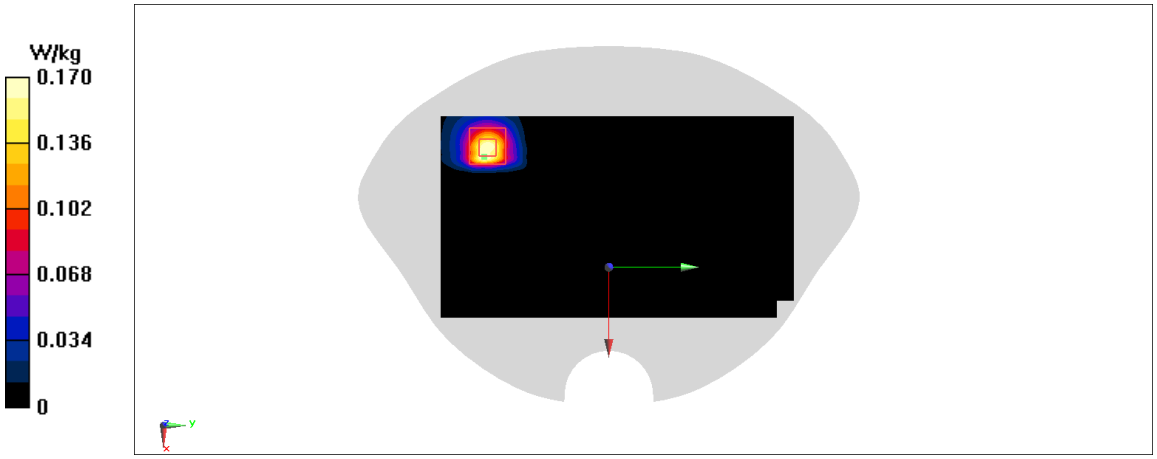


Fig A.72

LTE2500-TDD41 PC2_CH40620 Left 0mm_Extremity SAR
Date: 5/28/2021
Electronics: DAE4 Sn1331
Medium: Head 2600 MHz
Medium parameters used: f = 2593 MHz; σ = 2.053 mho/m; εr = 39.64; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2593 MHz Duty Cycle: 1:2.37
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 20.4 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.319 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 33.0 W/kg
SAR(1 g) = 9.79 W/kg; SAR(10 g) = 3.13 W/kg
Maximum value of SAR (measured) = 22.9 W/kg

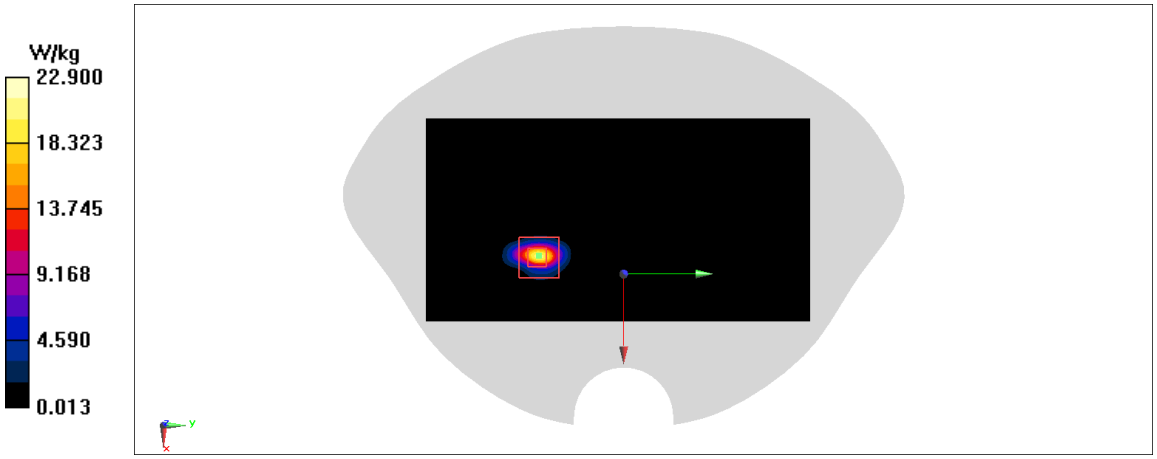
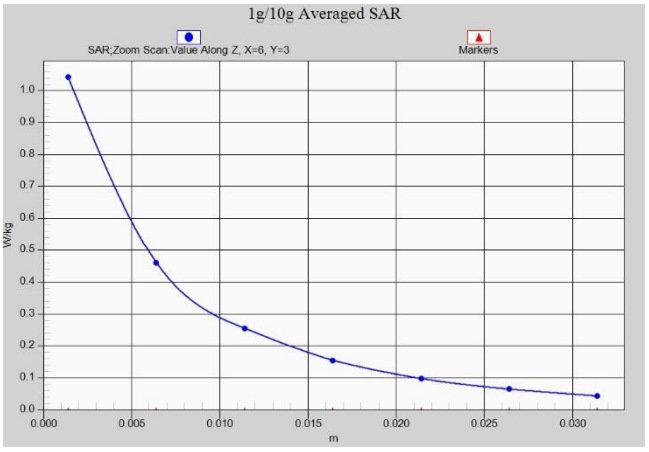
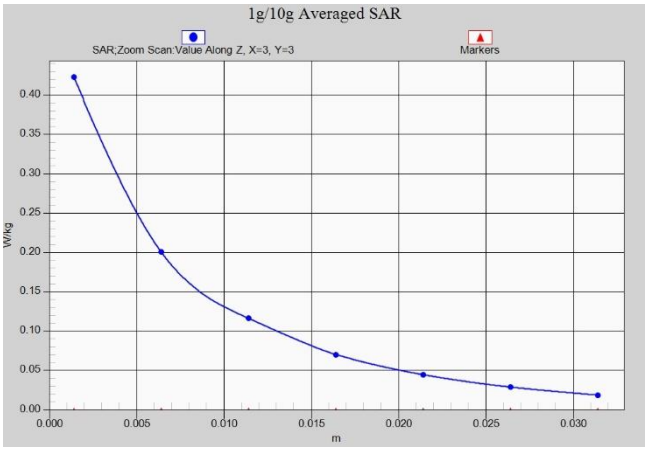


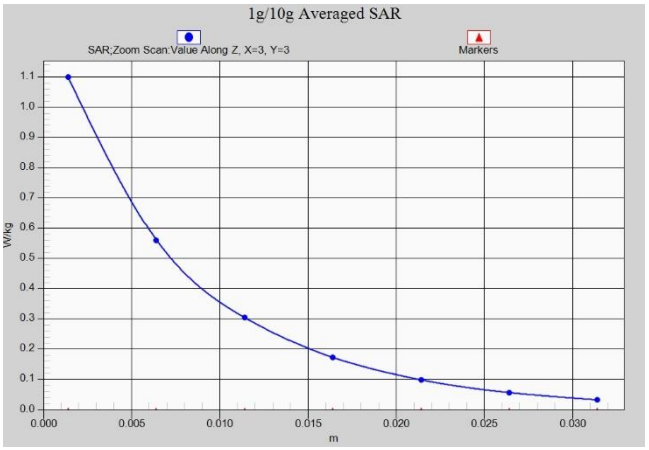
Fig A.73



Z-Scan at power reference point (GSM850)



Z-Scan at power reference point (GSM850)



Z-Scan at power reference point (GSM1900)