



No.I22Z60130-SEM03



# SAR TEST REPORT

No. I22Z60130-SEM03

For

**TCL Communication Ltd.**

**5G NR/LTE/WCDMA/GSM mobile phone**

**Model Name: T7760**

With

**Hardware Version: 03**

**Software Version: v4.0.7FA6**

**FCC ID: 2ACCJN065**

**Issued Date: 2022-4-1**

**Note:**

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**REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Issue Date</b>	<b>Description</b>
I22Z60130-SEM03	Rev.0	2022-3-28	Initial creation of test report
I22Z60130-SEM03	Rev.1	2022-4-1	<ol style="list-style-type: none"><li>1. Revise the tune-up procedure of N41-Power Level A1/B1 on section11.1, page110.</li><li>2. Revise the SAR results of N41-Head on Table14.2-9, page165.</li></ol>

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## 1 Test Laboratory

### 1.1 Testing Location

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

### 1.2 Testing Environment

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

### 1.3 Project Data

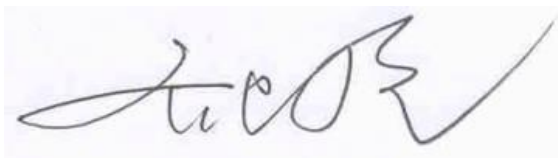
Project Leader:	Qi Dianyuan
Test Engineer:	Yao Juming
Testing Start Date:	February 18, 2022
Testing End Date:	March 24, 2022

### 1.4 Signature



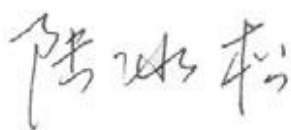
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**Yao Juming**  
(Prepared this test report)



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**Qi Dianyuan**  
(Reviewed this test report)



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**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 T7760 are as follows:

**Table 2.1: Highest Reported SAR (1g)**

Technology Band	Head (Separation Distance 0mm)	Hotspot (Separation Distance 10mm)	Phablet-10g (Separation Distance 0mm)	Equipment Class
GSM850	1.15	0.30	/	PCE
GSM1900	1.14	0.63	/	
WCDMA1900	0.77	1.06	/	
WCDMA1700	1.04	0.92	/	
WCDMA 850	0.97	0.25	/	
LTE Band2-ANT1	0.12	0.16	/	
LTE Band5	0.97	0.15	/	
LTE Band7	1.02	1.01	/	
LTE Band12	0.40	0.20	/	
LTE Band13	0.50	0.25	/	
LTE Band25	0.90	0.65	/	
LTE Band26	0.95	0.29	/	
LTE Band41-PC3	0.59	0.52	/	
LTE Band48	0.76	0.91	/	
LTE Band66-ANT2	1.06	1.14	/	
LTE Band66-ANT1	0.24	0.44	/	
LTE Band71	0.35	0.15	/	
5G NR n2	0.29	0.29	/	
5G NR n5	1.09	0.25	/	
5G NR n7	0.31	0.21	/	
5G NR n25	0.71	1.06	/	
5G NR n41	0.88	1.11	/	
5G NR n66	0.70	0.93	/	
5G NR n71	0.44	0.28	/	
5G NR n77	0.78	0.72	/	
5G NR n78	0.84	0.99	/	
WLAN 2.4GHz	1.12	0.27	/	DTS
WLAN 5GHz	1.17	0.79	/	NII

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

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

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

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

**Head: 1.17 W/kg (1g)**

**Body: 1.14 W/kg (1g).**

**Remark:**

This device supports both LTE B2/B4/B17/B38 and LTE B25/B66/B12/B41. Since the supported frequency span for LTE B2/B4/B17/B38 falls completely within the supports frequency span for LTE B25/B66/B12/B41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25/B66/B12/B41.

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

	Position	Main antenna	WiFi-2.4G	Sum
<b>Highest SAR value for Head</b>	Left head, Cheek (GSM1900)	1.14	0.26	<b>1.40</b>
<b>Highest SAR value for Body</b>	Right 10mm (LTE B66 ANT2)	1.14	0.16	<b>1.30</b>

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

	Position	Main antenna	WiFi-5G	BT	Sum
<b>Highest SAR value for Head</b>	Left head, Cheek (GSM1900)	1.14	0.19	<0.01	<b>1.33</b>
<b>Highest SAR value for Body</b>	Right 10mm (LTE B66 ANT2)	1.14	0.15	<0.01	<b>1.29</b>

According to the above tables, the highest sum of reported SAR values is **1.40 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

### 3 Client Information

#### 3.1 Applicant Information

Company Name:	TCL Communication Ltd.
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#### 3.2 Manufacturer Information

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Address/Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person:	Peter yang
Contact Email:	peter.yang@tcl.com
Telephone:	+86 755 3664 5759
Fax:	+86 755 3661 2000-81722



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

### 4.1 About EUT

Description:	5G NR/LTE/WCDMA/GSM mobile phone
Model name:	T7760
Operating mode(s):	GSM850/900/1800/1900, WCDMA850/900/1700/1900/2100 LTE Band 1/2/3/4/5/7/12/13/17/20/25/26/28/38/40/41/42/48/66/71 5G NR n2(only NSA)/n5/n7(only NSA)/n25/n28(only NSA)/n41/n66/n71/n77/n78 BT, Wi-Fi(2.4G/5G),
Tested Tx Frequency:	824 – 849 MHz (GSM 850)
	1850 – 1910 MHz (GSM 1900)
	824 – 849 MHz (WCDMA 850 Band V)
	1710-1755 MHz (WCDMA1700 Band IV)
	1850 – 1910 MHz (WCDMA1900 Band II)
	1850.7 – 1909.3 MHz (LTE Band 2)
	1710 – 1755 MHz (LTE Band 4)
	824 – 849 MHz (LTE Band 5)
	2502.5 – 2567.5 MHz (LTE Band 7)
	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)
	2570-2620 MHz(LTE Band 38)
	2498.5 –2687.5 MHz (LTE Band 41)
	3552.5 –3697.5 MHz (LTE Band 48)
	1710.7 –1779.3 MHz (LTE Band 66)
	665.5 –695.5 MHz (LTE Band 71)
	1850 – 1910 MHz(n2)
	824 – 849 MHz(n5)
	2500-2570 MHz (n7)
	1850 – 1915 MHz(n25)
	2496 – 2690 MHz(n41)
	1710 – 1780 MHz (n66)
	663 – 698 MHz(n71)
	3450– 3550 MHz ,3700– 3980 MHz (n77)
	3300 – 3800 MHz (n78)
	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)	
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	016197000031589	03	v4.0.7FA6
EUT2	016197000031688	03	v4.0.7FA6
EUT3	016197000031621	03	v4.0.7FA6
EUT4	016197000034898	03	v4.0.7FA6
EUT5	016197000034831	03	v4.0.7FA6
EUT6	016197000010294	03	v4.0.7FA6
EUT7	016197000000345	03	v4.0.7FA6
EUT8	016197000034708	03	v4.0.7FA6

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

**Note:** It is performed to test SAR with the EUT1-5 and conducted power with the EUT6-8.

#### 4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	TLp049B7	/	VEKEN

\*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 October 2020:** 5G and RF Exposure Policies (5G NR 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 ( $\rho$ ). The equation description is as below:

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

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

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

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

Where:  $C$  is the specific heat capacity,  $\delta T$  is the temperature rise and  $\delta t$  is the exposure duration, or related to the electrical field in the tissue by

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

Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  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( $\sigma$ )	$\pm 10\%$ Range	Permittivity( $\epsilon$ )	$\pm 10\%$ Range
750	Head	0.89	0.80~0.98	41.94	37.75~46.13
835	Head	0.90	0.81~0.99	41.5	37.35~45.65
1750	Head	1.40	1.26~1.54	40.0	36~44
1900	Head	1.40	1.26~1.54	40.0	36~44
2450	Head	1.80	1.62~1.98	39.2	35.28~43.12
2600	Head	1.96	1.76~2.16	39.01	35.11~42.91

**Table 7.2: Targets for tissue simulating liquid**

Frequency(MHz)	Liquid Type	Conductivity( $\sigma$ )	$\pm 5\%$ Range	Permittivity( $\epsilon$ )	$\pm 5\%$ Range
3700	Head	3.12	2.96~3.28	37.70	35.82~39.59
3900	Head	3.32	3.15~3.49	37.47	35.6~39.34
5250	Head	4.71	4.47~4.95	35.93	34.13~37.73
5600	Head	5.07	4.82~5.32	35.53	33.8~37.3
5750	Head	5.22	4.96~5.48	35.36	33.59~37.13

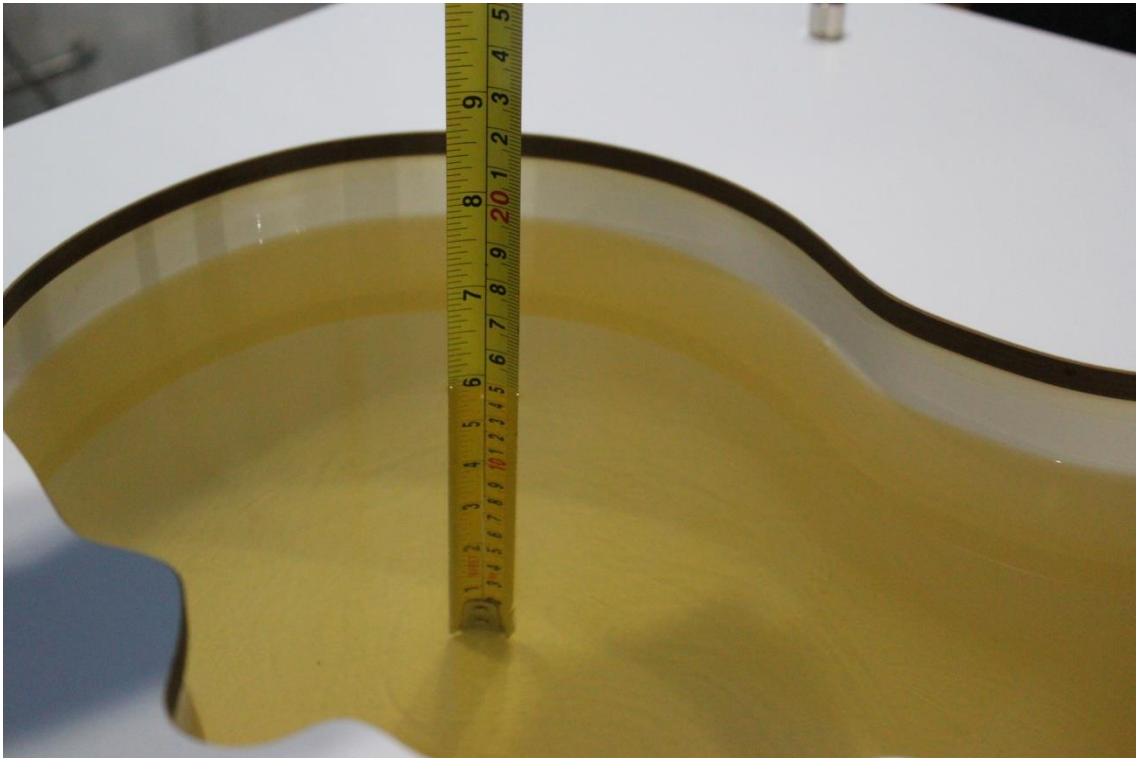
### 7.2 Dielectric Performance

**Table 7.3: Dielectric Performance of Tissue Simulating Liquid**

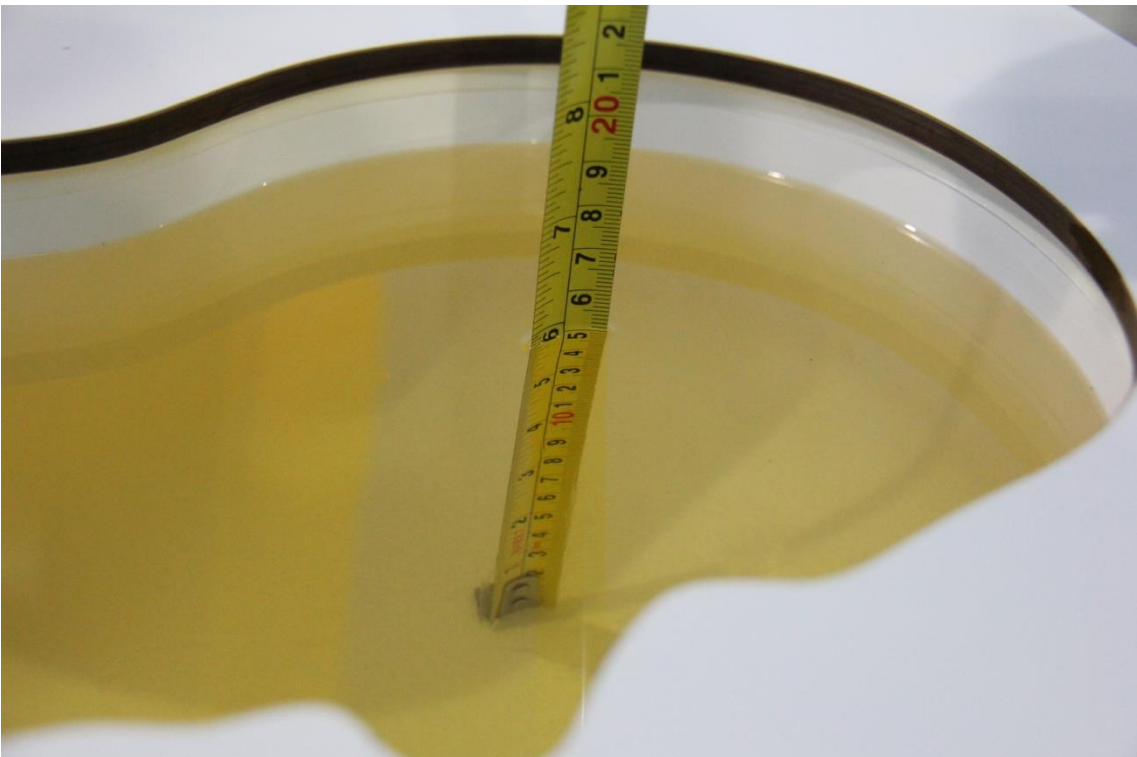
Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity $\epsilon$	Drift (%)	Conductivity $\sigma$ (S/m)	Drift (%)
2022-2-18	Head	750 MHz	45.34	8.11%	0.8509	-4.39%
2022-2-20	Head	750 MHz	43.47	3.65%	0.8071	-9.31%
2022-3-11	Head	835 MHz	45.38	9.35%	0.8691	-3.43%
2022-2-21	Head	835 MHz	44.09	6.24%	0.8415	-6.50%
2022-2-22	Head	1750 MHz	42.8	6.79%	1.385	1.09%
2022-3-8	Head	1750 MHz	42.93	7.11%	1.39	1.46%
2022-2-23	Head	1900 MHz	43.07	7.68%	1.473	5.21%
2022-3-12	Head	1900 MHz	41.85	4.63%	1.421	1.50%
2022-2-24	Head	2450 MHz	40.3	2.81%	1.911	6.17%
2022-3-19	Head	2600 MHz	40.25	3.18%	1.974	0.71%
2022-3-7	Head	2600 MHz	41.51	6.41%	2.104	7.35%
2022-3-16	Head	3400 MHz	38.36	0.84%	2.712	-3.49%
2022-3-17	Head	3600 MHz	38.04	0.61%	2.922	-3.25%
2022-3-18	Head	3800 MHz	37.8	0.56%	3.145	-2.33%
2022-3-22	Head	5250 MHz	34.82	-3.09%	4.799	1.89%
2022-3-23	Head	5600 MHz	34.61	-2.59%	5.141	1.40%
2022-3-24	Head	5750 MHz	33.77	-4.50%	5.303	1.59%

Note: The liquid temperature is 22.0°C

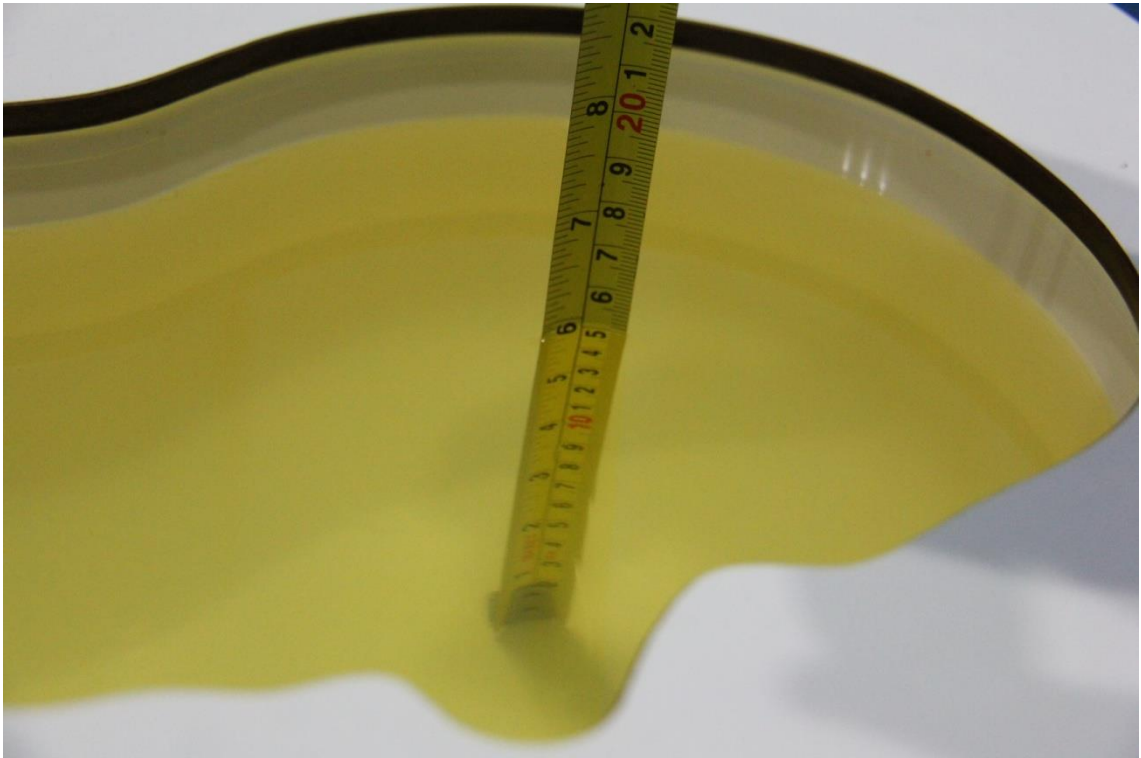
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Picture 7-1 Liquid depth in the Head Phantom (750MHz)



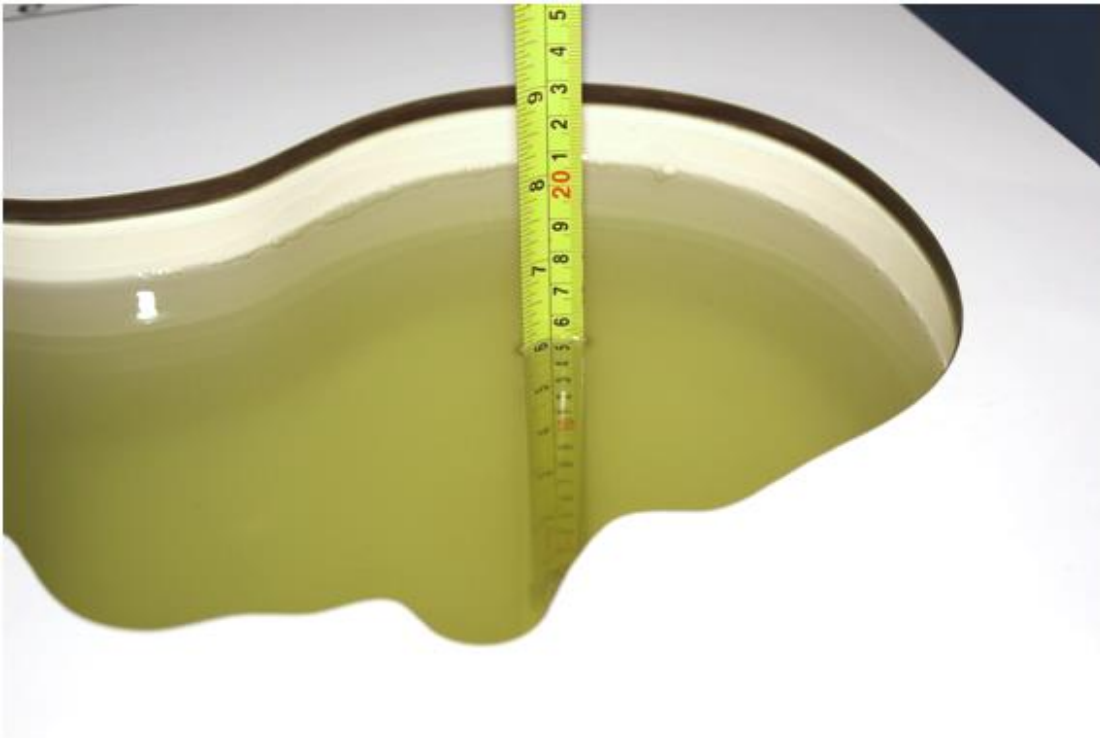
Picture 7-2 Liquid depth in the Head Phantom (835 MHz)



Picture 7-3 Liquid depth in the Head Phantom (1900 MHz)



Picture 7-4 Liquid depth in the Head Phantom (2450MHz)



Picture 7-5 Liquid depth in the Head Phantom (2600 MHz)



Picture 7-6 Liquid depth in the Head Phantom (3700 MHz)



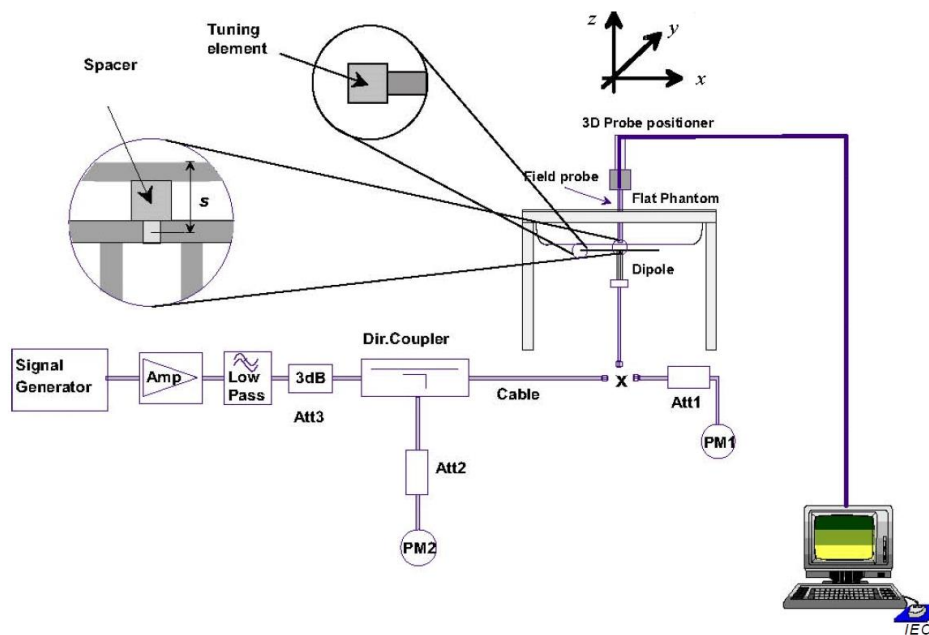


Picture 7-7 Liquid depth in the Head Phantom (5GHz)

## 8 System verification

### 8.1 System Setup

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



Picture 8.1 System Setup for System Evaluation



Picture 8.2 Photo of Dipole Setup

## 8.2 System Verification

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

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

**Table 8.1: System Verification of Head**

Measurement Date (yyyy-mm-dd)	Frequency	Target value (W/kg)		Measured value(W/kg)		Deviation	
		10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average
2022-2-18	750 MHz	5.65	8.68	5.60	8.40	-0.88%	-3.23%
2022-2-20	750 MHz	5.65	8.68	5.52	8.28	-2.30%	-4.61%
2022-3-11	835 MHz	6.24	9.63	5.96	9.16	-4.49%	-4.88%
2022-2-21	835 MHz	6.24	9.63	5.96	9.24	-4.49%	-4.05%
2022-2-22	1750 MHz	19.4	36.9	19.9	37.0	2.47%	0.38%
2022-3-8	1750 MHz	19.4	36.9	19.7	36.6	1.44%	-0.92%
2022-2-23	1900 MHz	20.9	40.1	20.6	39.9	-1.63%	-0.55%
2022-3-12	1900 MHz	20.9	40.1	20.5	39.7	-2.01%	-1.05%
2022-2-24	2450 MHz	24.9	53.3	24.2	52.0	-2.97%	-2.44%
2022-3-19	2600 MHz	25.5	57.1	24.8	56.8	-2.75%	-0.53%
2022-3-7	2600 MHz	25.5	57.1	24.3	54.4	-4.78%	-4.73%
2022-3-16	3400 MHz	25.5	67.7	24.5	64.6	-3.92%	-4.58%
2022-3-17	3600 MHz	24.9	66.5	24.1	64.8	-3.21%	-2.56%
2022-3-18	3800 MHz	24.0	65.4	23.9	64.9	-0.42%	-0.76%
2022-3-22	5250 MHz	22.7	79.5	22.2	77.6	-2.20%	-2.39%
2022-3-23	5600 MHz	23.7	83.8	22.9	80.3	-3.38%	-4.18%
2022-3-24	5750 MHz	22.7	81.0	22.2	78.2	-2.20%	-3.46%

## 9 Measurement Procedures

### 9.1 Tests to be performed

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

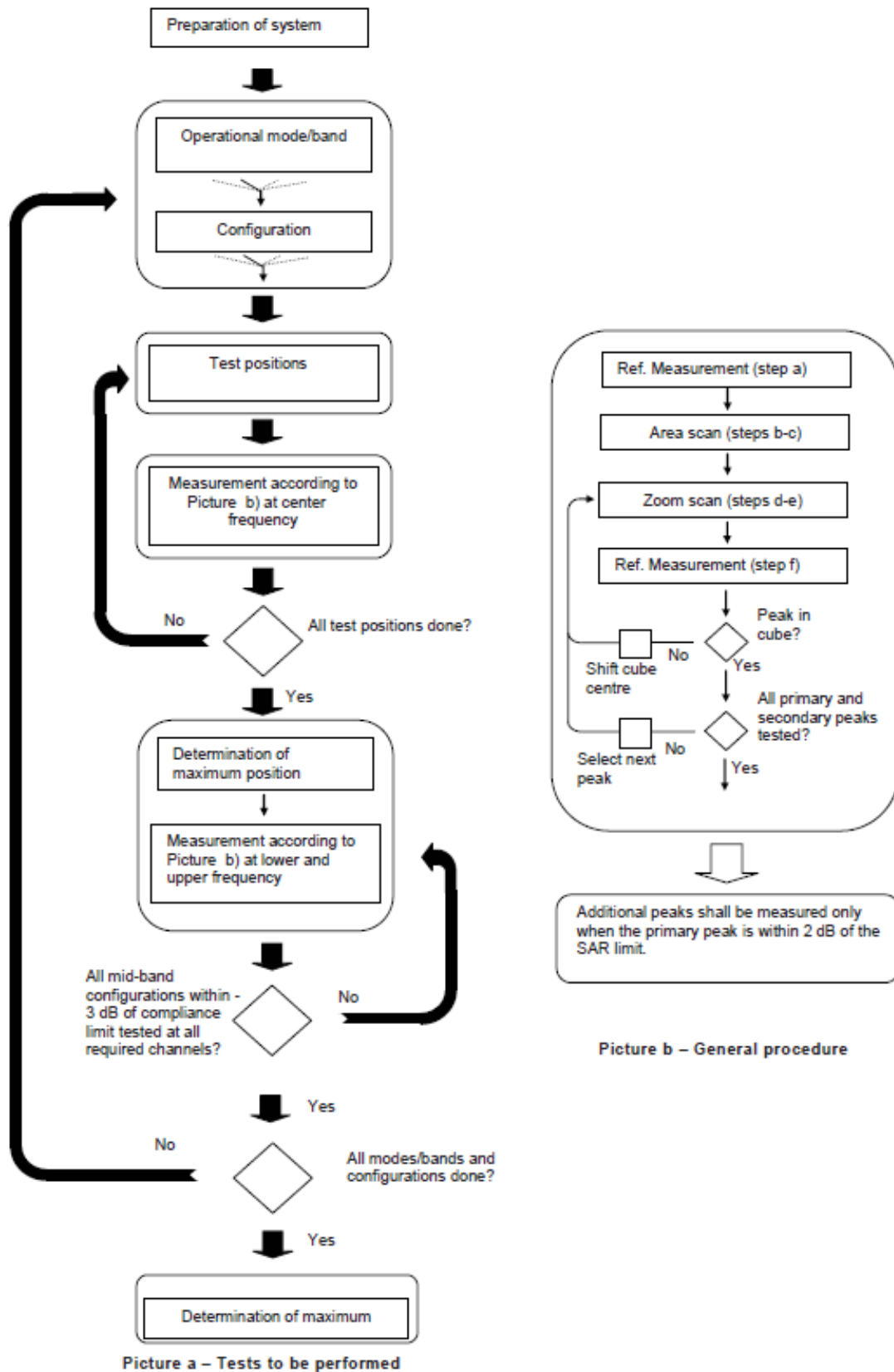
**Step 1:** The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band ( $f_c$ ) for:

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

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

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

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



Picture 9.1 Block 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.

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

### 9.3 WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & DPDCH<sub>n</sub>), 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	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c / \beta_d$	$\beta_{hs}$	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	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c / \beta_d$	$\beta_{hs}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1039/225	4	1	1.5	1.5	20	75
2	6/15	15/15	64	6/15	12/15	12/15	12/15	4	1	1.5	1.5	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1} : 47/15$ $\beta_{ed2} : 47/15$	4	2	1.5	1.5	15	92
4	2/15	15/15	64	2/15	4/15	4/15	56/75	4	1	1.5	1.5	17	71
5	15/15	15/15	64	15/15	24/15	30/15	134/15	4	1	1.5	1.5	21	81

#### Rel.8 DC-HSDPA (Cat 24)

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

## 9.4 SAR Measurement for LTE

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

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

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

### 1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is  $\leq 0.8$  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

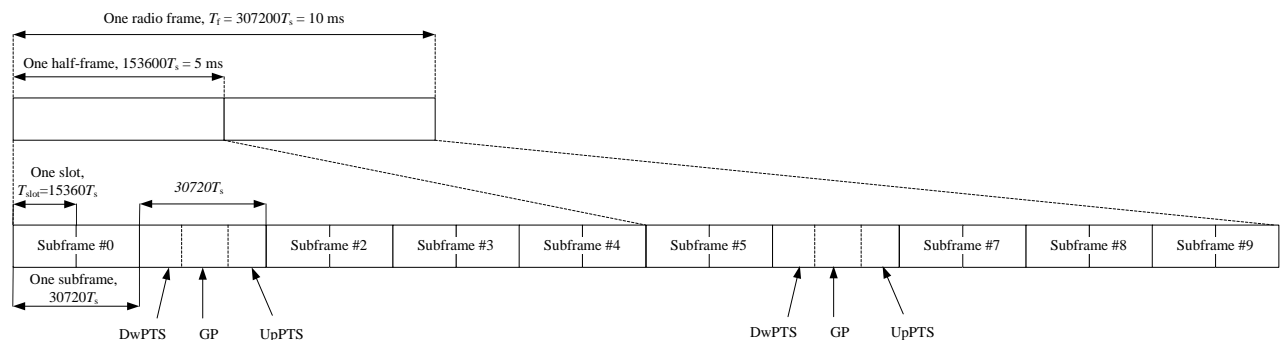
The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

### 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  $\leq 0.8$  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	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
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

$$= (30720 \cdot T_s * 6 + 5120 \cdot T_s * 2) / 307200 \cdot T_s$$

$$= 0.633$$

## 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 section 14 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  $\leq 1.2$  W/kg, a zoom scan measurement is not required provided it is also not needed for any other purpose; for example, if the peak SAR location required for simultaneous transmission SAR test exclusion can be determined accurately by the SAR system or manually to discriminate between distinctive peaks and scattered noisy SAR distributions from area scans.

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

### 10.2 Fast SAR Algorithms

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

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

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

Both algorithms are implemented in DASYS software.

## 11 Conducted Output Power

### 1. WWAN part transmit power reduce process

Mobile Gravity Sensor (G-sensor) periodically detect mobile's state, when G-sensor detects mobile as static state, mobile's transmit power remain as maximum (max or normal), when G-sensor detects mobile as moving state, mobile's transmit power reduce process follow below strategy:

- Sar\_settings1 (body 0/15mm): Receiver off, Hotspot off
- Sar\_settings2 (body 10mm): Receiver off, Hotspot on
- Sar\_settings3 (head): Receiver on, Hotspot off/on

Note that, when mobile is in "static" state, the detection frequency is 200ms. When mobile is in "dynamic" state, the detection frequency is 30s. The detail of G-sensor is presented in Annex I.

**Table11-1: Summary of Receiver detection mechanism-WWAN**

Antenna	Receiver on (Head scenario - Standalone)	Receiver on (Head scenario – Under ENDC)	Receiver off (Body scenario - standalone)	Receiver off (Body scenario- Under ENDC)
Sar_settings	3	3	1/2	1/2
Main Antenna	Power Level A1	Power Level B1	Power Level C1	Power Level D1

### 2. WLAN part transmit power reduce process follow below strategy:

- Sar\_settings1 (only Wi-Fi transmit in head mode): Receiver on, Cellular Tx off, Hotspot on/off;
- Sar\_settings2 (only Wi-Fi transmit in body 10/0/15mm mode): Receiver off, Cellular Tx off, Hotspot on/off;
- Sar\_settings3 (Cellular and Wi-Fi transmit simultaneously in head mode): Receiver on, Cellular Tx on, Hotspot on/off;
- Sar\_settings4 (Cellular and Wi-Fi transmit simultaneously in body 10/0/15mm mode): Receiver off, Cellular Tx on, Hotspot on/off;

**Table11-2: Summary of Receiver detection mechanism-WIFI**

Antenna	Receiver on- Transmit alone (Head scenario)	Receiver on- Transmit with WWAN (Head scenario)	Receiver off- Transmit alone (Body scenario)	Receiver off- Transmit with WWAN (Body scenario)
Sar_settings	3	3	1/2	1/2
WIFI Antenna	Power Level A1	Power Level B1	Power Level C1	Power Level D1

## 11.1 GSM Measurement result

**Table 11.1-1: The conducted power measurement results–GSM850  
Power Level A1/C1**

GSM 850 Speech (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.89	33.05	33.13	33.50	/	/	/	/
GSM 850 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.89	33.05	33.12	33.50	-9.03	23.86	24.02	24.09
2 Txslots	29.98	30.08	30.19	31.00	-6.02	23.96	24.06	24.17
<b>3 Txslots</b>	28.47	28.59	28.66	28.70	-4.26	24.21	24.33	24.40
4 Txslots	26.91	26.97	26.95	28.00	-3.01	23.90	23.96	23.94
GSM 850 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.88	33.03	33.08	33.50	-9.03	23.85	24.00	24.05
2 Txslots	29.96	30.02	30.13	31.00	-6.02	23.94	24.00	24.11
<b>3 Txslots</b>	28.43	28.55	28.63	28.70	-4.26	24.17	24.29	24.37
4 Txslots	26.87	27.02	27.07	28.00	-3.01	23.86	24.01	24.06
GSM 850 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	27.21	27.19	27.09	28.00	-9.03	18.18	18.16	18.06
2 Txslots	25.53	25.52	25.42	26.00	-6.02	19.51	19.50	19.40
3Txslots	23.98	24.00	23.97	25.00	-4.26	19.72	19.74	19.71
4 Txslots	21.97	21.86	21.98	23.00	-3.01	18.96	18.85	18.97

NOTES:

1) Division Factors

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

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

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

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

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

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

**Table 11.1-2: The conducted power measurement results-GSM1900  
Power Level A1/C1**

PCS1900 Speech (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.84	29.88	29.95	30.50	/	/	/	/
PCS1900 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.87	29.96	30.03	30.50	-9.03	20.84	20.93	21.00
2 Txslots	26.85	26.87	26.88	28.00	-6.02	20.83	20.85	20.86
<b>3 Txslots</b>	25.37	25.36	25.36	25.50	-4.26	21.11	21.10	21.10
4 Txslots	23.84	23.83	23.77	25.00	-3.01	20.83	20.82	20.76
PCS1900 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.88	29.96	30.02	30.50	-9.03	20.85	20.93	20.99
2 Txslots	26.86	26.86	26.87	28.00	-6.02	20.84	20.84	20.85
<b>3 Txslots</b>	25.37	25.39	25.36	25.50	-4.26	21.11	21.13	21.10
4 Txslots	23.84	23.83	23.76	25.00	-3.01	20.83	20.82	20.75
PCS1900 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	25.97	25.93	25.86	27.00	-9.03	16.94	16.90	16.83
2 Txslots	24.48	24.47	24.42	25.50	-6.02	18.46	18.45	18.40
3Txslots	23.22	23.03	22.89	24.00	-4.26	18.96	18.77	18.63
4 Txslots	21.65	21.47	21.32	22.50	-3.01	18.64	18.46	18.31

NOTES:

1) Division Factors

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

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

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

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

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

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

## 11.2 WCDMA Measurement result

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

WCDMA1900	Band	FDDII result (dBm)			Tune up
	ARFCN	9538/9938	9400/9800	9262/9662	
		(1907.6MHz)	(1880MHz)	(1852.4MHz)	
	/	20.16	20.19	20.26	20.50
HSUPA	1	17.97	18.14	17.91	19.00
	2	17.70	17.82	17.96	19.00
	3	18.56	18.71	17.97	19.00
	4	17.19	17.36	17.49	18.50
	5	18.61	18.63	18.75	19.50
HSPA+(16QAM)	/	18.56	18.74	18.69	19.50
DC-HSDPA	1	19.05	19.16	19.23	20.00
	2	18.09	18.18	18.40	19.00
	3	17.72	17.82	17.89	18.50
	4	17.66	17.75	17.81	18.50

WCDMA1700	Band	FDDIV result (dBm)			Tune up
	ARFCN	1513/1738	1412/1637	1312/1537	
		(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	/	19.93	19.96	20.06	20.50
HSUPA	1	17.49	17.48	17.45	18.50
	2	17.01	16.93	16.95	18.00
	3	17.03	16.94	16.97	18.00
	4	16.51	16.48	16.49	17.50
	5	17.81	17.78	17.76	18.50
HSPA+(16QAM)	/	18.41	18.26	17.47	19.00
DC-HSDPA	1	19.65	19.62	19.63	20.00
	2	18.83	18.77	18.82	20.00
	3	18.39	18.36	18.34	19.50
	4	18.30	18.27	18.35	19.50

Table 11.2-2: The conducted Power for WCDMA B2/B4-Power Level C1

WCDMA1900	Band	FDDII result (dBm)			Tune up
	ARFCN	9538/9938	9400/9800	9262/9662	
		(1907.6MHz)	(1880MHz)	(1852.4MHz)	
	/	23.15	23.20	23.35	24.00
HSUPA	1	20.75	20.88	20.98	22.00
	2	20.23	20.37	20.48	21.00
	3	20.24	20.32	21.52	22.00
	4	19.76	19.82	19.98	21.00
	5	21.18	21.32	21.45	22.00
HSPA+(16QAM)	/	21.81	21.87	21.95	22.00
DC-HSDPA	1	21.29	21.47	21.58	23.00
	2	21.57	21.52	21.60	23.00
	3	21.02	21.05	21.18	23.00
	4	21.03	21.02	21.08	23.00

WCDMA1700	Band	FDDIV result (dBm)			Tune up
	ARFCN	1513/1738	1412/1637	1312/1537	
		(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	/	23.17	23.05	23.12	24.00
HSUPA	1	20.69	20.61	20.65	21.50
	2	20.17	20.12	20.15	21.00
	3	20.22	20.15	20.14	21.00
	4	19.69	19.52	19.66	20.50
	5	21.15	21.12	21.14	22.00
HSPA+(16QAM)	/	21.76	21.75	21.71	22.00
DC-HSDPA	1	21.27	21.24	21.38	22.00
	2	21.24	21.16	21.29	22.00
	3	20.86	20.89	20.92	22.00
	4	20.01	19.93	20.07	21.00



**Table 11.2-3: The conducted Power for WCDMA B5-Power Level A1/C1**

WCDMA850	Band	FDDV result (dBm)			Tune up
	ARFCN	4233/4458	4183/4408	4132/4357	
		(846.6MHz)	(836.6MHz)	(826.4MHz)	
	/	23.65	23.49	23.55	24.00
HSUPA	1	21.05	20.90	20.94	22.00
	2	20.54	20.39	20.43	21.50
	3	20.56	20.33	20.45	21.50
	4	20.05	19.91	19.94	21.00
	5	21.53	21.54	21.55	23.00
HSPA+(16QAM)	/	22.14	22.12	22.01	23.00
DC-HSDPA	1	21.59	21.62	21.57	22.50
	2	21.48	21.58	21.54	22.50
	3	21.11	21.12	21.10	22.00
	4	21.03	21.09	21.06	22.00

### 11.3 LTE Measurement result

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

Band	Tune up (dBm)			
	Receiver on (head scenario - Standalone)	Receiver on (head scenario – Under ENDC)	Receiver off (Body scenario - standalone)	Receiver off (Body scenario- Under ENDC)
	Level A1	Level B1	Level C1	Level D1
Band 2(ANT1)	/	24.5	/	16
Band 5	24.5	20.6	24.5	24.5
Band 7	21.5	17	24.2	19
Band 12	24.5	24.5	24.5	24.5
Band 13	23.9	23.9	23.9	23.9
Band 25(ANT2)	20.7	/	22.7	/
Band 25(ANT1)	/	24.5	/	16.5
Band 26	24.5	/	24.5	/
Band 38	23.5	21	24.2	23
Band 41	23.5	/	24.2	/
Band 48	21.7	/	20.5	/
Band 66(ANT2)	20.5	/	23.7	/
Band 66(ANT1)	/	24.5	/	18
Band 71	24.5	24.5	24.5	24.5

LTE B2 ANT1-Power Level B1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	23.97	22.75	21.78
		1880 (18900)	23.83	22.92	21.81
		1850.7 (18607)	23.73	22.76	21.85
	1RB-Middle (3)	1909.3 (19193)	24.13	22.98	22.02
		1880 (18900)	23.99	23.00	21.93
		1850.7 (18607)	24.01	22.94	21.73
	1RB-Low (0)	1909.3 (19193)	23.89	23.01	21.94
		1880 (18900)	23.86	22.85	21.89
		1850.7 (18607)	23.90	22.76	21.87
	3RB-High (3)	1909.3 (19193)	23.91	22.78	21.81
		1880 (18900)	23.80	22.89	21.79
		1850.7 (18607)	23.81	22.92	21.86
	3RB-Middle (1)	1909.3 (19193)	24.10	23.03	21.92
		1880 (18900)	24.08	22.97	22.03
		1850.7 (18607)	23.94	22.82	21.74
	3RB-Low (0)	1909.3 (19193)	23.94	22.99	21.77
		1880 (18900)	23.88	22.87	21.96
		1850.7 (18607)	23.80	22.89	21.90
	6RB (0)	1909.3 (19193)	22.85	21.88	20.86
		1880 (18900)	22.79	22.04	21.15
		1850.7 (18607)	22.84	21.82	20.90
3MHz	1RB-High (14)	1908.5 (19185)	23.91	22.67	21.79
		1880 (18900)	23.79	22.78	21.90
		1851.5 (18615)	23.69	22.74	21.76
	1RB-Middle (7)	1908.5 (19185)	23.90	22.88	21.90
		1880 (18900)	23.92	23.12	21.98
		1851.5 (18615)	24.00	22.71	21.71
	1RB-Low (0)	1908.5 (19185)	23.94	22.87	21.77
		1880 (18900)	23.82	22.77	21.76
		1851.5 (18615)	23.94	22.71	21.99
	8RB-High (7)	1908.5 (19185)	22.90	21.90	20.99
		1880 (18900)	22.79	22.05	20.91
		1851.5 (18615)	22.78	22.07	20.95
	8RB-Middle (4)	1908.5 (19185)	22.91	22.01	20.97
		1880 (18900)	22.99	21.92	20.82
		1851.5 (18615)	22.80	21.92	20.97
	8RB-Low (0)	1908.5 (19185)	22.96	22.00	21.14
		1880 (18900)	23.03	21.81	20.80
		1851.5 (18615)	22.80	21.77	20.96
	15RB (0)	1908.5 (19185)	22.82	21.91	20.86
		1880 (18900)	22.82	22.02	21.11
		1851.5 (18615)	22.83	21.72	20.71

5MHz	1RB-High (24)	1907.5 (19175)	23.77	22.85	21.79	
		1880 (18900)	23.72	22.84	21.76	
		1852.5 (18625)	23.93	22.77	21.80	
	1RB-Middle (12)	1907.5 (19175)	24.02	22.87	21.98	
		1880 (18900)	24.05	23.00	22.04	
		1852.5 (18625)	23.83	22.76	21.71	
	1RB-Low (0)	1907.5 (19175)	23.81	22.80	21.94	
		1880 (18900)	23.75	22.76	21.94	
		1852.5 (18625)	23.80	22.87	21.94	
	12RB-High (13)	1907.5 (19175)	22.74	21.84	20.87	
		1880 (18900)	22.99	21.94	21.03	
		1852.5 (18625)	22.97	21.83	20.98	
	12RB-Middle (6)	1907.5 (19175)	22.88	21.89	20.80	
		1880 (18900)	22.93	21.89	20.67	
		1852.5 (18625)	22.90	21.99	20.99	
	12RB-Low (0)	1907.5 (19175)	23.10	22.06	21.20	
		1880 (18900)	23.03	21.99	20.71	
		1852.5 (18625)	22.84	21.71	20.81	
	25RB (0)	1907.5 (19175)	22.83	22.02	20.82	
		1880 (18900)	22.92	21.87	20.92	
		1852.5 (18625)	22.91	21.79	20.95	
	10MHz	1RB-High (49)	1905 (19150)	23.91	22.72	21.81
			1880 (18900)	23.80	22.84	21.82
			1855 (18650)	23.72	22.90	21.85
1RB-Middle (24)		1905 (19150)	24.06	22.89	21.84	
		1880 (18900)	23.95	23.04	22.09	
		1855 (18650)	23.84	22.79	21.89	
1RB-Low (0)		1905 (19150)	23.85	22.83	21.71	
		1880 (18900)	23.81	22.67	21.85	
		1855 (18650)	23.86	22.82	21.85	
25RB-High (25)		1905 (19150)	22.94	22.03	20.98	
		1880 (18900)	22.80	22.10	20.79	
		1855 (18650)	22.86	21.89	21.02	
25RB-Middle (12)		1905 (19150)	23.04	22.07	21.00	
		1880 (18900)	22.92	21.92	20.79	
		1855 (18650)	22.88	21.90	21.19	
25RB-Low (0)		1905 (19150)	23.03	22.10	21.26	
		1880 (18900)	22.93	21.90	20.80	
		1855 (18650)	22.81	21.79	20.86	
50RB (0)		1905 (19150)	22.94	21.94	20.91	
		1880 (18900)	23.00	21.96	20.92	
		1855 (18650)	22.78	21.75	20.93	

15MHz	1RB-High (74)	1902.5 (19125)	23.83	22.68	21.76	
		1880 (18900)	23.90	23.03	21.84	
		1857.5 (18675)	23.80	22.93	21.74	
	1RB-Middle (37)	1902.5 (19125)	23.90	22.90	21.81	
		1880 (18900)	23.92	23.14	22.06	
		1857.5 (18675)	23.97	22.85	21.67	
	1RB-Low (0)	1902.5 (19125)	23.97	22.91	21.93	
		1880 (18900)	23.97	22.67	21.80	
		1857.5 (18675)	23.83	22.82	21.85	
	36RB-High (38)	1902.5 (19125)	22.89	21.86	20.88	
		1880 (18900)	22.80	22.08	20.88	
		1857.5 (18675)	22.75	21.86	20.87	
	36RB-Middle (19)	1902.5 (19125)	22.93	21.92	20.86	
		1880 (18900)	22.78	21.80	20.76	
		1857.5 (18675)	22.95	22.00	21.01	
	36RB-Low (0)	1902.5 (19125)	22.92	22.14	21.25	
		1880 (18900)	22.95	21.98	20.80	
		1857.5 (18675)	22.74	21.86	20.74	
	75RB (0)	1902.5 (19125)	22.97	22.05	20.87	
		1880 (18900)	22.88	21.88	20.95	
		1857.5 (18675)	22.86	21.72	20.96	
	20MHz	1RB-High (99)	1900 (19100)	23.88	22.82	21.81
			1880 (18900)	23.87	22.93	21.84
			1860 (18700)	23.83	22.84	21.80
		1RB-Middle (50)	1900 (19100)	24.05	23.00	21.95
			1880 (18900)	24.01	23.05	21.99
			1860 (18700)	23.95	22.86	21.81
1RB-Low (0)		1900 (19100)	23.89	22.95	21.86	
		1880 (18900)	23.88	22.80	21.88	
		1860 (18700)	23.86	22.83	21.90	
50RB-High (50)		1900 (19100)	22.86	21.94	20.91	
		1880 (18900)	22.94	22.01	20.93	
		1860 (18700)	22.88	21.98	20.99	
50RB-Middle (25)		1900 (19100)	22.99	21.97	20.95	
		1880 (18900)	22.89	21.84	20.81	
		1860 (18700)	22.95	22.01	21.11	
50RB-Low (0)		1900 (19100)	23.05	22.13	21.18	
		1880 (18900)	22.98	21.92	20.86	
		1860 (18700)	22.85	21.79	20.87	
100RB (0)		1900 (19100)	22.88	21.97	20.97	
		1880 (18900)	22.92	21.96	21.06	
		1860 (18700)	22.83	21.85	20.86	

LTE B2 ANT1-Power Level D1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	15.41	15.48	15.42
		1880 (18900)	15.50	15.47	15.45
		1850.7 (18607)	15.29	15.53	15.45
	1RB-Middle (3)	1909.3 (19193)	15.42	15.52	15.45
		1880 (18900)	15.45	15.62	15.57
		1850.7 (18607)	15.46	15.49	15.37
	1RB-Low (0)	1909.3 (19193)	15.41	15.59	15.44
		1880 (18900)	15.47	15.35	15.53
		1850.7 (18607)	15.49	15.51	15.53
	3RB-High (3)	1909.3 (19193)	15.44	15.49	15.54
		1880 (18900)	15.55	15.50	15.46
		1850.7 (18607)	15.55	15.44	15.66
	3RB-Middle (1)	1909.3 (19193)	15.58	15.42	15.60
		1880 (18900)	15.55	15.40	15.45
		1850.7 (18607)	15.62	15.55	15.58
	3RB-Low (0)	1909.3 (19193)	15.51	15.64	15.79
		1880 (18900)	15.58	15.43	15.41
		1850.7 (18607)	15.57	15.38	15.48
	6RB (0)	1909.3 (19193)	15.58	15.53	15.55
		1880 (18900)	15.59	15.44	15.57
		1850.7 (18607)	15.44	15.49	15.58
3MHz	1RB-High (14)	1908.5 (19185)	15.46	15.52	15.43
		1880 (18900)	15.44	15.57	15.36
		1851.5 (18615)	15.45	15.43	15.52
	1RB-Middle (7)	1908.5 (19185)	15.44	15.51	15.50
		1880 (18900)	15.49	15.58	15.56
		1851.5 (18615)	15.35	15.42	15.35
	1RB-Low (0)	1908.5 (19185)	15.38	15.58	15.37
		1880 (18900)	15.39	15.52	15.52
		1851.5 (18615)	15.36	15.53	15.43
	8RB-High (7)	1908.5 (19185)	15.46	15.51	15.48
		1880 (18900)	15.54	15.55	15.47
		1851.5 (18615)	15.42	15.55	15.67
	8RB-Middle (4)	1908.5 (19185)	15.63	15.58	15.63
		1880 (18900)	15.46	15.30	15.44
		1851.5 (18615)	15.50	15.56	15.56
	8RB-Low (0)	1908.5 (19185)	15.61	15.57	15.74
		1880 (18900)	15.55	15.47	15.55
		1851.5 (18615)	15.54	15.27	15.41
	15RB (0)	1908.5 (19185)	15.53	15.59	15.46
		1880 (18900)	15.53	15.58	15.68
		1851.5 (18615)	15.51	15.49	15.52

5MHz	1RB-High (24)	1907.5 (19175)	15.31	15.41	15.43
		1880 (18900)	15.41	15.49	15.44
		1852.5 (18625)	15.30	15.38	15.38
	1RB-Middle (12)	1907.5 (19175)	15.48	15.65	15.52
		1880 (18900)	15.46	15.61	15.54
		1852.5 (18625)	15.40	15.53	15.37
	1RB-Low (0)	1907.5 (19175)	15.35	15.61	15.38
		1880 (18900)	15.46	15.39	15.51
		1852.5 (18625)	15.36	15.51	15.43
	12RB-High (13)	1907.5 (19175)	15.38	15.38	15.45
		1880 (18900)	15.59	15.59	15.43
		1852.5 (18625)	15.48	15.40	15.59
	12RB-Middle (6)	1907.5 (19175)	15.46	15.47	15.51
		1880 (18900)	15.47	15.46	15.38
		1852.5 (18625)	15.59	15.57	15.66
	12RB-Low (0)	1907.5 (19175)	15.70	15.51	15.62
		1880 (18900)	15.48	15.43	15.40
		1852.5 (18625)	15.42	15.33	15.45
25RB (0)	1907.5 (19175)	15.50	15.49	15.66	
	1880 (18900)	15.59	15.58	15.55	
	1852.5 (18625)	15.52	15.36	15.57	
10MHz	1RB-High (49)	1905 (19150)	15.41	15.45	15.41
		1880 (18900)	15.46	15.55	15.50
		1855 (18650)	15.40	15.52	15.35
	1RB-Middle (24)	1905 (19150)	15.53	15.54	15.52
		1880 (18900)	15.57	15.67	15.58
		1855 (18650)	15.36	15.48	15.40
	1RB-Low (0)	1905 (19150)	15.51	15.53	15.53
		1880 (18900)	15.46	15.42	15.58
		1855 (18650)	15.39	15.35	15.49
	25RB-High (25)	1905 (19150)	15.57	15.43	15.54
		1880 (18900)	15.47	15.47	15.63
		1855 (18650)	15.39	15.47	15.66
	25RB-Middle (12)	1905 (19150)	15.65	15.43	15.63
		1880 (18900)	15.51	15.39	15.50
		1855 (18650)	15.52	15.54	15.74
	25RB-Low (0)	1905 (19150)	15.62	15.63	15.71
		1880 (18900)	15.62	15.51	15.39
		1855 (18650)	15.55	15.30	15.55
50RB (0)	1905 (19150)	15.44	15.39	15.58	
	1880 (18900)	15.50	15.52	15.67	
	1855 (18650)	15.44	15.49	15.46	

15MHz	1RB-High (74)	1902.5 (19125)	15.34	15.36	15.48
		1880 (18900)	15.37	15.55	15.44
		1857.5 (18675)	15.38	15.52	15.44
	1RB-Middle (37)	1902.5 (19125)	15.48	15.50	15.43
		1880 (18900)	15.41	15.70	15.64
		1857.5 (18675)	15.55	15.42	15.45
	1RB-Low (0)	1902.5 (19125)	15.49	15.61	15.46
		1880 (18900)	15.47	15.43	15.54
		1857.5 (18675)	15.40	15.54	15.49
	36RB-High (38)	1902.5 (19125)	15.52	15.55	15.49
		1880 (18900)	15.58	15.46	15.63
		1857.5 (18675)	15.58	15.40	15.56
	36RB-Middle (19)	1902.5 (19125)	15.55	15.46	15.55
		1880 (18900)	15.57	15.47	15.51
		1857.5 (18675)	15.44	15.54	15.68
	36RB-Low (0)	1902.5 (19125)	15.70	15.64	15.81
		1880 (18900)	15.52	15.55	15.54
		1857.5 (18675)	15.56	15.43	15.43
	75RB (0)	1902.5 (19125)	15.42	15.44	15.59
		1880 (18900)	15.60	15.38	15.71
		1857.5 (18675)	15.42	15.44	15.42
20MHz	1RB-High (99)	1900 (19100)	15.46	15.50	15.48
		1880 (18900)	15.45	15.57	15.50
		1860 (18700)	15.42	15.51	15.47
	1RB-Middle (50)	1900 (19100)	15.57	15.62	15.58
		1880 (18900)	15.54	15.65	15.61
		1860 (18700)	15.50	15.52	15.48
	1RB-Low (0)	1900 (19100)	15.46	15.58	15.51
		1880 (18900)	15.46	15.48	15.53
		1860 (18700)	15.44	15.50	15.54
	50RB-High (50)	1900 (19100)	15.53	15.52	15.57
		1880 (18900)	15.58	15.57	15.58
		1860 (18700)	15.54	15.55	15.62
	50RB-Middle (25)	1900 (19100)	15.61	15.54	15.59
		1880 (18900)	15.55	15.45	15.49
		1860 (18700)	15.59	15.57	15.71
	50RB-Low (0)	1900 (19100)	15.65	15.65	15.77
		1880 (18900)	15.61	15.51	15.53
		1860 (18700)	15.52	15.41	15.54
	100RB (0)	1900 (19100)	15.54	15.54	15.61
		1880 (18900)	15.57	15.53	15.68
		1860 (18700)	15.51	15.46	15.53



LTE B5-Power Level A1/C1/D1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3 (20643)	23.12	22.29	21.60
		836.5 (20525)	23.08	22.26	21.70
		824.7 (20407)	23.11	22.81	21.64
	1RB-Middle (3)	848.3 (20643)	23.08	22.36	21.66
		836.5 (20525)	23.10	22.37	21.72
		824.7 (20407)	23.09	22.78	21.76
	1RB-Low (0)	848.3 (20643)	23.06	22.32	21.74
		836.5 (20525)	23.10	22.31	21.23
		824.7 (20407)	23.06	22.84	21.60
	3RB-High (3)	848.3 (20643)	23.11	21.06	21.66
		836.5 (20525)	23.09	21.11	21.68
		824.7 (20407)	23.08	21.09	21.59
	3RB-Middle (1)	848.3 (20643)	23.11	21.05	21.65
		836.5 (20525)	23.11	21.08	21.60
		824.7 (20407)	23.10	21.11	21.70
	3RB-Low (0)	848.3 (20643)	23.08	21.06	21.58
		836.5 (20525)	23.09	21.11	21.62
		824.7 (20407)	23.13	21.05	21.60
	6RB (0)	848.3 (20643)	22.63	21.62	20.49
		836.5 (20525)	22.60	21.64	20.50
		824.7 (20407)	22.57	21.61	20.44
3MHz	1RB-High (14)	847.5 (20635)	23.58	22.73	21.63
		836.5 (20525)	23.04	22.79	21.60
		825.5 (20415)	23.58	22.70	21.69
	1RB-Middle (7)	847.5 (20635)	23.63	22.29	21.64
		836.5 (20525)	23.66	22.76	21.75
		825.5 (20415)	23.65	22.80	21.68
	1RB-Low (0)	847.5 (20635)	23.57	22.83	21.64
		836.5 (20525)	23.59	22.77	21.68
		825.5 (20415)	23.59	22.78	21.61
	8RB-High (7)	847.5 (20635)	22.54	21.56	20.51
		836.5 (20525)	22.54	21.61	20.55
		825.5 (20415)	22.53	21.61	20.53
	8RB-Middle (4)	847.5 (20635)	22.53	21.64	20.55
		836.5 (20525)	22.57	21.67	20.57
		825.5 (20415)	22.54	21.57	20.57
	8RB-Low (0)	847.5 (20635)	22.56	21.62	20.54
		836.5 (20525)	22.54	21.58	20.49
		825.5 (20415)	22.56	21.60	20.58
	15RB (0)	847.5 (20635)	22.54	21.58	20.50
		836.5 (20525)	22.54	21.56	20.51
		825.5 (20415)	22.58	21.56	20.51

5MHz	1RB-High (24)	846.5 (20625)	23.13	22.74	21.67	
		836.5 (20525)	23.59	22.81	21.64	
		826.5 (20425)	23.63	22.74	21.66	
	1RB-Middle (12)	846.5 (20625)	23.08	22.75	21.77	
		836.5 (20525)	23.67	22.87	21.77	
		826.5 (20425)	23.62	22.74	21.78	
	1RB-Low (0)	846.5 (20625)	23.64	22.83	21.75	
		836.5 (20525)	23.66	22.86	21.74	
		826.5 (20425)	23.62	22.72	21.70	
	12RB-High (13)	846.5 (20625)	22.54	21.47	20.54	
		836.5 (20525)	22.56	21.54	20.54	
		826.5 (20425)	22.50	21.50	20.47	
	12RB-Middle (6)	846.5 (20625)	22.61	21.55	20.60	
		836.5 (20525)	22.60	21.51	20.56	
		826.5 (20425)	22.56	21.52	20.53	
	12RB-Low (0)	846.5 (20625)	22.68	21.62	20.70	
		836.5 (20525)	22.60	21.56	20.58	
		826.5 (20425)	22.60	21.54	20.58	
	25RB (0)	846.5 (20625)	22.60	21.58	20.57	
		836.5 (20525)	22.61	21.59	20.56	
		826.5 (20425)	22.56	21.58	20.49	
	10MHz	1RB-High (49)	844 (20600)	23.58	22.74	21.64
			836.5 (20525)	23.54	22.71	21.64
			829 (20450)	23.57	22.64	21.58
1RB-Middle (24)		844 (20600)	23.65	22.89	21.76	
		836.5 (20525)	23.63	22.76	21.79	
		829 (20450)	23.63	22.68	21.64	
1RB-Low (0)		844 (20600)	23.56	22.82	21.64	
		836.5 (20525)	23.62	22.75	21.66	
		829 (20450)	23.61	22.76	21.71	
25RB-High (25)		844 (20600)	22.49	21.55	20.50	
		836.5 (20525)	22.61	21.63	20.57	
		829 (20450)	22.57	21.55	20.54	
25RB-Middle (12)		844 (20600)	22.64	21.56	20.58	
		836.5 (20525)	22.63	21.57	20.56	
		829 (20450)	22.61	21.58	20.51	
25RB-Low (0)		844 (20600)	22.61	21.61	20.60	
		836.5 (20525)	22.57	21.60	20.55	
		829 (20450)	22.60	21.61	20.59	
50RB (0)		844 (20600)	22.56	21.59	20.57	
		836.5 (20525)	22.59	21.57	20.56	
		829 (20450)	22.56	21.58	20.54	

LTE B5-Power Level B1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3 (20643)	20.33	20.65	20.55
		836.5 (20525)	20.37	20.05	20.05
		824.7 (20407)	20.41	20.66	20.58
	1RB-Middle (3)	848.3 (20643)	20.39	20.54	20.02
		836.5 (20525)	20.36	20.23	20.01
		824.7 (20407)	20.42	20.59	20.55
	1RB-Low (0)	848.3 (20643)	20.33	20.20	19.94
		836.5 (20525)	20.37	20.22	20.02
		824.7 (20407)	20.37	20.55	20.57
	3RB-High (3)	848.3 (20643)	20.41	20.34	20.47
		836.5 (20525)	20.37	20.45	20.47
		824.7 (20407)	20.41	20.42	20.55
	3RB-Middle (1)	848.3 (20643)	20.40	20.44	20.52
		836.5 (20525)	20.40	20.47	20.53
		824.7 (20407)	20.42	20.48	20.55
	3RB-Low (0)	848.3 (20643)	20.36	20.44	20.47
		836.5 (20525)	20.42	20.42	20.50
		824.7 (20407)	20.41	20.47	20.53
	6RB (0)	848.3 (20643)	20.40	20.52	20.34
		836.5 (20525)	20.39	20.52	20.40
		824.7 (20407)	20.45	20.50	20.37
3MHz	1RB-High (14)	847.5 (20635)	20.29	20.49	20.52
		836.5 (20525)	20.35	20.63	20.49
		825.5 (20415)	20.41	20.68	20.51
	1RB-Middle (7)	847.5 (20635)	20.36	20.71	20.19
		836.5 (20525)	20.37	20.62	20.21
		825.5 (20415)	20.47	20.62	20.67
	1RB-Low (0)	847.5 (20635)	20.32	20.61	20.00
		836.5 (20525)	20.38	20.58	20.52
		825.5 (20415)	20.36	20.68	20.55
	8RB-High (7)	847.5 (20635)	20.30	20.41	20.40
		836.5 (20525)	20.33	20.41	20.47
		825.5 (20415)	20.35	20.43	20.44
	8RB-Middle (4)	847.5 (20635)	20.29	20.44	20.42
		836.5 (20525)	20.36	20.43	20.39
		825.5 (20415)	20.37	20.46	20.45
	8RB-Low (0)	847.5 (20635)	20.34	20.42	20.45
		836.5 (20525)	20.36	20.48	20.43
		825.5 (20415)	20.41	20.46	20.44
	15RB (0)	847.5 (20635)	20.33	20.41	20.38
		836.5 (20525)	20.33	20.40	20.42
		825.5 (20415)	20.36	20.43	20.42

5MHz	1RB-High (24)	846.5 (20625)	20.35	20.52	20.54	
		836.5 (20525)	20.40	20.67	20.49	
		826.5 (20425)	20.41	20.60	20.59	
	1RB-Middle (12)	846.5 (20625)	20.42	20.57	20.56	
		836.5 (20525)	20.45	20.70	20.55	
		826.5 (20425)	20.42	20.64	20.53	
	1RB-Low (0)	846.5 (20625)	20.37	20.70	20.53	
		836.5 (20525)	20.42	20.68	20.61	
		826.5 (20425)	20.37	20.58	20.59	
	12RB-High (13)	846.5 (20625)	20.30	20.36	20.42	
		836.5 (20525)	20.35	20.38	20.40	
		826.5 (20425)	20.35	20.33	20.39	
	12RB-Middle (6)	846.5 (20625)	20.36	20.40	20.40	
		836.5 (20525)	20.37	20.43	20.39	
		826.5 (20425)	20.38	20.43	20.45	
	12RB-Low (0)	846.5 (20625)	20.42	20.42	20.49	
		836.5 (20525)	20.43	20.44	20.46	
		826.5 (20425)	20.42	20.45	20.49	
	25RB (0)	846.5 (20625)	20.38	20.41	20.41	
		836.5 (20525)	20.40	20.41	20.45	
		826.5 (20425)	20.38	20.45	20.39	
	10MHz	1RB-High (49)	844 (20600)	20.33	20.55	20.48
			836.5 (20525)	20.35	20.60	20.45
			829 (20450)	20.31	20.51	20.50
1RB-Middle (24)		844 (20600)	20.43	20.58	20.59	
		836.5 (20525)	20.42	20.69	20.56	
		829 (20450)	20.39	20.75	20.49	
1RB-Low (0)		844 (20600)	20.37	20.72	20.47	
		836.5 (20525)	20.41	20.64	20.56	
		829 (20450)	20.39	20.69	20.60	
25RB-High (25)		844 (20600)	20.29	20.36	20.34	
		836.5 (20525)	20.32	20.39	20.36	
		829 (20450)	20.37	20.39	20.37	
25RB-Middle (12)		844 (20600)	20.38	20.44	20.45	
		836.5 (20525)	20.33	20.42	20.43	
		829 (20450)	20.37	20.40	20.43	
25RB-Low (0)		844 (20600)	20.48	20.45	20.49	
		836.5 (20525)	20.31	20.42	20.41	
		829 (20450)	20.42	20.47	20.47	
50RB (0)		844 (20600)	20.41	20.44	20.39	
		836.5 (20525)	20.34	20.37	20.40	
		829 (20450)	20.35	20.40	20.42	

LTE B7-Power Level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2567.5 (21425)	21.13	21.53	21.14
		2535 (21100)	20.69	21.17	20.84
		2502.5 (20775)	20.84	21.21	21.05
	1RB-Middle (12)	2567.5 (21425)	20.97	21.49	21.21
		2535 (21100)	20.89	21.19	21.01
		2502.5 (20775)	20.88	21.30	21.28
	1RB-Low (0)	2567.5 (21425)	20.93	21.22	21.19
		2535 (21100)	20.99	21.14	20.99
		2502.5 (20775)	21.24	21.24	21.28
	12RB-High (13)	2567.5 (21425)	21.07	21.19	21.18
		2535 (21100)	20.83	20.93	20.80
		2502.5 (20775)	20.91	20.95	20.79
	12RB-Middle (6)	2567.5 (21425)	20.91	21.28	21.15
		2535 (21100)	20.88	20.97	20.96
		2502.5 (20775)	20.96	21.13	20.92
	12RB-Low (0)	2567.5 (21425)	21.21	21.22	21.16
		2535 (21100)	21.07	20.96	21.02
		2502.5 (20775)	21.03	20.92	21.12
	25RB (0)	2567.5 (21425)	21.08	21.14	21.11
		2535 (21100)	20.98	20.79	20.75
		2502.5 (20775)	21.17	21.06	21.08
10MHz	1RB-High (49)	2565 (21400)	21.16	21.33	21.20
		2535 (21100)	20.73	21.23	21.02
		2505 (20800)	20.81	21.22	21.00
	1RB-Middle (24)	2565 (21400)	21.19	21.48	21.26
		2535 (21100)	20.81	21.16	21.02
		2505 (20800)	20.94	21.22	21.26
	1RB-Low (0)	2565 (21400)	21.00	21.30	21.05
		2535 (21100)	21.12	20.99	21.08
		2505 (20800)	21.17	21.18	21.21
	25RB-High (25)	2565 (21400)	20.98	21.12	21.23
		2535 (21100)	20.89	20.81	20.89
		2505 (20800)	20.95	21.04	20.84
	25RB-Middle (12)	2565 (21400)	21.15	21.18	21.22
		2535 (21100)	20.93	20.99	20.95
		2505 (20800)	21.00	20.99	21.03
	25RB-Low (0)	2565 (21400)	21.19	21.03	21.02
		2535 (21100)	21.14	20.89	20.85
		2505 (20800)	21.04	21.06	20.99
	50RB (0)	2565 (21400)	20.93	21.18	21.01
		2535 (21100)	20.96	20.95	20.81
		2505 (20800)	21.05	20.88	21.02

15MHz	1RB-High (74)	2562.5 (21375)	20.95	21.45	21.14	
		2535 (21100)	20.74	21.09	21.06	
		2507.5 (20825)	20.87	21.17	20.91	
	1RB-Middle (37)	2562.5 (21375)	21.16	21.30	21.31	
		2535 (21100)	20.94	21.21	21.00	
		2507.5 (20825)	21.09	21.11	21.15	
	1RB-Low (0)	2562.5 (21375)	20.96	21.18	20.95	
		2535 (21100)	21.21	21.06	20.85	
		2507.5 (20825)	21.27	21.18	21.28	
	36RB-High (38)	2562.5 (21375)	21.00	21.00	21.22	
		2535 (21100)	20.72	20.82	20.96	
		2507.5 (20825)	20.99	20.90	20.91	
	36RB-Middle (19)	2562.5 (21375)	21.08	21.21	21.10	
		2535 (21100)	21.01	20.95	20.98	
		2507.5 (20825)	21.09	21.14	21.15	
	36RB-Low (0)	2562.5 (21375)	21.18	21.04	21.02	
		2535 (21100)	21.06	20.80	20.95	
		2507.5 (20825)	21.11	20.97	20.93	
	75RB (0)	2562.5 (21375)	21.05	21.10	21.20	
		2535 (21100)	20.75	20.76	20.79	
		2507.5 (20825)	21.05	20.85	20.95	
	20MHz	1RB-High (99)	2560 (21350)	21.12	21.50	21.34
			2535 (21100)	20.83	21.19	21.04
			2510 (20850)	20.86	21.29	21.08
		1RB-Middle (50)	2560 (21350)	21.16	21.44	21.40
			2535 (21100)	20.97	21.30	21.06
			2510 (20850)	21.06	21.28	21.24
1RB-Low (0)		2560 (21350)	21.10	21.27	21.15	
		2535 (21100)	21.17	21.19	21.03	
		2510 (20850)	21.22	21.32	21.37	
50RB-High (50)		2560 (21350)	21.16	21.20	21.18	
		2535 (21100)	20.91	20.97	20.92	
		2510 (20850)	20.97	21.02	20.99	
50RB-Middle (25)		2560 (21350)	21.11	21.24	21.20	
		2535 (21100)	21.01	20.98	21.01	
		2510 (20850)	21.08	21.15	21.10	
50RB-Low (0)		2560 (21350)	21.17	21.19	21.17	
		2535 (21100)	21.12	21.00	21.02	
		2510 (20850)	21.18	21.09	21.09	
100RB (0)		2560 (21350)	21.12	21.17	21.17	
		2535 (21100)	20.94	20.91	20.93	
		2510 (20850)	21.24	21.05	21.05	

LTE B7-Power Level B1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2567.5 (21425)	16.80	16.95	16.85
		2535 (21100)	16.57	16.74	16.64
		2502.5 (20775)	16.17	16.23	16.21
	1RB-Middle (12)	2567.5 (21425)	16.84	16.95	16.89
		2535 (21100)	16.50	16.67	16.52
		2502.5 (20775)	16.23	16.35	16.21
	1RB-Low (0)	2567.5 (21425)	16.82	16.96	16.85
		2535 (21100)	16.51	16.60	16.50
		2502.5 (20775)	16.18	16.41	16.31
	12RB-High (13)	2567.5 (21425)	16.75	16.59	16.68
		2535 (21100)	16.47	16.31	16.34
		2502.5 (20775)	16.17	16.00	15.98
	12RB-Middle (6)	2567.5 (21425)	16.77	16.63	16.68
		2535 (21100)	16.43	16.27	16.34
		2502.5 (20775)	16.20	15.97	16.07
	12RB-Low (0)	2567.5 (21425)	16.83	16.67	16.70
		2535 (21100)	16.45	16.31	16.36
		2502.5 (20775)	16.22	16.06	16.03
	25RB (0)	2567.5 (21425)	16.76	16.66	16.66
		2535 (21100)	16.45	16.32	16.33
		2502.5 (20775)	16.18	16.06	16.05
10MHz	1RB-High (49)	2565 (21400)	16.78	16.95	16.85
		2535 (21100)	16.60	16.59	16.64
		2505 (20800)	16.14	16.33	16.20
	1RB-Middle (24)	2565 (21400)	16.86	16.87	16.88
		2535 (21100)	16.45	16.67	16.45
		2505 (20800)	16.14	16.36	16.12
	1RB-Low (0)	2565 (21400)	16.91	16.97	16.86
		2535 (21100)	16.43	16.68	16.45
		2505 (20800)	16.21	16.35	16.25
	25RB-High (25)	2565 (21400)	16.77	16.62	16.62
		2535 (21100)	16.54	16.39	16.40
		2505 (20800)	16.14	16.00	16.02
	25RB-Middle (12)	2565 (21400)	16.83	16.68	16.68
		2535 (21100)	16.45	16.34	16.33
		2505 (20800)	16.15	15.99	16.02
	25RB-Low (0)	2565 (21400)	16.86	16.72	16.69
		2535 (21100)	16.48	16.34	16.31
		2505 (20800)	16.15	15.97	16.01
	50RB (0)	2565 (21400)	16.79	16.67	16.68
		2535 (21100)	16.54	16.35	16.35
		2505 (20800)	16.12	15.98	16.01

15MHz	1RB-High (74)	2562.5 (21375)	16.59	16.88	16.65
		2535 (21100)	16.48	16.68	16.55
		2507.5 (20825)	16.12	16.31	16.17
	1RB-Middle (37)	2562.5 (21375)	16.71	16.81	16.78
		2535 (21100)	16.42	16.50	16.51
		2507.5 (20825)	16.08	16.31	16.16
	1RB-Low (0)	2562.5 (21375)	16.65	16.75	16.73
		2535 (21100)	16.25	16.42	16.31
		2507.5 (20825)	16.11	16.32	16.13
	36RB-High (38)	2562.5 (21375)	16.68	16.52	16.62
		2535 (21100)	16.44	16.33	16.39
		2507.5 (20825)	16.12	15.98	16.01
	36RB-Middle (19)	2562.5 (21375)	16.74	16.59	16.64
		2535 (21100)	16.43	16.29	16.36
		2507.5 (20825)	16.11	15.92	16.00
	36RB-Low (0)	2562.5 (21375)	16.77	16.63	16.68
		2535 (21100)	16.41	16.27	16.29
		2507.5 (20825)	16.14	15.95	15.97
	75RB (0)	2562.5 (21375)	16.79	16.62	16.65
		2535 (21100)	16.46	16.25	16.35
		2507.5 (20825)	16.16	15.97	16.00
20MHz	1RB-High (99)	2560 (21350)	16.87	16.83	16.82
		2535 (21100)	16.67	16.69	16.60
		2510 (20850)	16.21	16.24	16.29
	1RB-Middle (50)	2560 (21350)	16.91	16.86	16.89
		2535 (21100)	16.56	16.64	16.56
		2510 (20850)	16.16	16.34	16.16
	1RB-Low (0)	2560 (21350)	16.78	16.89	16.73
		2535 (21100)	16.37	16.55	16.34
		2510 (20850)	16.15	16.25	16.14
	50RB-High (50)	2560 (21350)	16.86	16.66	16.69
		2535 (21100)	16.65	16.47	16.45
		2510 (20850)	16.20	15.99	16.01
	50RB-Middle (25)	2560 (21350)	16.92	16.71	16.70
		2535 (21100)	16.61	16.43	16.42
		2510 (20850)	16.26	16.07	16.07
	50RB-Low (0)	2560 (21350)	16.93	16.72	16.71
		2535 (21100)	16.57	16.35	16.36
		2510 (20850)	16.19	16.00	15.99
	100RB (0)	2560 (21350)	16.89	16.69	16.68
		2535 (21100)	16.58	16.33	16.38
		2510 (20850)	16.17	16.01	16.00



LTE B7-Power Level C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2567.5 (21425)	23.85	23.11	22.12
		2535 (21100)	23.45	22.77	21.74
		2502.5 (20775)	23.70	23.10	21.91
	1RB-Middle (12)	2567.5 (21425)	23.82	23.23	22.10
		2535 (21100)	23.49	22.94	21.68
		2502.5 (20775)	23.80	23.15	21.97
	1RB-Low (0)	2567.5 (21425)	23.77	23.08	22.02
		2535 (21100)	23.42	22.85	21.75
		2502.5 (20775)	23.81	23.14	22.08
	12RB-High (13)	2567.5 (21425)	22.95	21.92	20.92
		2535 (21100)	22.55	21.49	20.55
		2502.5 (20775)	22.86	21.76	20.84
	12RB-Middle (6)	2567.5 (21425)	22.92	21.93	20.92
		2535 (21100)	22.59	21.57	20.56
		2502.5 (20775)	22.86	21.84	20.87
	12RB-Low (0)	2567.5 (21425)	22.91	21.92	20.91
		2535 (21100)	22.58	21.57	20.53
		2502.5 (20775)	22.90	21.88	20.86
	25RB (0)	2567.5 (21425)	22.94	21.95	20.91
		2535 (21100)	22.58	21.56	20.53
		2502.5 (20775)	22.89	21.90	20.88
10MHz	1RB-High (49)	2565 (21400)	23.82	23.20	22.07
		2535 (21100)	23.43	22.84	21.66
		2505 (20800)	23.59	23.03	21.89
	1RB-Middle (24)	2565 (21400)	23.73	23.15	22.06
		2535 (21100)	23.42	22.88	21.74
		2505 (20800)	23.73	23.01	21.96
	1RB-Low (0)	2565 (21400)	23.71	23.05	21.94
		2535 (21100)	23.41	22.90	21.69
		2505 (20800)	23.75	23.16	21.95
	25RB-High (25)	2565 (21400)	22.88	21.88	20.84
		2535 (21100)	22.60	21.55	20.56
		2505 (20800)	22.79	21.84	20.79
	25RB-Middle (12)	2565 (21400)	22.87	21.88	20.90
		2535 (21100)	22.54	21.60	20.50
		2505 (20800)	22.84	21.85	20.82
	25RB-Low (0)	2565 (21400)	22.87	21.91	20.85
		2535 (21100)	22.58	21.62	20.60
		2505 (20800)	22.86	21.87	20.80
	50RB (0)	2565 (21400)	22.85	21.85	20.84
		2535 (21100)	22.60	21.60	20.54
		2505 (20800)	22.86	21.83	20.78

15MHz	1RB-High (74)	2562.5 (21375)	23.67	23.03	21.95	
		2535 (21100)	23.34	22.80	21.73	
		2507.5 (20825)	23.44	22.76	21.80	
	1RB-Middle (37)	2562.5 (21375)	23.57	22.99	21.93	
		2535 (21100)	23.38	22.83	21.66	
		2507.5 (20825)	23.59	22.95	21.90	
	1RB-Low (0)	2562.5 (21375)	23.50	22.92	21.80	
		2535 (21100)	23.34	22.69	21.73	
		2507.5 (20825)	23.66	23.12	21.95	
	36RB-High (38)	2562.5 (21375)	22.80	21.82	20.79	
		2535 (21100)	22.54	21.52	20.51	
		2507.5 (20825)	22.73	21.65	20.70	
	36RB-Middle (19)	2562.5 (21375)	22.75	21.74	20.76	
		2535 (21100)	22.54	21.50	20.54	
		2507.5 (20825)	22.76	21.72	20.76	
	36RB-Low (0)	2562.5 (21375)	22.75	21.76	20.78	
		2535 (21100)	22.52	21.58	20.51	
		2507.5 (20825)	22.82	21.79	20.77	
	75RB (0)	2562.5 (21375)	22.75	21.77	20.79	
		2535 (21100)	22.51	21.51	20.55	
		2507.5 (20825)	22.73	21.75	20.70	
	20MHz	1RB-High (99)	2560 (21350)	23.79	23.20	22.16
			2535 (21100)	23.51	22.91	21.83
			2510 (20850)	23.54	22.93	21.84
		1RB-Middle (50)	2560 (21350)	23.75	23.21	22.09
			2535 (21100)	23.76	22.92	21.80
			2510 (20850)	23.75	23.02	21.96
1RB-Low (0)		2560 (21350)	23.64	23.12	22.03	
		2535 (21100)	23.50	22.92	21.75	
		2510 (20850)	23.83	23.23	22.05	
50RB-High (50)		2560 (21350)	22.95	21.96	20.97	
		2535 (21100)	22.66	21.65	20.64	
		2510 (20850)	22.79	21.81	20.76	
50RB-Middle (25)		2560 (21350)	22.92	22.02	20.99	
		2535 (21100)	22.74	21.73	20.74	
		2510 (20850)	22.91	21.94	20.92	
50RB-Low (0)		2560 (21350)	22.93	21.92	20.92	
		2535 (21100)	22.76	21.78	20.71	
		2510 (20850)	22.97	21.93	20.93	
100RB (0)		2560 (21350)	22.93	21.94	20.93	
		2535 (21100)	22.73	21.68	20.71	
		2510 (20850)	22.91	21.84	20.82	

LTE B7-Power Level D1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2567.5 (21425)	18.50	18.77	18.75
		2535 (21100)	18.40	18.71	18.71
		2502.5 (20775)	18.00	18.57	18.20
	1RB-Middle (12)	2567.5 (21425)	18.82	18.88	18.87
		2535 (21100)	18.60	18.89	18.79
		2502.5 (20775)	18.25	18.44	18.40
	1RB-Low (0)	2567.5 (21425)	18.46	18.98	18.84
		2535 (21100)	18.24	18.58	18.50
		2502.5 (20775)	17.86	18.26	18.14
	12RB-High (13)	2567.5 (21425)	18.60	18.63	18.64
		2535 (21100)	18.71	18.58	18.69
		2502.5 (20775)	17.97	18.19	18.03
	12RB-Middle (6)	2567.5 (21425)	18.72	18.72	18.71
		2535 (21100)	18.53	18.54	18.74
		2502.5 (20775)	18.25	18.17	18.15
	12RB-Low (0)	2567.5 (21425)	18.79	18.89	18.90
		2535 (21100)	18.52	18.57	18.52
		2502.5 (20775)	18.00	18.14	18.04
	25RB (0)	2567.5 (21425)	18.79	18.81	18.86
		2535 (21100)	18.54	18.61	18.70
		2502.5 (20775)	18.14	18.02	18.12
10MHz	1RB-High (49)	2565 (21400)	18.56	18.69	18.65
		2535 (21100)	18.56	18.71	18.71
		2505 (20800)	18.14	18.52	18.38
	1RB-Middle (24)	2565 (21400)	18.74	18.96	18.78
		2535 (21100)	18.42	18.80	18.64
		2505 (20800)	18.12	18.35	18.27
	1RB-Low (0)	2565 (21400)	18.50	18.88	18.77
		2535 (21100)	18.32	18.63	18.45
		2505 (20800)	17.99	18.33	18.02
	25RB-High (25)	2565 (21400)	18.66	18.66	18.67
		2535 (21100)	18.68	18.50	18.61
		2505 (20800)	18.03	18.01	18.04
	25RB-Middle (12)	2565 (21400)	18.88	18.69	18.72
		2535 (21100)	18.64	18.51	18.66
		2505 (20800)	18.21	18.20	18.16
	25RB-Low (0)	2565 (21400)	18.70	18.88	18.77
		2535 (21100)	18.54	18.53	18.48
		2505 (20800)	17.99	18.17	18.03
	50RB (0)	2565 (21400)	18.76	18.73	18.63
		2535 (21100)	18.58	18.55	18.69
		2505 (20800)	18.18	18.08	18.05

15MHz	1RB-High (74)	2562.5 (21375)	18.56	18.64	18.68
		2535 (21100)	18.53	18.79	18.62
		2507.5 (20825)	18.06	18.59	18.24
	1RB-Middle (37)	2562.5 (21375)	18.69	19.00	18.76
		2535 (21100)	18.54	18.96	18.77
		2507.5 (20825)	18.12	18.43	18.32
	1RB-Low (0)	2562.5 (21375)	18.58	18.96	18.82
		2535 (21100)	18.40	18.54	18.54
		2507.5 (20825)	18.05	18.30	18.22
	36RB-High (38)	2562.5 (21375)	18.70	18.69	18.67
		2535 (21100)	18.61	18.58	18.72
		2507.5 (20825)	18.10	18.02	18.00
	36RB-Middle (19)	2562.5 (21375)	18.69	18.88	18.85
		2535 (21100)	18.63	18.68	18.53
		2507.5 (20825)	18.00	18.15	18.11
	36RB-Low (0)	2562.5 (21375)	18.83	18.70	18.88
		2535 (21100)	18.51	18.44	18.49
		2507.5 (20825)	18.13	18.16	17.98
	75RB (0)	2562.5 (21375)	18.66	18.82	18.65
		2535 (21100)	18.67	18.53	18.45
		2507.5 (20825)	18.06	18.20	18.01
20MHz	1RB-High (99)	2560 (21350)	18.57	18.84	18.82
		2535 (21100)	18.56	18.89	18.74
		2510 (20850)	18.20	18.55	18.37
	1RB-Middle (50)	2560 (21350)	18.84	18.96	18.92
		2535 (21100)	18.62	18.93	18.81
		2510 (20850)	18.22	18.51	18.45
	1RB-Low (0)	2560 (21350)	18.64	18.93	18.85
		2535 (21100)	18.37	18.73	18.59
		2510 (20850)	18.05	18.38	18.20
	50RB-High (50)	2560 (21350)	18.76	18.77	18.78
		2535 (21100)	18.68	18.67	18.68
		2510 (20850)	18.16	18.21	18.20
	50RB-Middle (25)	2560 (21350)	18.84	18.83	18.88
		2535 (21100)	18.67	18.64	18.69
		2510 (20850)	18.20	18.27	18.25
	50RB-Low (0)	2560 (21350)	18.86	18.88	18.87
		2535 (21100)	18.63	18.62	18.66
		2510 (20850)	18.09	18.17	18.12
	100RB (0)	2560 (21350)	18.80	18.81	18.81
		2535 (21100)	18.64	18.61	18.65
		2510 (20850)	18.18	18.15	18.19

LTE B12-Power Level A1/B1/C1/D1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	715.3 (23173)	23.47	22.15	21.81
		707.5 (23095)	23.52	22.71	21.71
		699.7 (23017)	23.54	22.71	21.81
	1RB-Middle (3)	715.3 (23173)	23.49	22.19	21.73
		707.5 (23095)	23.51	22.67	21.74
		699.7 (23017)	23.01	22.31	21.84
	1RB-Low (0)	715.3 (23173)	23.48	22.09	21.75
		707.5 (23095)	23.50	22.68	21.75
		699.7 (23017)	23.14	22.80	21.88
	3RB-High (3)	715.3 (23173)	23.50	22.51	21.74
		707.5 (23095)	23.49	22.45	21.72
		699.7 (23017)	23.56	22.48	21.76
	3RB-Middle (1)	715.3 (23173)	23.52	22.49	21.68
		707.5 (23095)	23.49	22.51	21.68
		699.7 (23017)	23.58	22.52	21.81
	3RB-Low (0)	715.3 (23173)	23.50	22.43	21.67
		707.5 (23095)	23.49	22.43	21.64
		699.7 (23017)	23.58	22.54	21.77
	6RB (0)	715.3 (23173)	22.50	21.68	20.58
		707.5 (23095)	22.48	21.69	20.55
		699.7 (23017)	22.58	21.78	20.61
3MHz	1RB-High (14)	714.5 (23165)	23.43	22.55	21.79
		707.5 (23095)	23.51	22.67	21.72
		700.5 (23025)	23.52	22.72	21.78
	1RB-Middle (7)	714.5 (23165)	23.50	22.63	21.78
		707.5 (23095)	23.56	22.64	21.72
		700.5 (23025)	23.60	22.75	21.84
	1RB-Low (0)	714.5 (23165)	23.48	22.72	21.74
		707.5 (23095)	23.48	22.69	21.78
		700.5 (23025)	23.59	22.76	21.85
	8RB-High (7)	714.5 (23165)	22.47	21.66	20.65
		707.5 (23095)	22.44	21.69	20.59
		700.5 (23025)	22.53	21.71	20.68
	8RB-Middle (4)	714.5 (23165)	22.44	21.64	20.59
		707.5 (23095)	22.46	21.71	20.59
		700.5 (23025)	22.54	21.60	20.70
	8RB-Low (0)	714.5 (23165)	22.50	21.75	20.66
		707.5 (23095)	22.48	21.68	20.61
		700.5 (23025)	22.56	21.79	20.69
	15RB (0)	714.5 (23165)	22.46	21.64	20.58
		707.5 (23095)	22.44	21.61	20.56
		700.5 (23025)	22.54	21.71	20.65

5MHz	1RB-High (24)	713.5 (23155)	23.50	22.71	21.77	
		707.5 (23095)	23.54	22.77	21.75	
		701.5 (23035)	23.55	22.65	21.73	
	1RB-Middle (12)	713.5 (23155)	23.56	22.68	21.79	
		707.5 (23095)	23.59	22.75	21.73	
		701.5 (23035)	23.65	22.81	21.80	
	1RB-Low (0)	713.5 (23155)	23.57	22.79	21.81	
		707.5 (23095)	23.55	22.76	21.82	
		701.5 (23035)	23.64	22.76	21.92	
	12RB-High (13)	713.5 (23155)	22.38	21.55	20.54	
		707.5 (23095)	22.50	21.62	20.64	
		701.5 (23035)	22.52	21.70	20.69	
	12RB-Middle (6)	713.5 (23155)	22.46	21.61	20.62	
		707.5 (23095)	22.54	21.66	20.65	
		701.5 (23035)	22.59	21.56	20.74	
	12RB-Low (0)	713.5 (23155)	22.55	21.74	20.71	
		707.5 (23095)	22.53	21.65	20.69	
		701.5 (23035)	22.58	21.69	20.76	
	25RB (0)	713.5 (23155)	22.50	21.63	20.64	
		707.5 (23095)	22.47	21.66	20.64	
		701.5 (23035)	22.60	21.75	20.71	
	10MHz	1RB-High (49)	711 (23130)	23.39	22.57	21.72
			707.5 (23095)	23.46	22.63	21.71
			704 (23060)	23.52	22.66	21.75
1RB-Middle (24)		711 (23130)	23.53	22.70	21.78	
		707.5 (23095)	23.55	22.68	21.78	
		704 (23060)	23.55	22.83	21.87	
1RB-Low (0)		711 (23130)	23.52	22.65	21.84	
		707.5 (23095)	23.55	22.79	21.76	
		704 (23060)	23.60	22.73	21.93	
25RB-High (25)		711 (23130)	22.30	21.46	20.46	
		707.5 (23095)	22.45	21.62	20.62	
		704 (23060)	22.50	21.66	20.66	
25RB-Middle (12)		711 (23130)	22.46	21.66	20.63	
		707.5 (23095)	22.49	21.65	20.62	
		704 (23060)	22.49	21.71	20.68	
25RB-Low (0)		711 (23130)	22.51	21.64	20.64	
		707.5 (23095)	22.40	21.56	20.55	
		704 (23060)	22.53	21.68	20.65	
50RB (0)		711 (23130)	22.40	21.60	20.54	
		707.5 (23095)	22.43	21.61	20.55	
		704 (23060)	22.57	21.67	20.66	

LTE B13-Power Level A1/B1/C1/D1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	784.5 (23255)	23.64	22.78	21.79
		782 (23230)	23.67	22.87	21.64
		779.5 (23205)	23.61	22.86	21.67
	1RB-Middle (12)	784.5 (23255)	23.68	22.96	21.82
		782 (23230)	23.71	22.78	21.7
		779.5 (23205)	23.69	22.88	21.72
	1RB-Low (0)	784.5 (23255)	23.65	22.75	21.66
		782 (23230)	23.65	22.78	21.72
		779.5 (23205)	23.77	22.86	21.83
	12RB-High (13)	784.5 (23255)	22.54	21.52	20.51
		782 (23230)	22.56	21.52	20.48
		779.5 (23205)	22.64	21.6	20.61
	12RB-Middle (6)	784.5 (23255)	22.59	21.62	20.59
		782 (23230)	22.55	21.52	20.52
		779.5 (23205)	22.61	21.55	20.53
	12RB-Low (0)	784.5 (23255)	22.65	21.62	20.61
		782 (23230)	22.48	21.46	20.42
		779.5 (23205)	22.6	21.51	20.55
	25RB (0)	784.5 (23255)	22.58	21.58	20.53
		782 (23230)	22.54	21.52	20.51
		779.5 (23205)	22.62	21.58	20.55
10MHz	1RB-High (49)	782 (23230)	23.63	22.8	21.69
	1RB-Middle (24)	782 (23230)	23.68	22.79	21.69
	1RB-Low (0)	782 (23230)	23.74	22.92	21.7
	25RB-High (25)	782 (23230)	22.54	21.54	20.48
	25RB-Middle (12)	782 (23230)	22.57	21.58	20.54
	25RB-Low (0)	782 (23230)	22.4	21.39	20.38
	50RB (0)	782 (23230)	22.49	21.46	20.4

LTE B25 ANT2-Power Level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	20.09	20.49	20.22
		1882.5 (26365)	20.15	20.49	20.35
		1850.7 (26047)	20.28	20.49	20.27
	1RB-Middle (3)	1914.3 (26683)	20.26	20.60	20.31
		1882.5 (26365)	20.32	20.39	20.40
		1850.7 (26047)	20.30	20.43	20.36
	1RB-Low (0)	1914.3 (26683)	20.22	20.46	20.55
		1882.5 (26365)	20.27	20.42	20.48
		1850.7 (26047)	20.05	20.42	20.32
	3RB-High (3)	1914.3 (26683)	20.31	20.32	20.43
		1882.5 (26365)	20.35	20.30	20.51
		1850.7 (26047)	20.30	20.29	20.27
	3RB-Middle (1)	1914.3 (26683)	20.42	20.47	20.46
		1882.5 (26365)	20.22	20.43	20.44
		1850.7 (26047)	20.34	20.17	20.30
	3RB-Low (0)	1914.3 (26683)	20.32	20.40	20.39
		1882.5 (26365)	20.32	20.45	20.46
		1850.7 (26047)	20.17	20.31	20.08
	6RB (0)	1914.3 (26683)	20.26	20.43	20.41
		1882.5 (26365)	20.45	20.28	20.47
		1850.7 (26047)	20.10	20.22	20.28
3MHz	1RB-High (14)	1913.5 (26675)	20.12	20.58	20.17
		1882.5 (26365)	20.16	20.44	20.33
		1851.5 (26055)	20.29	20.64	20.51
	1RB-Middle (7)	1913.5 (26675)	20.22	20.41	20.38
		1882.5 (26365)	20.20	20.41	20.38
		1851.5 (26055)	20.15	20.47	20.46
	1RB-Low (0)	1913.5 (26675)	20.14	20.48	20.54
		1882.5 (26365)	20.26	20.60	20.32
		1851.5 (26055)	20.01	20.54	20.26
	8RB-High (7)	1913.5 (26675)	20.23	20.37	20.40
		1882.5 (26365)	20.43	20.43	20.35
		1851.5 (26055)	20.30	20.24	20.10
	8RB-Middle (4)	1913.5 (26675)	20.35	20.31	20.34
		1882.5 (26365)	20.23	20.48	20.47
		1851.5 (26055)	20.14	20.33	20.28
	8RB-Low (0)	1913.5 (26675)	20.33	20.45	20.34
		1882.5 (26365)	20.47	20.49	20.42
		1851.5 (26055)	20.08	20.33	20.16
	15RB (0)	1913.5 (26675)	20.29	20.40	20.26
		1882.5 (26365)	20.36	20.38	20.31
		1851.5 (26055)	20.21	20.33	20.14



5MHz	1RB-High (24)	1912.5 (26665)	20.19	20.40	20.14	
		1882.5 (26365)	20.31	20.53	20.22	
		1852.5 (26065)	20.27	20.49	20.32	
	1RB-Middle (12)	1912.5 (26665)	20.32	20.54	20.47	
		1882.5 (26365)	20.22	20.38	20.48	
		1852.5 (26065)	20.25	20.59	20.44	
	1RB-Low (0)	1912.5 (26665)	20.12	20.53	20.44	
		1882.5 (26365)	20.22	20.58	20.32	
		1852.5 (26065)	20.08	20.44	20.25	
	12RB-High (13)	1912.5 (26665)	20.22	20.43	20.41	
		1882.5 (26365)	20.36	20.30	20.30	
		1852.5 (26065)	20.20	20.26	20.15	
	12RB-Middle (6)	1912.5 (26665)	20.31	20.41	20.32	
		1882.5 (26365)	20.21	20.42	20.47	
		1852.5 (26065)	20.33	20.28	20.37	
	12RB-Low (0)	1912.5 (26665)	20.49	20.43	20.38	
		1882.5 (26365)	20.49	20.51	20.43	
		1852.5 (26065)	20.20	20.21	20.25	
	25RB (0)	1912.5 (26665)	20.31	20.46	20.36	
		1882.5 (26365)	20.27	20.28	20.42	
		1852.5 (26065)	20.20	20.16	20.26	
	10MHz	1RB-High (49)	1910 (26640)	20.18	20.50	20.14
			1882.5 (26365)	20.06	20.56	20.19
			1855 (26090)	20.29	20.54	20.45
1RB-Middle (24)		1910 (26640)	20.37	20.50	20.52	
		1882.5 (26365)	20.38	20.35	20.63	
		1855 (26090)	20.13	20.46	20.44	
1RB-Low (0)		1910 (26640)	20.30	20.34	20.55	
		1882.5 (26365)	20.22	20.60	20.49	
		1855 (26090)	20.17	20.50	20.42	
25RB-High (25)		1910 (26640)	20.33	20.32	20.19	
		1882.5 (26365)	20.42	20.29	20.51	
		1855 (26090)	20.25	20.31	20.20	
25RB-Middle (12)		1910 (26640)	20.39	20.33	20.42	
		1882.5 (26365)	20.32	20.35	20.34	
		1855 (26090)	20.29	20.20	20.17	
25RB-Low (0)		1910 (26640)	20.28	20.34	20.42	
		1882.5 (26365)	20.38	20.41	20.51	
		1855 (26090)	20.31	20.35	20.25	
50RB (0)		1910 (26640)	20.26	20.49	20.32	
		1882.5 (26365)	20.41	20.37	20.49	
		1855 (26090)	20.08	20.23	20.07	

15MHz	1RB-High (74)	1907.5 (26615)	20.06	20.34	20.17	
		1882.5 (26365)	20.07	20.47	20.32	
		1857.5 (26115)	20.17	20.52	20.45	
	1RB-Middle (37)	1907.5 (26615)	20.35	20.47	20.32	
		1882.5 (26365)	20.35	20.50	20.45	
		1857.5 (26115)	20.24	20.35	20.35	
	1RB-Low (0)	1907.5 (26615)	20.19	20.36	20.34	
		1882.5 (26365)	20.19	20.53	20.46	
		1857.5 (26115)	20.11	20.36	20.21	
	36RB-High (38)	1907.5 (26615)	20.34	20.42	20.19	
		1882.5 (26365)	20.31	20.38	20.34	
		1857.5 (26115)	20.21	20.29	20.11	
	36RB-Middle (19)	1907.5 (26615)	20.37	20.26	20.31	
		1882.5 (26365)	20.31	20.33	20.43	
		1857.5 (26115)	20.18	20.37	20.20	
	36RB-Low (0)	1907.5 (26615)	20.29	20.55	20.36	
		1882.5 (26365)	20.35	20.31	20.44	
		1857.5 (26115)	20.26	20.18	20.22	
	75RB (0)	1907.5 (26615)	20.47	20.36	20.43	
		1882.5 (26365)	20.35	20.42	20.48	
		1857.5 (26115)	20.22	20.11	20.17	
	20MHz	1RB-High (99)	1905 (26590)	20.23	20.54	20.34
			1882.5 (26365)	20.26	20.62	20.39
			1860 (26140)	20.30	20.65	20.47
		1RB-Middle (50)	1905 (26590)	20.35	20.60	20.51
			1882.5 (26365)	20.38	20.53	20.58
			1860 (26140)	20.30	20.54	20.45
1RB-Low (0)		1905 (26590)	20.29	20.50	20.51	
		1882.5 (26365)	20.30	20.62	20.47	
		1860 (26140)	20.21	20.56	20.38	
50RB-High (50)		1905 (26590)	20.37	20.39	20.39	
		1882.5 (26365)	20.46	20.46	20.48	
		1860 (26140)	20.32	20.33	20.29	
50RB-Middle (25)		1905 (26590)	20.42	20.43	20.43	
		1882.5 (26365)	20.38	20.45	20.49	
		1860 (26140)	20.29	20.34	20.36	
50RB-Low (0)		1905 (26590)	20.48	20.54	20.54	
		1882.5 (26365)	20.49	20.51	20.48	
		1860 (26140)	20.37	20.31	20.26	
100RB (0)		1905 (26590)	20.46	20.45	20.45	
		1882.5 (26365)	20.47	20.45	20.46	
		1860 (26140)	20.26	20.28	20.25	

LTE B25 ANT2-Power Level C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	22.20	22.38	21.43
		1882.5 (26365)	22.27	22.55	21.38
		1850.7 (26047)	22.20	22.54	21.40
	1RB-Middle (3)	1914.3 (26683)	22.40	22.46	21.49
		1882.5 (26365)	22.37	22.54	21.40
		1850.7 (26047)	22.26	22.58	21.44
	1RB-Low (0)	1914.3 (26683)	22.33	22.49	21.49
		1882.5 (26365)	22.27	22.56	21.36
		1850.7 (26047)	22.18	22.55	21.33
	3RB-High (3)	1914.3 (26683)	22.38	21.36	20.28
		1882.5 (26365)	22.50	21.33	20.31
		1850.7 (26047)	22.28	21.22	20.29
	3RB-Middle (1)	1914.3 (26683)	22.35	21.42	20.36
		1882.5 (26365)	22.39	21.44	20.34
		1850.7 (26047)	22.29	21.20	20.28
	3RB-Low (0)	1914.3 (26683)	22.51	21.45	20.38
		1882.5 (26365)	22.46	21.33	20.34
		1850.7 (26047)	22.44	21.18	20.25
	6RB (0)	1914.3 (26683)	22.47	21.38	20.31
		1882.5 (26365)	22.36	21.28	20.37
		1850.7 (26047)	22.17	21.11	20.17
3MHz	1RB-High (14)	1913.5 (26675)	22.20	22.32	21.44
		1882.5 (26365)	22.26	22.50	21.36
		1851.5 (26055)	22.21	22.66	21.43
	1RB-Middle (7)	1913.5 (26675)	22.29	22.51	21.51
		1882.5 (26365)	22.38	22.64	21.40
		1851.5 (26055)	22.26	22.53	21.45
	1RB-Low (0)	1913.5 (26675)	22.31	22.44	21.43
		1882.5 (26365)	22.22	22.51	21.47
		1851.5 (26055)	22.17	22.53	21.35
	8RB-High (7)	1913.5 (26675)	22.28	21.27	20.38
		1882.5 (26365)	22.40	21.38	20.37
		1851.5 (26055)	22.21	21.30	20.27
	8RB-Middle (4)	1913.5 (26675)	22.33	21.43	20.42
		1882.5 (26365)	22.37	21.37	20.36
		1851.5 (26055)	22.35	21.31	20.30
	8RB-Low (0)	1913.5 (26675)	22.49	21.53	20.40
		1882.5 (26365)	22.53	21.44	20.41
		1851.5 (26055)	22.46	21.24	20.15
	15RB (0)	1913.5 (26675)	22.37	21.38	20.38
		1882.5 (26365)	22.48	21.42	20.25
		1851.5 (26055)	22.16	21.24	20.21

5MHz	1RB-High (24)	1912.5 (26665)	22.19	22.32	21.44	
		1882.5 (26365)	22.31	22.58	21.43	
		1852.5 (26065)	22.24	22.53	21.39	
	1RB-Middle (12)	1912.5 (26665)	22.39	22.54	21.48	
		1882.5 (26365)	22.46	22.67	21.48	
		1852.5 (26065)	22.31	22.55	21.45	
	1RB-Low (0)	1912.5 (26665)	22.19	22.41	21.43	
		1882.5 (26365)	22.26	22.52	21.33	
		1852.5 (26065)	22.22	22.54	21.36	
	12RB-High (13)	1912.5 (26665)	22.34	21.38	20.27	
		1882.5 (26365)	22.42	21.46	20.42	
		1852.5 (26065)	22.32	21.21	20.15	
	12RB-Middle (6)	1912.5 (26665)	22.39	21.36	20.29	
		1882.5 (26365)	22.46	21.37	20.40	
		1852.5 (26065)	22.27	21.34	20.32	
	12RB-Low (0)	1912.5 (26665)	22.47	21.46	20.46	
		1882.5 (26365)	22.47	21.43	20.38	
		1852.5 (26065)	22.46	21.28	20.22	
	25RB (0)	1912.5 (26665)	22.50	21.32	20.36	
		1882.5 (26365)	22.38	21.30	20.40	
		1852.5 (26065)	22.28	21.13	20.13	
	10MHz	1RB-High (49)	1910 (26640)	22.24	22.34	21.41
			1882.5 (26365)	22.30	22.64	21.34
			1855 (26090)	22.27	22.63	21.29
1RB-Middle (24)		1910 (26640)	22.27	22.50	21.51	
		1882.5 (26365)	22.45	22.60	21.41	
		1855 (26090)	22.38	22.52	21.51	
1RB-Low (0)		1910 (26640)	22.33	22.41	21.53	
		1882.5 (26365)	22.33	22.59	21.44	
		1855 (26090)	22.26	22.50	21.30	
25RB-High (25)		1910 (26640)	22.36	21.31	20.36	
		1882.5 (26365)	22.52	21.41	20.41	
		1855 (26090)	22.23	21.19	20.24	
25RB-Middle (12)		1910 (26640)	22.41	21.38	20.30	
		1882.5 (26365)	22.39	21.40	20.31	
		1855 (26090)	22.31	21.20	20.22	
25RB-Low (0)		1910 (26640)	22.45	21.49	20.43	
		1882.5 (26365)	22.54	21.37	20.43	
		1855 (26090)	22.38	21.30	20.14	
50RB (0)		1910 (26640)	22.43	21.38	20.40	
		1882.5 (26365)	22.39	21.41	20.37	
		1855 (26090)	22.17	21.18	20.20	

15MHz	1RB-High (74)	1907.5 (26615)	22.24	22.38	21.44
		1882.5 (26365)	22.26	22.57	21.38
		1857.5 (26115)	22.20	22.63	21.38
	1RB-Middle (37)	1907.5 (26615)	22.34	22.58	21.52
		1882.5 (26365)	22.32	22.65	21.45
		1857.5 (26115)	22.25	22.55	21.54
	1RB-Low (0)	1907.5 (26615)	22.28	22.39	21.45
		1882.5 (26365)	22.24	22.62	21.34
		1857.5 (26115)	22.24	22.52	21.35
	36RB-High (38)	1907.5 (26615)	22.32	21.39	20.40
		1882.5 (26365)	22.47	21.45	20.32
		1857.5 (26115)	22.34	21.23	20.17
	36RB-Middle (19)	1907.5 (26615)	22.39	21.47	20.29
		1882.5 (26365)	22.37	21.32	20.45
		1857.5 (26115)	22.38	21.29	20.20
	36RB-Low (0)	1907.5 (26615)	22.43	21.41	20.36
		1882.5 (26365)	22.42	21.43	20.34
		1857.5 (26115)	22.41	21.27	20.16
	75RB (0)	1907.5 (26615)	22.43	21.45	20.40
		1882.5 (26365)	22.38	21.33	20.32
		1857.5 (26115)	22.19	21.15	20.18
20MHz	1RB-High (99)	1905 (26590)	22.36	22.50	21.53
		1882.5 (26365)	22.40	22.70	21.52
		1860 (26140)	22.39	22.72	21.49
	1RB-Middle (50)	1905 (26590)	22.45	22.66	21.57
		1882.5 (26365)	22.52	22.72	21.58
		1860 (26140)	22.43	22.63	21.60
	1RB-Low (0)	1905 (26590)	22.39	22.58	21.58
		1882.5 (26365)	22.42	22.67	21.53
		1860 (26140)	22.31	22.60	21.48
	50RB-High (50)	1905 (26590)	22.46	21.45	20.45
		1882.5 (26365)	22.58	21.51	20.47
		1860 (26140)	22.39	21.37	20.34
	50RB-Middle (25)	1905 (26590)	22.48	21.52	20.47
		1882.5 (26365)	22.55	21.49	20.51
		1860 (26140)	22.47	21.39	20.37
	50RB-Low (0)	1905 (26590)	22.56	21.58	20.56
		1882.5 (26365)	22.59	21.52	20.51
		1860 (26140)	22.55	21.35	20.32
	100RB (0)	1905 (26590)	22.56	21.51	20.49
		1882.5 (26365)	22.56	21.47	20.45
		1860 (26140)	22.33	21.30	20.33

LTE B25 ANT1-Power Level B1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	23.92	22.84	21.84
		1882.5 (26365)	23.79	22.86	21.96
		1850.7 (26047)	23.85	22.89	21.80
	1RB-Middle (3)	1914.3 (26683)	23.91	23.00	22.16
		1882.5 (26365)	23.91	22.92	21.91
		1850.7 (26047)	23.83	22.90	21.96
	1RB-Low (0)	1914.3 (26683)	23.93	23.00	22.05
		1882.5 (26365)	23.89	22.73	21.73
		1850.7 (26047)	23.83	22.88	21.97
	3RB-High (3)	1914.3 (26683)	23.81	22.86	21.84
		1882.5 (26365)	23.81	22.74	21.82
		1850.7 (26047)	23.75	22.80	21.77
	3RB-Middle (1)	1914.3 (26683)	23.92	23.03	22.16
		1882.5 (26365)	23.91	23.04	22.00
		1850.7 (26047)	24.02	22.89	22.03
	3RB-Low (0)	1914.3 (26683)	23.90	22.90	21.99
		1882.5 (26365)	23.82	22.82	21.78
		1850.7 (26047)	23.78	22.92	22.04
	6RB (0)	1914.3 (26683)	22.80	21.78	20.85
		1882.5 (26365)	22.84	21.86	21.09
		1850.7 (26047)	22.84	21.77	20.83
3MHz	1RB-High (14)	1913.5 (26675)	23.88	22.84	21.98
		1882.5 (26365)	23.88	22.75	21.96
		1851.5 (26055)	23.90	22.72	21.73
	1RB-Middle (7)	1913.5 (26675)	24.06	22.88	22.05
		1882.5 (26365)	23.90	22.99	21.94
		1851.5 (26055)	23.90	22.97	21.89
	1RB-Low (0)	1913.5 (26675)	23.93	22.99	22.05
		1882.5 (26365)	23.88	22.69	21.80
		1851.5 (26055)	23.81	22.93	21.90
	8RB-High (7)	1913.5 (26675)	22.73	21.96	20.82
		1882.5 (26365)	22.71	21.81	20.74
		1851.5 (26055)	22.93	21.78	20.94
	8RB-Middle (4)	1913.5 (26675)	22.92	21.85	20.98
		1882.5 (26365)	23.08	22.09	21.01
		1851.5 (26055)	22.97	21.78	20.88
	8RB-Low (0)	1913.5 (26675)	22.93	20.96	20.05
		1882.5 (26365)	22.83	22.05	21.05
		1851.5 (26055)	22.78	21.93	21.06
	15RB (0)	1913.5 (26675)	22.72	21.81	20.93
		1882.5 (26365)	22.80	21.82	20.99
		1851.5 (26055)	22.92	21.79	20.81

5MHz	1RB-High (24)	1912.5 (26665)	23.79	22.89	21.98	
		1882.5 (26365)	23.78	22.75	21.89	
		1852.5 (26065)	23.92	22.82	21.72	
	1RB-Middle (12)	1912.5 (26665)	23.93	22.95	22.10	
		1882.5 (26365)	24.04	23.03	21.85	
		1852.5 (26065)	23.90	22.82	21.94	
	1RB-Low (0)	1912.5 (26665)	23.89	23.01	22.06	
		1882.5 (26365)	23.88	22.81	21.81	
		1852.5 (26065)	23.93	23.07	22.00	
	12RB-High (13)	1912.5 (26665)	22.74	21.80	20.81	
		1882.5 (26365)	22.79	21.70	20.68	
		1852.5 (26065)	22.92	21.93	20.97	
	12RB-Middle (6)	1912.5 (26665)	23.03	21.93	21.05	
		1882.5 (26365)	22.95	21.92	20.86	
		1852.5 (26065)	22.84	21.77	20.92	
	12RB-Low (0)	1912.5 (26665)	22.86	20.94	19.98	
		1882.5 (26365)	22.79	21.98	20.97	
		1852.5 (26065)	22.80	21.91	20.91	
	25RB (0)	1912.5 (26665)	22.83	21.86	20.97	
		1882.5 (26365)	22.83	21.97	21.04	
		1852.5 (26065)	22.86	21.93	20.72	
	10MHz	1RB-High (49)	1910 (26640)	23.95	22.95	21.91
			1882.5 (26365)	23.80	22.88	21.88
			1855 (26090)	23.82	22.85	21.68
1RB-Middle (24)		1910 (26640)	24.07	23.00	22.14	
		1882.5 (26365)	24.06	22.89	21.92	
		1855 (26090)	23.87	22.95	21.96	
1RB-Low (0)		1910 (26640)	23.89	22.99	22.08	
		1882.5 (26365)	23.86	22.68	21.82	
		1855 (26090)	23.78	22.99	22.05	
25RB-High (25)		1910 (26640)	22.84	21.95	20.84	
		1882.5 (26365)	22.80	21.71	20.82	
		1855 (26090)	22.90	21.77	21.04	
25RB-Middle (12)		1910 (26640)	22.96	21.89	20.91	
		1882.5 (26365)	22.95	22.00	21.04	
		1855 (26090)	22.86	21.84	21.04	
25RB-Low (0)		1910 (26640)	22.84	21.00	20.07	
		1882.5 (26365)	22.91	21.95	21.04	
		1855 (26090)	22.95	21.95	21.00	
50RB (0)		1910 (26640)	22.88	21.71	20.97	
		1882.5 (26365)	22.86	21.90	20.91	
		1855 (26090)	22.90	21.86	20.76	

15MHz	1RB-High (74)	1907.5 (26615)	23.77	22.82	21.96	
		1882.5 (26365)	23.85	22.88	21.78	
		1857.5 (26115)	23.75	22.78	21.83	
	1RB-Middle (37)	1907.5 (26615)	23.90	22.88	22.13	
		1882.5 (26365)	24.09	23.01	21.89	
		1857.5 (26115)	23.83	22.85	21.88	
	1RB-Low (0)	1907.5 (26615)	23.82	22.83	21.92	
		1882.5 (26365)	23.72	22.85	21.77	
		1857.5 (26115)	23.92	23.03	21.97	
	36RB-High (38)	1907.5 (26615)	22.87	21.92	20.90	
		1882.5 (26365)	22.74	21.85	20.87	
		1857.5 (26115)	22.81	21.96	20.99	
	36RB-Middle (19)	1907.5 (26615)	22.97	21.90	21.04	
		1882.5 (26365)	23.01	22.03	20.92	
		1857.5 (26115)	22.98	21.90	21.00	
	36RB-Low (0)	1907.5 (26615)	22.85	20.89	20.04	
		1882.5 (26365)	22.82	21.88	20.99	
		1857.5 (26115)	22.80	21.97	20.89	
	75RB (0)	1907.5 (26615)	22.87	21.80	20.85	
		1882.5 (26365)	22.82	21.97	21.08	
		1857.5 (26115)	22.78	21.95	20.73	
	20MHz	1RB-High (99)	1905 (26590)	23.91	22.94	21.95
			1882.5 (26365)	23.92	22.88	21.92
			1860 (26140)	23.88	22.86	21.82
		1RB-Middle (50)	1905 (26590)	24.03	23.03	22.11
			1882.5 (26365)	24.04	23.02	21.98
			1860 (26140)	23.98	22.97	21.99
1RB-Low (0)		1905 (26590)	23.95	22.96	22.06	
		1882.5 (26365)	23.86	22.82	21.84	
		1860 (26140)	23.93	23.02	22.00	
50RB-High (50)		1905 (26590)	22.86	21.92	20.89	
		1882.5 (26365)	22.85	21.85	20.83	
		1860 (26140)	22.95	21.92	21.01	
50RB-Middle (25)		1905 (26590)	22.99	21.94	21.05	
		1882.5 (26365)	23.03	22.05	21.01	
		1860 (26140)	22.96	21.92	20.99	
50RB-Low (0)		1905 (26590)	22.99	21.02	20.12	
		1882.5 (26365)	22.92	22.02	21.01	
		1860 (26140)	22.92	22.00	21.04	
100RB (0)		1905 (26590)	22.86	21.86	20.96	
		1882.5 (26365)	22.86	21.96	21.04	
		1860 (26140)	22.88	21.91	20.87	



LTE B25 ANT1-Power Level D1						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	
1.4MHz	1RB-High (5)	1914.3 (26683)	15.97	16.21	16.15	
		1882.5 (26365)	16.06	16.19	16.21	
		1850.7 (26047)	15.93	16.07	16.06	
	1RB-Middle (3)	1914.3 (26683)	16.21	16.29	16.27	
		1882.5 (26365)	16.16	16.19	16.16	
		1850.7 (26047)	15.92	16.02	16.04	
	1RB-Low (0)	1914.3 (26683)	16.09	16.12	16.06	
		1882.5 (26365)	15.86	16.09	15.93	
		1850.7 (26047)	15.91	16.09	16.03	
	3RB-High (3)	1914.3 (26683)	16.00	16.04	16.14	
		1882.5 (26365)	15.95	16.14	16.11	
		1850.7 (26047)	15.93	16.02	16.06	
	3RB-Middle (1)	1914.3 (26683)	15.98	16.11	16.06	
		1882.5 (26365)	16.03	16.11	16.15	
		1850.7 (26047)	15.95	16.10	15.94	
	3RB-Low (0)	1914.3 (26683)	16.05	16.29	16.25	
		1882.5 (26365)	15.98	16.07	16.08	
		1850.7 (26047)	15.84	16.17	16.05	
	6RB (0)	1914.3 (26683)	15.89	16.16	16.03	
		1882.5 (26365)	15.92	16.23	16.08	
		1850.7 (26047)	15.92	16.17	16.03	
	3MHz	1RB-High (14)	1913.5 (26675)	15.97	16.21	16.05
			1882.5 (26365)	16.12	16.20	16.03
			1851.5 (26055)	15.97	16.06	15.96
1RB-Middle (7)		1913.5 (26675)	16.19	16.30	16.21	
		1882.5 (26365)	16.08	16.20	16.12	
		1851.5 (26055)	16.02	16.22	16.07	
1RB-Low (0)		1913.5 (26675)	16.08	16.04	16.11	
		1882.5 (26365)	15.80	16.13	16.07	
		1851.5 (26055)	15.81	16.01	15.93	
8RB-High (7)		1913.5 (26675)	16.00	16.16	16.11	
		1882.5 (26365)	15.95	16.25	16.12	
		1851.5 (26055)	15.97	16.02	16.07	
8RB-Middle (4)		1913.5 (26675)	15.97	16.12	16.19	
		1882.5 (26365)	16.16	16.21	16.11	
		1851.5 (26055)	15.84	16.04	15.95	
8RB-Low (0)		1913.5 (26675)	15.99	16.15	16.18	
		1882.5 (26365)	15.98	16.22	15.98	
		1851.5 (26055)	15.91	15.99	16.10	
15RB (0)		1913.5 (26675)	15.96	16.19	16.08	
		1882.5 (26365)	16.02	16.06	16.04	
		1851.5 (26055)	15.97	16.01	16.05	

5MHz	1RB-High (24)	1912.5 (26665)	16.07	16.17	15.99	
		1882.5 (26365)	15.96	16.08	16.09	
		1852.5 (26065)	16.00	16.02	16.01	
	1RB-Middle (12)	1912.5 (26665)	16.09	16.24	16.29	
		1882.5 (26365)	16.06	16.33	16.11	
		1852.5 (26065)	16.07	16.08	16.15	
	1RB-Low (0)	1912.5 (26665)	15.97	16.16	16.16	
		1882.5 (26365)	15.98	15.97	16.08	
		1852.5 (26065)	15.87	16.02	15.94	
	12RB-High (13)	1912.5 (26665)	15.91	16.02	16.03	
		1882.5 (26365)	15.97	16.13	16.04	
		1852.5 (26065)	15.88	16.14	15.94	
	12RB-Middle (6)	1912.5 (26665)	16.03	16.11	16.11	
		1882.5 (26365)	16.09	16.15	16.12	
		1852.5 (26065)	15.96	16.04	16.08	
	12RB-Low (0)	1912.5 (26665)	15.98	16.30	16.21	
		1882.5 (26365)	16.01	16.10	16.01	
		1852.5 (26065)	15.89	16.11	16.06	
	25RB (0)	1912.5 (26665)	16.07	16.09	16.04	
		1882.5 (26365)	16.07	16.16	16.04	
		1852.5 (26065)	15.86	16.06	16.05	
	10MHz	1RB-High (49)	1910 (26640)	15.97	16.21	16.18
			1882.5 (26365)	15.96	16.13	16.19
			1855 (26090)	15.97	15.97	16.07
1RB-Middle (24)		1910 (26640)	16.08	16.25	16.25	
		1882.5 (26365)	16.14	16.19	16.21	
		1855 (26090)	15.91	16.21	16.09	
1RB-Low (0)		1910 (26640)	16.09	16.16	16.14	
		1882.5 (26365)	15.88	16.14	15.91	
		1855 (26090)	15.91	15.98	16.04	
25RB-High (25)		1910 (26640)	15.88	16.10	16.12	
		1882.5 (26365)	16.02	16.11	15.99	
		1855 (26090)	15.86	16.10	15.94	
25RB-Middle (12)		1910 (26640)	16.07	16.30	16.11	
		1882.5 (26365)	16.13	16.19	16.23	
		1855 (26090)	15.98	16.03	15.96	
25RB-Low (0)		1910 (26640)	16.16	16.27	16.07	
		1882.5 (26365)	16.04	16.22	16.08	
		1855 (26090)	15.99	16.03	15.96	
50RB (0)		1910 (26640)	15.97	16.19	16.14	
		1882.5 (26365)	16.03	16.05	16.08	
		1855 (26090)	15.84	16.09	16.12	

15MHz	1RB-High (74)	1907.5 (26615)	15.91	16.21	16.14	
		1882.5 (26365)	16.05	16.23	16.17	
		1857.5 (26115)	15.93	16.07	15.99	
	1RB-Middle (37)	1907.5 (26615)	16.08	16.16	16.14	
		1882.5 (26365)	16.10	16.19	16.23	
		1857.5 (26115)	16.02	16.12	15.96	
	1RB-Low (0)	1907.5 (26615)	15.91	16.09	16.10	
		1882.5 (26365)	15.86	16.00	15.99	
		1857.5 (26115)	15.94	15.94	16.04	
	36RB-High (38)	1907.5 (26615)	16.05	16.04	16.14	
		1882.5 (26365)	15.92	16.16	16.10	
		1857.5 (26115)	15.96	16.05	16.08	
	36RB-Middle (19)	1907.5 (26615)	16.12	16.31	16.14	
		1882.5 (26365)	16.12	16.22	16.13	
		1857.5 (26115)	15.91	16.01	16.11	
	36RB-Low (0)	1907.5 (26615)	16.17	16.19	16.13	
		1882.5 (26365)	15.90	16.19	16.14	
		1857.5 (26115)	15.87	15.98	15.92	
	75RB (0)	1907.5 (26615)	15.95	16.19	16.12	
		1882.5 (26365)	16.08	16.11	16.01	
		1857.5 (26115)	15.86	15.98	16.00	
	20MHz	1RB-High (99)	1905 (26590)	16.05	16.19	16.13
			1882.5 (26365)	16.08	16.22	16.16
			1860 (26140)	15.98	16.12	16.06
1RB-Middle (50)		1905 (26590)	16.17	16.31	16.25	
		1882.5 (26365)	16.18	16.31	16.25	
		1860 (26140)	16.03	16.17	16.11	
1RB-Low (0)		1905 (26590)	16.04	16.18	16.12	
		1882.5 (26365)	15.95	16.09	16.03	
		1860 (26140)	15.92	16.06	16.00	
50RB-High (50)		1905 (26590)	16.03	16.17	16.11	
		1882.5 (26365)	16.06	16.20	16.14	
		1860 (26140)	15.96	16.10	16.04	
50RB-Middle (25)		1905 (26590)	16.12	16.26	16.20	
		1882.5 (26365)	16.13	16.26	16.20	
		1860 (26140)	15.98	16.12	16.06	
50RB-Low (0)		1905 (26590)	16.12	16.26	16.20	
		1882.5 (26365)	16.03	16.17	16.11	
		1860 (26140)	15.98	16.12	16.06	
100RB (0)		1905 (26590)	16.02	16.16	16.10	
		1882.5 (26365)	16.04	16.18	16.12	
		1860 (26140)	15.99	16.13	16.07	

LTE B26-Power Level A1/C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3 (27033)	23.49	22.66	21.58
		831.5 (26865)	23.54	22.73	21.58
		814.7 (26697)	23.49	22.73	21.60
	1RB-Middle (3)	848.3 (27033)	23.48	22.68	21.58
		831.5 (26865)	23.53	22.75	21.65
		814.7 (26697)	23.51	22.68	21.59
	1RB-Low (0)	848.3 (27033)	23.50	22.67	21.62
		831.5 (26865)	23.53	22.77	21.58
		814.7 (26697)	23.50	22.76	21.52
	3RB-High (3)	848.3 (27033)	23.55	22.51	21.52
		831.5 (26865)	23.51	22.47	21.49
		814.7 (26697)	23.53	22.50	21.58
	3RB-Middle (1)	848.3 (27033)	23.51	22.53	21.55
		831.5 (26865)	23.55	22.49	21.59
		814.7 (26697)	23.52	22.54	21.56
	3RB-Low (0)	848.3 (27033)	23.51	22.55	21.56
		831.5 (26865)	23.53	22.55	21.61
		814.7 (26697)	23.55	22.58	21.61
	6RB (0)	848.3 (27033)	22.54	21.62	20.47
		831.5 (26865)	22.57	21.60	20.45
		814.7 (26697)	22.49	21.55	20.42
3MHz	1RB-High (14)	847.5 (27025)	23.51	22.74	21.58
		831.5 (26865)	23.54	22.69	21.59
		815.5 (26705)	23.54	22.68	21.60
	1RB-Middle (7)	847.5 (27025)	23.59	22.66	21.66
		831.5 (26865)	23.60	22.73	21.71
		815.5 (26705)	23.59	22.86	21.66
	1RB-Low (0)	847.5 (27025)	23.52	22.63	21.58
		831.5 (26865)	23.59	22.69	21.63
		815.5 (26705)	23.48	22.73	21.53
	8RB-High (7)	847.5 (27025)	22.52	21.48	20.46
		831.5 (26865)	22.56	21.56	20.49
		815.5 (26705)	22.52	21.57	20.49
	8RB-Middle (4)	847.5 (27025)	22.55	21.60	20.48
		831.5 (26865)	22.54	21.52	20.45
		815.5 (26705)	22.45	21.50	20.46
	8RB-Low (0)	847.5 (27025)	22.58	21.54	20.52
		831.5 (26865)	22.56	21.56	20.51
		815.5 (26705)	22.47	21.56	20.44
	15RB (0)	847.5 (27025)	22.52	21.48	20.43
		831.5 (26865)	22.57	21.51	20.43
		815.5 (26705)	22.47	21.45	20.44

5MHz	1RB-High (24)	846.5 (27015)	23.59	22.82	21.67	
		831.5 (26865)	23.58	22.68	21.66	
		816.5 (26715)	23.61	22.82	21.69	
	1RB-Middle (12)	846.5 (27015)	23.59	22.83	21.70	
		831.5 (26865)	23.65	22.85	21.74	
		816.5 (26715)	23.68	22.78	21.73	
	1RB-Low (0)	846.5 (27015)	23.54	22.80	21.69	
		831.5 (26865)	23.61	22.77	21.63	
		816.5 (26715)	23.58	22.73	21.67	
	12RB-High (13)	846.5 (27015)	22.52	21.49	20.47	
		831.5 (26865)	22.53	21.51	20.49	
		816.5 (26715)	22.61	21.58	20.56	
	12RB-Middle (6)	846.5 (27015)	22.52	21.48	20.49	
		831.5 (26865)	22.58	21.56	20.54	
		816.5 (26715)	22.57	21.55	20.54	
	12RB-Low (0)	846.5 (27015)	22.60	21.57	20.57	
		831.5 (26865)	22.62	21.61	20.57	
		816.5 (26715)	22.56	21.49	20.52	
	25RB (0)	846.5 (27015)	22.59	21.59	20.51	
		831.5 (26865)	22.60	21.60	20.54	
		816.5 (26715)	22.58	21.63	20.55	
	10MHz	1RB-High (49)	844 (26990)	23.59	22.74	21.52
			831.5 (26865)	23.56	22.81	21.70
			820 (26750)	23.61	22.73	21.67
1RB-Middle (24)		844 (26990)	23.63	22.76	21.64	
		831.5 (26865)	23.65	22.85	21.73	
		820 (26750)	23.67	22.76	21.67	
1RB-Low (0)		844 (26990)	23.59	22.72	21.60	
		831.5 (26865)	23.59	22.74	21.64	
		820 (26750)	23.66	22.79	21.73	
25RB-High (25)		844 (26990)	22.49	21.47	20.47	
		831.5 (26865)	22.55	21.58	20.51	
		820 (26750)	22.58	21.59	20.54	
25RB-Middle (12)		844 (26990)	22.60	21.56	20.50	
		831.5 (26865)	22.60	21.58	20.54	
		820 (26750)	22.54	21.62	20.53	
25RB-Low (0)		844 (26990)	22.64	21.66	20.63	
		831.5 (26865)	22.62	21.61	20.55	
		820 (26750)	22.57	21.57	20.56	
50RB (0)		844 (26990)	22.55	21.55	20.53	
		831.5 (26865)	22.63	21.59	20.56	
		820 (26750)	22.56	21.57	20.55	

15MHz	1RB-High (74)	841.5 (26965)	23.52	22.72	21.61
		831.5 (26865)	23.51	22.68	21.54
		822.5 (26775)	23.56	22.68	21.62
	1RB-Middle (37)	841.5 (26965)	23.58	22.72	21.65
		831.5 (26865)	23.58	22.72	21.69
		822.5 (26775)	23.61	22.75	21.70
	1RB-Low (0)	841.5 (26965)	23.57	22.80	21.55
		831.5 (26865)	23.64	22.69	21.66
		822.5 (26775)	23.62	22.76	21.64
	36RB-High (38)	841.5 (26965)	22.48	21.48	20.46
		831.5 (26865)	22.53	21.51	20.49
		822.5 (26775)	22.52	21.43	20.49
	36RB-Middle (19)	841.5 (26965)	22.60	21.54	20.49
		831.5 (26865)	22.57	21.56	20.51
		822.5 (26775)	22.58	21.50	20.53
	36RB-Low (0)	841.5 (26965)	22.58	21.54	20.52
		831.5 (26865)	22.61	21.58	20.58
		822.5 (26775)	22.57	21.55	20.49
	75RB (0)	841.5 (26965)	22.56	21.55	20.49
		831.5 (26865)	22.56	21.52	20.54
		822.5 (26775)	22.52	21.51	20.49

LTE B38-Power Level B1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2617.5 (38225)	20.67	20.76	20.44
		2595 (38000)	20.64	20.72	20.37
		2572.5 (37775)	20.56	20.58	20.17
	1RB-Middle (12)	2617.5 (38225)	20.85	20.83	20.42
		2595 (38000)	20.76	20.73	20.38
		2572.5 (37775)	20.71	20.74	20.35
	1RB-Low (0)	2617.5 (38225)	20.68	20.77	20.41
		2595 (38000)	20.75	20.63	20.23
		2572.5 (37775)	20.67	20.65	20.32
	12RB-High (13)	2617.5 (38225)	20.77	20.78	20.73
		2595 (38000)	20.74	20.81	20.70
		2572.5 (37775)	20.57	20.57	20.63
	12RB-Middle (6)	2617.5 (38225)	20.77	20.83	20.90
		2595 (38000)	20.71	20.67	20.79
		2572.5 (37775)	20.58	20.76	20.64
	12RB-Low (0)	2617.5 (38225)	20.87	20.88	20.86
		2595 (38000)	20.75	20.79	20.70
		2572.5 (37775)	20.78	20.86	20.83
	25RB (0)	2617.5 (38225)	20.70	20.87	20.86
		2595 (38000)	20.75	20.76	20.64
		2572.5 (37775)	20.72	20.76	20.70
10MHz	1RB-High (49)	2615 (38200)	20.66	20.79	20.31
		2595 (38000)	20.65	20.64	20.26
		2575 (37800)	20.51	20.51	20.18
	1RB-Middle (24)	2615 (38200)	20.86	20.77	20.43
		2595 (38000)	20.68	20.81	20.42
		2575 (37800)	20.62	20.76	20.25
	1RB-Low (0)	2615 (38200)	20.66	20.76	20.43
		2595 (38000)	20.71	20.77	20.36
		2575 (37800)	20.66	20.66	20.28
	25RB-High (25)	2615 (38200)	20.80	20.78	20.75
		2595 (38000)	20.69	20.72	20.74
		2575 (37800)	20.57	20.69	20.54
	25RB-Middle (12)	2615 (38200)	20.72	20.88	20.81
		2595 (38000)	20.68	20.69	20.71
		2575 (37800)	20.68	20.69	20.66
	25RB-Low (0)	2615 (38200)	20.86	20.83	20.84
		2595 (38000)	20.68	20.71	20.70
		2575 (37800)	20.71	20.72	20.71
	50RB (0)	2615 (38200)	20.79	20.77	20.89
		2595 (38000)	20.71	20.75	20.73
		2575 (37800)	20.76	20.67	20.71

15MHz	1RB-High (74)	2612.5 (38175)	20.76	20.81	20.39
		2595 (38000)	20.62	20.63	20.34
		2577.5 (37825)	20.61	20.59	20.14
	1RB-Middle (37)	2612.5 (38175)	20.84	20.75	20.43
		2595 (38000)	20.79	20.87	20.32
		2577.5 (37825)	20.68	20.76	20.29
	1RB-Low (0)	2612.5 (38175)	20.71	20.77	20.34
		2595 (38000)	20.67	20.63	20.29
		2577.5 (37825)	20.58	20.72	20.27
	36RB-High (38)	2612.5 (38175)	20.77	20.85	20.77
		2595 (38000)	20.73	20.79	20.64
		2577.5 (37825)	20.62	20.57	20.59
	36RB-Middle (19)	2612.5 (38175)	20.80	20.89	20.91
		2595 (38000)	20.74	20.70	20.68
		2577.5 (37825)	20.73	20.71	20.67
	36RB-Low (0)	2612.5 (38175)	20.81	20.86	20.90
		2595 (38000)	20.73	20.82	20.79
		2577.5 (37825)	20.73	20.81	20.78
	75RB (0)	2612.5 (38175)	20.80	20.84	20.90
		2595 (38000)	20.66	20.67	20.79
		2577.5 (37825)	20.63	20.69	20.65
20MHz	1RB-High (99)	2610 (38150)	20.77	20.81	20.44
		2595 (38000)	20.68	20.75	20.37
		2580 (37850)	20.64	20.66	20.28
	1RB-Middle (50)	2610 (38150)	20.86	20.90	20.54
		2595 (38000)	20.80	20.87	20.47
		2580 (37850)	20.75	20.76	20.37
	1RB-Low (0)	2610 (38150)	20.81	20.87	20.48
		2595 (38000)	20.81	20.78	20.38
		2580 (37850)	20.73	20.80	20.40
	50RB-High (50)	2610 (38150)	20.82	20.87	20.85
		2595 (38000)	20.74	20.81	20.78
		2580 (37850)	20.62	20.72	20.69
	50RB-Middle (25)	2610 (38150)	20.87	20.92	20.92
		2595 (38000)	20.77	20.82	20.81
		2580 (37850)	20.73	20.80	20.79
	50RB-Low (0)	2610 (38150)	20.89	20.95	20.93
		2595 (38000)	20.81	20.85	20.85
		2580 (37850)	20.78	20.86	20.85
	100RB (0)	2610 (38150)	20.85	20.90	20.90
		2595 (38000)	20.76	20.81	20.79
		2580 (37850)	20.76	20.78	20.77



LTE B38-Power Level D1						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	
5MHz	1RB-High (24)	2617.5 (38225)	22.76	22.81	21.47	
		2595 (38000)	22.62	22.76	21.29	
		2572.5 (37775)	22.52	22.68	21.23	
	1RB-Middle (12)	2617.5 (38225)	22.76	22.83	21.53	
		2595 (38000)	22.78	22.82	21.40	
		2572.5 (37775)	22.75	22.72	21.25	
	1RB-Low (0)	2617.5 (38225)	22.72	22.81	21.37	
		2595 (38000)	22.73	22.78	21.34	
		2572.5 (37775)	22.76	22.71	21.30	
	12RB-High (13)	2617.5 (38225)	22.79	21.85	20.78	
		2595 (38000)	22.67	21.72	20.70	
		2572.5 (37775)	22.61	21.66	20.66	
	12RB-Middle (6)	2617.5 (38225)	22.84	21.82	20.76	
		2595 (38000)	22.72	21.82	20.74	
		2572.5 (37775)	22.72	21.80	20.65	
	12RB-Low (0)	2617.5 (38225)	22.82	21.92	20.88	
		2595 (38000)	22.84	21.81	20.78	
		2572.5 (37775)	22.76	21.77	20.73	
	25RB (0)	2617.5 (38225)	22.87	21.76	20.89	
		2595 (38000)	22.71	21.69	20.68	
		2572.5 (37775)	22.76	21.70	20.65	
	10MHz	1RB-High (49)	2615 (38200)	22.69	22.71	21.39
			2595 (38000)	22.66	22.78	21.28
			2575 (37800)	22.54	22.63	21.27
1RB-Middle (24)		2615 (38200)	22.90	22.83	21.41	
		2595 (38000)	22.79	22.78	21.41	
		2575 (37800)	22.75	22.79	21.39	
1RB-Low (0)		2615 (38200)	22.81	22.80	21.50	
		2595 (38000)	22.62	22.68	21.27	
		2575 (37800)	22.77	22.80	21.33	
25RB-High (25)		2615 (38200)	22.82	21.82	20.80	
		2595 (38000)	22.70	21.77	20.63	
		2575 (37800)	22.71	21.65	20.58	
25RB-Middle (12)		2615 (38200)	22.92	21.90	20.89	
		2595 (38000)	22.66	21.82	20.67	
		2575 (37800)	22.79	21.72	20.77	
25RB-Low (0)		2615 (38200)	22.82	21.84	20.83	
		2595 (38000)	22.71	21.85	20.75	
		2575 (37800)	22.87	21.74	20.70	
50RB (0)		2615 (38200)	22.77	21.76	20.85	
		2595 (38000)	22.69	21.83	20.78	
		2575 (37800)	22.73	21.75	20.70	

15MHz	1RB-High (74)	2612.5 (38175)	22.64	22.83	21.46
		2595 (38000)	22.63	22.75	21.38
		2577.5 (37825)	22.51	22.68	21.31
	1RB-Middle (37)	2612.5 (38175)	22.75	22.89	21.55
		2595 (38000)	22.75	22.76	21.45
		2577.5 (37825)	22.70	22.75	21.36
	1RB-Low (0)	2612.5 (38175)	22.84	22.78	21.47
		2595 (38000)	22.62	22.75	21.29
		2577.5 (37825)	22.63	22.74	21.39
	36RB-High (38)	2612.5 (38175)	22.76	21.86	20.76
		2595 (38000)	22.74	21.69	20.76
		2577.5 (37825)	22.64	21.76	20.64
	36RB-Middle (19)	2612.5 (38175)	22.81	21.86	20.89
		2595 (38000)	22.77	21.78	20.79
		2577.5 (37825)	22.75	21.83	20.74
	36RB-Low (0)	2612.5 (38175)	22.87	21.87	20.80
		2595 (38000)	22.84	21.85	20.79
		2577.5 (37825)	22.82	21.79	20.75
	75RB (0)	2612.5 (38175)	22.74	21.80	20.82
		2595 (38000)	22.69	21.82	20.71
		2577.5 (37825)	22.64	21.69	20.76
20MHz	1RB-High (99)	2610 (38150)	22.79	22.85	21.47
		2595 (38000)	22.72	22.78	21.38
		2580 (37850)	22.65	22.70	21.31
	1RB-Middle (50)	2610 (38150)	22.90	22.96	21.55
		2595 (38000)	22.85	22.88	21.46
		2580 (37850)	22.78	22.79	21.39
	1RB-Low (0)	2610 (38150)	22.84	22.92	21.50
		2595 (38000)	22.77	22.80	21.41
		2580 (37850)	22.78	22.82	21.42
	50RB-High (50)	2610 (38150)	22.85	21.92	20.87
		2595 (38000)	22.79	21.83	20.78
		2580 (37850)	22.73	21.76	20.70
	50RB-Middle (25)	2610 (38150)	22.92	21.95	20.91
		2595 (38000)	22.81	21.84	20.81
		2580 (37850)	22.81	21.83	20.79
	50RB-Low (0)	2610 (38150)	22.93	21.98	20.94
		2595 (38000)	22.86	21.89	20.85
		2580 (37850)	22.87	21.89	20.85
	100RB (0)	2610 (38150)	22.88	21.91	20.89
		2595 (38000)	22.81	21.83	20.79
		2580 (37850)	22.79	21.81	20.78

LTE B41 PC3-Power Level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5 (41565)	23.07	23.12	21.75
		2640.3(41093)	22.81	22.81	21.52
		2593 (40620)	22.91	22.93	21.52
		2545.8(40148)	22.74	22.86	21.30
		2498.5 (39675)	22.53	22.53	21.19
	1RB-Middle (12)	2687.5 (41565)	23.28	23.29	21.79
		2640.3(41093)	23.09	22.87	21.41
		2593 (40620)	23.11	23.19	21.87
		2545.8(40148)	22.79	22.77	21.46
		2498.5 (39675)	22.84	22.74	21.40
	1RB-Low (0)	2687.5 (41565)	23.03	23.12	21.59
		2640.3(41093)	23.04	23.02	21.65
		2593 (40620)	23.08	23.20	21.69
		2545.8(40148)	22.44	22.36	21.19
		2498.5 (39675)	22.66	22.60	21.60
	12RB-High (13)	2687.5 (41565)	23.07	22.18	21.12
		2640.3(41093)	22.90	21.78	20.81
		2593 (40620)	23.08	21.95	21.10
		2545.8(40148)	22.77	21.76	20.74
		2498.5 (39675)	22.72	21.87	20.83
	12RB-Middle (6)	2687.5 (41565)	23.19	22.24	21.04
		2640.3(41093)	22.86	21.82	20.76
		2593 (40620)	23.08	22.09	20.98
		2545.8(40148)	22.85	21.76	20.66
		2498.5 (39675)	22.75	21.92	20.95
	12RB-Low (0)	2687.5 (41565)	23.09	22.15	21.25
		2640.3(41093)	23.09	21.97	21.02
		2593 (40620)	23.32	22.17	21.11
2545.8(40148)		22.62	21.71	20.84	
2498.5 (39675)		22.84	21.98	20.84	
25RB (0)	2687.5 (41565)	23.04	22.18	21.02	
	2640.3(41093)	23.02	22.01	20.71	
	2593 (40620)	23.10	22.15	20.97	
	2545.8(40148)	22.64	21.85	20.58	
	2498.5 (39675)	22.83	21.76	20.69	

10MHz	1RB-High (49)	2685 (41540)	23.15	23.10	21.67
		2639(41080)	22.94	22.89	21.41
		2593 (40620)	23.06	23.04	21.52
		2547(40160)	22.72	22.70	21.21
		2501 (39700)	22.56	22.68	21.42
	1RB-Middle (24)	2685 (41540)	23.29	23.22	21.64
		2639(41080)	22.99	23.04	21.54
		2593 (40620)	23.26	23.21	21.68
		2547(40160)	22.85	22.66	21.28
		2501 (39700)	22.79	22.66	21.50
	1RB-Low (0)	2685 (41540)	23.05	23.05	21.66
		2639(41080)	22.92	22.84	21.61
		2593 (40620)	23.03	22.97	21.67
		2547(40160)	22.45	22.41	21.16
		2501 (39700)	22.59	22.60	21.59
	25RB-High (25)	2685 (41540)	23.10	21.98	20.92
		2639(41080)	22.86	21.81	20.82
		2593 (40620)	22.95	22.01	21.11
		2547(40160)	22.66	21.73	20.82
		2501 (39700)	22.61	21.98	20.70
	25RB-Middle (12)	2685 (41540)	23.25	22.22	21.08
		2639(41080)	22.87	21.81	20.98
		2593 (40620)	23.27	22.09	21.12
		2547(40160)	22.83	21.79	20.65
		2501 (39700)	22.86	21.85	20.98
25RB-Low (0)	2685 (41540)	23.26	22.29	21.11	
	2639(41080)	22.87	21.89	20.86	
	2593 (40620)	23.31	22.30	21.14	
	2547(40160)	22.65	21.76	20.66	
	2501 (39700)	22.82	21.87	20.95	
50RB (0)	2685 (41540)	23.26	22.02	21.13	
	2639(41080)	22.87	21.95	20.71	
	2593 (40620)	23.26	22.09	21.19	
	2547(40160)	22.60	21.85	20.62	
	2501 (39700)	22.74	21.96	20.87	

15MHz	1RB-High (74)	2682.5 (41515)	23.06	23.11	21.78
		2637.8(41068)	22.81	22.87	21.44
		2593 (40620)	23.02	22.94	21.52
		2548.3(40173)	22.75	22.87	21.34
		2503.5 (39725)	22.51	22.53	21.30
	1RB-Middle (37)	2682.5 (41515)	23.25	23.10	21.65
		2637.8(41068)	22.94	22.93	21.66
		2593 (40620)	23.13	23.15	21.69
		2548.3(40173)	22.73	22.76	21.34
		2503.5 (39725)	22.84	22.86	21.62
	1RB-Low (0)	2682.5 (41515)	23.19	23.13	21.71
		2637.8(41068)	22.91	22.98	21.66
		2593 (40620)	23.14	23.13	21.65
		2548.3(40173)	22.44	22.40	21.21
		2503.5 (39725)	22.74	22.68	21.58
	36RB-High (38)	2682.5 (41515)	23.05	22.19	21.13
		2637.8(41068)	22.87	21.91	20.94
		2593 (40620)	23.05	22.02	20.96
		2548.3(40173)	22.77	21.75	20.63
		2503.5 (39725)	22.71	21.96	20.77
	36RB-Middle (19)	2682.5 (41515)	23.08	22.20	21.07
		2637.8(41068)	22.88	21.98	20.74
		2593 (40620)	23.25	22.18	20.98
		2548.3(40173)	22.65	21.74	20.75
		2503.5 (39725)	22.70	22.01	20.87
36RB-Low (0)	2682.5 (41515)	23.27	22.22	21.15	
	2637.8(41068)	22.99	22.01	20.94	
	2593 (40620)	23.14	22.30	21.05	
	2548.3(40173)	22.69	21.71	20.74	
	2503.5 (39725)	22.76	22.02	20.85	
75RB (0)	2682.5 (41515)	23.15	22.23	21.17	
	2637.8(41068)	22.98	21.96	20.91	
	2593 (40620)	23.20	22.20	21.14	
	2548.3(40173)	22.74	21.77	20.76	
	2503.5 (39725)	22.70	21.80	20.92	

20MHz	1RB-High (99)	2680 (41490)	23.19	23.19	21.77
		2636.5(41055)	22.95	22.93	21.51
		2593 (40620)	23.09	23.08	21.67
		2549.5(40185)	22.80	22.84	21.41
		2506 (39750)	22.60	22.65	21.39
	1RB-Middle (50)	2680 (41490)	23.28	23.27	21.83
		2636.5(41055)	23.04	23.03	21.61
		2593 (40620)	23.29	23.26	21.83
		2549.5(40185)	22.84	22.85	21.41
		2506 (39750)	22.83	22.86	21.57
	1RB-Low (0)	2680 (41490)	23.17	23.16	21.77
		2636.5(41055)	23.06	23.01	21.61
		2593 (40620)	23.17	23.17	21.77
		2549.5(40185)	22.50	22.54	21.30
		2506 (39750)	22.77	22.79	21.58
	50RB-High (50)	2680 (41490)	23.18	22.15	21.11
		2636.5(41055)	22.95	21.97	20.92
		2593 (40620)	23.14	22.14	21.10
		2549.5(40185)	22.83	21.82	20.77
		2506 (39750)	22.77	21.95	20.88
	50RB-Middle (25)	2680 (41490)	23.26	22.24	21.21
		2636.5(41055)	23.02	21.97	20.93
		2593 (40620)	23.23	22.18	21.17
		2549.5(40185)	22.85	21.81	20.78
		2506 (39750)	22.83	21.98	20.95
	50RB-Low (0)	2680 (41490)	23.26	22.26	21.22
		2636.5(41055)	23.04	22.05	20.97
		2593 (40620)	23.27	22.26	21.21
		2549.5(40185)	22.68	21.84	20.79
		2506 (39750)	22.89	22.03	20.99
100RB (0)	2680 (41490)	23.24	22.21	21.14	
	2636.5(41055)	22.97	21.97	20.88	
	2593 (40620)	23.21	22.18	21.15	
	2549.5(40185)	22.69	21.84	20.78	
	2506 (39750)	22.83	21.96	20.88	

LTE B41 PC3-Power Level C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5 (41565)	23.86	23.05	21.64
		2640.3(41093)	23.56	22.73	21.33
		2593 (40620)	23.87	23.01	21.59
		2545.8(40148)	23.35	22.56	21.12
		2498.5 (39675)	23.66	22.89	21.45
	1RB-Middle (12)	2687.5 (41565)	23.92	23.01	21.66
		2640.3(41093)	23.60	22.71	21.35
		2593 (40620)	23.91	22.99	21.62
		2545.8(40148)	23.39	22.52	21.10
		2498.5 (39675)	23.76	22.89	21.49
	1RB-Low (0)	2687.5 (41565)	23.85	23.00	21.64
		2640.3(41093)	23.60	22.74	21.37
		2593 (40620)	23.85	23.00	21.60
		2545.8(40148)	23.36	22.53	21.14
		2498.5 (39675)	23.74	22.92	21.49
	12RB-High (13)	2687.5 (41565)	22.92	21.85	20.97
		2640.3(41093)	22.65	21.56	20.67
		2593 (40620)	22.85	21.80	20.90
		2545.8(40148)	22.41	21.35	20.46
		2498.5 (39675)	22.80	21.70	20.81
	12RB-Middle (6)	2687.5 (41565)	22.94	21.89	20.99
		2640.3(41093)	22.63	21.59	20.66
		2593 (40620)	22.88	21.86	20.93
		2545.8(40148)	22.43	21.39	20.42
		2498.5 (39675)	22.80	21.75	20.81
	12RB-Low (0)	2687.5 (41565)	22.96	21.92	21.00
		2640.3(41093)	22.64	21.60	20.67
		2593 (40620)	22.93	21.90	20.97
2545.8(40148)		22.51	21.43	20.48	
2498.5 (39675)		22.83	21.74	20.81	
25RB (0)	2687.5 (41565)	22.99	21.99	21.00	
	2640.3(41093)	22.67	21.64	20.71	
	2593 (40620)	22.91	21.95	20.93	
	2545.8(40148)	22.49	21.51	20.50	
	2498.5 (39675)	22.86	21.82	20.85	

10MHz	1RB-High (49)	2685 (41540)	23.82	22.97	21.56
		2639(41080)	23.49	22.61	21.23
		2593 (40620)	23.80	22.93	21.55
		2547(40160)	23.34	22.51	21.09
		2501 (39700)	23.59	22.79	21.35
	1RB-Middle (24)	2685 (41540)	23.79	22.97	21.58
		2639(41080)	23.56	22.69	21.30
		2593 (40620)	23.83	22.98	21.56
		2547(40160)	23.35	22.52	21.10
		2501 (39700)	23.62	22.83	21.40
	1RB-Low (0)	2685 (41540)	23.80	22.97	21.56
		2639(41080)	23.63	22.73	21.31
		2593 (40620)	23.85	22.96	21.57
		2547(40160)	23.32	22.49	21.06
		2501 (39700)	23.66	22.85	21.43
	25RB-High (25)	2685 (41540)	22.92	21.88	20.92
		2639(41080)	22.65	21.63	20.62
		2593 (40620)	22.87	21.87	20.86
		2547(40160)	22.48	21.44	20.45
		2501 (39700)	22.76	21.76	20.74
	25RB-Middle (12)	2685 (41540)	22.91	21.92	20.93
		2639(41080)	22.63	21.62	20.63
		2593 (40620)	22.88	21.86	20.90
		2547(40160)	22.45	21.43	20.48
		2501 (39700)	22.80	21.80	20.77
25RB-Low (0)	2685 (41540)	22.97	21.96	20.93	
	2639(41080)	22.64	21.66	20.66	
	2593 (40620)	22.96	21.95	20.97	
	2547(40160)	22.49	21.50	20.47	
	2501 (39700)	22.78	21.74	20.76	
50RB (0)	2685 (41540)	22.94	21.97	20.92	
	2639(41080)	22.64	21.65	20.63	
	2593 (40620)	22.97	21.98	20.92	
	2547(40160)	22.45	21.49	20.41	
	2501 (39700)	22.78	21.79	20.74	



15MHz	1RB-High (74)	2682.5 (41515)	23.77	22.95	21.55
		2637.8(41068)	23.49	22.65	21.21
		2593 (40620)	23.75	22.90	21.49
		2548.3(40173)	23.31	22.55	21.10
		2503.5 (39725)	23.44	22.68	21.21
	1RB-Middle (37)	2682.5 (41515)	23.82	22.98	21.61
		2637.8(41068)	23.57	22.70	21.31
		2593 (40620)	23.82	22.99	21.57
		2548.3(40173)	23.34	22.55	21.11
		2503.5 (39725)	23.62	22.84	21.37
	1RB-Low (0)	2682.5 (41515)	23.70	22.90	21.50
		2637.8(41068)	23.57	22.72	21.32
		2593 (40620)	23.77	22.94	21.54
		2548.3(40173)	23.27	22.46	21.04
		2503.5 (39725)	23.61	22.86	21.37
	36RB-High (38)	2682.5 (41515)	22.87	21.84	20.82
		2637.8(41068)	22.60	21.55	20.53
		2593 (40620)	22.84	21.81	20.80
		2548.3(40173)	22.45	21.36	20.39
		2503.5 (39725)	22.71	21.64	20.61
	36RB-Middle (19)	2682.5 (41515)	22.90	21.85	20.82
		2637.8(41068)	22.70	21.61	20.58
		2593 (40620)	22.90	21.79	20.80
		2548.3(40173)	22.42	21.40	20.40
		2503.5 (39725)	22.70	21.67	20.66
	36RB-Low (0)	2682.5 (41515)	22.91	21.86	20.91
		2637.8(41068)	22.65	21.65	20.63
		2593 (40620)	22.96	21.88	20.88
		2548.3(40173)	22.47	21.45	20.40
		2503.5 (39725)	22.78	21.74	20.70
75RB (0)	2682.5 (41515)	22.93	21.87	20.84	
	2637.8(41068)	22.67	21.68	20.61	
	2593 (40620)	22.95	21.90	20.90	
	2548.3(40173)	22.47	21.48	20.38	
	2503.5 (39725)	22.72	21.72	20.65	

20MHz	1RB-High (99)	2680 (41490)	23.89	23.04	21.64
		2636.5(41055)	23.58	22.73	21.32
		2593 (40620)	23.79	22.92	21.54
		2549.5(40185)	23.52	22.69	21.30
		2506 (39750)	23.49	22.72	21.25
	1RB-Middle (50)	2680 (41490)	23.92	23.10	21.68
		2636.5(41055)	23.68	22.84	21.42
		2593 (40620)	23.95	23.11	21.69
		2549.5(40185)	23.47	22.66	21.22
		2506 (39750)	23.75	22.94	21.47
	1RB-Low (0)	2680 (41490)	23.81	22.98	21.58
		2636.5(41055)	23.70	22.83	21.43
		2593 (40620)	23.86	23.05	21.62
		2549.5(40185)	23.38	22.54	21.15
		2506 (39750)	23.75	22.96	21.48
	50RB-High (50)	2680 (41490)	23.04	22.05	20.97
		2636.5(41055)	22.81	21.79	20.73
		2593 (40620)	22.96	22.02	20.96
		2549.5(40185)	22.64	21.64	20.61
		2506 (39750)	22.81	21.84	20.77
	50RB-Middle (25)	2680 (41490)	23.05	22.06	21.00
		2636.5(41055)	22.78	21.81	20.76
		2593 (40620)	23.12	22.09	21.07
		2549.5(40185)	22.66	21.67	20.64
		2506 (39750)	22.90	21.88	20.79
	50RB-Low (0)	2680 (41490)	23.03	22.05	21.01
		2636.5(41055)	22.88	21.87	20.83
		2593 (40620)	23.13	22.12	21.06
		2549.5(40185)	22.61	21.63	20.56
		2506 (39750)	22.95	21.95	20.87
100RB (0)	2680 (41490)	22.98	21.99	20.92	
	2636.5(41055)	22.80	21.83	20.78	
	2593 (40620)	23.05	22.03	21.00	
	2549.5(40185)	22.62	21.63	20.46	
	2506 (39750)	22.83	21.85	20.80	

LTE B48-Power Level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	3697.5(56715)	21.07	21.03	21.12
		3625(55990)	21.23	21.21	21.09
		3552.5(55265)	20.85	21.00	21.05
	1RB-Middle (12)	3697.5(56715)	21.27	21.11	21.30
		3625(55990)	21.28	21.38	21.09
		3552.5(55265)	21.08	21.23	21.03
	1RB-Low (0)	3697.5(56715)	21.10	21.25	20.90
		3625(55990)	21.22	21.25	20.82
		3552.5(55265)	21.23	21.08	21.05
	12RB-High (13)	3697.5(56715)	21.09	21.12	20.95
		3625(55990)	21.29	20.93	21.09
		3552.5(55265)	21.00	20.94	20.85
	12RB-Middle (6)	3697.5(56715)	21.24	21.06	21.23
		3625(55990)	21.30	21.07	21.02
		3552.5(55265)	21.36	20.73	20.96
	12RB-Low (0)	3697.5(56715)	21.17	21.00	20.97
		3625(55990)	21.17	20.84	20.90
		3552.5(55265)	21.23	20.92	20.91
	25RB (0)	3697.5(56715)	21.27	20.94	20.97
		3625(55990)	21.17	21.00	21.00
		3552.5(55265)	21.24	20.75	20.88
10MHz	1RB-High (49)	3695(56690)	21.23	21.20	21.07
		3625(55990)	21.29	21.10	21.07
		3555(55290)	21.06	21.11	21.03
	1RB-Middle (24)	3695(56690)	21.35	21.23	21.25
		3625(55990)	21.43	21.25	21.02
		3555(55290)	21.13	21.15	20.88
	1RB-Low (0)	3695(56690)	21.15	21.05	21.08
		3625(55990)	21.25	21.14	20.81
		3555(55290)	21.18	21.10	20.90
	25RB-High (25)	3695(56690)	21.22	21.04	21.09
		3625(55990)	21.21	20.89	21.12
		3555(55290)	21.18	20.82	20.80
	25RB-Middle (12)	3695(56690)	21.34	21.15	21.18
		3625(55990)	21.43	20.91	20.94
		3555(55290)	21.15	20.95	20.76
	25RB-Low (0)	3695(56690)	21.27	21.13	21.17
		3625(55990)	21.23	21.02	20.95
		3555(55290)	21.12	20.81	20.85
	50RB (0)	3695(56690)	21.37	21.16	21.02
		3625(55990)	21.40	20.95	20.96
		3555(55290)	21.11	20.80	20.77

15MHz	1RB-High (74)	3692.5(56665)	21.24	21.19	21.11
		3625(55990)	21.19	21.18	21.19
		3557.5(55315)	20.92	21.05	20.95
	1RB-Middle (37)	3692.5(56665)	21.21	21.23	21.21
		3625(55990)	21.31	21.33	21.15
		3557.5(55315)	21.11	21.30	20.92
	1RB-Low (0)	3692.5(56665)	21.28	21.18	21.14
		3625(55990)	21.18	21.14	20.82
		3557.5(55315)	21.08	21.00	21.04
	36RB-High (38)	3692.5(56665)	21.16	21.02	20.91
		3625(55990)	21.31	21.00	21.04
		3557.5(55315)	21.06	20.95	20.96
	36RB-Middle (19)	3692.5(56665)	21.38	21.15	21.04
		3625(55990)	21.32	20.86	21.07
		3557.5(55315)	21.23	20.81	20.90
	36RB-Low (0)	3692.5(56665)	21.19	21.04	21.07
		3625(55990)	21.17	20.89	20.89
		3557.5(55315)	21.25	20.80	20.95
	75RB (0)	3692.5(56665)	21.31	20.97	21.07
		3625(55990)	21.18	20.88	21.08
		3557.5(55315)	21.24	20.82	20.83
20MHz	1RB-High (99)	3690(56640)	21.19	21.17	21.19
		3625(55990)	21.29	21.16	21.17
		3560(55340)	21.01	21.11	21.04
	1RB-Middle (50)	3690(56640)	21.45	21.31	21.27
		3625(55990)	21.43	21.36	21.19
		3560(55340)	21.23	21.25	21.02
	1RB-Low (0)	3690(56640)	21.23	21.23	21.09
		3625(55990)	21.31	21.20	21.00
		3560(55340)	21.27	21.20	21.08
	50RB-High (50)	3690(56640)	21.25	21.10	21.10
		3625(55990)	21.35	21.06	21.09
		3560(55340)	21.13	20.94	20.98
	50RB-Middle (25)	3690(56640)	21.41	21.20	21.21
		3625(55990)	21.38	21.04	21.06
		3560(55340)	21.32	20.90	20.94
	50RB-Low (0)	3690(56640)	21.31	21.18	21.14
		3625(55990)	21.35	21.01	21.02
		3560(55340)	21.22	20.87	20.90
	100RB (0)	3690(56640)	21.36	21.13	21.10
		3625(55990)	21.35	20.99	21.03
		3560(55340)	21.20	20.89	20.87

LTE B48-Power Level C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	3697.5(56715)	20.26	20.26	19.98
		3625(55990)	20.18	20.18	19.85
		3552.5(55265)	19.89	19.88	19.41
	1RB-Middle (12)	3697.5(56715)	20.35	20.25	19.77
		3625(55990)	20.38	20.40	19.98
		3552.5(55265)	19.96	19.98	19.72
	1RB-Low (0)	3697.5(56715)	20.04	20.01	19.65
		3625(55990)	20.16	20.17	19.88
		3552.5(55265)	20.19	20.10	19.67
	12RB-High (13)	3697.5(56715)	20.18	20.22	20.28
		3625(55990)	20.25	20.35	20.15
		3552.5(55265)	19.82	20.10	19.96
	12RB-Middle (6)	3697.5(56715)	20.27	20.33	20.20
		3625(55990)	20.42	20.19	20.31
		3552.5(55265)	20.03	20.11	20.04
	12RB-Low (0)	3697.5(56715)	20.21	20.21	20.19
		3625(55990)	20.15	20.32	20.09
		3552.5(55265)	20.14	20.01	20.03
	25RB (0)	3697.5(56715)	20.34	20.28	20.26
		3625(55990)	20.30	20.25	20.21
		3552.5(55265)	20.04	19.95	20.12
10MHz	1RB-High (49)	3695(56690)	20.12	20.37	19.91
		3625(55990)	20.26	20.13	19.84
		3555(55290)	19.81	19.86	19.36
	1RB-Middle (24)	3695(56690)	20.26	20.23	19.88
		3625(55990)	20.40	20.33	19.96
		3555(55290)	20.08	19.92	19.64
	1RB-Low (0)	3695(56690)	19.97	20.09	19.84
		3625(55990)	20.26	20.23	19.88
		3555(55290)	20.00	20.06	19.76
	25RB-High (25)	3695(56690)	20.21	20.33	20.29
		3625(55990)	20.28	20.19	20.33
		3555(55290)	19.96	19.86	20.04
	25RB-Middle (12)	3695(56690)	20.35	20.24	20.29
		3625(55990)	20.31	20.25	20.27
		3555(55290)	20.06	20.14	19.95
	25RB-Low (0)	3695(56690)	20.21	20.32	20.24
		3625(55990)	20.35	20.14	20.13
		3555(55290)	20.14	19.98	20.15
	50RB (0)	3695(56690)	20.14	20.24	20.35
		3625(55990)	20.33	20.30	20.15
		3555(55290)	19.90	20.08	19.90

15MHz	1RB-High (74)	3692.5(56665)	20.27	20.15	19.98	
		3625(55990)	20.21	20.13	19.74	
		3557.5(55315)	19.82	19.90	19.48	
	1RB-Middle (37)	3692.5(56665)	20.31	20.28	19.81	
		3625(55990)	20.28	20.31	19.94	
		3557.5(55315)	19.93	20.14	19.56	
	1RB-Low (0)	3692.5(56665)	20.19	20.20	19.61	
		3625(55990)	20.05	20.13	19.86	
		3557.5(55315)	20.16	20.03	19.61	
	36RB-High (38)	3692.5(56665)	20.30	20.23	20.32	
		3625(55990)	20.27	20.41	20.33	
		3557.5(55315)	19.84	20.03	19.92	
	36RB-Middle (19)	3692.5(56665)	20.29	20.35	20.33	
		3625(55990)	20.43	20.29	20.15	
		3557.5(55315)	20.18	20.13	19.92	
	36RB-Low (0)	3692.5(56665)	20.15	20.16	20.26	
		3625(55990)	20.11	20.17	20.12	
		3557.5(55315)	20.16	20.06	20.10	
	75RB (0)	3692.5(56665)	20.25	20.23	20.37	
		3625(55990)	20.27	20.13	20.25	
		3557.5(55315)	20.07	19.94	20.10	
	20MHz	1RB-High (99)	3690(56640)	20.31	20.33	19.95
			3625(55990)	20.25	20.24	19.90
			3560(55340)	19.89	19.89	19.54
1RB-Middle (50)		3690(56640)	20.35	20.33	19.95	
		3625(55990)	20.37	20.38	19.97	
		3560(55340)	20.10	20.09	19.73	
1RB-Low (0)		3690(56640)	20.17	20.17	19.80	
		3625(55990)	20.21	20.22	19.86	
		3560(55340)	20.17	20.17	19.80	
50RB-High (50)		3690(56640)	20.35	20.39	20.36	
		3625(55990)	20.34	20.36	20.33	
		3560(55340)	20.02	20.06	20.03	
50RB-Middle (25)		3690(56640)	20.34	20.36	20.35	
		3625(55990)	20.38	20.33	20.31	
		3560(55340)	20.13	20.14	20.12	
50RB-Low (0)		3690(56640)	20.28	20.28	20.28	
		3625(55990)	20.31	20.31	20.29	
		3560(55340)	20.14	20.18	20.14	
100RB (0)		3690(56640)	20.33	20.34	20.33	
		3625(55990)	20.31	20.31	20.29	
		3560(55340)	20.10	20.13	20.10	

LTE B66 ANT2-Power Level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	19.16	19.41	19.31
		1745 (132322)	19.19	19.37	19.31
		1710.7 (131979)	19.06	19.27	19.17
	1RB-Middle (3)	1779.3 (132665)	19.28	19.43	19.49
		1745 (132322)	19.13	19.40	19.42
		1710.7 (131979)	19.16	19.46	19.27
	1RB-Low (0)	1779.3 (132665)	19.07	19.57	19.36
		1745 (132322)	19.07	19.36	19.21
		1710.7 (131979)	19.17	19.39	19.30
	3RB-High (3)	1779.3 (132665)	19.39	19.25	19.31
		1745 (132322)	19.15	19.31	19.29
		1710.7 (131979)	19.10	19.20	19.03
	3RB-Middle (1)	1779.3 (132665)	19.47	19.37	19.25
		1745 (132322)	19.23	19.38	19.25
		1710.7 (131979)	19.15	19.03	19.03
	3RB-Low (0)	1779.3 (132665)	19.18	19.45	19.22
		1745 (132322)	19.34	19.18	19.25
		1710.7 (131979)	19.15	18.97	19.13
	6RB (0)	1779.3 (132665)	19.25	19.22	19.32
		1745 (132322)	19.32	19.24	19.31
		1710.7 (131979)	19.02	19.22	19.19
3MHz	1RB-High (14)	1778.5 (132657)	19.09	19.41	19.27
		1745 (132322)	19.14	19.39	19.14
		1711.5 (131987)	19.10	19.32	19.20
	1RB-Middle (7)	1778.5 (132657)	19.16	19.55	19.42
		1745 (132322)	19.28	19.43	19.43
		1711.5 (131987)	19.15	19.41	19.21
	1RB-Low (0)	1778.5 (132657)	19.28	19.50	19.19
		1745 (132322)	19.00	19.39	19.27
		1711.5 (131987)	19.16	19.21	19.18
	8RB-High (7)	1778.5 (132657)	19.28	19.21	19.25
		1745 (132322)	19.19	19.24	19.26
		1711.5 (131987)	19.15	19.22	19.13
	8RB-Middle (4)	1778.5 (132657)	19.45	19.45	19.48
		1745 (132322)	19.31	19.37	19.21
		1711.5 (131987)	19.09	19.09	19.03
	8RB-Low (0)	1778.5 (132657)	19.34	19.32	19.41
		1745 (132322)	19.23	19.20	19.16
		1711.5 (131987)	19.02	19.10	19.13
	15RB (0)	1778.5 (132657)	19.22	19.16	19.22
		1745 (132322)	19.21	19.09	19.11
		1711.5 (131987)	18.97	19.20	19.22

5MHz	1RB-High (24)	1777.5 (132647)	19.10	19.54	19.33	
		1745 (132322)	19.15	19.29	19.37	
		1712.5 (131997)	19.11	19.16	19.27	
	1RB-Middle (12)	1777.5 (132647)	19.21	19.42	19.48	
		1745 (132322)	19.24	19.47	19.43	
		1712.5 (131997)	19.13	19.40	19.37	
	1RB-Low (0)	1777.5 (132647)	19.07	19.57	19.18	
		1745 (132322)	18.99	19.24	19.24	
		1712.5 (131997)	19.02	19.26	19.11	
	12RB-High (13)	1777.5 (132647)	19.24	19.31	19.14	
		1745 (132322)	19.17	19.19	19.24	
		1712.5 (131997)	19.24	19.14	19.20	
	12RB-Middle (6)	1777.5 (132647)	19.39	19.34	19.38	
		1745 (132322)	19.36	19.23	19.38	
		1712.5 (131997)	19.05	19.14	19.21	
	12RB-Low (0)	1777.5 (132647)	19.24	19.33	19.45	
		1745 (132322)	19.15	19.27	19.30	
		1712.5 (131997)	19.02	19.05	19.01	
	25RB (0)	1777.5 (132647)	19.29	19.18	19.25	
		1745 (132322)	19.12	19.24	19.32	
		1712.5 (131997)	19.13	19.08	18.99	
	10MHz	1RB-High (49)	1775 (132622)	19.11	19.44	19.26
			1745 (132322)	19.16	19.40	19.31
			1715 (132022)	18.90	19.18	19.15
1RB-Middle (24)		1775 (132622)	19.25	19.48	19.49	
		1745 (132322)	19.18	19.33	19.23	
		1715 (132022)	19.15	19.46	19.29	
1RB-Low (0)		1775 (132622)	19.15	19.65	19.20	
		1745 (132322)	19.01	19.41	19.22	
		1715 (132022)	19.10	19.36	19.30	
25RB-High (25)		1775 (132622)	19.35	19.20	19.29	
		1745 (132322)	19.15	19.20	19.24	
		1715 (132022)	19.10	19.08	19.16	
25RB-Middle (12)		1775 (132622)	19.32	19.30	19.28	
		1745 (132322)	19.24	19.30	19.30	
		1715 (132022)	19.05	19.12	19.21	
25RB-Low (0)		1775 (132622)	19.31	19.27	19.40	
		1745 (132322)	19.25	19.22	19.11	
		1715 (132022)	19.13	19.09	19.05	
50RB (0)		1775 (132622)	19.28	19.22	19.24	
		1745 (132322)	19.07	19.22	19.14	
		1715 (132022)	18.98	19.05	19.07	



15MHz	1RB-High (74)	1772.5 (132597)	19.17	19.45	19.27	
		1745 (132322)	19.04	19.28	19.22	
		1717.5 (132047)	19.01	19.23	19.17	
	1RB-Middle (37)	1772.5 (132597)	19.35	19.45	19.43	
		1745 (132322)	19.08	19.52	19.26	
		1717.5 (132047)	19.07	19.37	19.30	
	1RB-Low (0)	1772.5 (132597)	19.10	19.43	19.38	
		1745 (132322)	18.99	19.41	19.13	
		1717.5 (132047)	19.14	19.37	19.17	
	36RB-High (38)	1772.5 (132597)	19.31	19.29	19.20	
		1745 (132322)	19.23	19.26	19.12	
		1717.5 (132047)	19.24	19.06	19.08	
	36RB-Middle (19)	1772.5 (132597)	19.41	19.27	19.46	
		1745 (132322)	19.16	19.34	19.26	
		1717.5 (132047)	19.07	19.13	19.07	
	36RB-Low (0)	1772.5 (132597)	19.32	19.31	19.34	
		1745 (132322)	19.15	19.33	19.25	
		1717.5 (132047)	19.19	19.01	19.12	
	75RB (0)	1772.5 (132597)	19.27	19.25	19.25	
		1745 (132322)	19.25	19.32	19.25	
		1717.5 (132047)	19.04	19.18	19.09	
	20MHz	1RB-High (99)	1770 (132572)	19.23	19.52	19.28
			1745 (132322)	19.22	19.42	19.34
			1720 (132072)	19.08	19.34	19.22
		1RB-Middle (50)	1770 (132572)	19.34	19.59	19.48
			1745 (132322)	19.26	19.52	19.41
			1720 (132072)	19.19	19.48	19.34
1RB-Low (0)		1770 (132572)	19.25	19.60	19.36	
		1745 (132322)	19.13	19.38	19.32	
		1720 (132072)	19.16	19.37	19.25	
50RB-High (50)		1770 (132572)	19.35	19.36	19.30	
		1745 (132322)	19.29	19.31	19.32	
		1720 (132072)	19.21	19.20	19.21	
50RB-Middle (25)		1770 (132572)	19.43	19.44	19.45	
		1745 (132322)	19.31	19.34	19.33	
		1720 (132072)	19.24	19.22	19.19	
50RB-Low (0)		1770 (132572)	19.37	19.41	19.42	
		1745 (132322)	19.29	19.28	19.28	
		1720 (132072)	19.14	19.17	19.15	
100RB (0)		1770 (132572)	19.39	19.35	19.36	
		1745 (132322)	19.27	19.27	19.27	
		1720 (132072)	19.17	19.20	19.18	

LTE B66 ANT2-Power Level C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	23.40	22.71	21.53
		1745 (132322)	23.33	22.62	21.51
		1710.7 (131979)	23.31	22.53	21.41
	1RB-Middle (3)	1779.3 (132665)	23.43	22.61	21.56
		1745 (132322)	23.35	22.53	21.42
		1710.7 (131979)	23.34	22.50	21.36
	1RB-Low (0)	1779.3 (132665)	23.43	22.58	21.59
		1745 (132322)	23.35	22.59	21.51
		1710.7 (131979)	23.34	22.43	21.38
	3RB-High (3)	1779.3 (132665)	23.49	22.41	21.55
		1745 (132322)	23.36	22.33	21.43
		1710.7 (131979)	23.34	22.36	21.39
	3RB-Middle (1)	1779.3 (132665)	23.47	22.52	21.57
		1745 (132322)	23.38	22.41	21.44
		1710.7 (131979)	23.33	22.36	21.39
	3RB-Low (0)	1779.3 (132665)	23.48	22.45	21.49
		1745 (132322)	23.40	22.33	21.46
		1710.7 (131979)	23.35	22.28	21.36
	6RB (0)	1779.3 (132665)	22.45	21.49	20.40
		1745 (132322)	22.39	21.44	20.30
		1710.7 (131979)	22.38	21.38	20.24
3MHz	1RB-High (14)	1778.5 (132657)	23.42	22.68	21.59
		1745 (132322)	23.36	22.62	21.46
		1711.5 (131987)	23.33	22.62	21.39
	1RB-Middle (7)	1778.5 (132657)	23.45	22.70	21.59
		1745 (132322)	23.38	22.60	21.52
		1711.5 (131987)	23.33	22.63	21.48
	1RB-Low (0)	1778.5 (132657)	23.41	22.57	21.50
		1745 (132322)	23.34	22.61	21.49
		1711.5 (131987)	23.31	22.52	21.48
	8RB-High (7)	1778.5 (132657)	22.42	21.47	20.43
		1745 (132322)	22.30	21.42	20.37
		1711.5 (131987)	22.28	21.34	20.33
	8RB-Middle (4)	1778.5 (132657)	22.43	21.47	20.45
		1745 (132322)	22.30	21.39	20.32
		1711.5 (131987)	22.31	21.38	20.34
	8RB-Low (0)	1778.5 (132657)	22.43	21.44	20.42
		1745 (132322)	22.32	21.39	20.32
		1711.5 (131987)	22.33	21.37	20.34
	15RB (0)	1778.5 (132657)	22.41	21.43	20.40
		1745 (132322)	22.34	21.34	20.30
		1711.5 (131987)	22.33	21.34	20.29

5MHz	1RB-High (24)	1777.5 (132647)	23.47	22.58	21.51	
		1745 (132322)	23.38	22.64	21.43	
		1712.5 (131997)	23.39	22.59	21.45	
	1RB-Middle (12)	1777.5 (132647)	23.51	22.65	21.53	
		1745 (132322)	23.46	22.69	21.56	
		1712.5 (131997)	23.41	22.57	21.45	
	1RB-Low (0)	1777.5 (132647)	23.47	22.59	21.52	
		1745 (132322)	23.40	22.63	21.49	
		1712.5 (131997)	23.38	22.47	21.43	
	12RB-High (13)	1777.5 (132647)	22.44	21.39	20.42	
		1745 (132322)	22.35	21.33	20.32	
		1712.5 (131997)	22.32	21.34	20.33	
	12RB-Middle (6)	1777.5 (132647)	22.47	21.46	20.42	
		1745 (132322)	22.41	21.43	20.36	
		1712.5 (131997)	22.33	21.31	20.31	
	12RB-Low (0)	1777.5 (132647)	22.47	21.42	20.45	
		1745 (132322)	22.41	21.40	20.39	
		1712.5 (131997)	22.33	21.28	20.30	
	25RB (0)	1777.5 (132647)	22.45	21.49	20.42	
		1745 (132322)	22.38	21.38	20.30	
		1712.5 (131997)	22.27	21.32	20.32	
	10MHz	1RB-High (49)	1775 (132622)	23.46	22.67	21.57
			1745 (132322)	23.42	22.58	21.49
			1715 (132022)	23.31	22.47	21.35
1RB-Middle (24)		1775 (132622)	23.44	22.63	21.49	
		1745 (132322)	23.44	22.52	21.50	
		1715 (132022)	23.39	22.49	21.52	
1RB-Low (0)		1775 (132622)	23.41	22.64	21.58	
		1745 (132322)	23.40	22.59	21.47	
		1715 (132022)	23.37	22.49	21.37	
25RB-High (25)		1775 (132622)	22.47	21.45	20.44	
		1745 (132322)	22.45	21.44	20.41	
		1715 (132022)	22.34	21.38	20.34	
25RB-Middle (12)		1775 (132622)	22.50	21.49	20.48	
		1745 (132322)	22.38	21.45	20.37	
		1715 (132022)	22.32	21.36	20.33	
25RB-Low (0)		1775 (132622)	22.49	21.53	20.46	
		1745 (132322)	22.41	21.41	20.35	
		1715 (132022)	22.26	21.26	20.22	
50RB (0)		1775 (132622)	22.50	21.48	20.46	
		1745 (132322)	22.42	21.40	20.38	
		1715 (132022)	22.33	21.29	20.27	

15MHz	1RB-High (74)	1772.5 (132597)	23.43	22.60	21.55	
		1745 (132322)	23.39	22.49	21.43	
		1717.5 (132047)	23.26	22.46	21.35	
	1RB-Middle (37)	1772.5 (132597)	23.50	22.70	21.62	
		1745 (132322)	23.44	22.63	21.47	
		1717.5 (132047)	23.34	22.56	21.35	
	1RB-Low (0)	1772.5 (132597)	23.43	22.63	21.56	
		1745 (132322)	23.34	22.67	21.40	
		1717.5 (132047)	23.34	22.45	21.42	
	36RB-High (38)	1772.5 (132597)	22.46	21.45	20.42	
		1745 (132322)	22.44	21.36	20.37	
		1717.5 (132047)	22.31	21.31	20.23	
	36RB-Middle (19)	1772.5 (132597)	22.47	21.40	20.47	
		1745 (132322)	22.39	21.38	20.39	
		1717.5 (132047)	22.29	21.30	20.27	
	36RB-Low (0)	1772.5 (132597)	22.49	21.42	20.40	
		1745 (132322)	22.38	21.36	20.29	
		1717.5 (132047)	22.28	21.26	20.25	
	75RB (0)	1772.5 (132597)	22.50	21.46	20.45	
		1745 (132322)	22.41	21.36	20.34	
		1717.5 (132047)	22.30	21.26	20.23	
	20MHz	1RB-High (99)	1770 (132572)	23.43	22.71	21.55
			1745 (132322)	23.40	22.60	21.51
			1720 (132072)	23.25	22.53	21.40
		1RB-Middle (50)	1770 (132572)	23.53	22.73	21.63
			1745 (132322)	23.45	22.68	21.52
			1720 (132072)	23.38	22.47	21.44
1RB-Low (0)		1770 (132572)	23.35	22.64	21.45	
		1745 (132322)	23.33	22.59	21.40	
		1720 (132072)	23.34	22.49	21.43	
50RB-High (50)		1770 (132572)	22.47	21.50	20.45	
		1745 (132322)	22.43	21.41	20.39	
		1720 (132072)	22.29	21.24	20.26	
50RB-Middle (25)		1770 (132572)	22.55	21.56	20.52	
		1745 (132322)	22.46	21.40	20.35	
		1720 (132072)	22.35	21.31	20.31	
50RB-Low (0)		1770 (132572)	22.58	21.53	20.53	
		1745 (132322)	22.47	21.36	20.30	
		1720 (132072)	22.44	21.27	20.17	
100RB (0)		1770 (132572)	22.55	21.52	20.51	
		1745 (132322)	22.38	21.39	20.38	
		1720 (132072)	22.29	21.21	20.21	

LTE B66 ANT1-Power Level B1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	23.87	22.81	21.89
		1745 (132322)	23.99	23.06	21.87
		1710.7 (131979)	23.85	22.80	21.57
	1RB-Middle (3)	1779.3 (132665)	24.07	23.13	22.33
		1745 (132322)	23.89	23.07	21.80
		1710.7 (131979)	23.82	22.98	21.96
	1RB-Low (0)	1779.3 (132665)	23.81	22.99	22.12
		1745 (132322)	23.74	22.74	21.74
		1710.7 (131979)	23.80	22.77	21.66
	3RB-High (3)	1779.3 (132665)	23.98	22.93	22.47
		1745 (132322)	23.94	23.09	21.93
		1710.7 (131979)	23.82	22.74	21.60
	3RB-Middle (1)	1779.3 (132665)	23.97	22.95	22.39
		1745 (132322)	24.00	23.03	21.97
		1710.7 (131979)	23.88	22.95	21.89
	3RB-Low (0)	1779.3 (132665)	23.96	22.90	22.21
		1745 (132322)	23.73	22.76	21.72
		1710.7 (131979)	23.73	22.91	21.82
	6RB (0)	1779.3 (132665)	23.11	21.94	21.33
		1745 (132322)	23.02	21.97	20.94
		1710.7 (131979)	22.83	21.90	20.85
3MHz	1RB-High (14)	1778.5 (132657)	23.95	22.79	22.40
		1745 (132322)	24.03	23.05	22.04
		1711.5 (131987)	23.86	22.87	21.59
	1RB-Middle (7)	1778.5 (132657)	23.96	23.00	22.49
		1745 (132322)	24.06	23.11	21.81
		1711.5 (131987)	23.95	22.91	21.84
	1RB-Low (0)	1778.5 (132657)	23.85	22.94	22.23
		1745 (132322)	23.66	22.78	21.72
		1711.5 (131987)	23.81	22.89	21.78
	8RB-High (7)	1778.5 (132657)	22.88	22.10	21.34
		1745 (132322)	23.04	22.01	21.21
		1711.5 (131987)	22.94	21.93	20.67
	8RB-Middle (4)	1778.5 (132657)	22.89	21.85	21.48
		1745 (132322)	22.82	22.02	20.92
		1711.5 (131987)	22.95	21.94	20.85
	8RB-Low (0)	1778.5 (132657)	23.05	21.97	21.30
		1745 (132322)	22.89	21.84	20.78
		1711.5 (131987)	22.71	21.90	20.66
	15RB (0)	1778.5 (132657)	23.01	22.11	21.49
		1745 (132322)	22.93	21.96	20.94
		1711.5 (131987)	22.94	21.77	20.85

5MHz	1RB-High (24)	1777.5 (132647)	24.00	22.81	22.37
		1745 (132322)	24.01	23.06	22.03
		1712.5 (131997)	23.86	22.80	21.70
	1RB-Middle (12)	1777.5 (132647)	23.94	23.05	22.44
		1745 (132322)	23.94	23.07	21.97
		1712.5 (131997)	23.91	22.92	21.81
	1RB-Low (0)	1777.5 (132647)	23.89	22.90	22.24
		1745 (132322)	23.72	22.62	21.75
		1712.5 (131997)	23.75	22.73	21.72
	12RB-High (13)	1777.5 (132647)	22.88	22.05	21.38
		1745 (132322)	23.00	22.01	21.19
		1712.5 (131997)	22.86	21.89	20.70
	12RB-Middle (6)	1777.5 (132647)	23.02	21.89	21.33
		1745 (132322)	22.94	21.99	21.02
		1712.5 (131997)	22.93	21.85	20.82
	12RB-Low (0)	1777.5 (132647)	23.12	22.06	21.40
		1745 (132322)	22.89	21.87	20.76
		1712.5 (131997)	22.82	21.78	20.79
	25RB (0)	1777.5 (132647)	23.00	22.03	21.45
		1745 (132322)	22.87	21.96	20.98
		1712.5 (131997)	22.77	21.75	20.84
10MHz	1RB-High (49)	1775 (132622)	23.95	22.84	22.39
		1745 (132322)	24.09	23.14	21.87
		1715 (132022)	23.73	22.74	21.67
	1RB-Middle (24)	1775 (132622)	24.09	23.00	22.38
		1745 (132322)	24.03	23.02	21.86
		1715 (132022)	23.93	22.91	21.87
	1RB-Low (0)	1775 (132622)	23.95	23.03	22.28
		1745 (132322)	23.68	22.75	21.67
		1715 (132022)	23.85	22.81	21.73
	25RB-High (25)	1775 (132622)	23.06	22.03	21.47
		1745 (132322)	23.04	22.04	21.12
		1715 (132022)	22.86	21.96	20.74
	25RB-Middle (12)	1775 (132622)	22.90	22.03	21.41
		1745 (132322)	22.97	22.06	20.99
		1715 (132022)	22.80	21.95	20.90
	25RB-Low (0)	1775 (132622)	22.98	21.97	21.42
		1745 (132322)	22.85	21.85	20.78
		1715 (132022)	22.78	21.82	20.85
	50RB (0)	1775 (132622)	23.00	22.03	21.47
		1745 (132322)	22.84	21.87	20.82
		1715 (132022)	22.83	21.86	20.72

15MHz	1RB-High (74)	1772.5 (132597)	23.84	22.81	22.50
		1745 (132322)	23.96	23.07	22.04
		1717.5 (132047)	23.86	22.87	21.60
	1RB-Middle (37)	1772.5 (132597)	23.99	23.02	22.46
		1745 (132322)	24.06	22.96	21.87
		1717.5 (132047)	24.00	22.85	21.89
	1RB-Low (0)	1772.5 (132597)	23.95	22.88	22.23
		1745 (132322)	23.79	22.59	21.72
		1717.5 (132047)	23.79	22.83	21.76
	36RB-High (38)	1772.5 (132597)	22.89	22.16	21.46
		1745 (132322)	22.91	22.01	21.08
		1717.5 (132047)	22.91	21.93	20.85
	36RB-Middle (19)	1772.5 (132597)	23.05	21.99	21.49
		1745 (132322)	22.91	22.03	21.10
		1717.5 (132047)	22.86	21.83	20.82
	36RB-Low (0)	1772.5 (132597)	23.01	22.01	21.30
		1745 (132322)	22.84	21.88	20.80
		1717.5 (132047)	22.76	21.91	20.82
	75RB (0)	1772.5 (132597)	22.96	22.13	21.42
		1745 (132322)	22.97	21.93	20.96
		1717.5 (132047)	22.83	21.90	20.81
20MHz	1RB-High (99)	1770 (132572)	23.99	22.90	22.46
		1745 (132322)	24.05	23.13	22.01
		1720 (132072)	23.88	22.86	21.72
	1RB-Middle (50)	1770 (132572)	24.07	23.08	22.45
		1745 (132322)	24.04	23.06	21.94
		1720 (132072)	23.95	22.94	21.92
	1RB-Low (0)	1770 (132572)	23.94	23.00	22.25
		1745 (132322)	23.74	22.73	21.71
		1720 (132072)	23.81	22.86	21.77
	50RB-High (50)	1770 (132572)	23.03	22.11	21.49
		1745 (132322)	23.04	22.11	21.17
		1720 (132072)	22.95	22.00	20.80
	50RB-Middle (25)	1770 (132572)	23.03	21.99	21.48
		1745 (132322)	22.97	22.03	21.06
		1720 (132072)	22.93	21.93	20.91
	50RB-Low (0)	1770 (132572)	23.07	22.09	21.43
		1745 (132322)	22.98	21.89	20.85
		1720 (132072)	22.82	21.89	20.81
	100RB (0)	1770 (132572)	23.06	22.08	21.46
		1745 (132322)	22.99	22.02	20.97
		1720 (132072)	22.91	21.90	20.87

LTE B66 ANT1-Power Level D1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	17.74	17.93	17.83
		1745 (132322)	17.84	17.73	17.71
		1710.7 (131979)	17.77	17.84	17.67
	1RB-Middle (3)	1779.3 (132665)	17.91	17.88	17.83
		1745 (132322)	17.91	17.93	17.88
		1710.7 (131979)	17.72	17.86	17.86
	1RB-Low (0)	1779.3 (132665)	17.74	17.91	17.74
		1745 (132322)	17.67	17.88	17.77
		1710.7 (131979)	17.69	17.78	17.70
	3RB-High (3)	1779.3 (132665)	17.79	17.92	17.96
		1745 (132322)	17.87	17.80	17.87
		1710.7 (131979)	17.61	17.82	17.75
	3RB-Middle (1)	1779.3 (132665)	17.88	17.78	17.85
		1745 (132322)	17.78	17.95	17.88
		1710.7 (131979)	17.79	17.80	17.88
	3RB-Low (0)	1779.3 (132665)	17.88	17.90	17.89
		1745 (132322)	17.77	17.86	17.77
		1710.7 (131979)	17.86	17.86	17.99
	6RB (0)	1779.3 (132665)	17.82	17.90	17.86
		1745 (132322)	17.80	17.86	17.79
		1710.7 (131979)	17.80	17.94	17.82
3MHz	1RB-High (14)	1778.5 (132657)	17.76	17.75	17.89
		1745 (132322)	17.70	17.73	17.76
		1711.5 (131987)	17.77	17.81	17.77
	1RB-Middle (7)	1778.5 (132657)	17.96	17.88	17.96
		1745 (132322)	17.82	17.95	17.84
		1711.5 (131987)	17.81	17.95	17.87
	1RB-Low (0)	1778.5 (132657)	17.77	17.82	17.77
		1745 (132322)	17.71	17.86	17.89
		1711.5 (131987)	17.62	17.83	17.82
	8RB-High (7)	1778.5 (132657)	17.85	17.97	17.96
		1745 (132322)	17.75	17.98	17.89
		1711.5 (131987)	17.71	17.69	17.79
	8RB-Middle (4)	1778.5 (132657)	17.70	17.83	17.89
		1745 (132322)	17.84	17.82	17.82
		1711.5 (131987)	17.81	17.84	17.92
	8RB-Low (0)	1778.5 (132657)	17.75	17.79	17.82
		1745 (132322)	17.87	17.87	17.97
		1711.5 (131987)	17.78	17.84	17.79
	15RB (0)	1778.5 (132657)	17.79	17.98	17.81
		1745 (132322)	17.70	17.95	17.89
		1711.5 (131987)	17.86	17.94	17.74



5MHz	1RB-High (24)	1777.5 (132647)	17.74	17.75	17.75
		1745 (132322)	17.79	17.75	17.84
		1712.5 (131997)	17.69	17.74	17.72
	1RB-Middle (12)	1777.5 (132647)	17.82	18.02	18.02
		1745 (132322)	17.77	18.03	17.84
		1712.5 (131997)	17.80	17.95	17.93
	1RB-Low (0)	1777.5 (132647)	17.68	17.87	17.79
		1745 (132322)	17.83	17.84	17.71
		1712.5 (131997)	17.80	17.87	17.69
	12RB-High (13)	1777.5 (132647)	17.82	18.00	17.99
		1745 (132322)	17.79	17.91	17.95
		1712.5 (131997)	17.80	17.88	17.76
	12RB-Middle (6)	1777.5 (132647)	17.75	17.79	17.91
		1745 (132322)	17.88	17.93	17.95
		1712.5 (131997)	17.80	17.89	17.75
	12RB-Low (0)	1777.5 (132647)	17.80	17.83	17.88
		1745 (132322)	17.76	17.91	17.83
		1712.5 (131997)	17.92	17.99	17.82
	25RB (0)	1777.5 (132647)	17.86	17.88	17.89
		1745 (132322)	17.70	17.91	17.86
		1712.5 (131997)	17.81	17.85	17.85
10MHz	1RB-High (49)	1775 (132622)	17.84	17.81	17.77
		1745 (132322)	17.74	17.86	17.77
		1715 (132022)	17.75	17.83	17.71
	1RB-Middle (24)	1775 (132622)	17.82	17.96	17.97
		1745 (132322)	17.94	17.99	17.82
		1715 (132022)	17.90	17.79	17.90
	1RB-Low (0)	1775 (132622)	17.71	17.81	17.85
		1745 (132322)	17.79	17.85	17.89
		1715 (132022)	17.65	17.70	17.84
	25RB-High (25)	1775 (132622)	17.90	17.88	17.91
		1745 (132322)	17.88	17.91	17.86
		1715 (132022)	17.73	17.84	17.73
	25RB-Middle (12)	1775 (132622)	17.85	17.97	17.95
		1745 (132322)	17.78	17.95	17.94
		1715 (132022)	17.87	17.86	17.87
	25RB-Low (0)	1775 (132622)	17.85	17.81	17.85
		1745 (132322)	17.74	17.96	17.95
		1715 (132022)	17.79	17.83	17.92
	50RB (0)	1775 (132622)	17.86	17.94	17.85
		1745 (132322)	17.88	17.78	17.96
		1715 (132022)	17.68	17.81	17.76

15MHz	1RB-High (74)	1772.5 (132597)	17.66	17.91	17.86
		1745 (132322)	17.75	17.76	17.82
		1717.5 (132047)	17.61	17.78	17.76
	1RB-Middle (37)	1772.5 (132597)	17.97	17.91	17.93
		1745 (132322)	17.91	17.95	17.88
		1717.5 (132047)	17.74	17.86	17.91
	1RB-Low (0)	1772.5 (132597)	17.67	17.91	17.79
		1745 (132322)	17.69	17.74	17.86
		1717.5 (132047)	17.77	17.72	17.85
	36RB-High (38)	1772.5 (132597)	17.94	17.91	18.01
		1745 (132322)	17.91	17.87	17.88
		1717.5 (132047)	17.63	17.87	17.69
	36RB-Middle (19)	1772.5 (132597)	17.70	17.83	17.87
		1745 (132322)	17.83	17.81	17.97
		1717.5 (132047)	17.85	17.79	17.81
	36RB-Low (0)	1772.5 (132597)	17.81	17.86	17.76
		1745 (132322)	17.85	17.95	17.80
		1717.5 (132047)	17.74	18.00	17.92
	75RB (0)	1772.5 (132597)	17.74	17.86	17.85
		1745 (132322)	17.81	17.87	17.88
		1717.5 (132047)	17.73	17.82	17.81
20MHz	1RB-High (99)	1770 (132572)	17.81	17.89	17.87
		1745 (132322)	17.80	17.88	17.86
		1720 (132072)	17.72	17.80	17.78
	1RB-Middle (50)	1770 (132572)	17.92	18.00	17.98
		1745 (132322)	17.90	17.98	17.96
		1720 (132072)	17.86	17.94	17.92
	1RB-Low (0)	1770 (132572)	17.80	17.88	17.86
		1745 (132322)	17.78	17.86	17.84
		1720 (132072)	17.76	17.84	17.82
	50RB-High (50)	1770 (132572)	17.92	18.00	17.98
		1745 (132322)	17.86	17.94	17.92
		1720 (132072)	17.76	17.84	17.82
	50RB-Middle (25)	1770 (132572)	17.84	17.92	17.90
		1745 (132322)	17.88	17.96	17.94
		1720 (132072)	17.83	17.91	17.89
	50RB-Low (0)	1770 (132572)	17.85	17.93	17.91
		1745 (132322)	17.86	17.94	17.92
		1720 (132072)	17.88	17.96	17.94
	100RB (0)	1770 (132572)	17.87	17.95	17.93
		1745 (132322)	17.85	17.93	17.91
		1720 (132072)	17.81	17.89	17.87

LTE B71-Power Level A1/B1/C1/D1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	695.5 (133447)	23.46	22.74	21.77
		680.5 (133297)	23.48	22.62	21.83
		665.5 (133147)	23.68	22.62	21.90
	1RB-Middle (12)	695.5 (133447)	23.46	22.68	21.81
		680.5 (133297)	23.58	22.84	21.87
		665.5 (133147)	23.68	22.67	21.85
	1RB-Low (0)	695.5 (133447)	23.41	22.67	21.77
		680.5 (133297)	23.62	22.87	21.92
		665.5 (133147)	23.66	22.68	21.86
	12RB-High (13)	695.5 (133447)	22.44	21.58	20.58
		680.5 (133297)	22.45	21.62	20.64
		665.5 (133147)	22.56	21.70	20.71
	12RB-Middle (6)	695.5 (133447)	22.39	21.55	20.63
		680.5 (133297)	22.48	21.70	20.68
		665.5 (133147)	22.57	21.77	20.76
	12RB-Low (0)	695.5 (133447)	22.46	21.60	20.62
		680.5 (133297)	22.57	21.73	20.75
		665.5 (133147)	22.60	21.75	20.72
	25RB (0)	695.5 (133447)	22.49	21.65	20.62
		680.5 (133297)	22.52	21.74	20.65
		665.5 (133147)	22.59	21.80	20.75
10MHz	1RB-High (49)	693 (132422)	23.57	22.75	21.60
		680.5 (133297)	23.55	22.66	21.60
		668 (133172)	23.61	22.83	21.85
	1RB-Middle (24)	693 (132422)	23.44	22.63	21.69
		680.5 (133297)	23.56	22.83	21.80
		668 (133172)	23.77	23.03	21.96
	1RB-Low (0)	693 (132422)	23.45	22.66	21.72
		680.5 (133297)	23.54	22.82	21.83
		668 (133172)	23.69	22.74	21.94
	25RB-High (25)	693 (132422)	22.37	21.54	20.47
		680.5 (133297)	22.50	21.68	20.62
		668 (133172)	22.70	21.86	20.85
	25RB-Middle (12)	693 (132422)	22.41	21.61	20.57
		680.5 (133297)	22.53	21.69	20.68
		668 (133172)	22.63	21.81	20.80
	25RB-Low (0)	693 (132422)	22.55	21.69	20.69
		680.5 (133297)	22.60	21.76	20.75
		668 (133172)	22.66	21.81	20.80
	50RB (0)	693 (132422)	22.52	21.66	20.61
		680.5 (133297)	22.57	21.76	20.71
		668 (133172)	22.72	21.89	20.82

15MHz	1RB-High (74)	690.5 (133397)	23.39	22.08	21.61	
		680.5 (133297)	23.35	22.86	21.95	
		670.5 (133197)	23.44	22.95	21.90	
	1RB-Middle (37)	690.5 (133397)	23.47	22.13	21.58	
		680.5 (133297)	23.53	22.66	21.95	
		670.5 (133197)	23.60	22.78	21.91	
	1RB-Low (0)	690.5 (133397)	23.47	22.15	21.77	
		680.5 (133297)	23.58	22.77	22.04	
		670.5 (133197)	23.68	22.86	21.98	
	36RB-High (38)	690.5 (133397)	22.43	21.58	20.56	
		680.5 (133297)	22.44	21.62	20.60	
		670.5 (133197)	22.55	21.71	20.74	
	36RB-Middle (19)	690.5 (133397)	22.43	21.65	20.62	
		680.5 (133297)	22.51	21.67	20.69	
		670.5 (133197)	22.57	21.76	20.73	
	36RB-Low (0)	690.5 (133397)	22.42	21.58	20.57	
		680.5 (133297)	22.58	21.76	20.71	
		670.5 (133197)	22.59	21.76	20.80	
	75RB (0)	690.5 (133397)	22.46	21.56	20.56	
		680.5 (133297)	22.52	21.72	20.68	
		670.5 (133197)	22.59	21.75	20.73	
	20MHz	1RB-High (99)	688 (133372)	23.39	22.49	21.65
			683 (133322)	23.35	22.51	21.58
			673 (133222)	23.38	22.57	21.72
1RB-Middle (50)		688 (133372)	23.58	22.27	21.79	
		683 (133322)	23.67	22.69	21.75	
		673 (133222)	23.64	22.81	21.91	
1RB-Low (0)		688 (133372)	23.07	22.20	21.44	
		683 (133322)	23.03	22.78	21.86	
		673 (133222)	23.17	22.92	21.88	
50RB-High (50)		688 (133372)	22.46	21.64	20.60	
		683 (133322)	22.48	21.67	20.66	
		673 (133222)	22.55	21.71	20.64	
50RB-Middle (25)		688 (133372)	22.50	21.63	20.71	
		683 (133322)	22.55	21.72	20.68	
		673 (133222)	22.65	21.76	20.73	
50RB-Low (0)		688 (133372)	22.54	21.73	20.69	
		683 (133322)	22.66	21.79	20.79	
		673 (133222)	22.60	21.73	20.71	
100RB (0)		688 (133372)	22.48	21.61	20.58	
		683 (133322)	22.59	21.72	20.67	
		673 (133222)	22.53	21.68	20.67	

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

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

DL LTE CA Class	PCC								SCC			Power		
	PCC Band	PCC Band width (MHz)	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Band width (MHz)	SCC DL Channel	Rel 8 LTETx Power (dBm)	Rel 10 DL LTE CA Tx Power(dBm)	Tune-up
2A-2A	2	20	1	50	1	50	18700	700	2	5	1175	23.49	23.32	24.5
2C	2	20	1	50	1	50	18700	700	2	5	817	23.49	23.38	24.5
2A-4A	2	20	1	50	1	50	18900	900	4	20	2175	23.57	23.42	24.5
2A-5A	2	20	1	50	1	50	18900	900	5	10	2525	23.57	23.50	24.5
2A-7A	2	20	1	50	1	50	18900	900	7	20	3100	23.57	23.52	24.5
2A-12A	2	20	1	50	1	50	18900	900	12	10	5095	23.57	23.48	24.5
2A-13A	2	20	1	50	1	50	18900	900	13	10	5230	23.57	23.46	24.5
2A-29A	2	20	1	50	1	50	18900	900	29	10	9715	23.57	23.45	24.5
2A-38A	2	20	1	50	1	50	18900	900	38	20	38450	23.57	23.33	24.5
2A-66A	2	20	1	50	1	50	18900	900	66	20	66786	23.57	23.45	24.5
2A-71A	2	20	1	50	1	50	18900	900	71	20	68786	23.57	23.48	24.5
4A-5A	4	20	1	50	1	50	20300	2300	5	10	2525	23.53	23.42	23.7
4A-7A	4	20	1	50	1	50	20300	2300	7	20	3100	23.53	23.44	23.7
4A-12A	4	20	1	50	1	50	20300	2300	12	10	5095	23.53	23.35	23.7
4A-13A	4	20	1	50	1	50	20300	2300	13	10	5230	23.53	23.38	23.7
4A-17A	4	20	1	50	1	50	20300	2300	17	10	5790	23.53	23.25	23.7
4A-29A	4	20	1	50	1	50	20300	2300	29	10	9715	23.53	23.37	23.7
4A-71A	4	20	1	50	1	50	20300	2300	71	20	68786	23.53	23.39	23.7
5A-7A	5	10	1	20	1	50	20600	2600	7	20	3100	23.65	23.33	24.5
5A-41A	5	10	1	20	1	50	20600	2600	41	20	40620	23.65	23.45	24.5
5A-66A	5	10	1	20	1	50	20600	2600	66	20	66786	23.65	23.60	24.5
7A-7A	7	20	1	0	1	0	20850	2850	7	5	3425	23.83	23.52	24.2
7C	7	20	1	0	1	0	20850	2850	7	10	2994	23.83	23.62	24.2
7A-12A	7	20	1	0	1	0	20850	2850	12	10	5095	23.83	23.77	24.2
7A-13A	7	20	1	0	1	0	20850	2850	13	10	5230	23.83	23.53	24.2
7A-25A	7	20	1	0	1	0	20850	2850	25	20	8365	23.83	23.52	24.2
7A-29A	7	20	1	0	1	0	20850	2850	29	10	9715	23.83	23.57	24.2
7A-66A	7	20	1	0	1	0	20850	2850	66	20	66786	23.83	23.37	24.2
7A-71A	7	20	1	0	1	0	20850	2850	71	20	68786	23.83	23.52	24.2



12A-25A	12	10	1	0	1	0	23060	5060	25	20	8365	23.60	23.45	24.5
12A-66A	12	10	1	0	1	0	23060	5060	66	20	66786	23.60	23.52	24.5
13A-66A	13	10	1	0	1	0	23230	5230	66	20	66786	23.74	23.62	24.5
25A-25A	25	20	1	50	1	50	26140	8140	25	15	8615	23.49	23.35	24.5
25A-66A	25	20	1	50	1	50	26365	8365	66	20	66786	23.57	23.46	24.5
41A-41A	41	20	1	50	1	50	39750	39750	41	5	41565	23.75	23.54	24.2
41A-48A	41	20	1	50	1	50	40620	40620	48	20	55990	23.95	23.67	24.2
66A-66A	66	20	1	50	1	50	132072	66536	66	5	67311	23.38	23.22	23.7
66A-71A	66	20	1	50	1	50	132572	67036	71	20	68786	23.53	23.45	23.7

Note: Testing is not required in bands or modes not intended/allowed for US operation.

#### 11.4 Wi-Fi and BT Measurement result

The maximum output power of BT antenna is 9.57dBm.

The maximum tune up of BT antenna is 11dBm.

**The average conducted power for Wi-Fi 2.4G (Head&Body transmit alone) is as following:**

802.11b	
Channel\data rate	1Mbps
11(2462MHz)	19.25
6(2437(MHz))	19.23
1(2412MHz)	19.18
Tune up	19.70
802.11g	
Channel\data rate	6Mbps
11(2462MHz)	17.78
6(2437(MHz))	17.95
1(2412MHz)	17.90
Tune up	18.50
802.11n-20MHz	
Channel\data rate	MCS0
11(2462MHz)	17.01
6(2437(MHz))	17.33
1(2412MHz)	17.21
Tune up	17.80
802.11n-40MHz	
Channel\data rate	MCS0
9(2452MHz)	17.12
6(2437MHz)	17.15
3(2422MHz)	17.02
Tune up	17.70

The average conducted power for Wi-Fi 2.4G (Head transmit with WWAN) is as following:

802.11b	
Channel\data rate	1Mbps
11(2462MHz)	13.98
6(2437(MHz)	13.80
1(2412MHz)	13.72
Tune up	14.20
802.11g	
Channel\data rate	6Mbps
11(2462MHz)	12.66
6(2437(MHz)	12.54
1(2412MHz)	12.42
Tune up	13.00
802.11n-20MHz	
Channel\data rate	MCS0
11(2462MHz)	11.83
6(2437(MHz)	11.65
1(2412MHz)	11.39
Tune up	12.50
802.11n-40MHz	
Channel\data rate	MCS0
9(2452MHz)	11.65
6(2437MHz)	11.55
3(2422MHz)	11.45
Tune up	12.50



The average conducted power for Wi-Fi 2.4G (Body transmit with WWAN) is as following:

802.11b	
Channel\data rate	1Mbps
11(2462MHz)	18.62
6(2437(MHz)	18.47
1(2412MHz)	18.31
Tune up	19.00
802.11g	
Channel\data rate	6Mbps
11(2462MHz)	17.42
6(2437(MHz)	17.29
1(2412MHz)	17.21
Tune up	18.50
802.11n-20MHz	
Channel\data rate	MCS0
11(2462MHz)	16.38
6(2437(MHz)	16.23
1(2412MHz)	16.11
Tune up	17.80
802.11n-40MHz	
Channel\data rate	MCS0
9(2452MHz)	16.13
6(2437MHz)	16.55
3(2422MHz)	16.47
Tune up	17.70

The average conducted power for Wi-Fi 5G (Head transmit alone) is as following:

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	15.11
40(5200 MHz)	15.53
44(5220 MHz)	15.84
48(5240 MHz)	16.06
52(5260 MHz)	16.12
56(5280 MHz)	15.65
60(5300 MHz)	15.25
64(5320 MHz)	14.90
100(5500 MHz)	14.63
104(5520 MHz)	14.54
108(5540 MHz)	14.97
112(5560 MHz)	15.34
116(5580 MHz)	15.73
120(5600 MHz)	16.14
124(5620 MHz)	16.37
128(5640 MHz)	16.29
132(5660 MHz)	15.50
136(5680 MHz)	15.31
140(5700 MHz)	15.12
144(5720 MHz)	15.00
Tune up	16.50
149(5745 MHz)	14.61
153(5765 MHz)	15.00
157(5785 MHz)	15.34
161(5805 MHz)	15.76
165(5825 MHz)	16.00
Tune up	16.30

The average conducted power for Wi-Fi 5G (Head transmit with WWAN) is as following:

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	8.21
40(5200 MHz)	8.44
44(5220 MHz)	8.61
48(5240 MHz)	8.73
52(5260 MHz)	8.70
56(5280 MHz)	8.51
60(5300 MHz)	8.29
64(5320 MHz)	8.10
100(5500 MHz)	7.88
104(5520 MHz)	7.78
108(5540 MHz)	8.07
112(5560 MHz)	8.27
116(5580 MHz)	8.48
120(5600 MHz)	8.70
124(5620 MHz)	8.82
128(5640 MHz)	8.78
132(5660 MHz)	8.35
136(5680 MHz)	8.25
140(5700 MHz)	8.15
144(5720 MHz)	8.08
149(5745 MHz)	7.82
153(5765 MHz)	8.03
157(5785 MHz)	8.21
161(5805 MHz)	8.43
165(5825 MHz)	8.56
Tune up	9.00

The average conducted power for Wi-Fi 5G (Body transmit alone) is as following:

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	17.08
40(5200 MHz)	17.33
44(5220 MHz)	17.38
48(5240 MHz)	17.50
Tune up	18.00
52(5260 MHz)	17.97
56(5280 MHz)	17.88
60(5300 MHz)	17.86
64(5320 MHz)	17.85
Tune up	18.20
100(5500 MHz)	16.99
104(5520 MHz)	17.05
108(5540 MHz)	16.95
112(5560 MHz)	17.10
116(5580 MHz)	17.25
120(5600 MHz)	17.21
124(5620 MHz)	17.29
128(5640 MHz)	17.79
132(5660 MHz)	17.38
136(5680 MHz)	17.50
140(5700 MHz)	17.48
144(5720 MHz)	17.49
149(5745 MHz)	17.49
153(5765 MHz)	17.44
157(5785 MHz)	17.43
161(5805 MHz)	17.47
165(5825 MHz)	17.54
Tune up	18.00

The average conducted power for Wi-Fi 5G (Body transmit with WWAN) is as following:

802.11a(dBm)	
Channel\data rate	6Mbps
36(5180 MHz)	9.24
40(5200 MHz)	9.49
44(5220 MHz)	9.69
48(5240 MHz)	9.82
52(5260 MHz)	9.76
56(5280 MHz)	9.55
60(5300 MHz)	9.30
64(5320 MHz)	9.09
100(5500 MHz)	9.00
104(5520 MHz)	8.88
108(5540 MHz)	9.21
112(5560 MHz)	9.44
116(5580 MHz)	9.68
120(5600 MHz)	9.93
124(5620 MHz)	10.07
128(5640 MHz)	10.02
132(5660 MHz)	9.53
136(5680 MHz)	9.42
140(5700 MHz)	9.31
144(5720 MHz)	9.23
Tune up	10.50
149(5745 MHz)	8.76
153(5765 MHz)	9.00
157(5785 MHz)	9.20
161(5805 MHz)	9.44
165(5825 MHz)	9.59
Tune up	10.00

## 11.5 5G NR Measurement result

### Maximum Target Power for Production Unit

Band	Tune up (dBm)			
	Receiver on (Head scenario - Standalone)	Receiver on (Head scenario – Under ENDC)	Receiver off (Body scenario - standalone)	Receiver off (Body scenario- Under ENDC)
	Power Level A1	Power Level B1	Power Level C1	Power Level D1
n2(NSA)	/	16.3	/	18
n5(SA/NSA)	23.8	19	23.8	23.8
n7(NSA)	/	17	/	18
n25(SA/NSA)	20.5	17.3	23.6	17.3
n41(SA/NSA)	21	18	23.7	18
n66(SA/NSA)	18.5	16.3	22.5	17.5
n71(SA/NSA)	24	24	24	24
n77(SA/NSA)	17.7	13	18.7	15
n78(SA/NSA)	17.5	13	18.6	14

### Maximum power reduction (MPR) for power class 3

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
FT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
	$0.5^2$	$0.5^2$	$0^2$
DFT-s-OFDM QPSK	$\leq 1$		0
DFT-s-OFDM 16 QAM	$\leq 2$		$\leq 1$
DFT-s-OFDM 64 QAM	$\leq 2.5$		
DFT-s-OFDM 256 QAM	4.5		
CP-OFDM QPSK	$\leq 3$	$\leq 1.5$	
CP-OFDM 16 QAM	$\leq 3$	$\leq 2$	
CP-OFDM 64 QAM	$\leq 3.5$		
CP-OFDM 256 QAM	$\leq 6.5$		

NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability [powerBoosting-pi2BPSK] and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

**Evaluation process for 5G NR TDD bands(n41/n77/n78):**

The conducted power value in NR band (TDD) need to be dynamically adjusted with the uplink duty cycle.

The dynamic adjusted process is as below:

<b>n41 PC3-Head</b>				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
23	1-10%	23.0	-10.0	13.0
23	11-20%	30.0	-7.0	23.0
23	21-30%	28.2	-5.2	23.0
23	31-40%	27.0	-4.0	23.0
23	41-50%	26.0	-3.0	23.0
23	51-60%	25.2	-2.2	23.0
23	61-70%	24.5	-1.5	23.0
23	71-80%	24.0	-1.0	23.0
23	81-90%	23.5	-0.5	23.0
23	91-100%	23.1	0.0	23.1

<b>n41 PC3-Body</b>				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
23	1-10%	23.0	-10.0	13.0
23	11-20%	30.0	-7.0	23.0
23	21-30%	28.2	-5.2	23.0
23	31-40%	27.0	-4.0	23.0
23	41-50%	26.0	-3.0	23.0
23	51-60%	25.2	-2.2	23.0
23	61-70%	24.5	-1.5	23.0
23	71-80%	24.0	-1.0	23.0
23	81-90%	23.5	-0.5	23.0
23	91-100%	23.1	0.0	23.1

n41 PC2-Head				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
26	1-10%	33.0	-10.0	23.0
26	11-20%	30.0	-7.0	23.0
26	21-30%	28.2	-5.2	23.0
26	31-40%	27.0	-4.0	23.0
26	41-50%	26.0	-3.0	23.0
26	51-60%	25.2	-2.2	23.0
26	61-70%	24.5	-1.5	23.0
26	71-80%	24.0	-1.0	23.0
26	81-90%	23.5	-0.5	23.0
26	91-100%	23.1	0.0	23.1

n41 PC2-Body				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
26	1-10%	33.0	-10.0	23.0
26	11-20%	30.0	-7.0	23.0
26	21-30%	28.2	-5.2	23.0
26	31-40%	27.0	-4.0	23.0
26	41-50%	26.0	-3.0	23.0
26	51-60%	25.2	-2.2	23.0
26	61-70%	24.5	-1.5	23.0
26	71-80%	24.0	-1.0	23.0
26	81-90%	23.5	-0.5	23.0
26.1	91-100%	23.2	0.0	23.2



<b>n77 PC3-Head</b>				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
23	1-10%	23.0	-10.0	13.0
23	11-20%	23.0	-7.0	16.0
23	21-30%	21.2	-5.2	16.0
23	31-40%	20.0	-4.0	16.0
23	41-50%	19.0	-3.0	16.0
23	51-60%	18.2	-2.2	16.0
23	61-70%	17.5	-1.5	16.0
23	71-80%	17.0	-1.0	16.0
23	81-90%	16.5	-0.5	16.0
23	91-100%	16.1	0.0	16.1

<b>n77 PC3-Body</b>				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
23	1-10%	23.0	-10.0	13.0
23	11-20%	23.0	-7.0	16.0
23	21-30%	23.0	-5.2	17.8
23	31-40%	21.0	-4.0	17.0
23	41-50%	20.0	-3.0	17.0
23	51-60%	19.2	-2.2	17.0
23	61-70%	18.5	-1.5	17.0
23	71-80%	18.0	-1.0	17.0
23	81-90%	17.5	-0.5	17.0
23	91-100%	17.1	0.0	17.1

n77 PC2-Head				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
26	1-10%	26.0	-10.0	16.0
26	11-20%	23.0	-7.0	16.0
26	21-30%	21.2	-5.2	16.0
26	31-40%	20.0	-4.0	16.0
26	41-50%	19.0	-3.0	16.0
26	51-60%	18.2	-2.2	16.0
26	61-70%	17.5	-1.5	16.0
26	71-80%	17.0	-1.0	16.0
26	81-90%	16.5	-0.5	16.0
26	91-100%	16.1	0.0	16.1

n77 PC2-Body				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
26	1-10%	26.0	-10.0	16.0
26	11-20%	24.0	-7.0	17.0
26	21-30%	22.2	-5.2	17.0
26	31-40%	21.0	-4.0	17.0
26	41-50%	20.0	-3.0	17.0
26	51-60%	19.2	-2.2	17.0
26	61-70%	18.5	-1.5	17.0
26	71-80%	18.0	-1.0	17.0
26	81-90%	17.5	-0.5	17.0
26	91-100%	17.1	0.0	17.1

n78 PC3-Head				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
23	1-10%	23.0	-10.0	13.0
23	11-20%	23.0	-7.0	16.0
23	21-30%	21.2	-5.2	16.0
23	31-40%	20.0	-4.0	16.0
23	41-50%	19.0	-3.0	16.0
23	51-60%	18.2	-2.2	16.0
23	61-70%	17.5	-1.5	16.0
23	71-80%	17.0	-1.0	16.0
23	81-90%	16.5	-0.5	16.0
23	91-100%	16.1	0.0	16.1

n78 PC3-Body				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
23	1-10%	23.0	-10.0	13.0
23	11-20%	23.0	-7.0	16.0
23	21-30%	22.2	-5.2	17.0
23	31-40%	21.0	-4.0	17.0
23	41-50%	20.0	-3.0	17.0
23	51-60%	19.2	-2.2	17.0
23	61-70%	18.5	-1.5	17.0
23	71-80%	18.0	-1.0	17.0
23	81-90%	17.5	-0.5	17.0
23	91-100%	17.1	0.0	17.1

n78 PC2-Head				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
26	1-10%	26.0	-10.0	16.0
26	11-20%	23.0	-7.0	16.0
26	21-30%	21.2	-5.2	16.0
26	31-40%	20.0	-4.0	16.0
26	41-50%	19.0	-3.0	16.0
26	51-60%	18.2	-2.2	16.0
26	61-70%	17.5	-1.5	16.0
26	71-80%	17.0	-1.0	16.0
26	81-90%	16.5	-0.5	16.0
26	91-100%	16.1	0.0	16.1

n78 PC2-Body				
Maxpower	Duty cycle	TX power	Calculation -10*log(Duty cycle)	Time Average Power(dBm)
26	1-10%	26.0	-10.0	16.0
26	11-20%	24.0	-7.0	17.0
26	21-30%	22.2	-5.2	17.0
26	31-40%	21.0	-4.0	17.0
26	41-50%	20.0	-3.0	17.0
26	51-60%	19.2	-2.2	17.0
26	61-70%	18.5	-1.5	17.0
26	71-80%	18.0	-1.0	17.0
26	81-90%	17.5	-0.5	17.0
26	91-100%	17.1	0.0	17.1

**The test plan for SAR based on the above tables for TDD power setting:**

1. Determine the maximum power of different uplink duty cycle.
2. Converse the Maximum Power of different duty cycle to Averaged Power by division factor.
3. Choose the duty cycle with maximum Average Power to do conductive power and SAR test. For this device, 100% duty cycle was chosen.

n2-Power Level B1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	15.80
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	15.86
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	15.77
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900	380000	15.81
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	15.77
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	15.72
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1880	376000	15.82
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1880	376000	15.77
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1880	376000	15.74
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1880	376000	15.78
15	5	CP-OFDM QPSK	Inner_Full	12@6	1880	376000	15.73
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1880	376000	15.83
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1880	376000	15.76
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1880	376000	15.71
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1880	376000	15.76
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880	376000	15.75
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1880	376000	15.75
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880	376000	15.78
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1880	376000	15.80
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880	376000	15.57
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880	376000	15.79

n2-Power Level D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	17.70
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880	376000	17.76
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	17.66
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900	380000	17.71
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880	376000	17.60
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	17.65
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1880	376000	17.70
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1880	376000	17.66
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1880	376000	17.59
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1880	376000	17.64
15	5	CP-OFDM QPSK	Inner_Full	12@6	1880	376000	17.60
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1880	376000	17.70
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1880	376000	17.61
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1880	376000	16.23
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1880	376000	17.62
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880	376000	17.58
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1880	376000	17.63
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880	376000	17.62
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1880	376000	17.65
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880	376000	17.45
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880	376000	17.66

n5-Power Level A1/C1/D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	23.68
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	23.76
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	23.75
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839	167800	23.58
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	23.56
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834	166800	23.60
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	836.5	167300	23.65
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	836.5	167300	22.61
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	836.5	167300	21.07
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	836.5	167300	19.22
15	5	CP-OFDM QPSK	Inner_Full	12@6	836.5	167300	20.69
15	5	CP-OFDM 16QAM	Inner_Full	12@6	836.5	167300	20.77
15	5	CP-OFDM 64QAM	Inner_Full	12@6	836.5	167300	20.21
15	5	CP-OFDM 256QAM	Inner_Full	12@6	836.5	167300	17.12
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	836.5	167300	22.50
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	167300	22.54
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	836.5	167300	23.48
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	23.55
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	836.5	165300	22.58
15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	23.55
15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	23.59

n5-Power Level B1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	18.25
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	18.30
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	18.23
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839	167800	18.17
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	18.16
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834	166800	18.19
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	836.5	167300	18.29
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	836.5	167300	18.27
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	836.5	167300	18.20
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	836.5	167300	18.22
15	5	CP-OFDM QPSK	Inner_Full	12@6	836.5	167300	18.23
15	5	CP-OFDM 16QAM	Inner_Full	12@6	836.5	167300	18.28
15	5	CP-OFDM 64QAM	Inner_Full	12@6	836.5	167300	18.22
15	5	CP-OFDM 256QAM	Inner_Full	12@6	836.5	167300	16.70
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	836.5	167300	18.21
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	167300	18.28
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	836.5	167300	18.20
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	18.24
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	836.5	165300	18.25
15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	25@12	836.5	167300	18.00
15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	36@18	836.5	167300	18.21

n7-Power Level B1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	16.39
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535	507000	16.46
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	16.68
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2510	502000	16.41
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535	507000	16.47
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2560	512000	16.52
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	2567.5	513500	16.62
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	2567.5	513500	16.61
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	2567.5	513500	16.59
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	2567.5	513500	16.61
15	5	CP-OFDM QPSK	Inner_Full	13@6	2567.5	513500	16.59
15	5	CP-OFDM 16QAM	Inner_Full	13@6	2567.5	513500	16.61
15	5	CP-OFDM 64QAM	Inner_Full	13@6	2567.5	513500	16.61
15	5	CP-OFDM 256QAM	Inner_Full	13@6	2567.5	513500	16.58
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	2567.5	513500	16.56
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2567.5	513500	16.66
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	2567.5	513500	16.67
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2567.5	513500	16.60
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	2567.5	513500	16.61
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2565	512064	16.56
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2562.5	511078	16.66

n7-Power Level D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	17.50
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535	507000	17.58
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	17.75
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2510	502000	17.53
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535	507000	17.59
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2560	512000	17.64
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	2567.5	513500	17.63
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	2567.5	513500	17.56
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	2567.5	513500	17.54
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	2567.5	513500	17.56
15	5	CP-OFDM QPSK	Inner_Full	13@6	2567.5	513500	17.53
15	5	CP-OFDM 16QAM	Inner_Full	13@6	2567.5	513500	17.63
15	5	CP-OFDM 64QAM	Inner_Full	13@6	2567.5	513500	17.56
15	5	CP-OFDM 256QAM	Inner_Full	13@6	2567.5	513500	17.00
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	2567.5	513500	17.41
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2567.5	513500	17.51
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	2567.5	513500	17.53
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2567.5	513500	17.57
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	2567.5	513500	17.57
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2565	512064	17.41
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2562.5	511078	17.52

n25-Power Level A1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	20.11
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	20.18
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1860	370500	20.05
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1905	381000	20.11
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	20.08
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	20.07
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1882.5	376500	20.16
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1882.5	376500	20.13
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1882.5	376500	20.10
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1882.5	376500	18.60
15	5	CP-OFDM QPSK	Inner_Full	13@6	1882.5	376500	20.09
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1882.5	376500	20.16
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1882.5	376500	19.60
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1882.5	376500	16.66
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1882.5	376500	20.05
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1882.5	376500	20.04
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1882.5	370500	20.02
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1882.5	370500	20.00
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1882.5	370500	20.08
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1882.5	376500	19.93
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1882.5	376500	20.08

n25-Power Level B1/D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	16.68
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	17.03
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	16.86
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1905	381000	16.74
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	16.89
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	16.85
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1882.5	376500	16.90
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1882.5	376500	16.91
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1882.5	376500	16.89
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1882.5	376500	16.90
15	5	CP-OFDM QPSK	Inner_Full	13@6	1882.5	376500	16.88
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1882.5	376500	17.00
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1882.5	376500	16.90
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1882.5	376500	16.37
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1882.5	376500	16.89
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1882.5	376500	16.88
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1882.5	370500	16.83
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1882.5	370500	16.92
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1882.5	370500	16.90
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1882.5	376500	16.76
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1882.5	376500	16.85



n25-Power Level C1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	23.48
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	23.52
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1860	370500	23.41
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1905	381000	23.48
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	23.45
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	23.44
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1882.5	376500	23.49
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1882.5	376500	22.48
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1882.5	376500	20.96
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1882.5	376500	18.92
15	5	CP-OFDM QPSK	Inner_Full	13@6	1882.5	376500	21.94
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1882.5	376500	21.54
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1882.5	376500	19.93
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1882.5	376500	16.99
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1882.5	376500	22.43
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1882.5	376500	22.46
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1882.5	370500	23.44
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1882.5	370500	23.42
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1882.5	370500	22.49
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1882.5	376500	23.33
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1882.5	376500	23.46

n41-Power Level A1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	20.81
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	20.70
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	20.68
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	20.68
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	20.71
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	20.63
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	20.68
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	20.59
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	20.60
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	20.62
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2679.99	535998	20.8
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2679.99	535998	20.79
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2679.99	535998	20.75
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2679.99	535998	19.33
30	20	CP-OFDM QPSK	Inner_Full	25@12	2679.99	535998	20.80
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2679.99	535998	20.80
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2679.99	535998	20.28
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2679.99	535998	17.32
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	2679.99	535998	20.73
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2679.99	535998	20.75
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	2679.99	535998	20.73
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2679.99	535998	20.76
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	2679.99	535998	20.80
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2670	534000	20.71
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2659.98	531996	20.77

n41-Power Level B1/D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	17.68
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	17.65
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	17.64
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	17.55
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	17.49
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	17.56
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	17.57
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	17.53
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	17.49
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	17.47
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2679.99	535998	17.59
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2679.99	535998	17.6
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2679.99	535998	17.54
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2679.99	535998	17.62
30	20	CP-OFDM QPSK	Inner_Full	25@12	2679.99	535998	17.59
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2679.99	535998	17.65
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2679.99	535998	17.59
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2679.99	535998	17.19
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	2679.99	535998	17.53
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2679.99	535998	17.6
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	2679.99	535998	17.52
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2679.99	535998	17.59
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	2679.99	535998	17.63
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2670	534000	17.57
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2659.98	531996	17.58

n41-Power Level C1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	23.56
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	23.35
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	23.23
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	23.12
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	23.15
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	23.29
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	23.27
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	23.18
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	23.13
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	23.08
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2679.99	535998	23.53
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2679.99	535998	22.72
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2679.99	535998	21.16
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2679.99	535998	19.18
30	20	CP-OFDM QPSK	Inner_Full	25@12	2679.99	535998	22.18
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2679.99	535998	21.73
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2679.99	535998	20.12
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2679.99	535998	17.14
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	2679.99	535998	22.67
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2679.99	535998	22.55
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	2679.99	535998	23.55
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2679.99	535998	23.44
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	2679.99	535998	22.69
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2670	534000	23.43
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2659.98	531996	23.35

n66-Power Level A1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	18.23
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	18.25
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	18.20
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	18.19
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	18.22
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	18.16
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	18.23
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	18.21
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	18.19
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	18.20
15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	18.19
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	18.24
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	18.19
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	16.66
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	18.14
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	18.11
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	18.10
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	18.14
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	18.17
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	342064	18.04
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	347578	18.16
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	346120	18.17
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	345112	18.14

n66-Power Level B1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	15.77
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	15.88
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	15.79
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	15.77
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	15.73
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	15.80
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	15.84
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	15.83
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	15.82
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	15.8
15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	15.8
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	15.82
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	15.78
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	15.79
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	15.76
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	15.78
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	15.77
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	15.78
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	15.8
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	342064	15.71
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	347578	15.77
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	346120	15.8
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	345112	15.8

n66-Power Level C1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	22.03
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	22.12
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	22.05
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	22.03
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	21.97
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	22.06
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	22.07
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	22.08
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	20.56
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	18.53
15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	21.59
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	21.16
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	19.57
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	16.6
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	22.02
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	22.05
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	22.04
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	22.05
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	22.07
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	342064	21.95
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	347578	22.04
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	346120	22.08
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	345112	22.07

n66-Power Level D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	16.73
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	16.87
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	16.75
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	16.73
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	16.69
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	16.75
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	16.80
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	16.85
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	16.82
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	16.84
15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	16.84
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	16.85
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	16.82
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	16.4
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	16.77
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	16.79
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	16.79
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	16.79
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	16.81
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	342064	16.72
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	347578	16.79
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	346120	16.82
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	345112	16.81

n71-Power Level A1/B1/C1/D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	695.5	139100	23.41
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	680.5	136100	23.46
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	665.5	133100	23.42
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	688	137600	23.34
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	680.5	136100	23.39
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	673	134600	23.32
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	680.5	136100	23.42
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	680.5	136100	22.61
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	680.5	136100	21.04
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	680.5	136100	19.04
15	5	CP-OFDM QPSK	Inner_Full	13@6	680.5	136100	22.05
15	5	CP-OFDM 16QAM	Inner_Full	13@6	680.5	136100	21.64
15	5	CP-OFDM 64QAM	Inner_Full	13@6	680.5	136100	20.07
15	5	CP-OFDM 256QAM	Inner_Full	13@6	680.5	136100	16.91
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	680.5	136100	22.53
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	680.5	136100	22.44
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	680.5	136100	23.31
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	680.5	136100	23.29
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	680.5	136100	22.54
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	680.5	136100	23.19
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	680.5	136100	23.34

n77(3450~3550MHz)-Power Level A1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	17.22
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	17.04
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	17.50
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	17.10
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	17.11
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3460.02	630668	17.45
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3460.02	630668	17.49
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3460.02	630668	17.44
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3460.02	630668	17.49
30	20	CP-OFDM QPSK	Inner_Full	25@12	3460.02	630668	17.47
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3460.02	630668	17.48
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3460.02	630668	17.46
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3460.02	630668	17.49
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3460.02	630668	17.28
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3460.02	630668	17.43
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3460.02	630668	17.20
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3460.02	630668	17.42
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3460.02	630668	17.48
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3460.02	630668	17.47
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3460.02	630668	17.41
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3460.02	630668	17.44
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3460.02	630668	17.39
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3460.02	630668	17.35

n77(3700~3980MHz)-Power Level A1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	17.12
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	17.14
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	17.34
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	17.40
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	17.34
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	17.16
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	17.14
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	17.23
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	17.29
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	17.52
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	17.34
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	17.25
30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3822.000	654800	17.48
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	17.42
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	17.44
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	17.44
30	100	CP-OFDM QPSK	Inner_Full	135@67	3822.000	654800	17.43
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	17.50
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	17.42
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	17.42
30	100	CP-OFDM 16QAM	Edge_Full_Right	2@271	3822.000	654800	16.76
30	100	CP-OFDM 16QAM	Edge_Full_Left	2@0	3822.000	654800	16.36
30	100	CP-OFDM 16QAM	Inner_1RB_Right	1@271	3822.000	654800	16.77
30	100	CP-OFDM 16QAM	Inner_1RB_Left	1@1	3822.000	654800	16.36
30	100	CP-OFDM 16QAM	Outer_Full	270@0	3822.000	654800	17.29
30	100	CP-OFDM 16QAM	Edge_1RB_Left	1@0	3822.000	654800	16.35
30	100	CP-OFDM 16QAM	Edge_1RB_Right	1@272	3822.000	654800	16.76
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3822.000	654800	17.45
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3822.000	654800	17.42
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3822.000	654800	17.47
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3822.000	654800	17.40
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3822.000	654800	17.40

n77(3450-3550MHz)-Power Level B1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	12.35
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	12.09
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	12.48
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	12.11
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	12.09
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3460.02	630668	12.38
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3460.02	630668	12.40
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3460.02	630668	12.37
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3460.02	630668	12.42
30	20	CP-OFDM QPSK	Inner_Full	25@12	3460.02	630668	12.39
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3460.02	630668	12.46
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3460.02	630668	12.37
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3460.02	630668	12.41
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3460.02	630668	12.15
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3460.02	630668	12.33
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3460.02	630668	12.09
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3460.02	630668	12.27
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3460.02	630668	12.36
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3460.02	630668	12.35
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3460.02	630668	12.38
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3460.02	630668	12.31
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3460.02	630668	12.32
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3460.02	630668	12.34



n77(3700~3980MHz)-Power Level B1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	12.38
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	12.35
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	12.64
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	12.82
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	12.56
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	12.26
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	12.36
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	12.55
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	12.64
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	12.87
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	12.75
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	12.46
30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3822.000	654800	12.82
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	12.81
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	12.79
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	12.83
30	100	CP-OFDM QPSK	Inner_Full	135@67	3822.000	654800	12.80
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	12.85
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	12.79
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	12.80
30	100	CP-OFDM 16QAM	Edge_Full_Right	2@271	3822.000	654800	11.87
30	100	CP-OFDM 16QAM	Edge_Full_Left	2@0	3822.000	654800	11.80
30	100	CP-OFDM 16QAM	Inner_1RB_Right	1@271	3822.000	654800	12.24
30	100	CP-OFDM 16QAM	Inner_1RB_Left	1@1	3822.000	654800	12.15
30	100	CP-OFDM 16QAM	Outer_Full	270@0	3822.000	654800	12.62
30	100	CP-OFDM 16QAM	Edge_1RB_Left	1@0	3822.000	654800	12.10
30	100	CP-OFDM 16QAM	Edge_1RB_Right	1@272	3822.000	654800	12.18
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3822.000	654800	12.84
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3822.000	654800	12.83
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3822.000	654800	12.84
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3822.000	654800	12.79
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3822.000	654800	12.83

n77(3450-3550MHz)-Power Level C1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	18.23
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	18.11
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	18.52
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	18.10
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	18.02
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3460.02	630668	18.48
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3460.02	630668	18.47
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3460.02	630668	18.45
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3460.02	630668	18.46
30	20	CP-OFDM QPSK	Inner_Full	25@12	3460.02	630668	18.49
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3460.02	630668	18.48
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3460.02	630668	18.50
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3460.02	630668	18.48
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3460.02	630668	18.33
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3460.02	630668	18.46
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3460.02	630668	18.23
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3460.02	630668	18.37
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3460.02	630668	18.50
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3460.02	630668	18.48
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3460.02	630668	18.42
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3460.02	630668	18.45
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3460.02	630668	18.40
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3460.02	630668	18.35

n77(3700~3980MHz)-Power Level C1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	18.08
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	18.09
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	18.30
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	18.37
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	18.30
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	18.11
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	18.09
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	18.19
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	18.26
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	18.45
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	18.30
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	18.21
30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3822.000	654800	18.41
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	18.44
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	18.41
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	18.42
30	100	CP-OFDM QPSK	Inner_Full	135@67	3822.000	654800	18.41
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	18.42
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	18.40
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	18.40
30	100	CP-OFDM 16QAM	Edge_Full_Right	2@271	3822.000	654800	17.80
30	100	CP-OFDM 16QAM	Edge_Full_Left	2@0	3822.000	654800	17.50
30	100	CP-OFDM 16QAM	Inner_1RB_Right	1@271	3822.000	654800	17.84
30	100	CP-OFDM 16QAM	Inner_1RB_Left	1@1	3822.000	654800	17.47
30	100	CP-OFDM 16QAM	Outer_Full	270@0	3822.000	654800	18.27
30	100	CP-OFDM 16QAM	Edge_1RB_Left	1@0	3822.000	654800	17.44
30	100	CP-OFDM 16QAM	Edge_1RB_Right	1@272	3822.000	654800	17.80
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3822.000	654800	18.42
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3822.000	654800	18.42
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3822.000	654800	18.43
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3822.000	654800	18.39
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3822.000	654800	18.39

n77(3450-3550MHz)-Power Level D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	14.46
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	14.15
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	14.48
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	14.18
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	14.15
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3460.02	630668	14.43
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3460.02	630668	14.42
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3460.02	630668	14.41
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3460.02	630668	14.43
30	20	CP-OFDM QPSK	Inner_Full	25@12	3460.02	630668	14.43
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3460.02	630668	14.43
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3460.02	630668	14.44
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3460.02	630668	14.42
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3460.02	630668	14.19
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3460.02	630668	14.40
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3460.02	630668	14.12
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3460.02	630668	14.33
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3460.02	630668	14.43
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3460.02	630668	14.42
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3460.02	630668	14.45
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3460.02	630668	14.37
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3460.02	630668	14.39
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3460.02	630668	14.41

n77(3700~3980MHz)-Power Level D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		Frequency (dBm)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	14.34
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	14.31
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	14.64
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	14.85
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	14.55
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	14.20
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	14.32
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	14.54
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	14.64
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	14.87
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	14.77
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	14.43
30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3822.000	654800	14.80
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	14.78
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	14.76
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	14.81
30	100	CP-OFDM QPSK	Inner_Full	135@67	3822.000	654800	14.77
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3822.000	654800	14.83
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3822.000	654800	14.76
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3822.000	654800	14.77
30	100	CP-OFDM 16QAM	Edge_Full_Right	2@271	3822.000	654800	13.70
30	100	CP-OFDM 16QAM	Edge_Full_Left	2@0	3822.000	654800	13.62
30	100	CP-OFDM 16QAM	Inner_1RB_Right	1@271	3822.000	654800	14.13
30	100	CP-OFDM 16QAM	Inner_1RB_Left	1@1	3822.000	654800	14.02
30	100	CP-OFDM 16QAM	Outer_Full	270@0	3822.000	654800	14.56
30	100	CP-OFDM 16QAM	Edge_1RB_Left	1@0	3822.000	654800	13.96
30	100	CP-OFDM 16QAM	Edge_1RB_Right	1@272	3822.000	654800	14.06
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3822.000	654800	14.82
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3822.000	654800	14.81
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3822.000	654800	14.82
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3822.000	654800	14.76
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3822.000	654800	14.81

n78-Power Level A1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3795	653000	17.29
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3724.98	648332	16.87
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3654.99	643666	17.19
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3585	639000	17.22
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3515.01	634334	16.73
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3444.99	629666	17.14
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3375	625000	17.17
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3305.01	620334	17.04
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750	650000	17.00
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3692.85	646190	16.92
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3635.73	642382	17.29
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3578.58	638572	17.20
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3521.43	634762	16.82
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3464.31	630954	17.05
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3407.16	627144	17.39
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3350.01	623334	17.31
30	100	DFT-s-OFDM Pi/2 BPSK	Inner_Full	135_67	3407.16	627144	17.34
30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	3407.16	627144	17.35
30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	3407.16	627144	17.33
30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	3407.16	627144	17.31
30	100	CP-OFDM QPSK	Inner_Full	135_67	3407.16	627144	17.33
30	100	CP-OFDM 16QAM	Inner_Full	135_67	3407.16	627144	17.30
30	100	CP-OFDM 64QAM	Inner_Full	135_67	3407.16	627144	17.32
30	100	CP-OFDM 256QAM	Inner_Full	135_67	3407.16	627144	17.37
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@0	3407.16	627144	16.56
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@271	3407.16	627144	16.20
30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1@0	3407.16	627144	16.52
30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1@272	3407.16	627144	16.22
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	270@0	3407.16	627144	17.16
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3407.16	627144	16.54
30	100	DFT-s-OFDM QPSK	Outer_Full	1@271	3407.16	627144	16.22
30	15	DFT-s-OFDM QPSK	Inner_Full	19_9	3407.16	627144	17.33
30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3407.16	627144	17.34
30	25	DFT-s-OFDM QPSK	Inner_Full	33_16	3407.16	627144	17.35
30	30	DFT-s-OFDM QPSK	Inner_Full	39_19	3407.16	627144	17.28
30	40	DFT-s-OFDM QPSK	Inner_Full	53_26	3407.16	627144	17.35
30	50	DFT-s-OFDM QPSK	Inner_Full	67_33	3407.16	627144	17.31
30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3407.16	627144	17.35
30	70	DFT-s-OFDM QPSK	Inner_Full	95_47	3407.16	627144	17.28
30	80	DFT-s-OFDM QPSK	Inner_Full	109_54	3407.16	627144	17.25
30	90	DFT-s-OFDM QPSK	Inner_Full	123_61	3407.16	627144	17.35

n78-Power Level B1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3795	653000	12.72
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3724.98	648332	12.29
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3654.99	643666	12.52
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3585	639000	12.70
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3515.01	634334	12.12
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3444.99	629666	12.44
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3375	625000	12.75
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3305.01	620334	12.45
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750	650000	12.49
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3692.85	646190	12.27
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3635.73	642382	12.71
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3578.58	638572	12.74
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3521.43	634762	12.22
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3464.31	630954	12.33
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3407.16	627144	12.88
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3350.01	623334	12.62
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135_67	3407.16	627144	12.80
30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	3407.16	627144	12.74
30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	3407.16	627144	12.79
30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	3407.16	627144	12.82
30	100	CP-OFDM QPSK	Inner_Full	135_67	3407.16	627144	12.77
30	100	CP-OFDM 16QAM	Inner_Full	135_67	3407.16	627144	12.83
30	100	CP-OFDM 64QAM	Inner_Full	135_67	3407.16	627144	12.75
30	100	CP-OFDM 256QAM	Inner_Full	135_67	3407.16	627144	12.76
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@0	3407.16	627144	11.95
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@271	3407.16	627144	11.75
30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1@0	3407.16	627144	11.98
30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1@272	3407.16	627144	11.72
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	270@0	3407.16	627144	12.55
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3407.16	627144	11.99
30	100	DFT-s-OFDM QPSK	Outer_Full	1@271	3407.16	627144	11.73
30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3407.16	627144	12.41
30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3407.16	627144	12.76
30	25	DFT-s-OFDM QPSK	Inner_Full	33_16	3407.16	627144	12.73
30	30	DFT-s-OFDM QPSK	Inner_Full	39_19	3407.16	627144	12.80
30	40	DFT-s-OFDM QPSK	Inner_Full	53_26	3407.16	627144	12.77
30	50	DFT-s-OFDM QPSK	Inner_Full	67_33	3407.16	627144	12.73
30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3407.16	627144	12.73
30	70	DFT-s-OFDM QPSK	Inner_Full	95_47	3407.16	627144	12.81
30	80	DFT-s-OFDM QPSK	Inner_Full	109_54	3407.16	627144	12.79
30	90	DFT-s-OFDM QPSK	Inner_Full	123_61	3407.16	627144	12.80

n78-Power Level C1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3795	653000	18.34
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3724.98	648332	17.93
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3654.99	643666	18.25
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3585	639000	18.23
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3515.01	634334	17.74
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3444.99	629666	18.23
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3375	625000	18.21
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3305.01	620334	18.04
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750	650000	18.03
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3692.85	646190	18.00
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3635.73	642382	18.31
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3578.58	638572	18.27
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3521.43	634762	17.92
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3464.31	630954	18.09
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3407.16	627144	18.45
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3350.01	623334	18.41
30	100	DFT-s-OFDM Pi/2 BPSK	Inner_Full	135_67	3407.16	627144	18.41
30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	3407.16	627144	18.39
30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	3407.16	627144	18.38
30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	3407.16	627144	18.31
30	100	CP-OFDM QPSK	Inner_Full	135_67	3407.16	627144	18.33
30	100	CP-OFDM 16QAM	Inner_Full	135_67	3407.16	627144	18.32
30	100	CP-OFDM 64QAM	Inner_Full	135_67	3407.16	627144	18.34
30	100	CP-OFDM 256QAM	Inner_Full	135_67	3407.16	627144	18.42
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@0	3407.16	627144	17.60
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@271	3407.16	627144	17.22
30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1@0	3407.16	627144	17.62
30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1@272	3407.16	627144	17.27
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	270@0	3407.16	627144	18.16
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3407.16	627144	17.56
30	100	DFT-s-OFDM QPSK	Outer_Full	1@271	3407.16	627144	17.32
30	15	DFT-s-OFDM QPSK	Inner_Full	19_9	3407.16	627144	18.40
30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3407.16	627144	18.39
30	25	DFT-s-OFDM QPSK	Inner_Full	33_16	3407.16	627144	18.35
30	30	DFT-s-OFDM QPSK	Inner_Full	39_19	3407.16	627144	18.31
30	40	DFT-s-OFDM QPSK	Inner_Full	53_26	3407.16	627144	18.42
30	50	DFT-s-OFDM QPSK	Inner_Full	67_33	3407.16	627144	18.39
30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3407.16	627144	18.44
30	70	DFT-s-OFDM QPSK	Inner_Full	95_47	3407.16	627144	18.30
30	80	DFT-s-OFDM QPSK	Inner_Full	109_54	3407.16	627144	18.25
30	90	DFT-s-OFDM QPSK	Inner_Full	123_61	3407.16	627144	18.39



n78-Power Level D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3795	653000	13.69
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3724.98	648332	13.23
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3654.99	643666	13.48
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3585	639000	13.67
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3515.01	634334	13.05
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3444.99	629666	13.39
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3375	625000	13.73
30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3305.01	620334	13.40
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750	650000	13.45
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3692.85	646190	13.21
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3635.73	642382	13.68
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3578.58	638572	13.72
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3521.43	634762	13.16
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3464.31	630954	13.27
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3407.16	627144	13.81
30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3350.01	623334	13.59
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135_67	3407.16	627144	13.77
30	100	DFT-s-OFDM 16QAM	Inner_Full	135_67	3407.16	627144	13.71
30	100	DFT-s-OFDM 64QAM	Inner_Full	135_67	3407.16	627144	13.76
30	100	DFT-s-OFDM 256QAM	Inner_Full	135_67	3407.16	627144	13.79
30	100	CP-OFDM QPSK	Inner_Full	135_67	3407.16	627144	13.74
30	100	CP-OFDM 16QAM	Inner_Full	135_67	3407.16	627144	13.80
30	100	CP-OFDM 64QAM	Inner_Full	135_67	3407.16	627144	13.72
30	100	CP-OFDM 256QAM	Inner_Full	135_67	3407.16	627144	13.73
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@0	3407.16	627144	12.86
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@271	3407.16	627144	12.64
30	100	DFT-s-OFDM QPSK	Edge_1RB_Right	1@0	3407.16	627144	12.89
30	100	DFT-s-OFDM QPSK	Edge_1RB_Left	1@272	3407.16	627144	12.61
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	270@0	3407.16	627144	13.50
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3407.16	627144	12.90
30	100	DFT-s-OFDM QPSK	Outer_Full	1@271	3407.16	627144	12.62
30	15	DFT-s-OFDM QPSK	Inner_Full	19_9	3407.16	627144	13.35
30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3407.16	627144	13.73
30	25	DFT-s-OFDM QPSK	Inner_Full	33_16	3407.16	627144	13.69
30	30	DFT-s-OFDM QPSK	Inner_Full	39_19	3407.16	627144	13.77
30	40	DFT-s-OFDM QPSK	Inner_Full	53_26	3407.16	627144	13.74
30	50	DFT-s-OFDM QPSK	Inner_Full	67_33	3407.16	627144	13.69
30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3407.16	627144	13.69
30	70	DFT-s-OFDM QPSK	Inner_Full	95_47	3407.16	627144	13.78
30	80	DFT-s-OFDM QPSK	Inner_Full	109_54	3407.16	627144	13.76
30	90	DFT-s-OFDM QPSK	Inner_Full	123_61	3407.16	627144	13.77

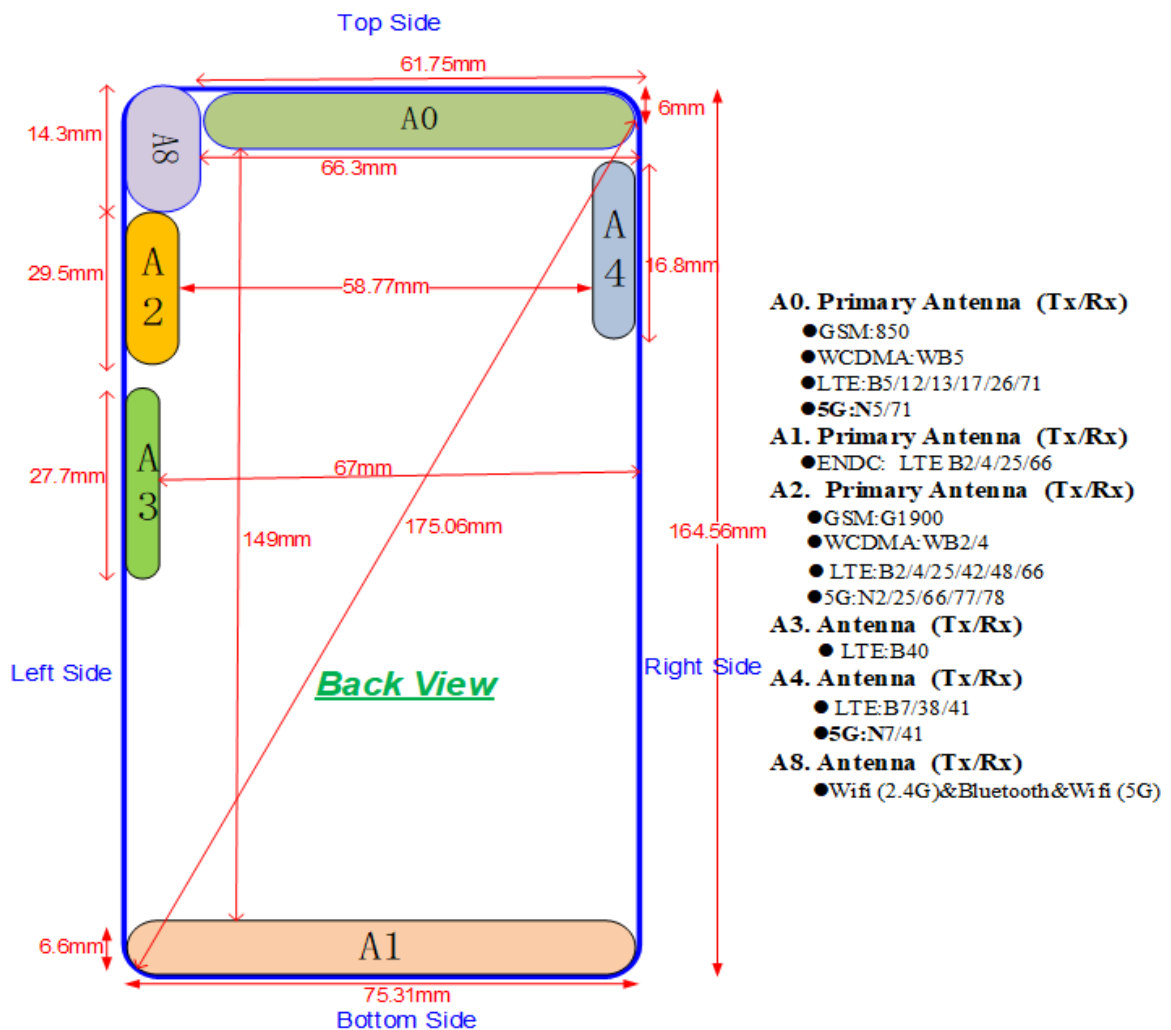
## 12 Simultaneous TX SAR Considerations

### 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 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	Right	Top	Bottom
ANT1	Yes	Yes	Yes	Yes	No	Yes
ANT2	Yes	Yes	No	Yes	Yes	No
ANT4	Yes	Yes	Yes	No	Yes	No
ANT8	Yes	Yes	No	Yes	Yes	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
<b>Highest SAR value for Head</b>	Left head, Cheek (GSM1900)	1.14	0.26	<b>1.40</b>
<b>Highest SAR value for Body</b>	Right 10mm (LTE B66 ANT2)	1.14	0.16	<b>1.30</b>

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

	Position	Main antenna	WiFi-5G	BT	Sum
<b>Highest SAR value for Head</b>	Left head, Cheek (GSM1900)	1.14	0.19	<0.01	<b>1.33</b>
<b>Highest SAR value for Body</b>	Right 10mm (LTE B66 ANT2)	1.14	0.15	<0.01	<b>1.29</b>

**Table 13.3: The SAR values for ENDC**

	LTE	NR	Mode	Position	Reported SAR 1g(W/kg)	
ENDC	LTE B12-ANT0	N2	Head	Left Cheek	<b>0.60(0.31+0.29)</b>	
			Body	Right 10mm	<b>0.46(0.17+0.29)</b>	
		n41	Head	Right Cheek	<b>0.80(0.34+0.46)</b>	
			Body	Left 10mm	<b>0.34(0.20+0.14)</b>	
		N25	Head	Left Cheek	<b>0.63(0.31+0.32)</b>	
			Body	Right 10mm	<b>0.40(0.17+0.23)</b>	
		N66	Head	Left Cheek	<b>0.60(0.31+0.29)</b>	
			Body	Right 10mm	<b>0.33(0.17+0.16)</b>	
		N77	Head	Left Cheek	<b>0.75(0.31+0.44)</b>	
			Body	Right 10mm	<b>0.52(0.17+0.35)</b>	
		LTE B13-ANT0	n2	Head	Left Cheek	<b>0.78(0.49+0.29)</b>
				Body	Rear 10mm	<b>0.47(0.25+0.22)</b>
	N66	Head	Left Cheek	<b>0.78(0.49+0.29)</b>		
		Body	Rear 10mm	<b>0.38(0.25+0.13)</b>		

		n77	Head	Left Cheek	<b>0.93(0.49+0.44)</b>
			Body	Right 10mm	<b>0.53(0.18+0.35)</b>
	LTE B66-ANT1	n2	Head	Left Cheek	<b>0.53(0.24+0.29)</b>
			Body	Rear 10mm	<b>0.50(0.28+0.22)</b>
		N5	Head	Left Cheek	<b>0.53(0.24+0.29)</b>
			Body	Rear 10mm	<b>0.53(0.28+0.25)</b>
		N7	Head	Right Cheek	<b>0.48(0.17+0.31)</b>
			Body	Rear 10mm	<b>0.46(0.28+0.18)</b>
		N41	Head	Right Cheek	<b>0.63(0.17+0.46)</b>
			Body	Bottom	<b>0.44(0.44+0.00)</b>
		N25	Head	Left Cheek	<b>0.56(0.24+0.32)</b>
			Body	Bottom	<b>0.44(0.44+0.00)</b>
		N66	Head	Left Cheek	<b>0.53(0.24+0.29)</b>
			Body	Bottom	<b>0.44(0.44+0.00)</b>
		N71	Head	Left Cheek	<b>0.64(0.24+0.40)</b>
			Body	Rear 10mm	<b>0.55(0.28+0.27)</b>
		N77	Head	Left Cheek	<b>0.68(0.24+0.44)</b>
			Body	Rear 10mm	<b>0.54(0.28+0.26)</b>
	N78	Head	Left Cheek	<b>0.57(0.24+0.33)</b>	
		Body	Rear 10mm	<b>0.49(0.28+0.21)</b>	
	LTE B2-ANT1	N5	Head	Left Cheek	<b>0.41(0.12+0.29)</b>
			Body	Rear 10mm	<b>0.39(0.14+0.25)</b>
		N7	Head	Right Cheek	<b>0.37(0.06+0.31)</b>
			Body	Rear 10mm	<b>0.32(0.14+0.18)</b>
		N41	Head	Right Cheek	<b>0.52(0.06+0.46)</b>
			Body	Rear 10mm	<b>0.26(0.14+0.12)</b>
		N66	Head	Left Cheek	<b>0.41(0.12+0.29)</b>
			Body	Rear 10mm	<b>0.27(0.14+0.13)</b>
		N71	Head	Left Cheek	<b>0.52(0.12+0.40)</b>
			Body	Rear 10mm	<b>0.41(0.14+0.27)</b>
		N77	Head	Left Cheek	<b>0.56(0.12+0.44)</b>
			Body	Rear 10mm	<b>0.40(0.14+0.26)</b>
	LTE B7-ANT4	N5	Head	Right Cheek	<b>0.59(0.28+0.31)</b>
			Body	Rear 10mm	<b>0.49(0.24+0.25)</b>
		N25	Head	Left Cheek	<b>0.39(0.07+0.32)</b>
			Body	Rear 10mm	<b>0.38(0.24+0.14)</b>
		N66	Head	Right Cheek	<b>0.37(0.28+0.09)</b>
			Body	Rear 10mm	<b>0.37(0.24+0.13)</b>
		N71	Head	Right Cheek	<b>0.72(0.28+0.44)</b>
			Body	Right 10mm	<b>0.55(0.27+0.28)</b>
		N77	Head	Left Cheek	<b>0.51(0.07+0.44)</b>
			Body	Rear 10mm	<b>0.50(0.24+0.26)</b>
		N78	Head	Left Cheek	<b>0.40(0.07+0.33)</b>
			Body	Rear 10mm	<b>0.45(0.24+0.21)</b>
	LTE B25-ANT1	N41	Head	Right Cheek	<b>0.54(0.08+0.46)</b>
			Body	Rear 10mm	<b>0.28(0.16+0.12)</b>

		N77	Head	Left Cheek	<b>0.57(0.13+0.44)</b>
			Body	Rear 10mm	<b>0.42(0.16+0.26)</b>
		N78	Head	Left Cheek	<b>0.46(0.13+0.33)</b>
			Body	Right 10mm	<b>0.44(0.04+0.40)</b>
	LTE B71-ANT0	N2	Head	Left Cheek	<b>0.60(0.31+0.29)</b>
			Body	Right 10mm	<b>0.43(0.14+0.29)</b>
		N41	Head	Right Cheek	<b>0.81(0.35+0.46)</b>
			Body	Left 10mm	<b>0.29(0.15+0.14)</b>
		N66	Head	Left Cheek	<b>0.60(0.31+0.29)</b>
			Body	Right 10mm	<b>0.30(0.14+0.16)</b>
	N78	Head	Left Cheek	<b>0.64(0.31+0.33)</b>	
		Body	Right 10mm	<b>0.54(0.14+0.40)</b>	
	LTE B5-ANT0	N2	Head	Left Cheek	<b>0.63(0.34+0.29)</b>
			Body	Right 10mm	<b>0.35(0.06+0.29)</b>
		N66	Head	Left Cheek	<b>0.63(0.34+0.29)</b>
			Body	Rear 10mm	<b>0.24(0.11+0.13)</b>
		N77	Head	Left Cheek	<b>0.78(0.34+0.44)</b>
			Body	Right 10mm	<b>0.41(0.06+0.35)</b>
		N78	Head	Left Cheek	<b>0.67(0.34+0.33)</b>
			Body	Right 10mm	<b>0.46(0.06+0.40)</b>
LTE B38-ANT4	N78	Head	Left Cheek	<b>0.38(0.05+0.33)</b>	
		Body	Rear 10mm	<b>0.40(0.19+0.21)</b>	

**Conclusion:**

According to the above tables, the sum of reported SAR values is <math>1.6\text{W/kg}</math>. 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:

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

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

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

**Table 14.1: Duty Cycle**

Mode	Duty Cycle
GPRS&EGPRS for GSM 850&GSM1900	1:2.67
WCDMA&LTE FDD&5G NR FDD	1:1
LTE TDD	1:1.58
5G NR TDD	1:1

**14.1 SAR results for 2G/3G/4G**
**Table 14.1-1: SAR Values (GSM 850 MHz Band - Head)**

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C											
251	848.8	Left	Cheek	/	28.47	28.7	0.678	<b>0.71</b>	0.912	<b>0.96</b>	0.09
190	836.6	Left	Cheek	/	28.59	28.7	0.656	<b>0.67</b>	0.886	<b>0.91</b>	0.12
128	824.2	Left	Cheek	/	28.66	28.7	0.637	<b>0.64</b>	0.833	<b>0.84</b>	-0.11
190	836.6	Left	Tilt	/	28.59	28.7	0.464	<b>0.48</b>	0.722	<b>0.74</b>	0.06
251	848.8	Right	Cheek	Fig.1	28.47	28.7	0.758	<b>0.80</b>	1.09	<b>1.15</b>	-0.18
190	836.6	Right	Cheek	/	28.59	28.7	0.755	<b>0.77</b>	1.04	<b>1.07</b>	-0.11
128	824.2	Right	Cheek	/	28.66	28.7	0.706	<b>0.71</b>	1	<b>1.01</b>	0.12
190	836.6	Right	Tilt	/	28.59	28.7	0.503	<b>0.52</b>	0.895	<b>0.92</b>	0.06

Note: the head SAR of GSM850 is tested with GPRS (3Txslots) mode because of VoIP.

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

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										
Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C											
190	836.6	GPRS (3)	Front	/	28.59	28.7	0.172	<b>0.18</b>	0.251	<b>0.26</b>	-0.11
251	848.8	GPRS (3)	Rear	Fig.2	28.47	28.7	0.188	<b>0.20</b>	0.282	<b>0.30</b>	-0.17
190	836.6	GPRS (3)	Rear	/	28.59	28.7	0.178	<b>0.18</b>	0.259	<b>0.27</b>	0.06
128	824.2	GPRS (3)	Rear	/	28.66	28.7	0.141	<b>0.14</b>	0.21	<b>0.21</b>	-0.12
190	836.6	GPRS (3)	Left	/	28.59	28.7	0.116	<b>0.12</b>	0.169	<b>0.17</b>	0.07
190	836.6	GPRS (3)	Right	/	28.59	28.7	0.098	<b>0.10</b>	0.143	<b>0.15</b>	0.12
190	836.6	GPRS (3)	Top	/	28.59	28.7	0.138	<b>0.14</b>	0.218	<b>0.22</b>	0.13
251	848.8	EGPRS (3)	Rear	/	28.43	28.7	0.18	<b>0.19</b>	0.264	<b>0.28</b>	0.05

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

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

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C											
810	1909.8	Left	Cheek	/	25.37	25.5	0.52	<b>0.54</b>	1.03	<b>1.06</b>	-0.11
661	1880	Left	Cheek	Fig.3	25.39	25.5	0.566	<b>0.58</b>	1.11	<b>1.14</b>	0.02
512	1850.2	Left	Cheek	/	25.36	25.5	0.511	<b>0.53</b>	1.01	<b>1.04</b>	0.13
661	1880	Left	Tilt	/	25.39	25.5	0.233	<b>0.24</b>	0.478	<b>0.49</b>	0.07
661	1880	Right	Cheek	/	25.39	25.5	0.28	<b>0.29</b>	0.499	<b>0.51</b>	0.18

661	1880	Right	Tilt	/	25.39	25.5	0.161	<b>0.17</b>	0.299	<b>0.31</b>	0.06
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Note: the head SAR of GSM1900 is tested with GPRS (3Txslots) mode because of VoIP.

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

Ambient Temperature: 22.9 °C      Liquid Temperature: 22.5°C											
Frequency		Mode (number of timeslots)	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune- up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)( W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (3)	Front	/	25.36	25.5	0.13	<b>0.13</b>	0.235	<b>0.24</b>	-0.12
810	1909.8	GPRS (3)	Rear	/	25.37	25.5	0.294	<b>0.30</b>	0.594	<b>0.61</b>	-0.06
661	1880	GPRS (3)	Rear	Fig.4	25.36	25.5	0.303	<b>0.31</b>	0.611	<b>0.63</b>	0.01
512	1850.2	GPRS (3)	Rear	/	25.36	25.5	0.258	<b>0.27</b>	0.516	<b>0.53</b>	0.13
661	1880	GPRS (3)	Left	/	25.36	25.5	0.250	<b>0.26</b>	0.484	<b>0.50</b>	-0.11
661	1880	GPRS (3)	Right	/	25.36	25.5	0.037	<b>0.04</b>	0.064	<b>0.07</b>	0.12
661	1880	GPRS (3)	Top	/	25.39	25.5	0.291	<b>0.30</b>	0.598	<b>0.61</b>	0.03
661	1880	EGPRS (3)	Rear	/	25.36	25.5	0.13	<b>0.13</b>	0.235	<b>0.24</b>	-0.12

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

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

Ambient Temperature: 22.9 °C      Liquid Temperature: 22.5°C											
Frequency		Side	Test Position	Figur e No.	Conducted Power (dBm)	Max. tune- up Power (dBm)	Measure d SAR(10g ) (W/kg)	Reported SAR(10g ) (W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9538	1907.6	Left	Cheek	/	20.16	20.5	0.28	<b>0.30</b>	0.55	<b>0.59</b>	0.12
9400	1880	Left	Cheek	/	20.19	20.5	0.326	<b>0.35</b>	0.668	<b>0.72</b>	-0.11
9262	1852.4	Left	Cheek	Fig.5	20.26	20.5	0.374	<b>0.40</b>	0.729	<b>0.77</b>	0.07
9400	1880	Left	Tilt	/	20.19	20.5	0.115	<b>0.12</b>	0.229	<b>0.25</b>	0.05
9400	1880	Right	Cheek	/	20.19	20.5	0.144	<b>0.15</b>	0.236	<b>0.25</b>	-0.06
9400	1880	Right	Tilt	/	20.19	20.5	0.076	<b>0.08</b>	0.135	<b>0.14</b>	0.07

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

Ambient Temperature: 22.9 °C      Liquid Temperature: 22.5°C											
Frequency		Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz										
9400	1880	Front	/	23.2	24	0.201	<b>0.24</b>	0.359	<b>0.43</b>	-0.02	
9400	1880	Rear	/	23.2	24	0.345	<b>0.41</b>	0.587	<b>0.71</b>	-0.11	
9538	1907.6	Right	/	23.15	24	0.352	<b>0.43</b>	0.672	<b>0.82</b>	0.12	
9400	1880	Right	/	23.2	24	0.426	<b>0.51</b>	0.804	<b>0.97</b>	-0.07	
9262	1852.4	Right	Fig.6	23.35	24	0.483	<b>0.56</b>	0.916	<b>1.06</b>	-0.08	
9400	1880	Top	/	23.2	24	0.095	<b>0.11</b>	0.16	<b>0.19</b>	0.07	

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



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

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1312	1712.4	Left	Cheek	/	19.93	20.5	0.346	<b>0.39</b>	0.706	<b>0.81</b>	-0.11
1513	1752.6	Left	Cheek	Fig.7	19.96	20.5	0.453	<b>0.51</b>	0.921	<b>1.04</b>	0.02
1412	1732.4	Left	Cheek	/	20.06	20.5	0.388	<b>0.43</b>	0.786	<b>0.87</b>	0.06
1412	1732.4	Left	Tilt	/	19.96	20.5	0.127	<b>0.14</b>	0.263	<b>0.30</b>	0.13
1412	1732.4	Right	Cheek	/	19.96	20.5	0.126	<b>0.14</b>	0.215	<b>0.24</b>	-0.08
1412	1732.4	Right	Tilt	/	19.96	20.5	0.093	<b>0.11</b>	0.168	<b>0.19</b>	-0.03

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

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	1732.4	Front	/	23.05	24	0.18	<b>0.22</b>	0.318	<b>0.40</b>	-0.11
1412	1732.4	Rear	/	23.05	24	0.269	<b>0.33</b>	0.49	<b>0.61</b>	-0.06
1513	1752.6	Right	Fig.8	23.17	24	0.408	<b>0.49</b>	0.76	<b>0.92</b>	-0.02
1412	1732.4	Right	/	23.05	24	0.381	<b>0.47</b>	0.728	<b>0.91</b>	0.03
1312	1712.4	Right	/	23.12	24	0.329	<b>0.40</b>	0.61	<b>0.75</b>	0.05
1412	1732.4	Top	/	23.05	24	0.101	<b>0.13</b>	0.171	<b>0.21</b>	0.12

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

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

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4183	836.6	Left	Cheek	/	23.49	24	0.489	<b>0.55</b>	0.705	<b>0.79</b>	-0.11
4183	836.6	Left	Tilt	/	23.49	24	0.352	<b>0.40</b>	0.602	<b>0.68</b>	-0.13
4183	836.6	Right	Cheek	/	23.65	24	0.518	<b>0.56</b>	0.755	<b>0.82</b>	0.06
4233	846.6	Right	Cheek	Fig.9	23.49	24	0.602	<b>0.68</b>	0.862	<b>0.97</b>	0.08
4132	826.4	Right	Cheek	/	23.55	24	0.591	<b>0.66</b>	0.827	<b>0.92</b>	-0.01
4183	836.6	Right	Tilt	/	23.49	24	0.368	<b>0.41</b>	0.671	<b>0.75</b>	-0.14

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

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C		Power Drift (dB)
Ch.	MHz					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
4183	836.6	Front	/	23.49	24	0.13	<b>0.15</b>	0.188	<b>0.21</b>	0.16
4233	846.6	Rear	/	23.65	24	0.15	<b>0.16</b>	0.192	<b>0.21</b>	-0.04
4183	836.6	Rear	/	23.49	24	0.168	<b>0.19</b>	0.217	<b>0.24</b>	-0.12
4132	826.4	Rear	Fig.10	23.55	24	0.177	<b>0.20</b>	0.229	<b>0.25</b>	-0.01
4183	836.6	Left	/	23.49	24	0.119	<b>0.13</b>	0.166	<b>0.19</b>	0.05
4183	836.6	Right	/	23.49	24	0.103	<b>0.12</b>	0.144	<b>0.16</b>	-0.03
4183	836.6	Top	/	23.49	24	0.063	<b>0.07</b>	0.116	<b>0.13</b>	0.09

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

**Table 14.1-11: SAR Values (LTE Band2 ANT1 - Head)**

Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C		Power Drift (dB)
Ch.	MHz								Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(1g) (W/kg)	
19100	1900	1RB-Mid	Left	Tilt	Fig.11	24.05	24.5	0.065	<b>0.07</b>	0.104	<b>0.12</b>	-0.19	
19100	1900	1RB-Mid	Right	Cheek	/	24.05	24.5	0.035	<b>0.04</b>	0.06	<b>0.07</b>	-0.06	
19100	1900	1RB-Mid	Right	Tilt	/	24.05	24.5	0.036	<b>0.04</b>	0.056	<b>0.06</b>	0.06	
18700	1860	50RB-Low	Left	Cheek	/	24.05	24.5	0.032	<b>0.04</b>	0.054	<b>0.06</b>	-0.11	
18700	1860	50RB-Low	Left	Tilt	/	23.05	23.5	0.049	<b>0.05</b>	0.082	<b>0.09</b>	0.16	
18700	1860	50RB-Low	Right	Cheek	/	23.05	23.5	0.03	<b>0.03</b>	0.052	<b>0.06</b>	-0.11	
18700	1860	50RB-Low	Right	Tilt	/	23.05	23.5	0.029	<b>0.03</b>	0.046	<b>0.05</b>	0.06	

Note1: The LTE mode is QPSK\_20MHz.

Note2: All the results are for ENDC only.

**Table 14.1-12: SAR Values (LTE Band2 ANT1 – Body)**

Frequency		Mode	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
19100	1900	1RB-Mid Front	/	15.57	16	0.045	<b>0.05</b>	0.076	<b>0.08</b>	-0.13
19100	1900	1RB-Mid Rear	/	15.57	16	0.072	<b>0.08</b>	0.128	<b>0.14</b>	0.02
19100	1900	1RB-Mid Left	/	15.57	16	<0.01	<0.01	<0.01	<0.01	/
19100	1900	1RB-Mid Right	/	15.57	16	<0.01	<0.01	<0.01	<0.01	/
19100	1900	1RB-Mid Bottom	Fig.12	15.57	16	0.0801	<b>0.09</b>	0.144	<b>0.16</b>	0.07
19100	1900	50RB-Low Front	/	15.65	16	0.035	<b>0.04</b>	0.062	<b>0.07</b>	0.03
19100	1900	50RB-Low Rear	/	15.65	16	0.065	<b>0.07</b>	0.117	<b>0.13</b>	-0.14
19100	1900	50RB-Low Left	/	15.65	16	<0.01	<0.01	<0.01	<0.01	/
19100	1900	50RB-Low Right	/	15.65	16	<0.01	<0.01	<0.01	<0.01	/
19100	1900	50RB-Low Bottom	/	15.65	16	0.072	<b>0.08</b>	0.132	<b>0.14</b>	-0.10

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: All the results are for ENDC only.

**Table 14.1-13: SAR Values (LTE Band5 - Head)**

Frequency		Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measure d SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20600	844	1RB_Mid	Left	Cheek	/	23.65	24.5	0.47	<b>0.57</b>	0.579	<b>0.70</b>	0.13
20600	844	1RB_Mid	Left	Tilt	/	23.65	24.5	0.304	<b>0.37</b>	0.424	<b>0.52</b>	0.09
20600	844	1RB_Mid	Right	Cheek	Fig.13	23.65	24.5	0.57	<b>0.69</b>	0.794	<b>0.97</b>	-0.01
20525	836.5	1RB_Mid	Right	Cheek	/	23.63	24.5	0.48	<b>0.59</b>	0.651	<b>0.80</b>	0.08
20450	836.5	1RB_Mid	Right	Cheek	/	23.63	24.5	0.526	<b>0.64</b>	0.717	<b>0.88</b>	0.09
20600	844	50RB	Right	Cheek	/	22.56	23.5	0.436	<b>0.54</b>	0.53	<b>0.66</b>	-0.10
20600	844	1RB_Mid	Right	Tilt	/	23.65	24.5	0.359	<b>0.44</b>	0.594	<b>0.72</b>	-0.03
20600	844	25RB-Low	Left	Cheek	/	22.64	23.5	0.434	<b>0.53</b>	0.543	<b>0.66</b>	0.14
20600	844	25RB-Low	Left	Tilt	/	22.64	23.5	0.275	<b>0.34</b>	0.402	<b>0.49</b>	-0.11
20600	844	25RB-Low	Right	Cheek	/	22.64	23.5	0.522	<b>0.64</b>	0.731	<b>0.89</b>	-0.19
20525	836.5	25RB-Low	Right	Cheek	/	22.63	23.5	0.401	<b>0.49</b>	0.56	<b>0.68</b>	0.12
20450	836.5	25RB-Low	Right	Cheek	/	22.61	23.5	0.451	<b>0.55</b>	0.632	<b>0.78</b>	-0.14
20600	844	25RB-Low	Right	Tilt	/	22.64	23.5	0.32	<b>0.39</b>	0.545	<b>0.66</b>	0.03
20600	844	1RB_Mid	Left	Cheek	Note2	20.43	20.6	0.225	<b>0.23</b>	0.325	<b>0.34</b>	-0.02
20600	844	1RB_Mid	Left	Tilt	Note2	20.43	20.6	0.148	<b>0.15</b>	0.234	<b>0.24</b>	0.01
20600	844	1RB_Mid	Right	Cheek	Note2	20.43	20.6	0.189	<b>0.20</b>	0.269	<b>0.28</b>	0.01

20600	844	1RB_Mid	Right	Tilt	Note2	20.43	20.6	0.138	<b>0.14</b>	0.237	<b>0.25</b>	0.16
20600	844	25RB-Low	Left	Cheek	Note2	20.48	20.6	0.23	<b>0.24</b>	0.328	<b>0.34</b>	-0.11
20600	844	25RB-Low	Left	Tilt	Note2	20.48	20.6	0.155	<b>0.16</b>	0.244	<b>0.25</b>	0.03
20600	844	25RB-Low	Right	Cheek	Note2	20.48	20.6	0.223	<b>0.23</b>	0.322	<b>0.33</b>	0.01
20600	844	25RB-Low	Right	Tilt	Note2	20.48	20.6	0.145	<b>0.15</b>	0.25	<b>0.26</b>	0.09

Note1: The LTE mode is QPSK\_10MHz.

Note2: The results are for ENDC only. The other results are for SA.

**Table 14.1-14: SAR Values (LTE Band5 – Body)**

Frequency		Mode	Figure No.	Conduct ed Power (dBm)	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5 °C		Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz				Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)				
20600	844	1RB-Mid Front	/	23.65	24.5	0.077	<b>0.09</b>	0.1	<b>0.10</b>	0.14	
20600	844	1RB-Mid Rear	/	23.65	24.5	0.085	<b>0.10</b>	0.109	<b>0.11</b>	0.05	
20600	844	1RB-Mid Left	/	23.65	24.5	0.056	<b>0.07</b>	0.071	<b>0.07</b>	0.06	
20600	844	1RB-Mid Right	/	23.65	24.5	0.048	<b>0.06</b>	0.06	<b>0.06</b>	-0.09	
20600	844	1RB-Mid Top	Fig.14	23.65	24.5	0.067	<b>0.08</b>	0.124	<b>0.12</b>	-0.13	
20600	844	25RB-Low Front	/	22.64	23.5	0.066	<b>0.08</b>	0.087	<b>0.09</b>	-0.16	
20600	844	25RB-Low Rear	/	22.64	23.5	0.074	<b>0.09</b>	0.095	<b>0.10</b>	-0.08	
20600	844	25RB-Low Left	/	22.64	23.5	0.058	<b>0.07</b>	0.074	<b>0.07</b>	0.05	
20600	844	25RB-Low Right	/	22.64	23.5	0.043	<b>0.05</b>	0.053	<b>0.05</b>	0.11	
20600	844	25RB-Low Top	/	22.64	23.5	0.053	<b>0.06</b>	0.093	<b>0.09</b>	0.05	

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: The results are for SA&ENDC.

**Table 14.1-15: SAR Values (LTE Band7 - Head)**

Frequency		Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C				
Ch.	MHz	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)
20850	2510	1RB_Low	Left	Cheek	/	21.22	21.5	0.142	<b>0.15</b>	0.288	<b>0.31</b>	-0.02
20850	2510	1RB_Low	Left	Tilt	/	21.22	21.5	0.08	<b>0.09</b>	0.177	<b>0.19</b>	-0.13
20850	2510	1RB_Low	Right	Cheek	Fig.15	21.22	21.5	0.419	<b>0.45</b>	0.952	<b>1.02</b>	0.03
21100	2535	1RB_Low	Right	Cheek	/	21.17	21.5	0.379	<b>0.41</b>	0.859	<b>0.93</b>	0.14
21350	2560	1RB_Low	Right	Cheek	/	21.1	21.5	0.338	<b>0.37</b>	0.774	<b>0.85</b>	0.13
20850	2510	100RB	Right	Cheek	/	21.24	21.5	0.401	<b>0.43</b>	0.934	<b>0.99</b>	0.14
20850	2510	1RB_Low	Right	Tilt	/	21.22	21.5	0.209	<b>0.22</b>	0.545	<b>0.58</b>	0.17
20850	2510	50RB_Low	Left	Cheek	/	21.18	21.5	0.141	<b>0.15</b>	0.287	<b>0.31</b>	-0.10
20850	2510	50RB_Low	Left	Tilt	/	21.18	21.5	0.079	<b>0.09</b>	0.17	<b>0.18</b>	0.18
20850	2510	50RB_Low	Right	Cheek	/	21.18	21.5	0.405	<b>0.44</b>	0.934	<b>1.01</b>	-0.14
21100	2535	50RB_Low	Right	Cheek	/	21.12	21.5	0.379	<b>0.41</b>	0.86	<b>0.94</b>	-0.11
21350	2560	50RB_Low	Right	Cheek	/	21.17	21.5	0.338	<b>0.36</b>	0.773	<b>0.83</b>	0.15
20850	2510	50RB_Low	Right	Tilt	/	21.18	21.5	0.221	<b>0.24</b>	0.568	<b>0.61</b>	0.07
21350	2560	1RB_Mid	Left	Cheek	Note2	16.91	17	0.037	<b>0.04</b>	0.069	<b>0.07</b>	-0.13
21350	2560	1RB_Mid	Left	Tilt	Note2	16.91	17	0.019	<b>0.02</b>	0.038	<b>0.04</b>	-0.01
21350	2560	1RB_Mid	Right	Cheek	Note2	16.91	17	0.119	<b>0.12</b>	0.275	<b>0.28</b>	-0.11
21350	2560	1RB_Mid	Right	Tilt	Note2	16.91	17	0.059	<b>0.06</b>	0.129	<b>0.13</b>	0.17
21350	2560	50RB_Low	Left	Cheek	Note2	16.93	17	0.038	<b>0.04</b>	0.072	<b>0.07</b>	-0.15
21350	2560	50RB_Low	Left	Tilt	Note2	16.93	17	<0.01	<0.01	<0.01	<0.01	/
21350	2560	50RB_Low	Right	Cheek	Note2	16.93	17	0.123	<b>0.12</b>	0.276	<b>0.28</b>	0.09
21350	2560	50RB_Low	Right	Tilt	Note2	16.93	17	0.058	<b>0.06</b>	0.125	<b>0.13</b>	0.09

Note1: The LTE mode is QPSK\_20MHz.

Note2: The results are for ENDC only. The other results are for SA.

**Table 14.1-16: SAR Values (LTE Band7 – Body)**

Ambient Temperature: 22.9 °C      Liquid Temperature: 22.5 °C

Frequency		Mode	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
20850	2510	1RB-Low Front	/	23.83	24.2	0.151	<b>0.16</b>	0.3	<b>0.33</b>	0.07
21350	2560	1RB-Mid Rear	/	23.75	24.2	0.306	<b>0.34</b>	0.642	<b>0.71</b>	0.15
21100	2535	1RB-Mid Rear	/	23.58	24.2	0.327	<b>0.38</b>	0.685	<b>0.79</b>	0.13
20850	2510	1RB-Low Rear	/	23.83	24.2	0.346	<b>0.38</b>	0.726	<b>0.79</b>	0.03
20850	2510	100RB Rear	/	22.91	24.2	0.294	<b>0.40</b>	0.6	<b>0.81</b>	0.09
21350	2560	1RB-Mid Left	/	23.75	24.2	0.419	<b>0.46</b>	0.898	<b>1.00</b>	0.12
21100	2535	1RB-Mid Left	/	23.76	24.2	0.425	<b>0.47</b>	0.902	<b>1.00</b>	0.06
20850	2510	1RB-Low Left	Fig.16	23.83	24.2	0.434	<b>0.47</b>	0.925	<b>1.01</b>	0.01
21100	2535	100RB Left	/	22.91	23.2	0.34	<b>0.36</b>	0.727	<b>0.78</b>	0.06
20850	2510	1RB-Low Top	/	23.83	23.2	0.104	<b>0.09</b>	0.205	<b>0.18</b>	-0.16
20850	2510	50RB-Low Front	/	22.97	23.2	0.133	<b>0.14</b>	0.265	<b>0.28</b>	0.10
20850	2510	50RB-Low Rear	/	22.97	23.2	0.27	<b>0.28</b>	0.571	<b>0.60</b>	0.02
20850	2510	50RB-Low Left	/	22.97	23.2	0.328	<b>0.35</b>	0.692	<b>0.73</b>	0.08
20850	2510	50RB-Low Top	/	22.97	23.2	0.082	<b>0.09</b>	0.162	<b>0.17</b>	0.11
21350	2560	1RB-Mid Front	Note2	18.84	19	0.051	<b>0.05</b>	0.092	<b>0.10</b>	-0.01
21350	2560	1RB-Mid Rear	Note2	18.84	19	0.121	<b>0.13</b>	0.225	<b>0.23</b>	-0.04
21350	2560	1RB-Mid Left	Note2	18.84	19	0.137	<b>0.14</b>	0.259	<b>0.27</b>	0.15
21350	2560	1RB-Mid Top	Note2	18.84	19	0.029	<b>0.03</b>	0.054	<b>0.06</b>	-0.09
21350	2560	50RB-Low Front	Note2	18.86	19	0.055	<b>0.06</b>	0.1	<b>0.10</b>	-0.08
21350	2560	50RB-Low Rear	Note2	18.86	19	0.124	<b>0.13</b>	0.234	<b>0.24</b>	0.18
21350	2560	50RB-Low Left	Note2	18.86	19	0.109	<b>0.11</b>	0.202	<b>0.21</b>	0.09
21350	2560	50RB-Low Top	Note2	18.86	19	0.035	<b>0.04</b>	0.067	<b>0.07</b>	-0.16

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: The results are for ENDC only. The other results are for SA.

**Table 14.1-17: SAR Values (LTE Band12 - Head)**

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C					
Ch.	MHz	Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measure d SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
23060	704	1RB_Low	Left	Cheek	/	23.6	24.5	0.214	<b>0.26</b>	0.253	<b>0.31</b>	-0.06
23060	704	1RB_Low	Left	Tilt	Fig.17	23.6	24.5	0.198	<b>0.24</b>	0.322	<b>0.40</b>	0.10
23060	704	1RB_Low	Right	Cheek	/	23.6	24.5	0.233	<b>0.29</b>	0.277	<b>0.34</b>	-0.12
23060	704	1RB_Low	Right	Tilt	/	23.6	24.5	0.198	<b>0.24</b>	0.268	<b>0.33</b>	0.06
23060	704	25RB-Low	Left	Cheek	/	22.53	23.5	0.182	<b>0.23</b>	0.219	<b>0.27</b>	0.14
23060	704	25RB-Low	Left	Tilt	/	22.53	23.5	0.146	<b>0.18</b>	0.214	<b>0.27</b>	-0.08
23060	704	25RB-Low	Right	Cheek	/	22.53	23.5	0.177	<b>0.22</b>	0.219	<b>0.27</b>	0.07
23060	704	25RB-Low	Right	Tilt	/	22.53	23.5	0.164	<b>0.21</b>	0.233	<b>0.29</b>	0.11

Note1: The LTE mode is QPSK\_10MHz.

Note2: The results are for SA&amp;ENDC.

**Table 14.1-18: SAR Values (LTE Band12 – Body)**

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C				
Ch.	MHz	Mode	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
23060	704	1RB-Low Front	/	23.6	24.5	0.099	<b>0.12</b>	0.131	<b>0.16</b>	-0.15	
23060	704	1RB-Low Rear	/	23.6	24.5	0.096	<b>0.12</b>	0.128	<b>0.16</b>	-0.16	
23060	704	1RB-Low Left	Fig.18	23.6	24.5	0.115	<b>0.14</b>	0.162	<b>0.20</b>	-0.06	
23060	704	1RB-Low Right	/	23.6	24.5	0.101	<b>0.12</b>	0.141	<b>0.17</b>	-0.13	
23060	704	1RB-Low Top	/	23.6	24.5	0.022	<b>0.03</b>	0.048	<b>0.06</b>	0.17	
23060	704	25RB-Low Front	/	22.53	23.5	0.075	<b>0.09</b>	0.1	<b>0.13</b>	0.14	
23060	704	25RB-Low Rear	/	22.53	23.5	0.098	<b>0.12</b>	0.128	<b>0.16</b>	0.13	
23060	704	25RB-Low Left	/	22.53	23.5	0.096	<b>0.12</b>	0.135	<b>0.17</b>	-0.02	
23060	704	25RB-Low Right	/	22.53	23.5	0.085	<b>0.11</b>	0.121	<b>0.15</b>	-0.03	
23060	704	25RB-Low Top	/	22.53	23.5	0.017	<b>0.02</b>	0.038	<b>0.05</b>	0.12	

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_10MHz.

Note2: The results are for SA and ENDC.

**Table 14.1-19: SAR Values (LTE Band13 - Head)**

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C					
Ch.	MHz	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)
23230	782	1RB_Low	Left	Cheek	/	23.74	23.9	0.351	<b>0.36</b>	0.468	<b>0.49</b>	-0.15
23230	782	1RB_Low	Left	Tilt	/	23.74	23.9	0.246	<b>0.26</b>	0.379	<b>0.39</b>	-0.04
23230	782	1RB_Low	Right	Cheek	Fig.19	23.74	23.9	0.351	<b>0.36</b>	0.486	<b>0.50</b>	0.05
23230	782	1RB_Low	Right	Tilt	/	23.74	23.9	0.234	<b>0.24</b>	0.365	<b>0.38</b>	0.06
23230	782	25RB-Mid	Left	Cheek	/	22.57	22.9	0.306	<b>0.33</b>	0.421	<b>0.45</b>	-0.04
23230	782	25RB-Mid	Left	Tilt	/	22.57	22.9	0.223	<b>0.24</b>	0.354	<b>0.38</b>	0.14
23230	782	25RB-Mid	Right	Cheek	/	22.57	22.9	0.287	<b>0.31</b>	0.408	<b>0.44</b>	0.17
23230	782	25RB-Mid	Right	Tilt	/	22.57	22.9	0.205	<b>0.22</b>	0.35	<b>0.38</b>	0.17

Note1: The LTE mode is QPSK\_10MHz.

Note2: The results are for SA and ENDC.

**Table 14.1-20: SAR Values (LTE Band13 – Body)**

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C				
Ch.	MHz	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)	
23230	782	1RB-Low Front	/	23.74	23.9	0.144	<b>0.15</b>	0.183	<b>0.19</b>	0.09	
23230	782	1RB-Low Rear	Fig.20	23.74	23.9	0.188	<b>0.20</b>	0.24	<b>0.25</b>	0.04	
23230	782	1RB-Low Left	/	23.74	23.9	0.146	<b>0.15</b>	0.196	<b>0.20</b>	-0.02	
23230	782	1RB-Low Right	/	23.74	23.9	0.129	<b>0.13</b>	0.175	<b>0.18</b>	-0.14	
23230	782	1RB-Low Top	/	23.74	23.9	0.03	<b>0.03</b>	0.051	<b>0.05</b>	0.07	
23230	782	25RB-Mid Front	/	22.57	22.9	0.116	<b>0.13</b>	0.149	<b>0.16</b>	0.15	
23230	782	25RB-Mid Rear	/	22.57	22.9	0.153	<b>0.17</b>	0.195	<b>0.21</b>	-0.16	
23230	782	25RB-Mid Left	/	22.57	22.9	0.119	<b>0.13</b>	0.16	<b>0.17</b>	0.08	
23230	782	25RB-Mid Right	/	22.57	22.9	0.107	<b>0.12</b>	0.144	<b>0.16</b>	-0.12	
23230	782	25RB-Mid Top	/	22.57	22.9	0.025	<b>0.03</b>	0.044	<b>0.05</b>	-0.05	

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_10MHz.

Note2: The results are for SA and ENDC.



**Table 14.1-21: SAR Values (LTE Band25 ANT2 - 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											
26365	1882.5	1RB_Mid	Left	Cheek	/	20.38	20.7	0.343	<b>0.37</b>	0.707	<b>0.76</b>	-0.18
26140	1860	1RB_Mid	Left	Cheek	Fig.21	20.3	20.7	0.407	<b>0.45</b>	0.822	<b>0.90</b>	0.18
26590	1905	1RB_Mid	Left	Cheek	/	20.35	20.7	0.311	<b>0.34</b>	0.636	<b>0.69</b>	0.12
26140	1860	100RB	Left	Cheek	/	20.3	20.7	0.397	<b>0.44</b>	0.801	<b>0.88</b>	0.03
26365	1882.5	1RB_Mid	Left	Tilt	/	20.38	20.7	0.121	<b>0.13</b>	0.257	<b>0.28</b>	0.10
26365	1882.5	1RB_Mid	Right	Cheek	/	20.38	20.7	0.153	<b>0.16</b>	0.269	<b>0.29</b>	0.05
26365	1882.5	1RB_Mid	Right	Tilt	/	20.38	20.7	0.096	<b>0.10</b>	0.186	<b>0.20</b>	-0.15
26365	1882.5	50RB-Low	Left	Cheek	/	20.49	20.7	0.353	<b>0.37</b>	0.709	<b>0.74</b>	-0.18
26140	1860	50RB-Low	Left	Cheek	/	20.37	20.7	0.409	<b>0.44</b>	0.794	<b>0.86</b>	0.16
26590	1905	50RB-Low	Left	Cheek	/	20.48	20.7	0.297	<b>0.31</b>	0.588	<b>0.62</b>	-0.13
26365	1882.5	50RB-Low	Left	Tilt	/	20.49	20.7	0.128	<b>0.13</b>	0.261	<b>0.27</b>	-0.12
26365	1882.5	50RB-Low	Right	Cheek	/	20.49	20.7	0.167	<b>0.18</b>	0.272	<b>0.29</b>	0.14
26365	1882.5	50RB-Low	Right	Tilt	/	20.49	20.7	0.098	<b>0.10</b>	0.182	<b>0.19</b>	-0.06

Note1: The LTE mode is QPSK\_20MHz.

Note2: The results are for SA only.

**Table 14.1-22: SAR Values (LTE Band25 ANT2- 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									
26365	1882.5	1RB-Low Front	/	22.52	22.7	0.138	<b>0.14</b>	0.243	<b>0.25</b>	-0.02
26365	1882.5	1RB-Low Rear	/	22.52	22.7	0.235	<b>0.24</b>	0.432	<b>0.45</b>	0.07
26365	1882.5	1RB-Low Right	/	22.52	22.7	0.305	<b>0.32</b>	0.611	<b>0.64</b>	-0.03
26365	1882.5	1RB-Low Top	/	22.52	22.7	0.07	<b>0.07</b>	0.123	<b>0.13</b>	-0.12
26365	1882.5	50RB-Low Front	/	22.59	22.7	0.143	<b>0.15</b>	0.248	<b>0.25</b>	-0.17
26365	1882.5	50RB-Low Rear	/	22.59	22.7	0.277	<b>0.28</b>	0.533	<b>0.55</b>	0.18
26365	1882.5	50RB-Low Right	Fig.22	22.59	22.7	0.322	<b>0.33</b>	0.633	<b>0.65</b>	-0.03
26365	1882.5	50RB-Low Top	/	22.59	22.7	0.074	<b>0.08</b>	0.128	<b>0.13</b>	-0.10

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: The results are for SA only.

**Table 14.1-23: SAR Values (LTE Band25 ANT1 - 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											
26365	1882.5	1RB_Mid	Left	Cheek	Fig.23	24.04	24.5	0.074	<b>0.08</b>	0.12	<b>0.13</b>	0.07
26365	1882.5	1RB_Mid	Left	Tilt	/	24.04	24.5	0.049	<b>0.05</b>	0.082	<b>0.09</b>	-0.11
26365	1882.5	1RB_Mid	Right	Cheek	/	24.04	24.5	0.049	<b>0.05</b>	0.073	<b>0.08</b>	0.09
26365	1882.5	1RB_Mid	Right	Tilt	/	24.04	24.5	0.043	<b>0.05</b>	0.07	<b>0.08</b>	-0.06
26365	1882.5	50RB-Mid	Left	Cheek	/	23.03	23.5	0.058	<b>0.06</b>	0.091	<b>0.10</b>	-0.07
26365	1882.5	50RB-Mid	Left	Tilt	/	23.03	23.5	0.04	<b>0.04</b>	0.066	<b>0.07</b>	0.08
26365	1882.5	50RB-Mid	Right	Cheek	/	23.03	23.5	0.036	<b>0.04</b>	0.055	<b>0.06</b>	0.14
26365	1882.5	50RB-Mid	Right	Tilt	/	23.03	23.5	0.032	<b>0.04</b>	0.053	<b>0.06</b>	-0.03

Note1: The LTE mode is QPSK\_20MHz.

Note2: The results are for ENDC only.

**Table 14.1-24: SAR Values (LTE Band25 ANT1– 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									
26365	1882.5	1RB-Mid Front	/	16.18	16.5	0.048	<b>0.05</b>	0.083	<b>0.09</b>	0.12
26365	1882.5	1RB-Mid Rear	/	16.18	16.5	0.081	<b>0.09</b>	0.148	<b>0.16</b>	0.05
26365	1882.5	1RB-Mid Left	/	16.18	16.5	<0.01	<0.01	<0.01	<0.01	/
26365	1882.5	1RB-Mid Right	/	16.18	16.5	0.013	<b>0.01</b>	0.039	<b>0.04</b>	0.06
26365	1882.5	1RB-Mid Bottom	Fig.24	16.18	16.5	0.0899	<b>0.10</b>	0.159	<b>0.17</b>	-0.01
26365	1882.5	50RB-Mid Front	/	16.13	16.5	0.048	<b>0.05</b>	0.081	<b>0.09</b>	-0.13
26365	1882.5	50RB-Mid Rear	/	16.13	16.5	0.082	<b>0.09</b>	0.15	<b>0.16</b>	0.15
26365	1882.5	50RB-Mid Left	/	16.13	16.5	<0.01	<0.01	<0.01	<0.01	/
26365	1882.5	50RB-Mid Right	/	16.13	16.5	<0.01	<0.01	<0.01	<0.01	/
26365	1882.5	50RB-Mid Bottom	/	16.13	16.5	0.087	<b>0.09</b>	0.151	<b>0.16</b>	0.10

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: The results are for ENDC only.

**Table 14.1-25: SAR Values (LTE Band26 - Head)**

Ambient Temperature: 22.9 °C							Liquid Temperature: 22.5 °C					
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26865	831.5	1RB_Low	Left	Cheek	/	23.64	24.5	0.398	<b>0.49</b>	0.608	<b>0.74</b>	0.05
26865	831.5	1RB_Low	Left	Tilt	/	23.64	24.5	0.297	<b>0.36</b>	0.498	<b>0.61</b>	0.18
26965	841.5	1RB_Low	Right	Cheek	/	23.57	24.5	0.471	<b>0.58</b>	0.687	<b>0.85</b>	0.01
26865	831.5	1RB_Low	Right	Cheek	Fig.25	23.64	24.5	0.563	<b>0.69</b>	0.78	<b>0.95</b>	0.02
26775	822.5	1RB_Low	Right	Cheek	/	23.62	24.5	0.405	<b>0.50</b>	0.588	<b>0.72</b>	0.13
26965	841.5	100RB	Right	Cheek	/	22.56	23.5	0.366	<b>0.45</b>	0.536	<b>0.67</b>	0.02
26965	841.5	1RB_Low	Right	Tilt	/	23.57	24.5	0.324	<b>0.40</b>	0.584	<b>0.72</b>	0.15
26865	831.5	36RB-Low	Left	Cheek	/	22.61	23.5	0.292	<b>0.36</b>	0.384	<b>0.47</b>	-0.07
26865	831.5	36RB-Low	Left	Tilt	/	22.61	23.5	0.212	<b>0.26</b>	0.333	<b>0.41</b>	-0.09
26865	831.5	36RB-Low	Right	Cheek	/	22.61	23.5	0.325	<b>0.40</b>	0.468	<b>0.57</b>	-0.15
26865	831.5	36RB-Low	Right	Tilt	/	22.61	23.5	0.258	<b>0.32</b>	0.45	<b>0.55</b>	0.05

Note1: The LTE mode is QPSK\_15MHz.

Note2: The results are for SA only.

**Table 14.1-26: 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										
26865	831.5	1RB-Mid Front	/	23.64	24.5	0.167	<b>0.20</b>	0.218	<b>0.27</b>	0.14	
26865	831.5	1RB-Mid Rear	Fig.26	23.64	24.5	0.185	<b>0.23</b>	0.239	<b>0.29</b>	0.04	
26865	831.5	1RB-Mid Left	/	23.64	24.5	0.148	<b>0.18</b>	0.21	<b>0.26</b>	-0.18	
26865	831.5	1RB-Mid Right	/	23.64	24.5	0.084	<b>0.10</b>	0.118	<b>0.14</b>	0.11	
26865	831.5	1RB-Mid Top	/	23.64	24.5	0.075	<b>0.09</b>	0.14	<b>0.17</b>	0.01	
26865	831.5	36RB-Low Front	/	22.61	23.5	0.132	<b>0.16</b>	0.174	<b>0.21</b>	0.06	
26865	831.5	36RB-Low Rear	/	22.61	23.5	0.162	<b>0.20</b>	0.209	<b>0.26</b>	0.12	
26865	831.5	36RB-Low Left	/	22.61	23.5	0.115	<b>0.14</b>	0.163	<b>0.20</b>	0.15	
26865	831.5	36RB-Low Right	/	22.61	23.5	0.078	<b>0.10</b>	0.112	<b>0.14</b>	-0.07	
26865	831.5	36RB-Low Top	/	22.61	23.5	0.055	<b>0.07</b>	0.098	<b>0.12</b>	0.17	

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_15MHz.

Note2: The results are for SA only.

**Table 14.1-27: SAR Values (LTE Band38 - Head)**

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5 °C					
Ch.	MHz	Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
38150	2610	1RB_Mid	Left	Cheek	/	20.86	21	0.023	<b>0.02</b>	0.04	<b>0.04</b>	0.02
38150	2610	1RB_Mid	Left	Tilt	/	20.86	21	0.017	<b>0.02</b>	0.033	<b>0.03</b>	-0.11
38150	2610	1RB_Mid	Right	Cheek	/	20.86	21	0.08	<b>0.08</b>	0.175	<b>0.18</b>	-0.17
38150	2610	1RB_Mid	Right	Tilt	/	20.86	21	0.045	<b>0.05</b>	0.097	<b>0.10</b>	-0.16
38150	2610	50RB-Low	Left	Cheek	/	20.89	21	0.027	<b>0.03</b>	0.051	<b>0.05</b>	0.10
38150	2610	50RB-Low	Left	Tilt	/	20.89	21	0.021	<b>0.02</b>	0.04	<b>0.04</b>	-0.11
38150	2610	50RB-Low	Right	Cheek	Fig.27	20.89	21	0.085	<b>0.09</b>	0.182	<b>0.19</b>	0.09
38150	2610	50RB-Low	Right	Tilt	/	20.89	21	0.046	<b>0.05</b>	0.098	<b>0.10</b>	0.01

Note1: The LTE mode is QPSK\_20MHz.

Note2: All the results are for ENDC only.

**Table 14.1-28: SAR Values (LTE Band38 – Body)**

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5 °C				
Ch.	MHz	Mode	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
38150	2610	1RB-Mid Front	/	22.9	23	0.039	<b>0.04</b>	0.071	<b>0.07</b>	0.18	
38150	2610	1RB-Mid Rear	/	22.9	23	0.095	<b>0.10</b>	0.185	<b>0.19</b>	-0.09	
38150	2610	1RB-Mid Left	/	22.9	23	0.105	<b>0.11</b>	0.219	<b>0.22</b>	0.10	
38150	2610	1RB-Mid Top	/	22.9	23	0.026	<b>0.03</b>	0.052	<b>0.05</b>	0.14	
38150	2610	50RB-Low Front	/	22.93	23	0.044	<b>0.04</b>	0.082	<b>0.08</b>	0.04	
38150	2610	50RB-Low Rear	/	22.93	23	0.095	<b>0.10</b>	0.184	<b>0.19</b>	-0.12	
38150	2610	50RB-Low Left	Fig.28	22.93	23	0.105	<b>0.11</b>	0.221	<b>0.22</b>	0.17	
38150	2610	50RB-Low Top	/	22.93	23	0.026	<b>0.03</b>	0.053	<b>0.05</b>	0.13	

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: All the results are for ENDC only.

**Table 14.1-29: SAR Values (LTE Band41 - Head)**

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C					
Ch.	MHz	Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
40620	2593	1RB_Mid	Left	Cheek	/	23.29	23.5	0.068	<b>0.07</b>	0.139	<b>0.15</b>	-0.09
40620	2593	1RB_Mid	Left	Tilt	/	23.29	23.5	0.047	<b>0.05</b>	0.102	<b>0.11</b>	0.11
40620	2593	1RB_Mid	Right	Cheek	Fig.29	23.29	23.5	0.237	<b>0.25</b>	0.562	<b>0.59</b>	0.18
40620	2593	1RB_Mid	Right	Tilt	/	23.29	23.5	0.123	<b>0.13</b>	0.304	<b>0.32</b>	0.12
40620	2593	50RB-Low	Left	Cheek	/	23.27	23.5	0.074	<b>0.08</b>	0.152	<b>0.16</b>	-0.06
40620	2593	50RB-Low	Left	Tilt	/	23.27	23.5	0.053	<b>0.06</b>	0.116	<b>0.12</b>	-0.14
40620	2593	50RB-Low	Right	Cheek	/	23.27	23.5	0.227	<b>0.24</b>	0.551	<b>0.58</b>	0.13
40620	2593	50RB-Low	Right	Tilt	/	23.27	23.5	0.117	<b>0.12</b>	0.298	<b>0.31</b>	-0.03

Note1: The LTE mode is QPSK\_20MHz.

Note2: All the results are for SA only.

**Table 14.1-30: SAR Values (LTE Band41 – Body)**

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5°C				
Ch.	MHz	Mode	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
40620	2593	1RB-Mid Front	/	23.95	24.2	0.132	<b>0.14</b>	0.246	<b>0.26</b>	0.13	
40620	2593	1RB-Mid Rear	/	23.95	24.2	0.209	<b>0.22</b>	0.433	<b>0.46</b>	-0.15	
40620	2593	1RB-Mid Left	Fig.30	23.95	24.2	0.232	<b>0.25</b>	0.491	<b>0.52</b>	-0.03	
40620	2593	1RB-Mid Top	/	23.95	24.2	0.058	<b>0.06</b>	0.122	<b>0.13</b>	-0.08	
40620	2593	50RB-Low Front	/	23.13	23.2	0.126	<b>0.13</b>	0.233	<b>0.24</b>	-0.14	
40620	2593	50RB-Low Rear	/	23.13	23.2	0.233	<b>0.24</b>	0.484	<b>0.49</b>	0.04	
40620	2593	50RB-Low Left	/	23.13	23.2	0.231	<b>0.23</b>	0.465	<b>0.47</b>	0.11	
40620	2593	50RB-Low Top	/	23.13	23.2	0.054	<b>0.05</b>	0.119	<b>0.12</b>	-0.08	

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: All the results are for SA only.

**Table 14.1-31: SAR Values (LTE Band48 - Head)**

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5 °C					
Ch.	MHz	Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
56640	3690	1RB_Mid	Left	Cheek	Fig.31	21.45	21.7	0.261	<b>0.28</b>	0.716	<b>0.76</b>	0.04
56640	3690	1RB_Mid	Left	Tilt	/	21.45	21.7	0.09	<b>0.10</b>	0.21	<b>0.22</b>	0.15
56640	3690	1RB_Mid	Right	Cheek	/	21.45	21.7	0.052	<b>0.06</b>	0.125	<b>0.13</b>	0.10
56640	3690	1RB_Mid	Right	Tilt	/	21.45	21.7	0.032	<b>0.03</b>	0.072	<b>0.08</b>	0.05
56640	3690	50RB-Mid	Left	Cheek	/	21.41	21.7	0.251	<b>0.27</b>	0.695	<b>0.74</b>	0.14
56640	3690	50RB-Mid	Left	Tilt	/	21.41	21.7	0.088	<b>0.09</b>	0.21	<b>0.22</b>	0.01
56640	3690	50RB-Mid	Right	Cheek	/	21.41	21.7	0.05	<b>0.05</b>	0.122	<b>0.13</b>	0.12
56640	3690	50RB-Mid	Right	Tilt	/	21.41	21.7	0.033	<b>0.04</b>	0.073	<b>0.08</b>	-0.01

Note1: The LTE mode is QPSK\_20MHz.

Note2: All the results are for SA only.

**Table 14.1-32: SAR Values (LTE Band48 – Body)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C				
Ch.	MHz	Mode	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
55990	3625	1RB-Mid Front	/	20.37	20.5	0.091	<b>0.09</b>	0.209	<b>0.22</b>	0.15
55990	3625	1RB-Mid Rear	/	20.37	20.5	0.227	<b>0.23</b>	0.543	<b>0.56</b>	0.05
55340	3560	1RB-Mid Right	/	20.1	20.5	0.156	<b>0.17</b>	0.422	<b>0.46</b>	0.18
55990	3625	1RB-Mid Right	/	20.37	20.5	0.318	<b>0.33</b>	0.786	<b>0.81</b>	-0.13
56640	3690	1RB-Mid Right	Fig.32	20.35	20.5	0.336	<b>0.35</b>	0.881	<b>0.91</b>	0.11
56640	3690	100RB Right	/	20.33	20.5	0.322	<b>0.33</b>	0.851	<b>0.88</b>	-0.05
55990	3625	1RB-Mid Top	/	20.37	20.5	0.044	<b>0.05</b>	0.089	<b>0.09</b>	0.07
55990	3625	50RB-Mid Front	/	20.38	20.5	0.087	<b>0.09</b>	0.199	<b>0.20</b>	0.14
55990	3625	50RB-Mid Rear	/	20.38	20.5	0.223	<b>0.23</b>	0.535	<b>0.55</b>	0.04
55340	3560	50RB-Mid Right	/	20.14	20.5	0.152	<b>0.17</b>	0.412	<b>0.45</b>	0.12
55990	3625	50RB-Mid Right	/	20.38	20.5	0.312	<b>0.32</b>	0.77	<b>0.79</b>	0.01
56640	3690	50RB-Mid Right	/	20.34	20.5	0.328	<b>0.34</b>	0.871	<b>0.90</b>	-0.17
55990	3625	50RB-Mid Top	/	20.38	20.5	0.043	<b>0.04</b>	0.087	<b>0.09</b>	-0.16

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: All the results are for SA only.

**Table 14.1-33: SAR Values (LTE Band66 ANT2 - Head)**

Frequency		Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132572	1770	1RB_Mid	Left	Cheek	/	19.34	20.5	0.398	<b>0.52</b>	0.802	<b>1.05</b>	0.08
132322	1745	1RB_Mid	Left	Cheek	/	19.26	20.5	0.348	<b>0.46</b>	0.7	<b>0.93</b>	-0.06
132072	1720	1RB_Mid	Left	Cheek	/	19.19	20.5	0.305	<b>0.41</b>	0.614	<b>0.83</b>	0.12
132572	1770	1RB_Mid	Left	Tilt	/	19.34	20.5	0.117	<b>0.15</b>	0.226	<b>0.30</b>	0.05
132572	1770	1RB_Mid	Right	Cheek	/	19.34	20.5	0.161	<b>0.21</b>	0.265	<b>0.35</b>	-0.17
132572	1770	1RB_Mid	Right	Tilt	/	19.34	20.5	0.083	<b>0.11</b>	0.146	<b>0.19</b>	0.04
132572	1770	50RB-Mid	Left	Cheek	Fig.33	19.43	20.5	0.41	<b>0.52</b>	0.831	<b>1.06</b>	0.02
132322	1745	50RB-Mid	Left	Cheek	/	19.31	20.5	0.345	<b>0.45</b>	0.693	<b>0.91</b>	-0.01
132072	1720	50RB-Mid	Left	Cheek	/	19.24	20.5	0.28	<b>0.37</b>	0.561	<b>0.75</b>	0.15
132572	1770	100RB	Left	Cheek	/	19.43	20.5	0.395	<b>0.51</b>	0.811	<b>1.04</b>	0.05
132572	1770	50RB-Mid	Left	Tilt	/	19.43	20.5	0.13	<b>0.17</b>	0.253	<b>0.32</b>	-0.11
132572	1770	50RB-Mid	Right	Cheek	/	19.43	20.5	0.145	<b>0.19</b>	0.229	<b>0.29</b>	-0.11
132572	1770	50RB-Mid	Right	Tilt	/	19.43	20.5	0.094	<b>0.12</b>	0.166	<b>0.21</b>	-0.09

Note1: The LTE mode is QPSK\_20MHz.

Note2: All the results are for SA only.

**Table 14.1-34: SAR Values (LTE Band66 ANT2 – Body)**

Frequency		Mode	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
132572	1770	1RB-Mid Front	/	23.53	23.7	0.288	<b>0.30</b>	0.508	<b>0.53</b>	0.07
132572	1770	1RB-Mid Rear	/	23.53	23.7	0.468	<b>0.49</b>	0.848	<b>0.88</b>	0.08
132322	1745	1RB-Mid Rear	/	23.45	23.7	0.342	<b>0.36</b>	0.631	<b>0.67</b>	-0.08
132072	1720	1RB-Mid Rear	/	23.38	23.7	0.276	<b>0.30</b>	0.501	<b>0.54</b>	0.14
132572	1770	100RB Rear	/	22.55	23.7	0.371	<b>0.48</b>	0.672	<b>0.88</b>	-0.15
132572	1770	1RB-Mid Right	Fig.34	23.53	23.7	0.567	<b>0.59</b>	1.1	<b>1.14</b>	-0.01
132322	1745	1RB-Mid Right	/	23.45	23.7	0.496	<b>0.53</b>	0.957	<b>1.01</b>	0.06
132072	1720	1RB-Mid Right	/	23.38	23.7	0.424	<b>0.46</b>	0.817	<b>0.88</b>	-0.08
132572	1770	100RB Right	/	22.55	22.7	0.447	<b>0.46</b>	0.871	<b>0.90</b>	-0.12
132572	1770	1RB-Mid Top	/	23.53	23.7	0.113	<b>0.12</b>	0.194	<b>0.20</b>	0.15
132572	1770	50RB-Low Front	/	22.58	22.7	0.226	<b>0.23</b>	0.388	<b>0.40</b>	0.14
132572	1770	50RB-Low Rear	/	22.58	22.7	0.324	<b>0.33</b>	0.58	<b>0.60</b>	0.13
132572	1770	50RB-Low Right	/	22.58	22.7	0.448	<b>0.46</b>	0.872	<b>0.90</b>	0.15
132322	1745	50RB-Low Right	/	22.47	22.7	0.39	<b>0.41</b>	0.753	<b>0.79</b>	-0.09

132072	1720	50RB-Low Right	/	22.44	22.7	0.324	<b>0.34</b>	0.624	<b>0.66</b>	-0.02
132572	1770	50RB-Low Top	/	22.58	22.7	0.092	<b>0.09</b>	0.156	<b>0.16</b>	0.01

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: All the results are for SA only.

**Table 14.1-35: SAR Values (LTE Band66 ANT1 - Head)**

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measure d SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132572	1770	1RB_Mid	Left	Cheek	Fig.35	24.07	24.5	0.14	<b>0.15</b>	0.219	<b>0.24</b>	0.09
132572	1770	1RB_Mid	Left	Tilt	/	24.07	24.5	0.065	<b>0.07</b>	0.106	<b>0.12</b>	0.06
132572	1770	1RB_Mid	Right	Cheek	/	24.07	24.5	0.098	<b>0.11</b>	0.15	<b>0.17</b>	-0.12
132572	1770	1RB_Mid	Right	Tilt	/	24.07	24.5	0.069	<b>0.08</b>	0.111	<b>0.12</b>	-0.03
132572	1770	50RB-Low	Left	Cheek	/	23.07	23.5	0.11	<b>0.12</b>	0.172	<b>0.19</b>	-0.03
132572	1770	50RB-Low	Left	Tilt	/	23.07	23.5	0.058	<b>0.06</b>	0.092	<b>0.10</b>	0.15
132572	1770	50RB-Low	Right	Cheek	/	23.07	23.5	0.069	<b>0.08</b>	0.105	<b>0.12</b>	0.13
132572	1770	50RB-Low	Right	Tilt	/	23.07	23.5	0.053	<b>0.06</b>	0.085	<b>0.09</b>	0.03

Note1: The LTE mode is QPSK\_20MHz.

Note2: All the results are for ENDC only.

**Table 14.1-36: SAR Values (LTE Band66 ANT1 – Body)**

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C											
Frequency		Mode	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz										
132572	1770	1RB-Mid Front	/	17.92	18	0.078	<b>0.08</b>	0.141	<b>0.14</b>	0.04	
132572	1770	1RB-Mid Rear	/	17.92	18	0.138	<b>0.14</b>	0.272	<b>0.28</b>	-0.03	
132572	1770	1RB-Mid Left	/	17.92	18	0.018	<b>0.02</b>	0.031	<b>0.03</b>	-0.10	
132572	1770	1RB-Mid Right	/	17.92	18	0.029	<b>0.03</b>	0.06	<b>0.06</b>	0.17	
132572	1770	1RB-Mid Bottom	Fig.36	17.92	18	0.236	<b>0.24</b>	0.436	<b>0.44</b>	-0.02	
132572	1770	50RB-High Front	/	17.92	18	0.072	<b>0.07</b>	0.131	<b>0.13</b>	0.11	
132572	1770	50RB-High Rear	/	17.92	18	0.131	<b>0.13</b>	0.263	<b>0.27</b>	-0.04	
132572	1770	50RB-High Left	/	17.92	18	0.021	<b>0.02</b>	0.037	<b>0.04</b>	-0.16	
132572	1770	50RB-High Right	/	17.92	18	0.029	<b>0.03</b>	0.058	<b>0.06</b>	0.04	
132572	1770	50RB-High Bottom	/	17.92	18	0.221	<b>0.23</b>	0.399	<b>0.41</b>	0.13	

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: All the results are for ENDC only.



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

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5 °C					
Ch.	MHz	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)
133322	683	1RB_Mid	Left	Cheek	/	23.67	24.5	0.172	<b>0.21</b>	0.26	<b>0.31</b>	-0.05
133322	683	1RB_Mid	Left	Tilt	/	23.67	24.5	0.156	<b>0.19</b>	0.276	<b>0.33</b>	-0.08
133322	683	1RB_Mid	Right	Cheek	Fig.37	23.67	24.5	0.192	<b>0.23</b>	0.285	<b>0.35</b>	0.03
133322	683	1RB_Mid	Right	Tilt	/	23.67	24.5	0.151	<b>0.18</b>	0.26	<b>0.31</b>	0.08
133322	683	50RB-Low	Left	Cheek	/	22.66	23.5	0.133	<b>0.16</b>	0.194	<b>0.24</b>	-0.15
133322	683	50RB-Low	Left	Tilt	/	22.66	23.5	0.134	<b>0.16</b>	0.229	<b>0.28</b>	0.09
133322	683	50RB-Low	Right	Cheek	/	22.66	23.5	0.141	<b>0.17</b>	0.21	<b>0.25</b>	0.08
133322	683	50RB-Low	Right	Tilt	/	22.66	23.5	0.126	<b>0.15</b>	0.217	<b>0.26</b>	-0.10

Note1: The LTE mode is QPSK\_20MHz.

Note2: All the results are for SA and ENDG.

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

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5 °C					
Ch.	MHz	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)		
133322	683	1RB-Mid Front	/	23.67	24.5	0.065	<b>0.08</b>	0.086	<b>0.10</b>	-0.01		
133322	683	1RB-Mid Rear	/	23.67	24.5	0.084	<b>0.10</b>	0.112	<b>0.14</b>	0.14		
133322	683	1RB-Mid Left	Fig.38	23.67	24.5	0.086	<b>0.10</b>	0.123	<b>0.15</b>	-0.09		
133322	683	1RB-Mid Right	/	23.67	24.5	0.079	<b>0.10</b>	0.115	<b>0.14</b>	-0.04		
133322	683	1RB-Mid Top	/	23.67	24.5	0.018	<b>0.02</b>	0.039	<b>0.05</b>	-0.17		
133322	683	50RB-Low Front	/	22.66	23.5	0.043	<b>0.05</b>	0.056	<b>0.07</b>	-0.12		
133322	683	50RB-Low Rear	/	22.66	23.5	0.072	<b>0.09</b>	0.095	<b>0.12</b>	-0.11		
133322	683	50RB-Low Left	/	22.66	23.5	0.072	<b>0.09</b>	0.102	<b>0.12</b>	0.03		
133322	683	50RB-Low Right	/	22.66	23.5	0.062	<b>0.08</b>	0.087	<b>0.11</b>	-0.09		
133322	683	50RB-Low Top	/	22.66	23.5	0.013	<b>0.02</b>	0.029	<b>0.04</b>	-0.11		

Note1: The distance between the EUT and the phantom bottom is 10mm. The LTE mode is QPSK\_20MHz.

Note2: All the results are for SA and ENDG.

## 14.2 SAR results for 5G NR

**Table 14.2-1: SAR Values (5G NR n2-Head)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5°C					
Ch.	MHz	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
376000	1880	Left	Cheek	Fig.39	15.86	16.3	0.121	<b>0.13</b>	0.266	<b>0.29</b>	0.06
376000	1880	Left	Tilt	/	15.86	16.3	0.041	<b>0.05</b>	0.091	<b>0.10</b>	-0.11
376000	1880	Right	Cheek	/	15.86	16.3	0.077	<b>0.09</b>	0.149	<b>0.16</b>	0.06
376000	1880	Right	Tilt	/	15.86	16.3	0.04	<b>0.04</b>	0.081	<b>0.09</b>	-0.08

Note1: All the results are for ENDC only.

**Table 14.2-2: SAR Values (5G NR n2-Body)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5°C					
Ch.	MHz	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
376000	1880	Front	/	17.76	18	0.054	<b>0.06</b>	0.099	<b>0.10</b>	-0.11	
376000	1880	Rear	/	17.76	18	0.112	<b>0.12</b>	0.211	<b>0.22</b>	-0.06	
376000	1880	Right	Fig.40	17.76	18	0.138	<b>0.15</b>	0.278	<b>0.29</b>	0.05	
376000	1880	Top	/	17.76	18	0.018	<b>0.02</b>	0.035	<b>0.04</b>	0.03	

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

Note2: All the results are for ENDC only.

**Table 14.2-3: SAR Values (5G NR n5-Head)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5°C					
Ch.	MHz	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
169300	846.5	Left	Cheek	/	23.68	23.8	0.592	<b>0.61</b>	0.899	<b>0.92</b>	0.04
167300	836.5	Left	Cheek	/	23.76	23.8	0.503	<b>0.51</b>	0.753	<b>0.76</b>	0.04
165300	826.5	Left	Cheek	/	23.75	23.8	0.558	<b>0.56</b>	0.844	<b>0.85</b>	0.05
169300	846.5	Left	Tilt	/	23.68	23.8	0.418	<b>0.43</b>	0.762	<b>0.78</b>	-0.11
167300	836.5	Left	Tilt	/	23.76	23.8	0.342	<b>0.35</b>	0.604	<b>0.61</b>	-0.16
165300	826.5	Left	Tilt	/	23.75	23.8	0.385	<b>0.39</b>	0.678	<b>0.69</b>	0.06
169300	846.5	Right	Cheek	/	23.68	23.8	0.67	<b>0.69</b>	1.01	<b>1.04</b>	0.13

167300	836.5	Right	Cheek	Fig.41	23.76	23.8	0.719	<b>0.73</b>	1.08	<b>1.09</b>	-0.01
165300	826.5	Right	Cheek	/	23.75	23.8	0.695	<b>0.70</b>	1.05	<b>1.06</b>	-0.03
169300	846.5	Right	Tilt	/	23.68	23.8	0.349	<b>0.36</b>	0.628	<b>0.65</b>	0.02
167300	836.5	Right	Tilt	/	23.76	23.8	0.314	<b>0.32</b>	0.551	<b>0.56</b>	0.09
165300	826.5	Right	Tilt	/	23.75	23.8	0.326	<b>0.33</b>	0.581	<b>0.59</b>	-0.13
167300	836.5	Left	Cheek	Note1	18.3	19	0.167	<b>0.20</b>	0.244	<b>0.29</b>	-0.09
167300	836.5	Left	Tilt	Note1	18.3	19	0.106	<b>0.12</b>	0.176	<b>0.21</b>	0.11
167300	836.5	Right	Cheek	Note1	18.3	19	0.173	<b>0.20</b>	0.261	<b>0.31</b>	0.10
167300	836.5	Right	Tilt	Note1	18.3	19	0.159	<b>0.19</b>	0.243	<b>0.29</b>	-0.06

Note1: The results are for ENDC only. The other results are for SA.

**Table 14.2-4: SAR Values (5G NR n5 -Body)**

Frequency		Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C									
Ch.	MHz	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
167300	836.5	Front	/	23.76	23.8	0.159	<b>0.16</b>	0.205	<b>0.21</b>	-0.11	
167300	836.5	Rear	Fig.42	23.76	23.8	0.193	<b>0.19</b>	0.248	<b>0.25</b>	0.02	
167300	836.5	Left	/	23.76	23.8	0.149	<b>0.15</b>	0.208	<b>0.21</b>	0.06	
167300	836.5	Right	/	23.76	23.8	0.125	<b>0.13</b>	0.172	<b>0.17</b>	-0.08	
167300	836.5	Top	/	23.76	23.8	0.089	<b>0.09</b>	0.152	<b>0.15</b>	-0.11	

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

Note2: All the results are for SA and ENDC.

**Table 14.2-5: SAR Values (5G NR n7-Head)**

Frequency		Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C									
Ch.	MHz	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
513500	2567.5	Left	Cheek	/	16.68	17	0.042	<b>0.05</b>	0.072	<b>0.08</b>	-0.15
513500	2567.5	Left	Tilt	/	16.68	17	0.024	<b>0.03</b>	0.052	<b>0.06</b>	-0.06
513500	2567.5	Right	Cheek	Fig.43	16.68	17	0.123	<b>0.13</b>	0.292	<b>0.31</b>	0.16
513500	2567.5	Right	Tilt	/	16.68	17	0.06	<b>0.06</b>	0.136	<b>0.15</b>	0.07

Note1: All the results are for ENDC only.

**Table 14.2-6: SAR Values (5G NR n7 -Body)**

Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C										
513500	2567.5	Front	/	17.75	18	0.034	<b>0.04</b>	0.069	<b>0.07</b>	-0.09
513500	2567.5	Rear	/	17.75	18	0.082	<b>0.09</b>	0.173	<b>0.18</b>	0.06
513500	2567.5	Left	Fig.44	17.75	18	0.088	<b>0.09</b>	0.194	<b>0.21</b>	0.10
513500	2567.5	Top	/	17.75	18	0.018	<b>0.02</b>	0.038	<b>0.04</b>	-0.11

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

Note2: All the results are for ENDC only.

**Table 14.2-7: SAR Values (5G NR n25-Head)**

Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C											
376500	1882.5	Left	Cheek	Fig.45	20.18	20.5	0.333	<b>0.36</b>	0.657	<b>0.71</b>	-0.12
376500	1882.5	Left	Tilt	/	20.18	20.5	0.117	<b>0.13</b>	0.235	<b>0.25</b>	0.09
376500	1882.5	Right	Cheek	/	20.18	20.5	0.154	<b>0.17</b>	0.265	<b>0.29</b>	-0.12
376500	1882.5	Right	Tilt	/	20.18	20.5	0.098	<b>0.11</b>	0.175	<b>0.19</b>	0.02
376500	1882.5	Left	Cheek	Note1	17.03	17.3	0.144	<b>0.15</b>	0.301	<b>0.32</b>	0.05
376500	1882.5	Left	Tilt	Note1	17.03	17.3	0.05	<b>0.05</b>	0.093	<b>0.10</b>	0.17
376500	1882.5	Right	Cheek	Note1	17.03	17.3	0.062	<b>0.07</b>	0.096	<b>0.10</b>	-0.05
376500	1882.5	Right	Tilt	Note1	17.03	17.3	0.044	<b>0.05</b>	0.076	<b>0.08</b>	0.07

Note1: The results are for ENDC only. The other results are for SA.

**Table 14.2-8: SAR Values (5G NR n25 -Body)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C				
Ch.	MHz	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Report ed SAR(10g)(W/kg)	Measure d SAR(1g) (W/kg)	Reporte d SAR(1g) (W/kg)	Power Drift (dB)
376500	1882.5	Front	/	23.52	23.6	0.175	<b>0.18</b>	0.324	<b>0.33</b>	-0.15
376500	1882.5	Rear	/	23.52	23.6	0.333	<b>0.34</b>	0.638	<b>0.65</b>	0.06
382500	1912.5	Right	/	23.48	23.6	0.396	<b>0.41</b>	0.808	<b>0.83</b>	-0.13
376500	1882.5	Right	/	23.52	23.6	0.362	<b>0.37</b>	0.705	<b>0.72</b>	0.09
370500	1860	Right	Fig.46	23.41	23.6	0.508	<b>0.53</b>	1.01	<b>1.06</b>	-0.16
376500	1882.5	Top	/	23.52	23.6	0.077	<b>0.08</b>	0.138	<b>0.14</b>	-0.11
376500	1882.5	Front	Note2	17.03	17.3	0.034	<b>0.04</b>	0.059	<b>0.06</b>	-0.19
376500	1882.5	Rear	Note2	17.03	17.3	0.072	<b>0.08</b>	0.135	<b>0.14</b>	0.06
376500	1882.5	Right	Note2	17.03	17.3	0.105	<b>0.11</b>	0.213	<b>0.23</b>	0.16
376500	1882.5	Top	Note2	17.03	17.3	0.015	<b>0.02</b>	0.023	<b>0.02</b>	-0.11

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

Note2: The results are for ENDC only. The other results are for SA.

**Table 14.2-9: SAR Values (5G NR n41-Head)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C					
Ch.	MHz	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
535998	2679.99	Left	Cheek	/	20.81	21	0.048	<b>0.05</b>	0.114	<b>0.12</b>	-0.12
535998	2679.99	Left	Tilt	/	20.81	21	0.035	<b>0.04</b>	0.089	<b>0.09</b>	-0.05
535998	2679.99	Right	Cheek	/	20.81	21	0.158	<b>0.17</b>	0.417	<b>0.44</b>	-0.10
527298	2636.49	Right	Cheek	/	20.7	21	0.162	<b>0.17</b>	0.429	<b>0.46</b>	-0.08
518598	2592.99	Right	Cheek	/	20.68	21	0.207	<b>0.22</b>	0.551	<b>0.59</b>	0.05
509902	2549.51	Right	Cheek	/	20.68	21	0.244	<b>0.26</b>	0.606	<b>0.65</b>	-0.08
501204	2506.02	Right	Cheek	Fig.47	20.71	21	0.319	<b>0.34</b>	0.824	<b>0.88</b>	0.04
535998	2679.99	Right	Tilt	/	20.81	21	0.063	<b>0.07</b>	0.167	<b>0.17</b>	0.18
535998	2679.99	Left	Cheek	Note1	17.68	18	0.036	<b>0.04</b>	0.077	<b>0.08</b>	-0.12
535998	2679.99	Left	Tilt	Note1	17.68	18	0.02	<b>0.02</b>	0.042	<b>0.05</b>	0.12
535998	2679.99	Right	Cheek	Note1	17.68	18	0.073	<b>0.08</b>	0.175	<b>0.19</b>	-0.14
527298	2636.49	Right	Cheek	Note1	17.65	18	0.084	<b>0.09</b>	0.204	<b>0.22</b>	0.18
518598	2592.99	Right	Cheek	Note1	17.64	18	0.098	<b>0.11</b>	0.237	<b>0.26</b>	-0.17
509902	2549.51	Right	Cheek	Note1	17.55	18	0.122	<b>0.14</b>	0.343	<b>0.38</b>	-0.07
501204	2506.02	Right	Cheek	Note1	17.49	18	0.159	<b>0.18</b>	0.408	<b>0.46</b>	0.05
535998	2679.99	Right	Tilt	Note1	20.81	21	0.08	<b>0.08</b>	0.171	<b>0.18</b>	-0.07

Note1: The results are for ENDC only. The other results are for SA.

**Table 14.2-10: SAR Values (5G NR n41 -Body)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C				
Ch.	MHz	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
535998	2679.99	Front	/	23.56	23.7	0.108	<b>0.11</b>	0.205	<b>0.21</b>	-0.18
535998	2679.99	Rear	/	23.56	23.7	0.305	<b>0.31</b>	0.63	<b>0.65</b>	0.06
527298	2636.49	Rear	/	23.35	23.7	0.324	<b>0.35</b>	0.668	<b>0.72</b>	0.11
518598	2592.99	Rear	/	23.23	23.7	0.321	<b>0.36</b>	0.671	<b>0.75</b>	-0.13
509902	2549.51	Rear	/	23.12	23.7	0.378	<b>0.43</b>	0.816	<b>0.93</b>	0.07
501204	2506.02	Rear	/	23.15	23.7	0.427	<b>0.48</b>	0.945	<b>1.07</b>	0.18
535998	2679.99	Left	/	23.56	23.7	0.362	<b>0.37</b>	0.771	<b>0.80</b>	0.14
527298	2636.49	Left	/	23.35	23.7	0.354	<b>0.38</b>	0.76	<b>0.82</b>	-0.07
518598	2592.99	Left	/	23.23	23.7	0.343	<b>0.38</b>	0.731	<b>0.81</b>	0.11
509902	2549.51	Left	/	23.12	23.7	0.397	<b>0.45</b>	0.86	<b>0.98</b>	0.07
501204	2506.02	Left	Fig.48	23.15	23.7	0.454	<b>0.52</b>	0.981	<b>1.11</b>	0.07
535998	2679.99	Top	/	23.56	23.7	0.06	<b>0.06</b>	0.127	<b>0.13</b>	-0.10
535998	2679.99	Front	Note2	17.68	18	0.017	<b>0.02</b>	0.031	<b>0.03</b>	0.15
535998	2679.99	Rear	Note2	17.68	18	0.049	<b>0.05</b>	0.108	<b>0.12</b>	-0.08
535998	2679.99	Left	Note2	17.68	18	0.058	<b>0.06</b>	0.129	<b>0.14</b>	-0.07
535998	2679.99	Top	Note2	17.68	18	<0.01	<0.01	<0.01	<0.01	/

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

Note2: The results are for ENDC only. The other results are for SA.

**Table 14.2-11: SAR Values (5G NR n66-Head)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C					
Ch.	MHz	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
349000	1745	Left	Cheek	Fig.49	18.25	18.5	0.329	<b>0.35</b>	0.66	<b>0.70</b>	-0.02
349000	1745	Left	Tilt	/	18.25	18.5	0.109	<b>0.12</b>	0.203	<b>0.22</b>	0.06
349000	1745	Right	Cheek	/	18.25	18.5	0.125	<b>0.13</b>	0.196	<b>0.21</b>	-0.11
349000	1745	Right	Tilt	/	18.25	18.5	0.085	<b>0.09</b>	0.142	<b>0.15</b>	0.09
349000	1745	Left	Cheek	Note1	15.88	16.3	0.123	<b>0.14</b>	0.265	<b>0.29</b>	0.05
349000	1745	Left	Tilt	Note1	15.88	16.3	0.038	<b>0.04</b>	0.078	<b>0.09</b>	-0.15
349000	1745	Right	Cheek	Note1	15.88	16.3	0.047	<b>0.05</b>	0.084	<b>0.09</b>	-0.09
349000	1745	Right	Tilt	Note1	15.88	16.3	0.028	<b>0.03</b>	0.052	<b>0.06</b>	0.08

Note1: The results are for ENDC only. The other results are for SA.

**Table 14.2-12: SAR Values (5G NR n66-Body)**

Frequency		Ambient Temperature: 22.2 °C				Liquid Temperature: 22 °C				
Ch.	MHz	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
349000	1745	Front	/	22.12	22.5	0.182	<b>0.20</b>	0.302	<b>0.33</b>	-0.05
349000	1745	Rear	/	22.12	22.5	0.309	<b>0.34</b>	0.548	<b>0.60</b>	-0.16
355500	1777.5	Right	Fig.50	22.03	22.5	0.43	<b>0.48</b>	0.831	<b>0.93</b>	0.13
349000	1745	Right	/	22.12	22.5	0.394	<b>0.43</b>	0.772	<b>0.84</b>	0.06
342500	1712.5	Right	/	22.05	22.5	0.302	<b>0.33</b>	0.567	<b>0.63</b>	-0.11
349000	1745	Top	/	22.12	22.5	0.083	<b>0.09</b>	0.145	<b>0.16</b>	0.06
349000	1745	Front	Note2	16.87	17.5	0.034	<b>0.04</b>	0.056	<b>0.06</b>	-0.11
349000	1745	Rear	Note2	16.87	17.5	0.065	<b>0.08</b>	0.114	<b>0.13</b>	0.15
349000	1745	Right	Note2	16.87	17.5	0.075	<b>0.09</b>	0.138	<b>0.16</b>	0.06
349000	1745	Top	Note2	16.87	17.5	0.018	<b>0.02</b>	0.031	<b>0.04</b>	-0.09

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

Note2: The results are for ENDC only. The other results are for SA.

**Table 14.2-13: SAR Values (5G NR n71-Head)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C					
Ch.	MHz	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
136100	680.5	Left	Cheek	/	23.46	24	0.26	<b>0.29</b>	0.352	<b>0.40</b>	-0.15
136100	680.5	Left	Tilt	/	23.46	24	0.208	<b>0.24</b>	0.328	<b>0.37</b>	-0.03
136100	680.5	Right	Cheek	Fig.51	23.46	24	0.276	<b>0.31</b>	0.388	<b>0.44</b>	0.08
136100	680.5	Right	Tilt	/	23.46	24	0.207	<b>0.23</b>	0.342	<b>0.39</b>	-0.06

Note1: All the results are for SA and ENDC.

**Table 14.2-14: SAR Values (5G NR n71-Body)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C				
Ch.	MHz	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
136100	680.5	Front	/	23.46	24	0.136	<b>0.15</b>	0.178	<b>0.20</b>	0.12
136100	680.5	Rear	/	23.46	24	0.178	<b>0.20</b>	0.239	<b>0.27</b>	-0.03
136100	680.5	Left	Fig.52	23.46	24	0.171	<b>0.19</b>	0.243	<b>0.28</b>	-0.04
136100	680.5	Right	/	23.46	24	0.156	<b>0.18</b>	0.224	<b>0.25</b>	0.13
136100	680.5	Top	/	23.46	24	0.03	<b>0.03</b>	0.055	<b>0.06</b>	0.04

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

Note2: All the results are for SA and ENDC.

**Table 14.2-15: SAR Values (5G NR n77-Head)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C					
Ch.	MHz	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
630668	3460.02	Left	Cheek	Fig.53	17.5	17.7	0.241	<b>0.25</b>	0.747	<b>0.78</b>	0.06
636000	3540	Left	Cheek	/	17.22	17.7	0.136	<b>0.15</b>	0.441	<b>0.49</b>	0.09
633334	3500.01	Left	Cheek	/	17.04	17.7	0.166	<b>0.19</b>	0.57	<b>0.66</b>	-0.15
630668	3460.02	Left	Tilt	/	17.5	17.7	0.065	<b>0.07</b>	0.157	<b>0.16</b>	0.06
630668	3460.02	Right	Cheek	/	17.5	17.7	0.047	<b>0.05</b>	0.119	<b>0.12</b>	-0.11
630668	3460.02	Right	Tilt	/	17.5	17.7	0.285	<b>0.30</b>	0.064	<b>0.07</b>	0.03
654800	3822	Left	Cheek	/	17.52	17.7	0.112	<b>0.12</b>	0.322	<b>0.34</b>	-0.06
654800	3822	Left	Tilt	/	17.52	17.7	0.05	<b>0.05</b>	0.126	<b>0.13</b>	-0.03
654800	3822	Right	Cheek	/	17.52	17.7	0.036	<b>0.04</b>	0.085	<b>0.09</b>	-0.12
654800	3822	Right	Tilt	/	17.52	17.7	0.024	<b>0.03</b>	0.056	<b>0.06</b>	0.13
630668	3460.02	Left	Cheek	Note1	12.48	13	0.115	<b>0.13</b>	0.388	<b>0.44</b>	0.09
630668	3460.02	Left	Tilt	Note1	12.48	13	0.031	<b>0.03</b>	0.089	<b>0.10</b>	-0.11
630668	3460.02	Right	Cheek	Note1	12.48	13	0.02	<b>0.02</b>	0.069	<b>0.08</b>	0.06
630668	3460.02	Right	Tilt	Note1	12.48	13	<0.01	<0.01	<0.01	<0.01	/
654800	3822	Left	Cheek	Note1	12.87	13	0.0429	<b>0.04</b>	0.134	<b>0.14</b>	0.04
654800	3822	Left	Tilt	Note1	12.87	13	0.02	<b>0.02</b>	0.049	<b>0.05</b>	-0.15
654800	3822	Right	Cheek	Note1	12.87	13	0.022	<b>0.02</b>	0.052	<b>0.05</b>	0.09
654800	3822	Right	Tilt	Note1	12.87	13	<0.01	<0.01	<0.01	<0.01	/

Note1: The results are for ENDC only. The other results are for SA.



**Table 14.2-16: SAR Values (5G NR n77-Body)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C				
Ch.	MHz	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
630668	3460.02	Front	/	18.52	18.7	0.071	<b>0.07</b>	0.163	<b>0.17</b>	-0.18
630668	3460.02	Rear	/	18.52	18.7	0.158	<b>0.16</b>	0.403	<b>0.42</b>	-0.01
630668	3460.02	Right	Fig.54	18.52	18.7	0.254	<b>0.26</b>	0.689	<b>0.72</b>	0.04
636000	3540	Right	/	18.23	18.7	0.176	<b>0.20</b>	0.464	<b>0.52</b>	0.15
633334	3500.01	Right	/	18.11	18.7	0.187	<b>0.21</b>	0.487	<b>0.56</b>	-0.15
630668	3460.02	Top	/	18.52	18.7	<0.01	<0.01	<0.01	<0.01	/
654800	3822	Front	/	18.54	18.7	0.034	<b>0.04</b>	0.079	<b>0.08</b>	-0.16
654800	3822	Rear	/	18.54	18.7	0.086	<b>0.09</b>	0.245	<b>0.25</b>	0.03
654800	3822	Right	/	18.54	18.7	0.1	<b>0.10</b>	0.253	<b>0.26</b>	0.13
654800	3822	Top	/	18.54	18.7	0.019	<b>0.02</b>	0.042	<b>0.04</b>	-0.16
630668	3460.02	Front	Note1	14.48	15	0.031	<b>0.03</b>	0.068	<b>0.08</b>	-0.11
630668	3460.02	Rear	Note1	14.48	15	0.069	<b>0.08</b>	0.162	<b>0.18</b>	-0.08
630668	3460.02	Right	Note1	14.48	15	0.113	<b>0.13</b>	0.312	<b>0.35</b>	0.07
630668	3460.02	Top	Note1	14.48	15	<0.01	<0.01	<0.01	<0.01	/
654800	3822	Front	Note1	14.87	15	0.022	<b>0.02</b>	0.054	<b>0.06</b>	0.15
654800	3822	Rear	Note1	14.87	15	0.096	<b>0.10</b>	0.254	<b>0.26</b>	-0.11
654800	3822	Right	Note1	14.87	15	0.097	<b>0.10</b>	0.237	<b>0.24</b>	-0.06
654800	3822	Top	Note1	14.87	15	0.045	<b>0.05</b>	0.121	<b>0.12</b>	0.07

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

Note2: The results are for ENDC only. The other results are for SA.

**Table 14.2-17: SAR Values (5G NR n78-Head)**

Frequency		Ambient Temperature: 22.9 °C					Liquid Temperature: 22.5 °C				
Ch.	MHz	Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
627144	3407.16	Left	Cheek	Fig.55	17.39	17.5	0.254	<b>0.26</b>	0.817	<b>0.84</b>	0.04
650000	3750	Left	Cheek	/	17	17.5	0.082	<b>0.09</b>	0.233	<b>0.26</b>	-0.11
646190	3692.85	Left	Cheek	/	16.92	17.5	0.107	<b>0.12</b>	0.309	<b>0.35</b>	0.06
642382	3635.73	Left	Cheek	/	17.29	17.5	0.117	<b>0.12</b>	0.353	<b>0.37</b>	-0.17
638572	3578.58	Left	Cheek	/	17.2	17.5	0.092	<b>0.10</b>	0.274	<b>0.29</b>	0.06
634762	3521.43	Left	Cheek	/	16.82	17.5	0.118	<b>0.14</b>	0.363	<b>0.42</b>	0.09
630954	3464.31	Left	Cheek	/	17.05	17.5	0.18	<b>0.20</b>	0.574	<b>0.64</b>	-0.12
623334	3350.01	Left	Cheek	/	17.31	17.5	0.239	<b>0.25</b>	0.786	<b>0.82</b>	0.08
627144	3407.16	Left	Tilt	/	17.39	17.5	0.057	<b>0.06</b>	0.14	<b>0.14</b>	0.06
627144	3407.16	Right	Cheek	/	17.39	17.5	0.047	<b>0.05</b>	0.113	<b>0.12</b>	-0.03
627144	3407.16	Right	Tilt	/	17.39	17.5	0.027	<b>0.03</b>	0.059	<b>0.06</b>	-0.11
627144	3407.16	Left	Cheek	Note1	12.88	13	0.101	<b>0.10</b>	0.32	<b>0.33</b>	0.04
627144	3407.16	Left	Tilt	Note1	12.88	13	0.037	<b>0.04</b>	0.056	<b>0.06</b>	-0.09
627144	3407.16	Right	Cheek	Note1	12.88	13	0.039	<b>0.04</b>	0.112	<b>0.12</b>	0.15
627144	3407.16	Right	Tilt	Note1	12.88	13	<0.01	<0.01	<0.01	<0.01	/

Note1: The results are for ENDC only. The other results are for SA.

**Table 14.2-18: SAR Values (5G NR n78-Body)**

Frequency		Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C				
Ch.	MHz	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
627144	3407.16	Front	/	18.45	18.6	0.114	<b>0.12</b>	0.279	<b>0.29</b>	-0.09
627144	3407.16	Rear	/	18.45	18.6	0.187	<b>0.19</b>	0.478	<b>0.49</b>	0.14
627144	3407.16	Right	/	18.45	18.6	0.337	<b>0.35</b>	0.908	<b>0.94</b>	0.11
650000	3750	Right	/	17.98	18.6	0.216	<b>0.25</b>	0.547	<b>0.63</b>	-0.16
646190	3692.85	Right	/	17.89	18.6	0.301	<b>0.35</b>	0.817	<b>0.96</b>	-0.13
642382	3635.73	Right	Fig.56	18.28	18.6	0.335	<b>0.36</b>	0.92	<b>0.99</b>	-0.05
638572	3578.58	Right	/	18.19	18.6	0.21	<b>0.23</b>	0.609	<b>0.67</b>	-0.01
634762	3521.43	Right	/	17.79	18.6	0.167	<b>0.20</b>	0.495	<b>0.60</b>	-0.16
630954	3464.31	Right	/	18.03	18.6	0.238	<b>0.27</b>	0.695	<b>0.79</b>	0.07
623334	3350.01	Right	/	18.06	18.6	0.261	<b>0.30</b>	0.732	<b>0.83</b>	-0.02
627144	3407.16	Top	/	18.45	18.6	0.03	<b>0.03</b>	0.062	<b>0.06</b>	0.06
627144	3407.16	Front	Note1	13.81	14	0.043	<b>0.04</b>	0.098	<b>0.10</b>	-0.15
627144	3407.16	Rear	Note1	13.81	14	0.081	<b>0.08</b>	0.201	<b>0.21</b>	-0.08
627144	3407.16	Right	Note1	13.81	14	0.14	<b>0.15</b>	0.387	<b>0.40</b>	0.08
627144	3407.16	Top	Note1	13.81	14	<0.01	<0.01	<0.01	<0.01	/

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

Note2: The results are for ENDC only. The other results are for SA.

### 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)**

Frequency		Side	Test Position	Note	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C		Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
Ch.	MHz				Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)			
11	2462	Left	Cheek	Note1	19.25	19.7	0.473	<b>0.52</b>	1.02	<b>1.13</b>	-0.01
6	2437	Left	Cheek	Note1	19.23	19.7	0.466	<b>0.52</b>	0.975	<b>1.09</b>	0.06
1	2412	Left	Cheek	Note1	19.18	19.7	0.467	<b>0.53</b>	0.978	<b>1.10</b>	-0.12
11	2462	Left	Tilt	Note1	19.25	19.7	0.361	<b>0.40</b>	0.785	<b>0.87</b>	0.03
11	2462	Right	Cheek	Note1	19.25	19.7	0.215	<b>0.24</b>	0.415	<b>0.46</b>	-0.11
11	2462	Right	Tilt	Note1	19.25	19.7	0.243	<b>0.27</b>	0.547	<b>0.61</b>	0.07
11	2462	Left	Cheek	Note2	13.98	14.2	0.118	<b>0.12</b>	0.248	<b>0.26</b>	0.02
11	2462	Left	Tilt	Note2	13.98	14.2	0.099	<b>0.10</b>	0.211	<b>0.22</b>	-0.06
11	2462	Right	Cheek	Note2	13.98	14.2	0.055	<b>0.06</b>	0.108	<b>0.11</b>	0.06
11	2462	Right	Tilt	Note2	13.98	14.2	0.052	<b>0.05</b>	0.118	<b>0.12</b>	-0.11

Note1: The results are for Wifi antenna transmit standalone.

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

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

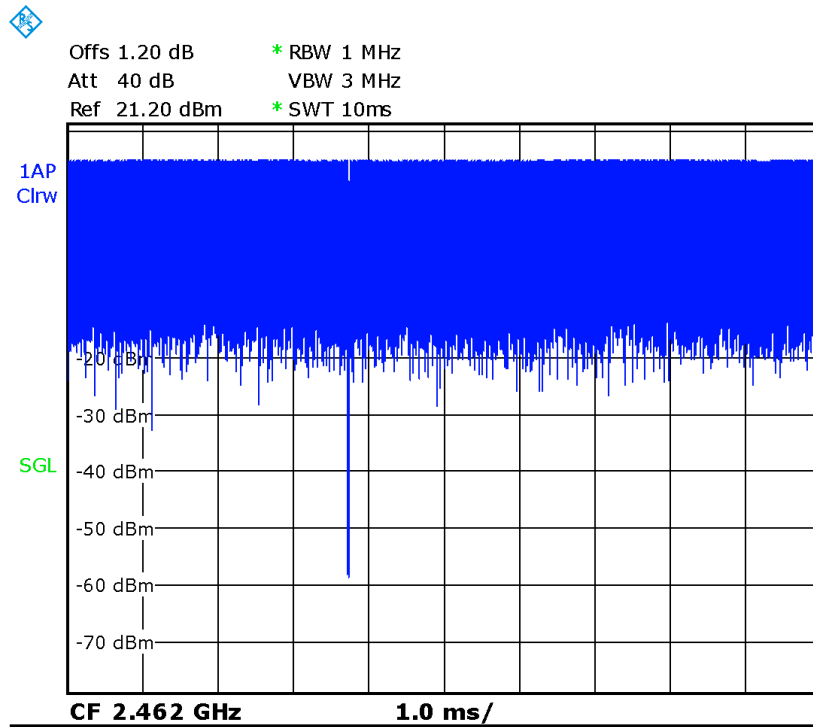
**Table 14.3-2: SAR Values (WLAN - Head)– 802.11b (Full SAR)**

Frequency		Side	Test Position	Figure No./ Note	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C		Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
Ch.	MHz				Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)			
11	2462	Left	Cheek	Fig.57	19.25	19.7	0.478	<b>0.53</b>	1.01	<b>1.12</b>	-0.01
6	2437	Left	Cheek	/	19.23	19.7	0.469	<b>0.52</b>	0.986	<b>1.10</b>	0.06
1	2412	Left	Cheek	/	19.18	19.7	0.463	<b>0.52</b>	0.981	<b>1.11</b>	-0.12
11	2462	Left	Tilt	/	19.25	19.7	0.367	<b>0.41</b>	0.795	<b>0.88</b>	0.03

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.



Picture 14.3-1 Duty factor plot

**Table 14.3-3: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)**

Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Ambient Temperature: 22.9 °C      Liquid Temperature: 22.5 °C	
Ch.	MHz					Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
11	2462	Left	Cheek	100%	100%	<b>1.12</b>	<b>1.12</b>

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

**Body Evaluation**
**Table 14.3-4: SAR Values (WLAN - Body)– 802.11b (Fast SAR)**

Frequency		Test Position	Figure No./ Note	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C				Power Drift (dB)
Ch.	MHz			Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	
11	2462	Front	Note1	19.25	19.7	0.121	<b>0.13</b>	0.233	<b>0.26</b>	0.07
11	2462	Rear	Note1	19.25	19.7	0.118	<b>0.13</b>	0.238	<b>0.26</b>	-0.02
11	2462	Right	Note1	19.25	19.7	0.092	<b>0.10</b>	0.18	<b>0.20</b>	0.12
11	2462	Top	Note1	19.25	19.7	0.096	<b>0.11</b>	0.189	<b>0.21</b>	0.16
11	2462	Front	Note2	18.62	19	0.0257	<b>0.03</b>	0.0541	<b>0.06</b>	0.14
11	2462	Rear	Note2	18.62	19	0.087	<b>0.09</b>	0.183	<b>0.20</b>	0.08
11	2462	Right	Note2	18.62	19	0.078	<b>0.09</b>	0.15	<b>0.16</b>	-0.11
11	2462	Top	Note2	18.62	19	0.053	<b>0.06</b>	0.102	<b>0.11</b>	0.09

Note1: The results are for Wifi antenna transmit standalone.

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

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

As shown above table, the initial test position for body is "Rear 10mm". So the body SAR of WLAN is presented as below:

**Table 14.3-5: SAR Values (WLAN - Body)– 802.11b (Full SAR)**

Frequency		Test Position	Figure No./ Note	Ambient Temperature: 22.9 °C		Liquid Temperature: 22.5°C				Power Drift (dB)
Ch.	MHz			Conducte d Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	
11	2462	Rear	Fig.58	19.25	19.7	0.116	<b>0.13</b>	0.242	<b>0.27</b>	-0.02

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

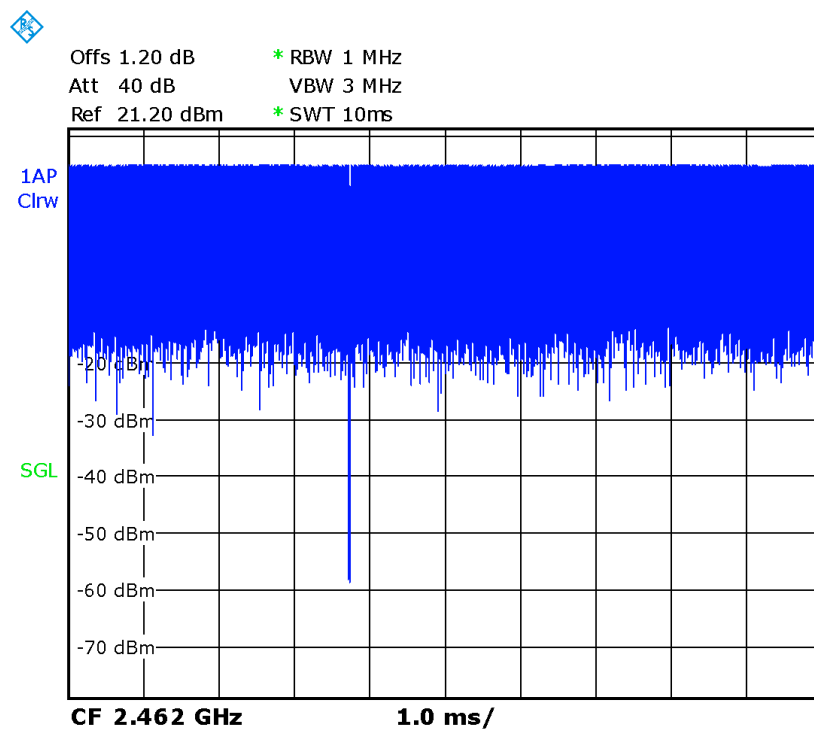
Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

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

**Table 14.3-6: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)**

Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
Ch.	MHz					
11	2462	Rear	100%	100%	<b>0.27</b>	<b>0.27</b>

SAR is not required for OFDM because the 802.11b adjusted SAR  $\leq 1.2$  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	
U-NII-2A	X		X	X	X	X	X	
U-NII-2C	X		X	X	X	X	X	
U-NII-3	X		X	X	X	X	X	
§ 15.247 (5.8 GHz)								

X: maximum(conducted) output power(mW), including tolerance, specified for production units

**Table 14.4-2: Maximum output power specified of WLAN antenna – Body (Transmit alone)**

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	63		62	62	62	62	62	
U-NII-2A	66		63	63	63	63	63	
U-NII-2C	63		62	62	62	62	62	
U-NII-3	63		60	60	60	60	60	
§ 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– Body (Transmit with WWAN)**

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	11		10	10	10	10	10	
U-NII-2A	11		10	10	10	10	10	
U-NII-2C	11		10	10	10	10	10	
U-NII-3	10		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 14.4-4: Maximum output power specified of WLAN antenna –  
Head (Transmit alone)**

802.11 mode	a	g	n		ac			
Ch. BW(MHz)	20	20	20	40	20	40	80	160
U-NII-1	45		43	43	43	43	43	
U-NII-2A	45		43	43	43	43	43	
U-NII-2C	45		43	43	43	43	43	
U-NII-3	43		42	42	42	42	42	
§ 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–  
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	7.9		7.6	7.6	7.6	7.6	7.6	
U-NII-2A	7.9		7.6	7.6	7.6	7.6	7.6	
U-NII-2C	7.9		7.6	7.6	7.6	7.6	7.6	
U-NII-3	7.9		7.6	7.6	7.6	7.6	7.6	
§ 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 – Body (Transmit alone)**

802.11 Mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 <b>51/54/55/56</b>	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 <b>63/61/61/61</b>	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/ <b>128/</b> 132/140/144 <b>50/51/50/51/53/53</b> <b>/54/60/55/56/56/56</b>	100/116/124/ 132/140/144 Lower power	102/110/118/ 126/134/142 Lower power	100/116/124/ 132/140/144 Lower power	102/110/126 /134/142 Lower power	106/122/ 138 Lower power
U-NII-3	149/153/157/ 161/ <b>165</b> <b>56/55/55/56/57</b>	149/157/165 Lower power	151/159 Lower power	149/157/165 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 – 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 <b>6.6/7.0/7.3/7.5</b>	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	<b>52/56/60/64</b> <b>7.4/7.1/6.7/6.5</b>	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/ <b>124</b> /128/ 132/140/144 <b>6.1/6.0/6.4/6.7/7.0/7.4</b> <b>7.6/7.6/6.8/6.7/6.5</b> /6.4	100/116/124/ 132/140/144 Lower power	102/110/118/ 126/134/142 Lower power	100/116/124/ 132/140/144 Lower power	102/110/126/ /134/142 Lower power	106/122/ 138 Lower power
U-NII-3	<b>149/153/157/</b> 161/165 <b>16.4/14.9/13.7/</b> <b>12.8/13.7</b>	149/157/165 Lower power	151/159 Lower power	149/157/165 Lower power	151/159 Lower power	155 Lower power
<ul style="list-style-type: none"> <li>● The <b>bold numbers</b> is the maximum output measured power (mW).</li> <li>● Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are <b>highlighted in yellow</b>.</li> </ul>						

**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 – Head (Transmit alone)**

802.11 Mode	a	n		ac		
BW(MHz)	20	20	40	20	40	80
U-NII-1	36/40/44/48 <b>32/36/38/40</b>	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 41/37/33/31	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	100/104/108/112/16/120/124/128/132/140/144 29/28/31/34/37/41/43/43/35/34/33/32	100/116/124/132/140/144 Lower power	102/110/118/126/134/142 Lower power	100/116/124/132/140/144 Lower power	102/110/126/134/142 Lower power	106/122/138 Lower power
U-NII-3	149/153/157/161/165 29/32/34/38/40	149/157/165 Lower power	151/159 Lower power	149/157/165 Lower power	151/159 Lower power	155 Lower power
<ul style="list-style-type: none"> <li>● The <b>bold numbers</b> is the maximum output measured power (mW).</li> <li>● Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are <b>highlighted in yellow</b>.</li> </ul>						

**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 – 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 <b>8.4/8.9/</b> <b>9.3/9.6</b>	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	<b>52/56/60/64</b> <b>9.5/9.0/8.5/8.1</b>	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	100/104/108/112/1 16/120/ <b>124/128/</b> 132/140/144 <b>7.9/7.7/8.3/</b> <b>8.8/9.3/9.8/10.2/10</b> <b>/9.0/8.7/8.5/8.4</b>	100/116/124/ 132/140/144 Lower power	102/110/118/ 126/134/142 Lower power	100/116/124/ 132/140/144 Lower power	102/110/126 /134/142 Lower power	106/122/ 138 Lower power
U-NII-3	<b>149/153/157/</b> 161/ <b>165</b> <b>7.5/7.9/8.3/</b> <b>8.8/9.1</b>	149/157/165 Lower power	151/159 Lower power	149/157/165 Lower power	151/159 Lower power	155 Lower power
<ul style="list-style-type: none"> <li>● The <b>bold numbers</b> is the maximum output measured power (mW).</li> <li>● Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are <b>highlighted in yellow</b>.</li> </ul>						

**Table 14.4-10: Reported SAR of initial test configuration for Head**

802.11 mode	a	n		ac		
	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 1.17/1.00	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 1.01/1.11	100/104/108/112/ 116/120/124/128/ 132/136/140/144	102/110/ 118/126/ 134/142	100/104/108/112 /116/120/124/12 8/132/136/140/1 44	102/110 /118/12 6/134/1 42	106/12 2
U-NII-3	149/153/157/161/165 0.62	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.

The green highlighted channels are next highest measured output channel in the initial test configuration.

**Table 14.4-11: Reported SAR of initial test configuration for Body**

802.11 mode	a	n		ac		
	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 0.44	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 0.79	100/104/108/112/ 116/120/124/128/ 132/136/140/144	102/110/ 118/126/ 134/142	100/104/108/112 /116/120/124/12 8/132/136/140/1 44	102/110 /118/12 6/134/1 42	106/12 2
U-NII-3	149/153/157/161/165 0.63	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: SAR Values (WLAN 5G - Head)**

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
52	5260	Left	Cheek	Note1	16.12	16.5	0.292	<b>0.32</b>	0.953	<b>1.04</b>	0.06
56	5280	Left	Cheek	Note1	15.65	16.5	0.236	<b>0.29</b>	0.731	<b>0.89</b>	-0.15
52	5260	Left	Tilt	Note1/Fig.59	16.12	16.5	0.306	<b>0.33</b>	1.07	<b>1.17</b>	0.08
56	5280	Left	Tilt	Note1	15.65	16.5	0.247	<b>0.30</b>	0.821	<b>1.00</b>	0.09
52	5260	Right	Cheek	Note1	16.12	16.5	0.112	<b>0.12</b>	0.292	<b>0.32</b>	-0.11
52	5260	Right	Tilt	Note1	16.12	16.5	0.144	<b>0.16</b>	0.383	<b>0.42</b>	0.16
124	5620	Left	Cheek	Note1	16.37	16.5	0.317	<b>0.33</b>	0.982	<b>1.01</b>	0.04
128	5640	Left	Cheek	Note1	16.29	16.5	0.315	<b>0.33</b>	1.06	<b>1.11</b>	0.08
124	5620	Left	Tilt	Note1	16.37	16.5	0.218	<b>0.22</b>	0.648	<b>0.67</b>	0.06
124	5620	Right	Cheek	Note1	16.37	16.5	0.091	<b>0.09</b>	0.221	<b>0.23</b>	0.06
124	5620	Right	Tilt	Note1	16.37	16.5	0.099	<b>0.10</b>	0.237	<b>0.24</b>	-0.11
165	5825	Left	Cheek	Note1	16	16.3	0.161	<b>0.17</b>	0.577	<b>0.62</b>	0.09
165	5825	Left	Tilt	Note1	16	16.3	0.125	<b>0.13</b>	0.452	<b>0.48</b>	0.06
165	5825	Right	Cheek	Note1	16	16.3	0.058	<b>0.06</b>	0.181	<b>0.19</b>	-0.11
165	5825	Right	Tilt	Note1	16	16.3	0.053	<b>0.06</b>	0.169	<b>0.18</b>	0.09
52	5260	Left	Cheek	Note2	8.7	9	0.041	<b>0.04</b>	0.121	<b>0.13</b>	-0.02
52	5260	Left	Tilt	Note2	8.7	9	0.05	<b>0.05</b>	0.163	<b>0.17</b>	0.11
52	5260	Right	Cheek	Note2	8.7	9	0.027	<b>0.03</b>	0.084	<b>0.09</b>	-0.03
52	5260	Right	Tilt	Note2	8.7	9	0.03	<b>0.03</b>	0.095	<b>0.10</b>	-0.14
124	5620	Left	Cheek	Note2	8.82	9	0.054	<b>0.06</b>	0.182	<b>0.19</b>	0.06
124	5620	Left	Tilt	Note2	8.82	9	0.051	<b>0.05</b>	0.171	<b>0.18</b>	-0.08
124	5620	Right	Cheek	Note2	8.82	9	0.008	<b>0.01</b>	0.042	<b>0.04</b>	-0.08
124	5620	Right	Tilt	Note2	8.82	9	0.009	<b>0.01</b>	0.046	<b>0.05</b>	-0.07
165	5825	Left	Cheek	Note2	8.82	9	0.03	<b>0.03</b>	0.11	<b>0.11</b>	-0.06
165	5825	Left	Tilt	Note2	8.82	9	0.024	<b>0.03</b>	0.09	<b>0.09</b>	0.01
165	5825	Right	Cheek	Note2	8.82	9	0.011	<b>0.01</b>	0.061	<b>0.06</b>	-0.15
165	5825	Right	Tilt	Note2	8.82	9	0.008	<b>0.01</b>	0.045	<b>0.05</b>	0.06

Note1: The results are for Wifi antenna transmit standalone.

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

**Table 14.4-9: SAR Values (WLAN 5G - Body)**

Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
52	5260	Front	Note1	17.97	18.2	0.088	<b>0.09</b>	0.218	<b>0.23</b>	-0.11
52	5260	Rear	Note1	17.97	18.2	0.065	<b>0.07</b>	0.166	<b>0.18</b>	0.01
52	5260	Right	Note1	17.97	18.2	0.153	<b>0.16</b>	0.419	<b>0.44</b>	0.06
52	5260	Top	Note1	17.97	18.2	0.145	<b>0.15</b>	0.382	<b>0.40</b>	-0.10
128	5640	Front	Note1	17.79	18	0.151	<b>0.16</b>	0.392	<b>0.41</b>	0.05
128	5640	Rear	Note1	17.79	18	0.192	<b>0.20</b>	0.582	<b>0.61</b>	0.17
128	5640	Right	Note1/Fig.60	17.79	18	0.266	<b>0.28</b>	0.757	<b>0.79</b>	0.08
128	5640	Top	Note1	17.79	18	0.159	<b>0.17</b>	0.401	<b>0.42</b>	-0.12
165	5825	Front	Note1	17.54	18	0.102	<b>0.11</b>	0.257	<b>0.29</b>	0.14
165	5825	Rear	Note1	17.54	18	0.168	<b>0.19</b>	0.498	<b>0.55</b>	0.09
165	5825	Right	Note1	17.54	18	0.213	<b>0.24</b>	0.564	<b>0.63</b>	-0.17
165	5825	Top	Note1	17.54	18	0.126	<b>0.14</b>	0.327	<b>0.36</b>	0.01
52	5260	Front	Note2	9.76	10.5	0.02	<b>0.02</b>	0.07	<b>0.08</b>	-0.10
52	5260	Rear	Note2	9.76	10.5	0.011	<b>0.01</b>	0.052	<b>0.06</b>	0.03
52	5260	Right	Note2	9.76	10.5	0.03	<b>0.04</b>	0.086	<b>0.10</b>	0.14
52	5260	Top	Note2	9.76	10.5	0.015	<b>0.02</b>	0.073	<b>0.09</b>	-0.02
124	5620	Front	Note2	10.07	10.5	0.025	<b>0.03</b>	0.071	<b>0.08</b>	0.18
124	5620	Rear	Note2	10.07	10.5	0.029	<b>0.03</b>	0.087	<b>0.10</b>	0.09
124	5620	Right	Note2	10.07	10.5	0.045	<b>0.05</b>	0.134	<b>0.15</b>	0.04
124	5620	Top	Note2	10.07	10.5	0.024	<b>0.03</b>	0.059	<b>0.07</b>	-0.10
165	5825	Front	Note2	9.59	10	0.017	<b>0.02</b>	0.07	<b>0.08</b>	-0.05
165	5825	Rear	Note2	9.59	10	0.03	<b>0.03</b>	0.086	<b>0.09</b>	0.18
165	5825	Right	Note2	9.59	10	0.03	<b>0.03</b>	0.073	<b>0.08</b>	0.17
165	5825	Top	Note2	9.59	10	0.02	<b>0.02</b>	0.073	<b>0.08</b>	-0.10

Note1: The results are for Wifi antenna transmit standalone.

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

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



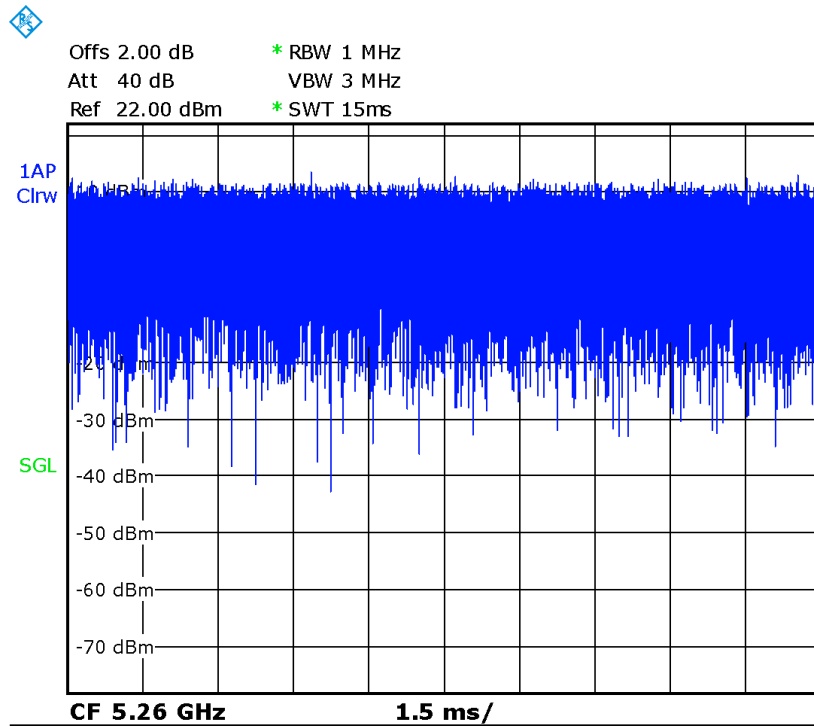
According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

**Table 14.4-10: 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						
52	5260	Left	Tilt	100%	100%	<b>1.17</b>	<b>1.17</b>

**Table 14.4-11: SAR Values (WLAN 5G - Body) (Scaled Reported SAR)**

Frequency		Test Position	Distance (mm)	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
Ch.	MHz						
128	5640	Right	10	100%	100%	<b>0.79</b>	<b>0.79</b>



**Picture 14.4-1 The plot of duty factor for WIFI5G**

### 14.5 SAR results for BT

**Table 14.5-1: SAR Values (BT - Head)**

Frequency		Side	Test Position	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
Ch.	MHz									
0	2402	Left	Cheek	9.57	11	<0.01	<0.01	<0.01	<0.01	/
0	2402	Left	Tilt	9.57	11	<0.01	<0.01	<0.01	<0.01	/
0	2402	Right	Cheek	9.57	11	<0.01	<0.01	<0.01	<0.01	/
0	2402	Right	Tilt	9.57	11	<0.01	<0.01	<0.01	<0.01	/

**Table 14.5-2: SAR Values (BT - Body)**

Frequency		Test Position	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
Ch.	MHz								
0	2402	Front	9.57	11	<0.01	<0.01	<0.01	<0.01	/
0	2402	Rear	9.57	11	<0.01	<0.01	<0.01	<0.01	/
0	2402	Right	9.57	11	<0.01	<0.01	<0.01	<0.01	/
0	2402	Top	9.57	11	<0.01	<0.01	<0.01	<0.01	/

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

#### **14.6 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  $\leq 25$  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

## 15 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is  $< 0.80$  W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq 0.80$  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  $\geq 1.45$  W/kg ( $\sim 10\%$  from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$

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

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
251	848.8	Left Cheek	0.912	0.902	1.01	/
251	848.8	Right Cheek	1.09	1.06	1.03	/

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

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
661	1880	Left Cheek	1.11	1.07	1.04	/

**Table 15.3: SAR Measurement Variability for Body WCDMA1900 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
9262	1852.4	Right 10mm	0.916	0.903	1.01	/

**Table 15.4: SAR Measurement Variability for Head WCDMA1700 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
1513	1752.6	Left Cheek	0.921	0.911	1.01	/

**Table 15.5: SAR Measurement Variability for Head WCDMA850 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
4233	846.6	Right Cheek	0.862	0.845	1.02	/

**Table 15.6: SAR Measurement Variability for Head LTE Band7 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
20850	2510	Right Cheek	0.952	0.935	1.02	/

**Table 15.7: SAR Measurement Variability for Body LTE Band7 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
20850	2510	Left 10mm	0.925	0.902	1.03	/

**Table 15.8: SAR Measurement Variability for Head LTE Band25 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
26140	1860	Left Cheek	0.822	0.803	1.02	/

**Table 15.9: SAR Measurement Variability for Body LTE Band48 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
56640	3690	Right 10mm	0.881	0.856	1.03	/

**Table 15.10: SAR Measurement Variability for Head LTE Band66 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
132572	1770	Left Cheek	0.831	0.815	1.02	/

**Table 15.11: SAR Measurement Variability for Body LTE Band66 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
132572	1770	Rear 10mm	0.848	0.823	1.03	/
132572	1770	Right 10mm	1.1	1.07	1.03	/

**Table 15.12: SAR Measurement Variability for Head n5 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
169300	846.5	Left Cheek	0.899	0.878	1.02	/
167300	836.5	Right Cheek	1.08	1.05	1.03	/

**Table 15.13: SAR Measurement Variability for Body n25 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
370500	1860	Right 10mm	1.01	0.989	1.02	/

**Table 15.14: SAR Measurement Variability for Body n66 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
355500	1777.5	Right 10mm	0.831	0.825	1.01	/

**Table 15.15: SAR Measurement Variability for Head n41 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
501204	2506.02	Right Cheek	0.824	0.815	1.01	/

**Table 15.16: SAR Measurement Variability for Body n41 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
501204	2506.02	Rear 10mm	0.945	0.932	1.01	/
501204	2506.02	Left 10mm	0.981	0.977	1.00	/

**Table 15.17: SAR Measurement Variability for Head n78 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
627144	3407.16	Left Cheek	0.817	0.802	1.02	/

**Table 15.18: SAR Measurement Variability for Body n78 (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
642382	3635.73	Right 10mm	0.92	0.906	1.02	/

**Table 15.19: SAR Measurement Variability for Head WIFI2.4G (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
11	2462	Left Cheek	1.01	0.977	1.03	/

**Table 15.20: SAR Measurement Variability for Head WIFI5G (1g)**

Frequency		Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz					
128	5640	Left Cheek	1.06	1.03	1.03	/
52	5260	Left Tilt	1.07	1.04	1.03	/

## 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
<b>Measurement system</b>										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	$\infty$
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	$\infty$
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	$\infty$
5	Detection limit	B	1.0	N	1	1	1	0.6	0.6	$\infty$
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	$\infty$
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	$\infty$
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	$\infty$
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
11	Probe positioned mech. restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	$\infty$
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	$\infty$
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
<b>Test sample related</b>										
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	$\infty$
<b>Phantom and set-up</b>										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	$\infty$
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	$\infty$
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	$\infty$
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
<b>Measurement system</b>										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	$\infty$
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	$\infty$
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	$\infty$
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	$\infty$
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	$\infty$
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	$\infty$
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	$\infty$
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
11	Probe positioned mech. restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	$\infty$
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	$\infty$
13	Post-processing	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	$\infty$
<b>Test sample related</b>										
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	$\infty$
<b>Phantom and set-up</b>										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	$\infty$
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	$\infty$
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	$\infty$

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
<b>Measurement system</b>										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	$\infty$
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	$\infty$
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	$\infty$
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	$\infty$
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	$\infty$
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	$\infty$
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
11	Probe positioned mech. Restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	$\infty$
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	$\infty$
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
14	Fast SAR z-Approximation	B	7.0	R	$\sqrt{3}$	1	1	4.0	4.0	$\infty$
<b>Test sample related</b>										
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	$\infty$
<b>Phantom and set-up</b>										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	$\infty$
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	$\infty$

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	$\infty$
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
<b>Measurement system</b>										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	$\infty$
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	$\infty$
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	$\infty$
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	$\infty$
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	$\infty$
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	$\infty$
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	$\infty$
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
11	Probe positioned mech. Restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	$\infty$
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	$\infty$
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
14	Fast SAR z-Approximation	B	14.0	R	$\sqrt{3}$	1	1	8.1	8.1	$\infty$
<b>Test sample related</b>										
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	$\infty$
<b>Phantom and set-up</b>										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	$\infty$
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	$\infty$
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	$\infty$
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, 2022	One year
02	Power meter	NRP2	106276	May 11, 2021	One year
03	Power sensor	NRP6A	101369		
04	Signal Generator	E4438C	MY49070393	May 14, 2021	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	CMW500	159850	January 24, 2022	One year
07	E-field Probe	SPEAG EX3DV4	7548	June 25, 2021	One year
08	DAE	SPEAG DAE4	1331	September 1, 2021	One year
09	Dipole Validation Kit	SPEAG D750V3	1017	July 12,,2021	One year
10	Dipole Validation Kit	SPEAG D835V2	4d069	July 21,,2021	One year
11	Dipole Validation Kit	SPEAG D1750V2	1003	July 12,,2021	One year
12	Dipole Validation Kit	SPEAG D1900V2	5d101	July 15,2021	One year
13	Dipole Validation Kit	SPEAG D2450V2	853	July 26,2021	One year
14	Dipole Validation Kit	SPEAG D2600V2	1012	July 26,2021	One year
15	Dipole Validation Kit	SPEAG D3500V2	1016	June 21,2021	One year
16	Dipole Validation Kit	SPEAG D3700V2	1004	June 21,2021	One year
17	Dipole Validation Kit	SPEAG D5GHzV2	1060	June 21,2021	One year

\*\*\*END OF REPORT BODY\*\*\*

## ANNEX A Graph Results

### GSM850\_CH251 Right Cheek

Date:2/21/2022

Electronics: DAE4 Sn1331

Medium: head 835 MHz

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.875$  S/m;  $\epsilon_r = 45.318$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: GSM850 848.8 MHz Duty Cycle: 1:2.67

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.48 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.23 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.74 W/kg

**SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.758 W/kg**

Maximum value of SAR (measured) = 1.47 W/kg

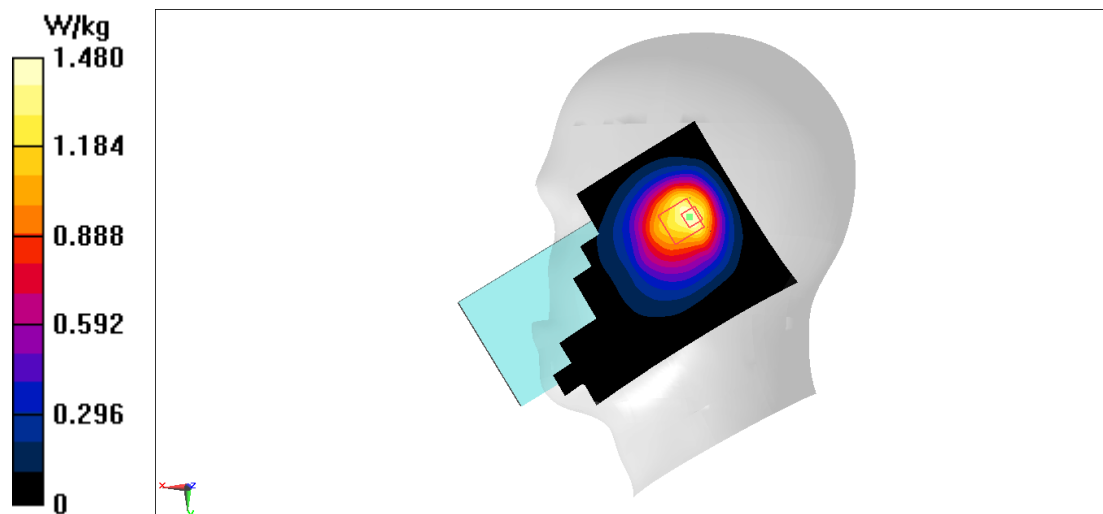


Fig A.1

**GSM850\_CH251 Rear 10mm**

Date:2/21/2022

Electronics: DAE4 Sn1331

Medium: head 835 MHz

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.875$  S/m;  $\epsilon_r = 45.318$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: GSM850 848.8 MHz Duty Cycle: 1:2.67

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.386 W/kg

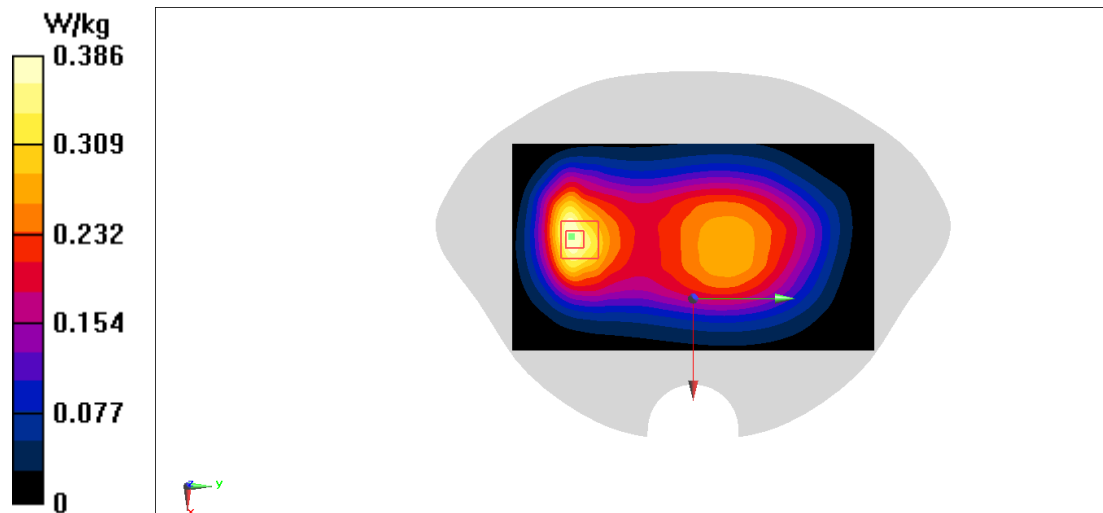
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.71 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.429 W/kg

**SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.188 W/kg**

Maximum value of SAR (measured) = 0.368 W/kg

**Fig A.2**

**PCS1900\_CH661 Left Cheek**

Date: 2/23/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.459$  S/m;  $\epsilon_r = 43.127$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: PCS1900 1880 MHz Duty Cycle: 1:2.67

Probe: EX3DV4 – SN7548 ConvF(7.88,7.88,7.88)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.70 W/kg

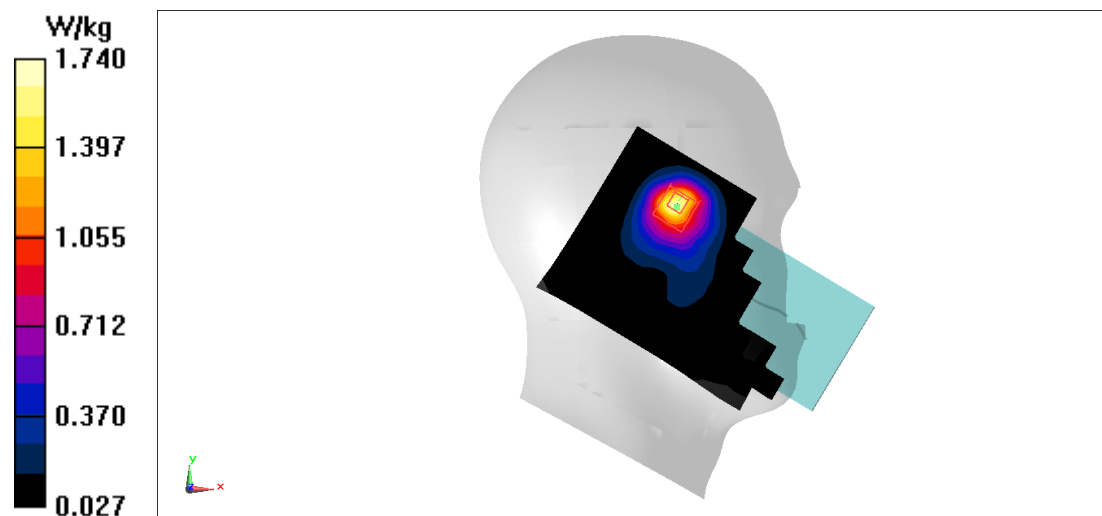
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.591 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.24 W/kg

**SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.566 W/kg**

Maximum value of SAR (measured) = 1.74 W/kg

**Fig A.3**



**PCS1900\_CH661 Rear 10mm**

Date: 2/23/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.459$  S/m;  $\epsilon_r = 43.127$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: PCS1900 1880 MHz Duty Cycle: 1:2.67

Probe: EX3DV4 – SN7548 ConvF(7.88,7.88,7.88)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.813 W/kg

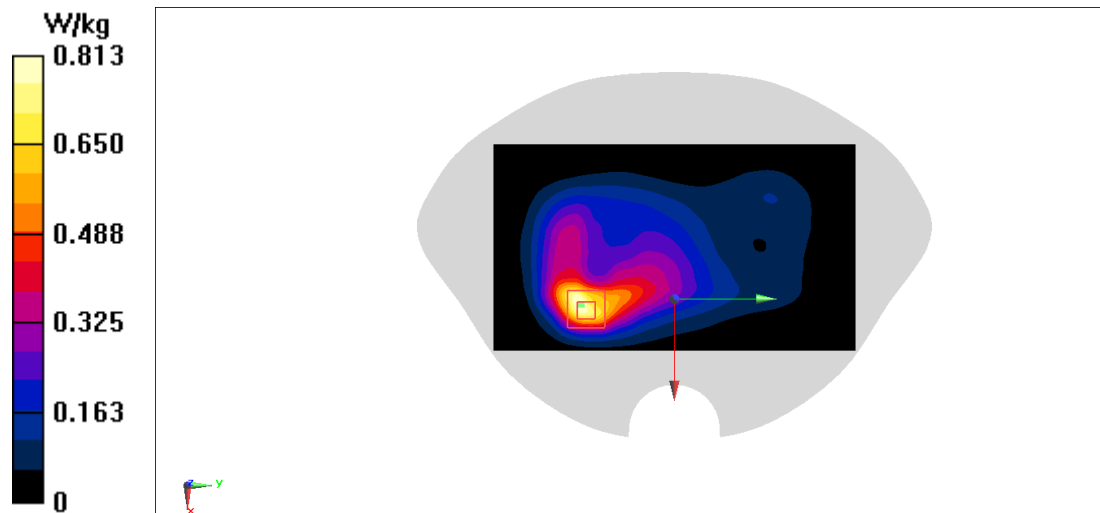
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.50 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.303 W/kg**

Maximum value of SAR (measured) = 0.851 W/kg

**Fig A.4**

**WCDMA1900-BII\_CH9262 Left Cheek**

Date: 2/23/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.441$  S/m;  $\epsilon_r = 43.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88,7.88,7.88)

**Area Scan (81x141x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 1.23 W/kg

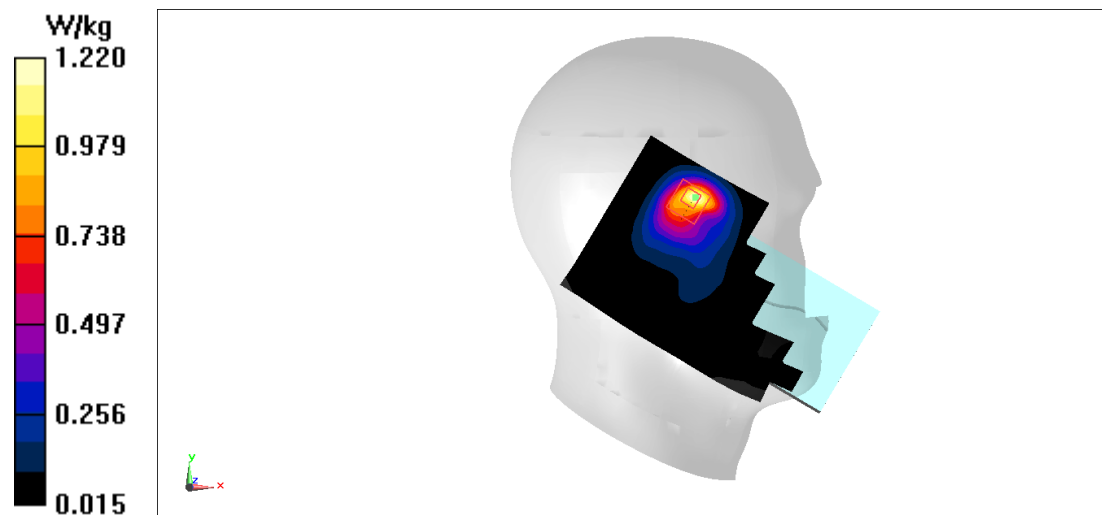
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.542 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.729 W/kg; SAR(10 g) = 0.374 W/kg**

Maximum value of SAR (measured) = 1.22 W/kg

**Fig A.5**

**WCDMA1900-BII\_CH9262 Right 10mm**

Date: 2/23/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.441$  S/m;  $\epsilon_r = 43.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88,7.88,7.88)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.42 W/kg

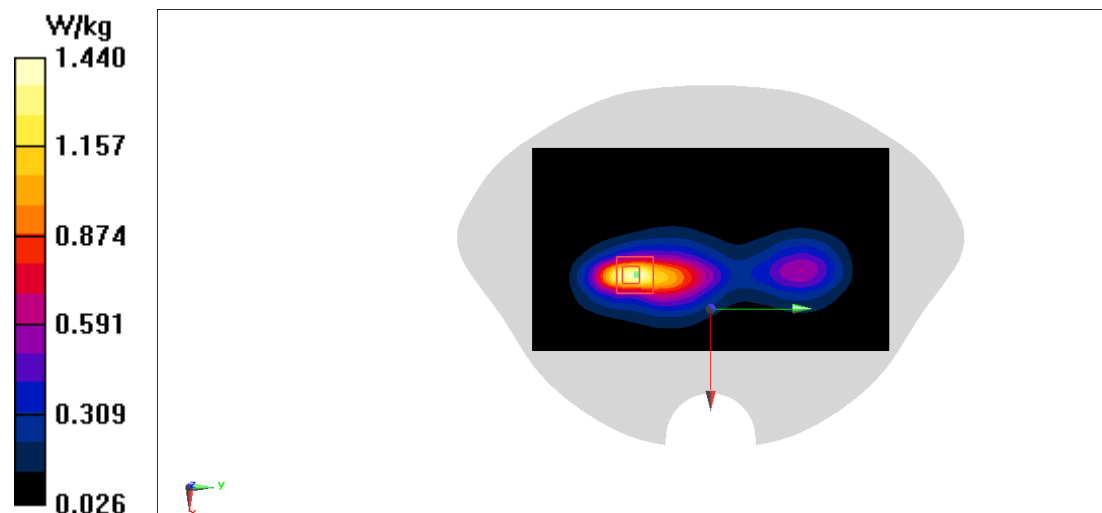
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.33 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.75 W/kg

**SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.483 W/kg**

Maximum value of SAR (measured) = 1.44 W/kg

**Fig A.6**

**WCDMA1700-BIV\_CH1513 Left Cheek**

Date: 2/22/2022

Electronics: DAE4 Sn1331

Medium: head 1750 MHz

Medium parameters used:  $f = 1752.6$  MHz;  $\sigma = 1.383$  S/m;  $\epsilon_r = 43.375$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: WCDMA1700-BIV 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(8.14,8.14,8.14)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.66 W/kg

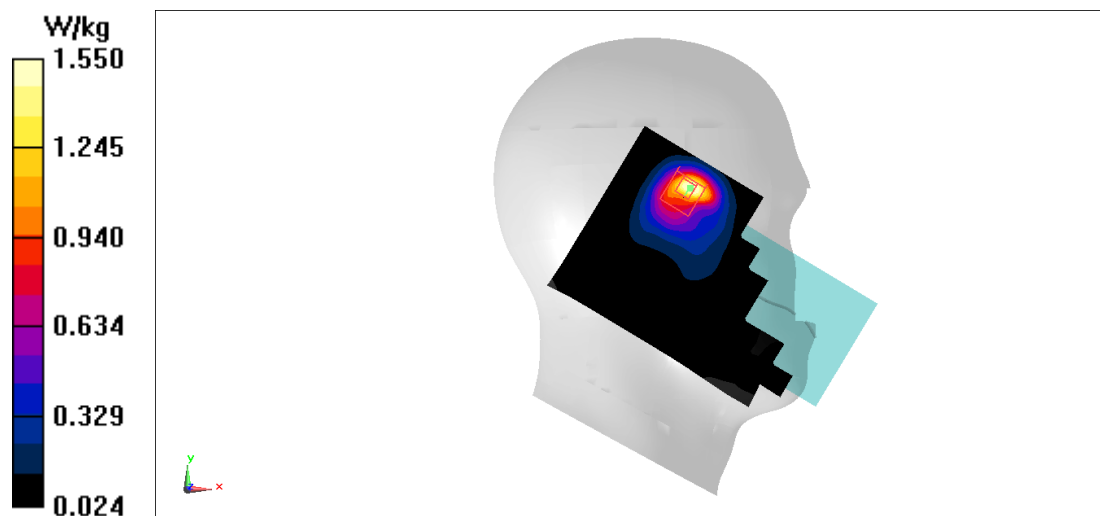
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.239 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.91 W/kg

**SAR(1 g) = 0.921 W/kg; SAR(10 g) = 0.453 W/kg**

Maximum value of SAR (measured) = 1.55 W/kg



**Fig A.7**

**WCDMA1700-BIV\_CH1513 Right 10mm**

Date: 2/22/2022

Electronics: DAE4 Sn1331

Medium: head 1750 MHz

Medium parameters used:  $f = 1752.6$  MHz;  $\sigma = 1.387$  S/m;  $\epsilon_r = 42.792$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: WCDMA1700-BIV 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(8.14,8.14,8.14)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.18 W/kg

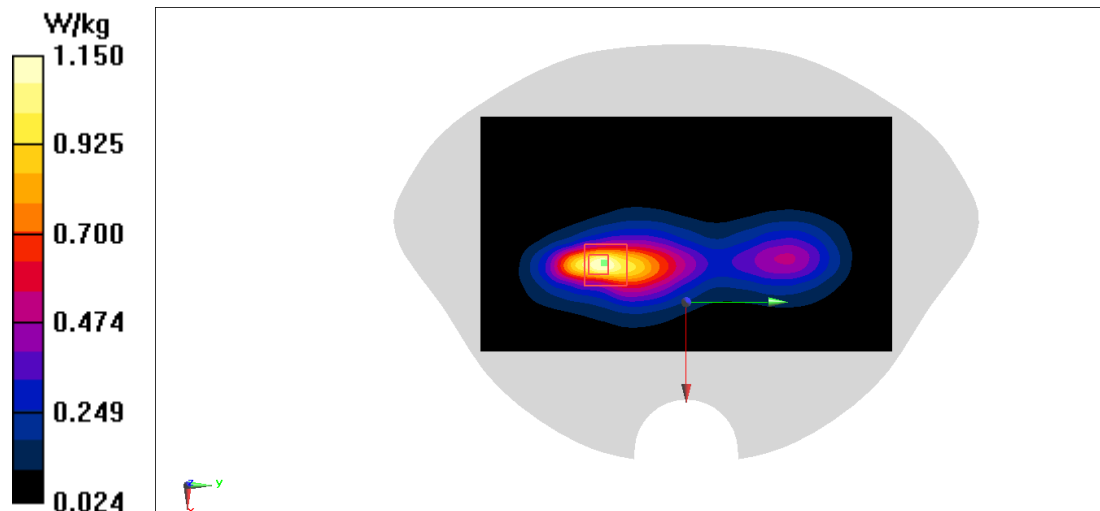
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.12 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.39 W/kg

**SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.408 W/kg**

Maximum value of SAR (measured) = 1.15 W/kg



**Fig A.8**

**WCDMA850-BV\_CH4233 Right Cheek**

Date: 2/21/2022

Electronics: DAE4 Sn1331

Medium: head 835 MHz

Medium parameters used:  $f = 846.6$  MHz;  $\sigma = 0.858$  S/m;  $\epsilon_r = 45.438$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: WCDMA850-BV 846.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.39 W/kg

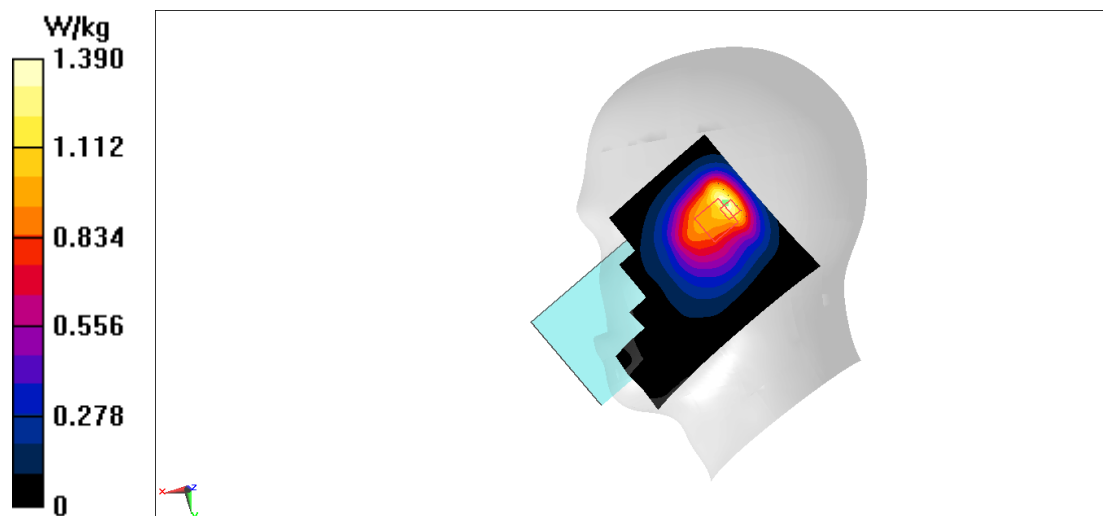
**Zoom Scan (8x9x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.30 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.46 W/kg

**SAR(1 g) = 0.862 W/kg; SAR(10 g) = 0.626 W/kg**

Maximum value of SAR (measured) = 1.20 W/kg

**Fig A.9**

**WCDMA850-BV\_CH4132 Rear 10mm**

Date: 2/21/2022

Electronics: DAE4 Sn1331

Medium: head 835 MHz

Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.864$  S/m;  $\epsilon_r = 45.248$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: WCDMA850-BV 826.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.277 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.45 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.309 W/kg

**SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.177 W/kg**

Maximum value of SAR (measured) = 0.280 W/kg

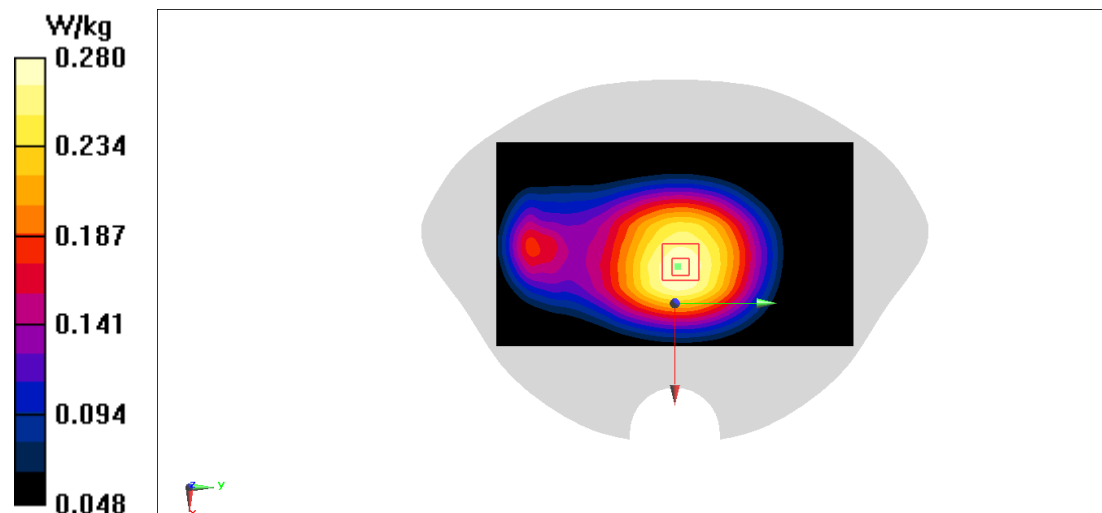


Fig A.10

**LTE1900-FDD2 ANT1\_CH19100 Left Cheek**

Date: 2/23/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.473$  S/m;  $\epsilon_r = 43.074$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE1900-FDD2 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88, 7.88, 7.88)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.132 W/kg

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.499 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.162 W/kg

**SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.065 W/kg**

Maximum value of SAR (measured) = 0.134 W/kg

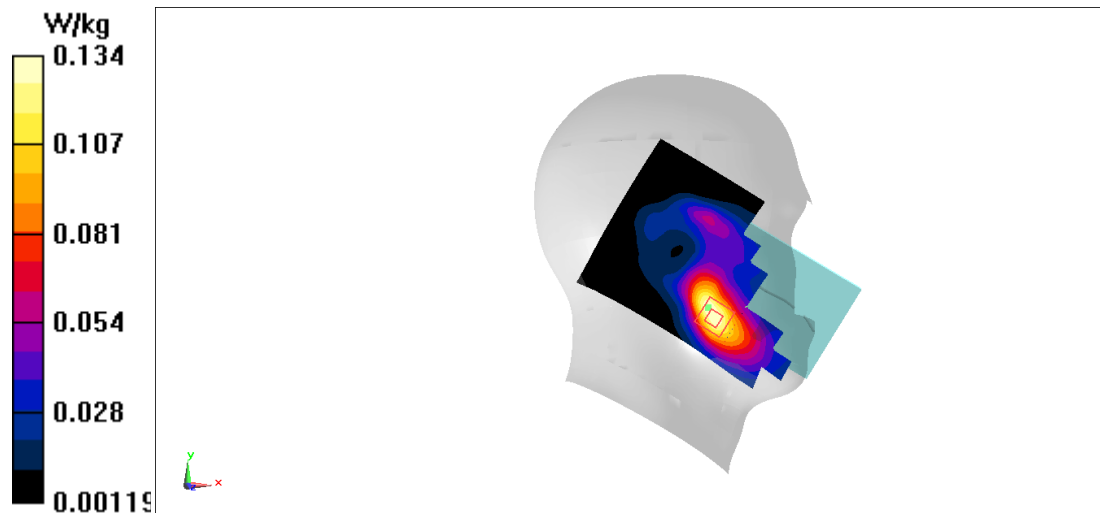


Fig A.11



**LTE1900-FDD2 ANT1\_CH19100 Bottom 10mm**

Date: 2/23/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.473$  S/m;  $\epsilon_r = 43.074$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE1900-FDD2 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88, 7.88, 7.88)

**Area Scan (41x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.220 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.037 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.258 W/kg

**SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.080 W/kg**

Maximum value of SAR (measured) = 0.214 W/kg

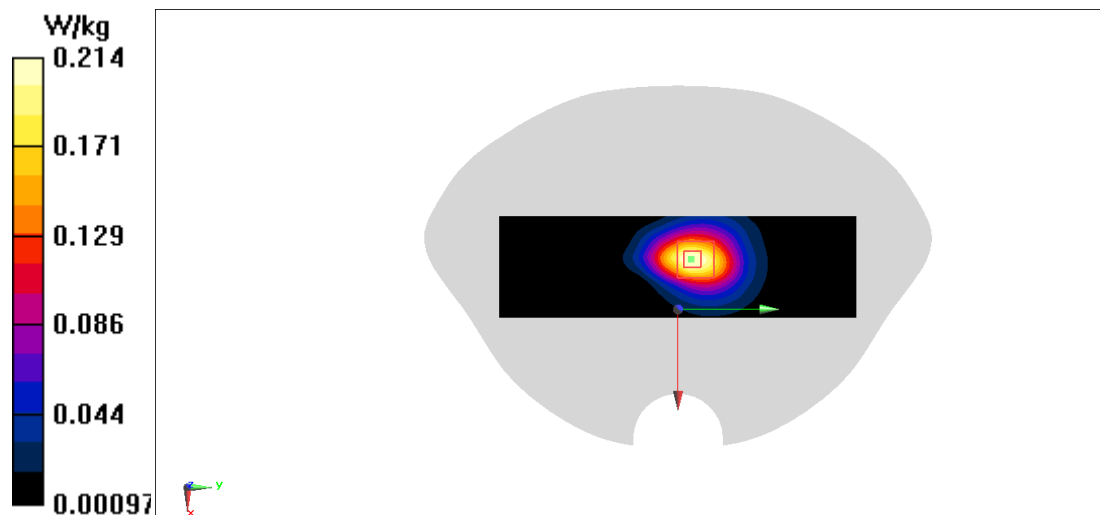


Fig A.12

**LTE850-FDD5\_CH20600 Right Cheek**

Date: 2/21/2022

Electronics: DAE4 Sn1331

Medium: head 835 MHz

Medium parameters used:  $f = 844$  MHz;  $\sigma = 0.843$  S/m;  $\epsilon_r = 44.089$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE850-FDD5 844 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36, 10.36, 10.36)

**Area Scan (81x141x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 1.03 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 29.71 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.570 W/kg**

Maximum value of SAR (measured) = 1.09 W/kg

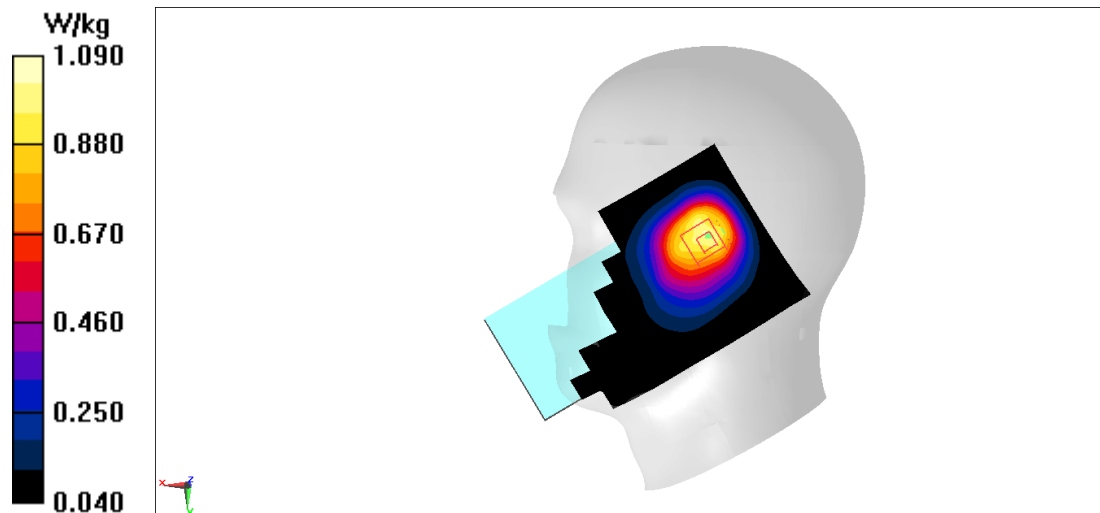


Fig A.13

**LTE850-FDD5\_CH20600 Top 10mm**

Date: 2/21/2022

Electronics: DAE4 Sn1331

Medium: head 835 MHz

Medium parameters used:  $f = 844 \text{ MHz}$ ;  $\sigma = 0.843 \text{ S/m}$ ;  $\epsilon_r = 44.089$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE850-FDD5 844 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36, 10.36, 10.36)

**Area Scan (41x141x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.184 W/kg

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 10.61 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.333 W/kg

**SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.067 W/kg**

Maximum value of SAR (measured) = 0.220 W/kg

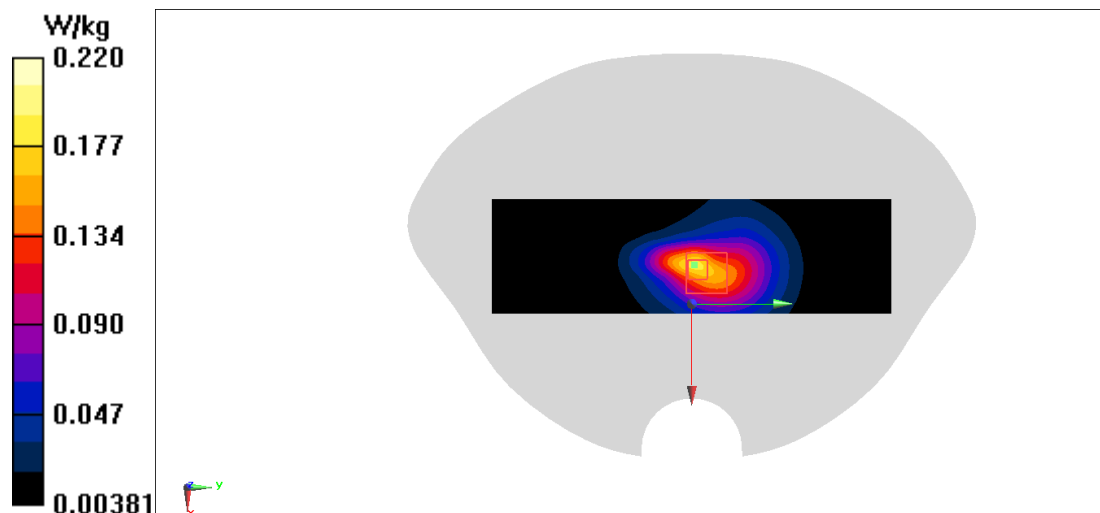


Fig A.14

**LTE2500-FDD7\_CH20850 Right Cheek**

Date: 3/7/2022

Electronics: DAE4 Sn1331

Medium: head 2600 MHz

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 2.023$  S/m;  $\epsilon_r = 40.971$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE2500-FDD7 2510 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.11,7.11,7.11)

**Area Scan (101x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.83 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.393 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.34 W/kg

**SAR(1 g) = 0.952 W/kg; SAR(10 g) = 0.419 W/kg**

Maximum value of SAR (measured) = 1.70 W/kg

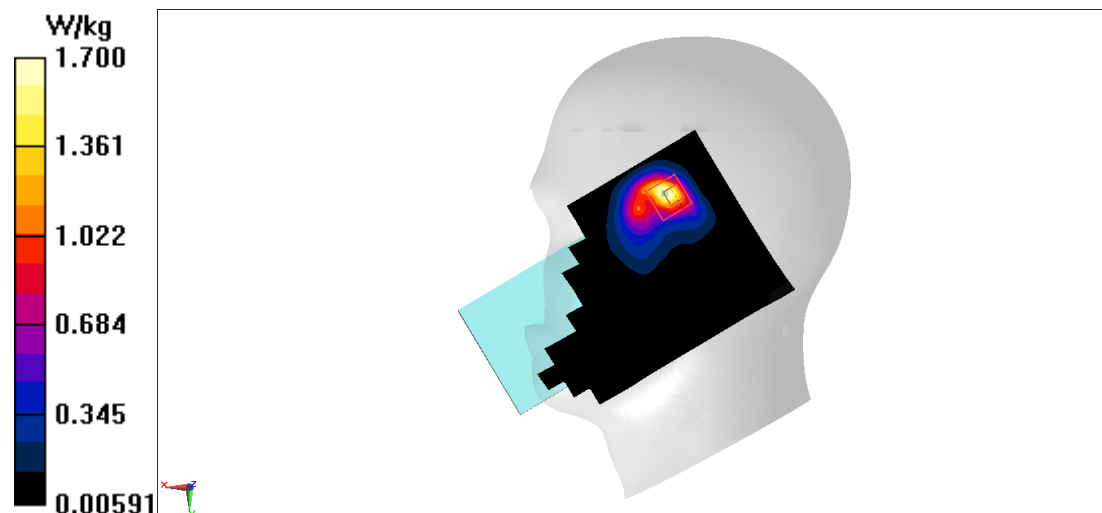


Fig A.15

**LTE2500-FDD7\_CH20850 Left 10mm**

Date: 3/7/2022

Electronics: DAE4 Sn1331

Medium: head 2600 MHz

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 2.023$  S/m;  $\epsilon_r = 40.971$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE2500-FDD7 2510 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.11,7.11,7.11)

**Area Scan (51x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.52 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.41 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.94 W/kg

**SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.434 W/kg**

Maximum value of SAR (measured) = 1.56 W/kg

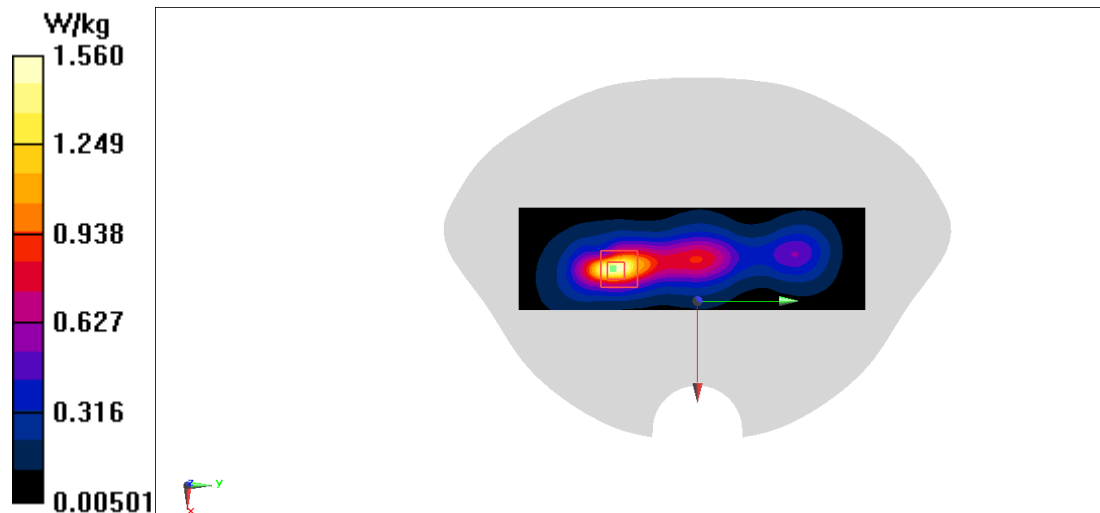


Fig A.16

**LTE700-FDD12\_CH23060 Left Tilt**

Date: 2/18/2022

Electronics: DAE4 Sn1331

Medium: head 750 MHz

Medium parameters used:  $f = 704$  MHz;  $\sigma = 0.831$  S/m;  $\epsilon_r = 45.524$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE700-FDD12 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.429 W/kg

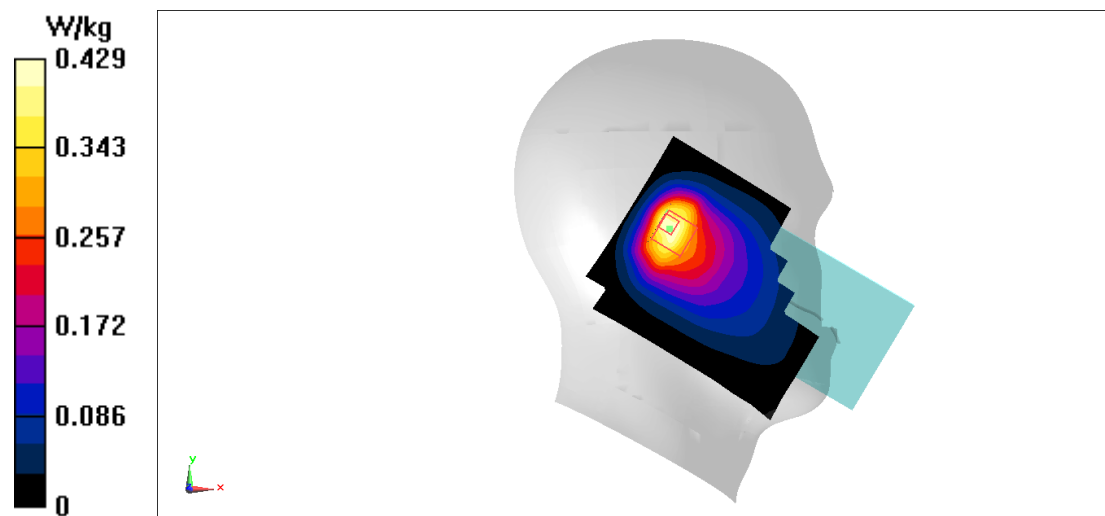
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.59 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.902 W/kg

**SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.198 W/kg**

Maximum value of SAR (measured) = 0.550 W/kg

**Fig A.17**

**LTE700-FDD12\_CH23060 Left 10mm**

Date: 2/18/2022

Electronics: DAE4 Sn1331

Medium: head 750 MHz

Medium parameters used:  $f = 704 \text{ MHz}$ ;  $\sigma = 0.831 \text{ S/m}$ ;  $\epsilon_r = 45.524$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE700-FDD12 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.213 W/kg

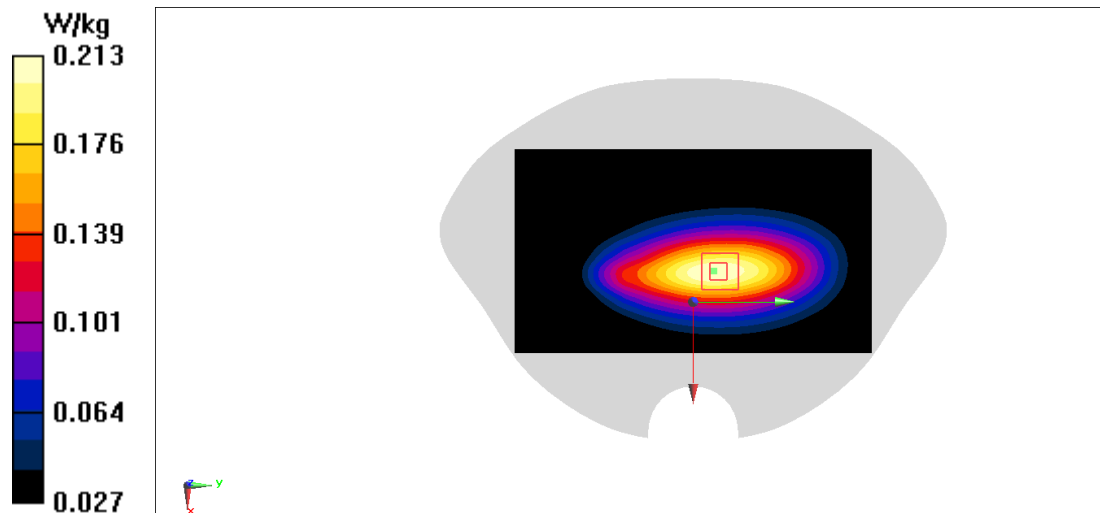
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 13.47 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.245 W/kg

**SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.115 W/kg**

Maximum value of SAR (measured) = 0.213 W/kg



**Fig A.18**

**LTE750-FDD13\_CH23230 Right Cheek**

Date: 2/18/2022

Electronics: DAE4 Sn1331

Medium: head 750 MHz

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.865 \text{ S/m}$ ;  $\epsilon_r = 45.209$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.820 W/kg

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 23.35 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.890 W/kg

**SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.351 W/kg**

Maximum value of SAR (measured) = 0.683 W/kg

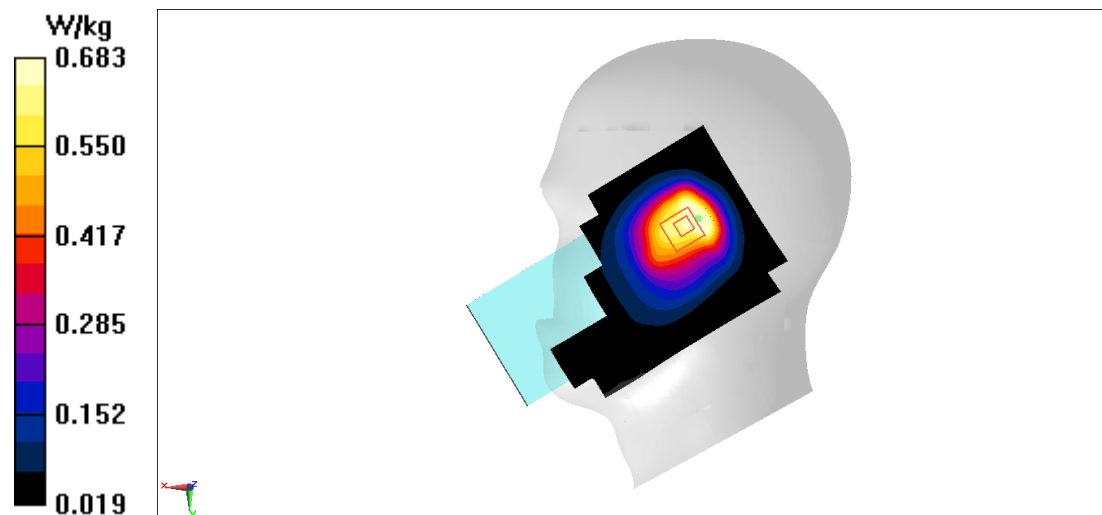


Fig A.19



**LTE750-FDD13\_CH23230 Rear 10mm**

Date: 2/18/2022

Electronics: DAE4 Sn1331

Medium: head 750 MHz

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.865 \text{ S/m}$ ;  $\epsilon_r = 45.209$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.287 W/kg

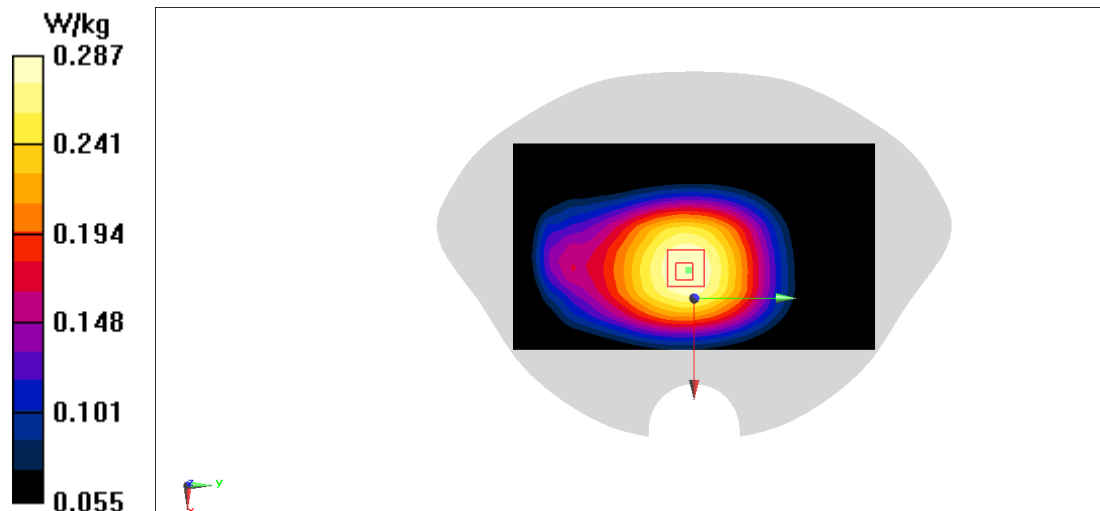
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 16.67 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.319 W/kg

**SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.188 W/kg**

Maximum value of SAR (measured) = 0.287 W/kg

**Fig A.20**

**LTE1900-FDD25 ANT2\_CH26140 Left Cheek**

Date: 2/23/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.446$  S/m;  $\epsilon_r = 43.179$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE1900-FDD25 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88, 7.88, 7.88)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.23 W/kg

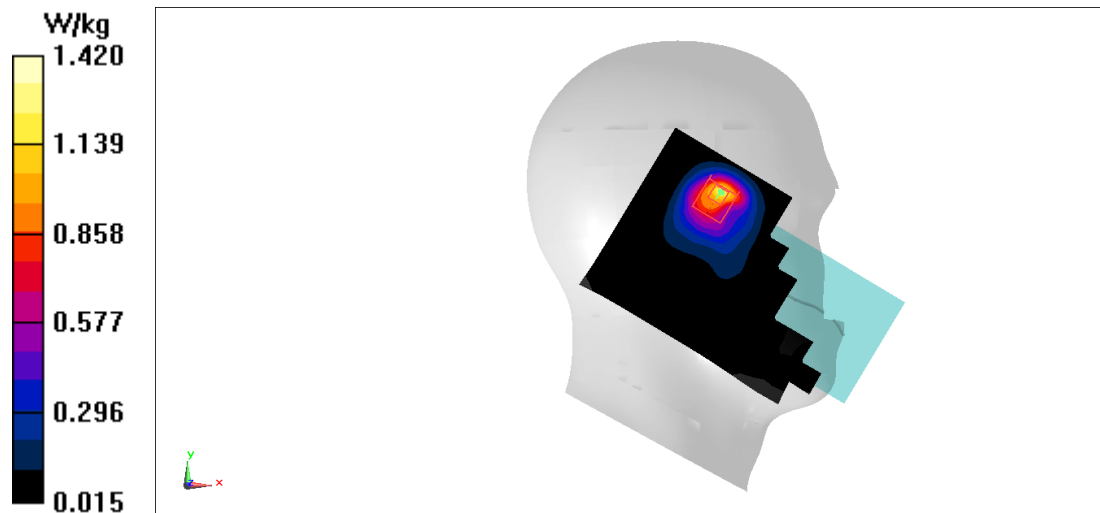
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.913 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.72 W/kg

**SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.407 W/kg**

Maximum value of SAR (measured) = 1.42 W/kg



**Fig A.21**

**LTE1900-FDD25 ANT2\_CH26140 Right 10mm**

Date: 2/23/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1882.5$  MHz;  $\sigma = 1.495$  S/m;  $\epsilon_r = 42.321$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE1900-FDD25 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88, 7.88, 7.88)

**Area Scan (41x141x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 1.39 W/kg

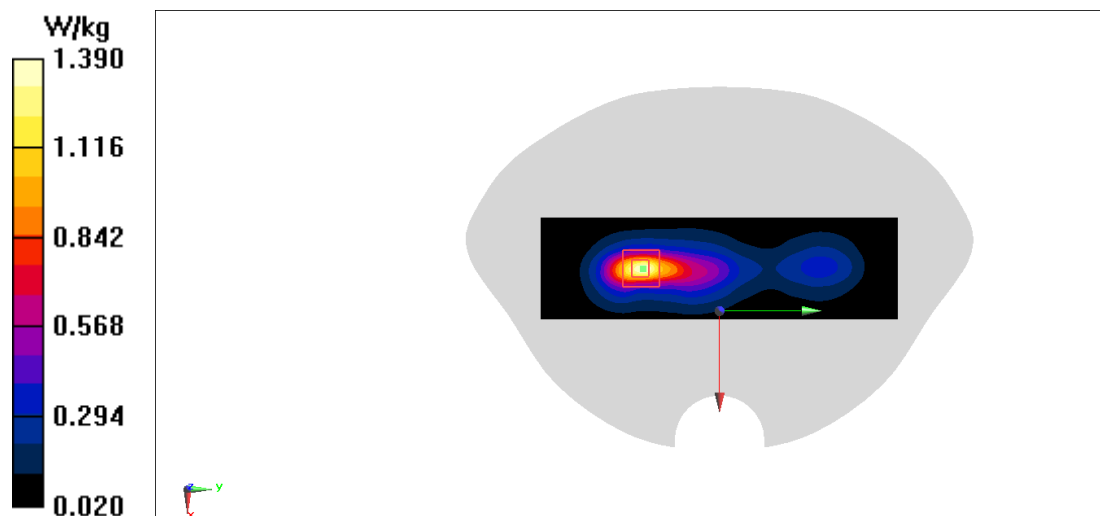
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 15.43 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 0.633 W/kg; SAR(10 g) = 0.322 W/kg**

Maximum value of SAR (measured) = 1.39 W/kg

**Fig A.22**

**LTE1900-FDD25 ANT1\_CH26365 Left Cheek**

Date: 2/23/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1882.5$  MHz;  $\sigma = 1.436$  S/m;  $\epsilon_r = 41.535$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE1900-FDD25 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88, 7.88, 7.88)

**Area Scan (101x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.170 W/kg

**Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.318 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.188 W/kg

**SAR(1 g) = 0.120 W/kg; SAR(10 g) = 0.074 W/kg**

Maximum value of SAR (measured) = 0.161 W/kg

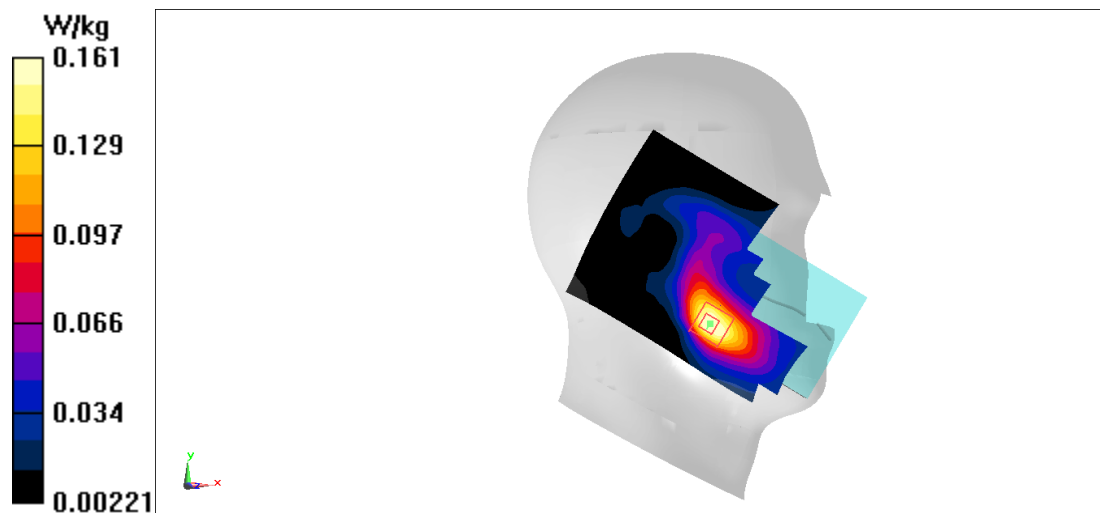


Fig A.23

**LTE1900-FDD25 ANT2\_CH26365 Bottom 10mm**

Date: 2/23/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1882.5$  MHz;  $\sigma = 1.495$  S/m;  $\epsilon_r = 42.321$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE1900-FDD25 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88, 7.88, 7.88)

**Area Scan (81x141x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.233 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 11.07 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.278 W/kg

**SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.090 W/kg**

Maximum value of SAR (measured) = 0.234 W/kg

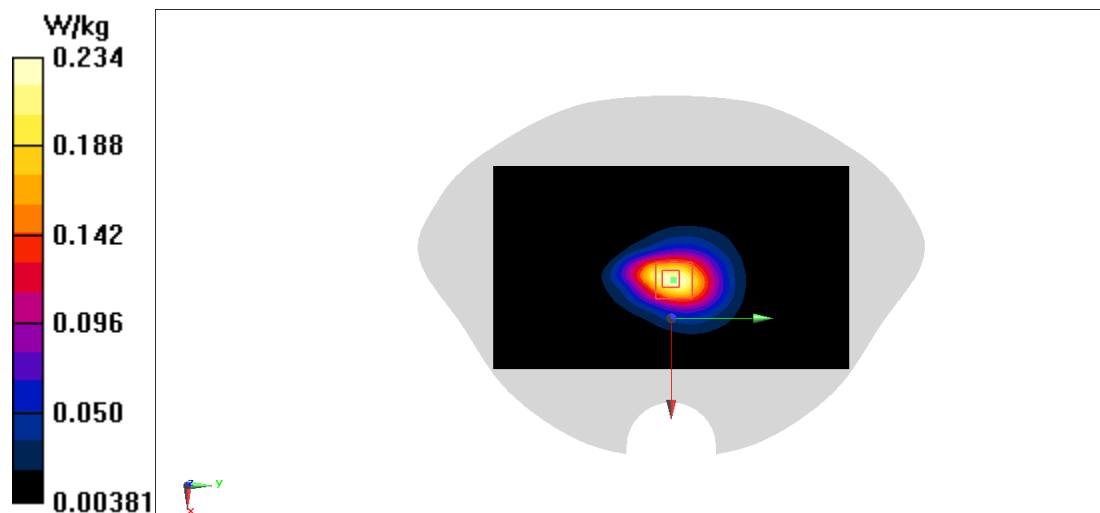


Fig A.24

**LTE850-FDD26\_CH26865 Right Cheek**

Date: 2/21/2022

Electronics: DAE4 Sn1331

Medium: head 835 MHz

Medium parameters used:  $f = 831.5$  MHz;  $\sigma = 0.887$  S/m;  $\epsilon_r = 44.992$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE850-FDD26 831.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.26 W/kg

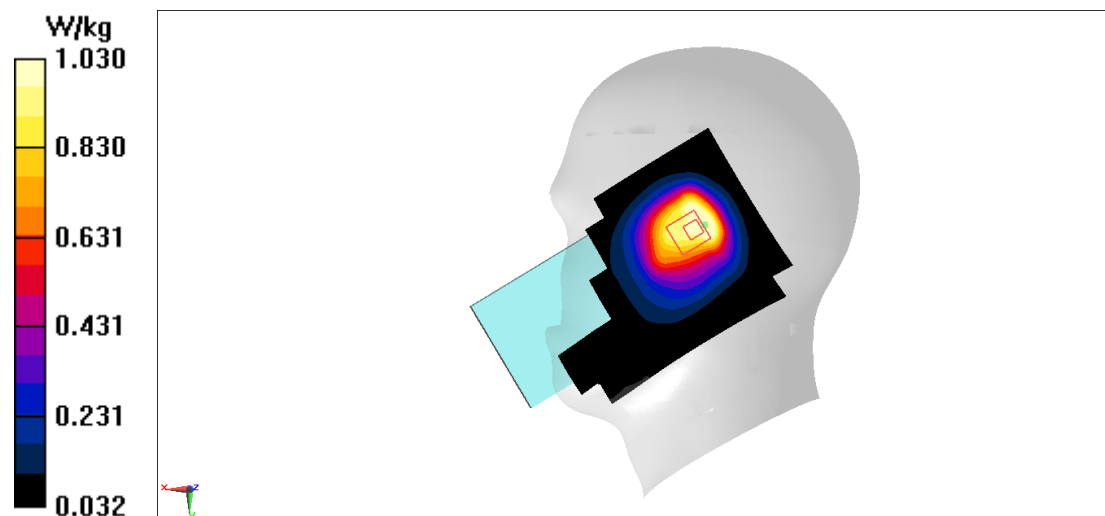
**Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.00 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.780 W/kg; SAR(10 g) = 0.563 W/kg**

Maximum value of SAR (measured) = 1.03 W/kg

**Fig A.25**

**LTE850-FDD26\_CH26965 Top 10mm**

Date: 2/21/2022

Electronics: DAE4 Sn1331

Medium: head 835 MHz

Medium parameters used:  $f = 831.5$  MHz;  $\sigma = 0.887$  S/m;  $\epsilon_r = 44.992$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE850-FDD26 831.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.276 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.44 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.316 W/kg

**SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.185 W/kg**

Maximum value of SAR (measured) = 0.287 W/kg

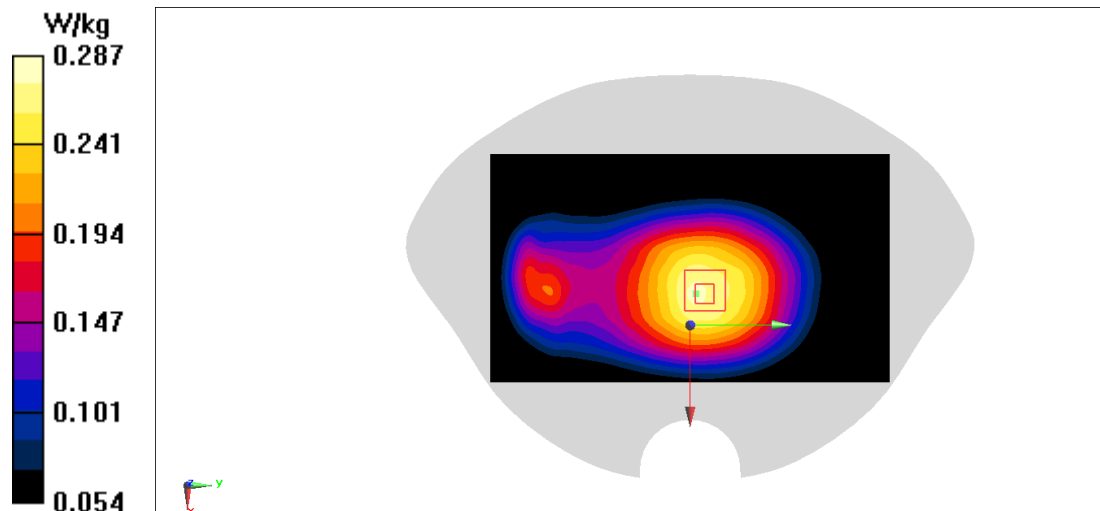


Fig A.26

**LTE2600-TDD38\_CH38150 Right Cheek**

Date: 3/7/2022

Electronics: DAE4 Sn1331

Medium: head 2600 MHz

Medium parameters used:  $f = 2610$  MHz;  $\sigma = 2.097$  S/m;  $\epsilon_r = 40.406$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE2600-TDD38 2610 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN7548 ConvF(7.11,7.11,7.11)

**Area Scan (101x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.302 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.770 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.429 W/kg

**SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.085 W/kg**

Maximum value of SAR (measured) = 0.322 W/kg

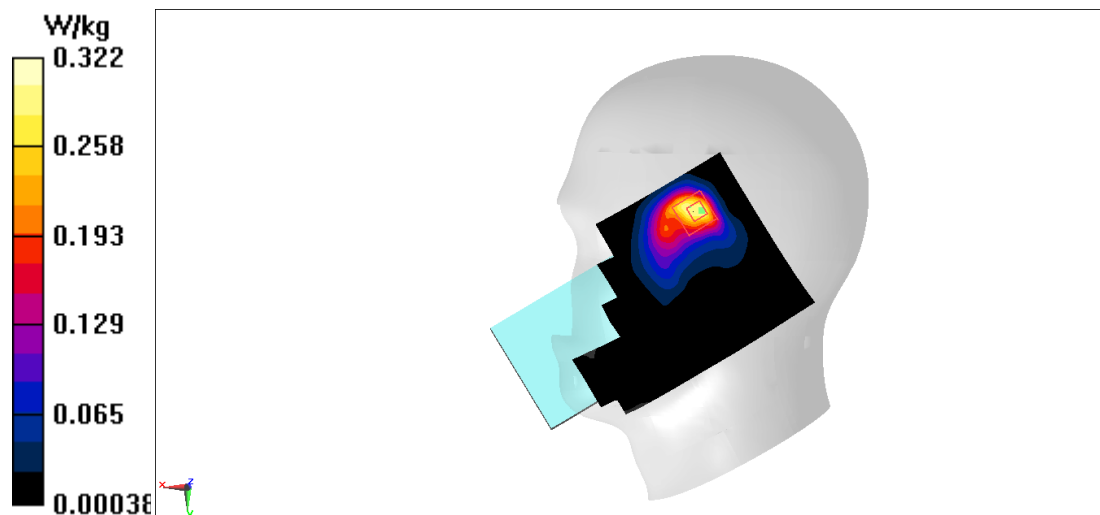


Fig A.27



**LTE2600-TDD38\_CH38150 Left 10mm**

Date: 3/7/2022

Electronics: DAE4 Sn1331

Medium: head 2600 MHz

Medium parameters used:  $f = 2610$  MHz;  $\sigma = 2.097$  S/m;  $\epsilon_r = 40.406$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE2600-TDD38 2610 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN7548 ConvF(7.11,7.11,7.11)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.323 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.660 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.460 W/kg

**SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.105 W/kg**

Maximum value of SAR (measured) = 0.363 W/kg

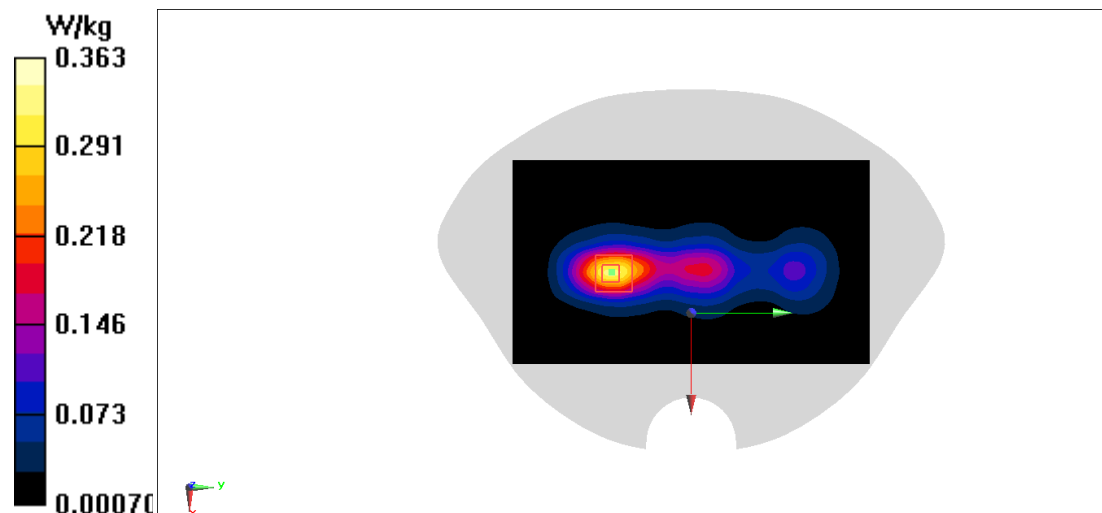


Fig A.28

**LTE2500-TDD41\_CH40620 Right Cheek**

Date: 3/7/2022

Electronics: DAE4 Sn1331

Medium: head 2600 MHz

Medium parameters used:  $f = 2593$  MHz;  $\sigma = 2.098$  S/m;  $\epsilon_r = 40.774$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE2500-TDD41 2593 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN7548 ConvF(7.11,7.11,7.11)

**Area Scan (101x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.82 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.336 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.26 W/kg

**SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.237 W/kg**

Maximum value of SAR (measured) = 1.69 W/kg

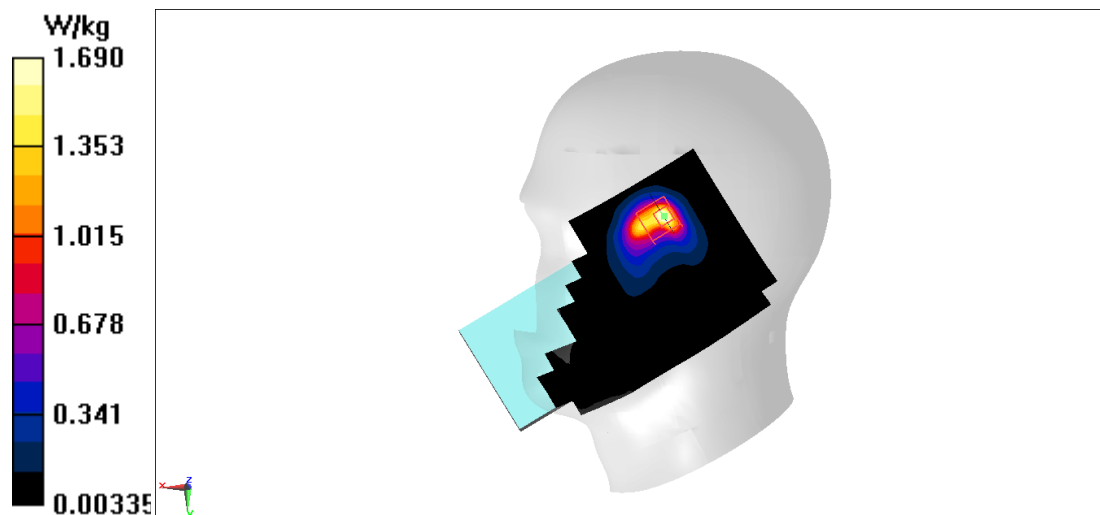


Fig A.29

**LTE2500-TDD41\_CH40620 Left 10mm**

Date: 3/7/2022

Electronics: DAE4 Sn1331

Medium: head 2600 MHz

Medium parameters used:  $f = 2593$  MHz;  $\sigma = 2.098$  S/m;  $\epsilon_r = 40.774$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE2500-TDD41 2593 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN7548 ConvF(7.11,7.11,7.11)

**Area Scan (101x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.805 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.12 V/m; Power Drift = -0.33 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.232 W/kg**

Maximum value of SAR (measured) = 0.827 W/kg

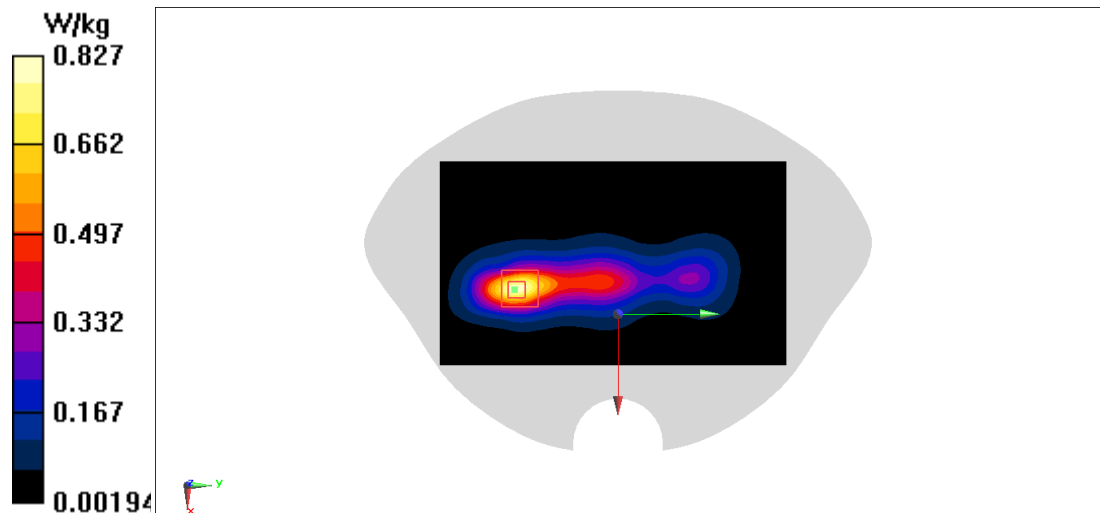


Fig A.30

**LTE3700-TDD48\_CH56640 Left Cheek**

Date: 3/17/2022

Electronics: DAE4 Sn1331

Medium: head 3700 MHz

Medium parameters used:  $f = 3690$  MHz;  $\sigma = 3.146$  S/m;  $\epsilon_r = 38.456$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE3700-TDD48 3690 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN7548 ConvF(6.42,6.42, 6.42)

**Area Scan (121x211x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.35 W/kg

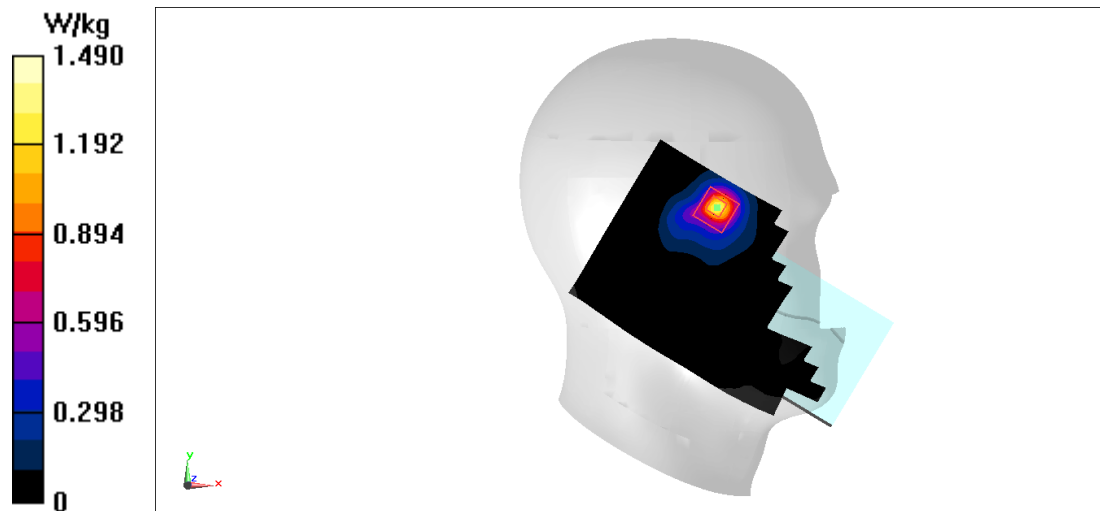
**Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.645 V/m; Power Drift = 0.64 dB

Peak SAR (extrapolated) = 2.10 W/kg

**SAR(1 g) = 0.716 W/kg; SAR(10 g) = 0.261 W/kg**

Maximum value of SAR (measured) = 1.49 W/kg



**Fig A.31**

**LTE3700-TDD48\_CH56640 Right 10mm**

Date: 3/17/2022

Electronics: DAE4 Sn1331

Medium: head 3700 MHz

Medium parameters used:  $f = 3690$  MHz;  $\sigma = 3.146$  S/m;  $\epsilon_r = 38.456$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE3700-TDD48 3690 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN7548 ConvF(6.42,6.42, 6.42)

**Area Scan (61x211x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.74 W/kg

**Zoom Scan (9x9x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.968 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.36 W/kg

**SAR(1 g) = 0.881 W/kg; SAR(10 g) = 0.336 W/kg**

Maximum value of SAR (measured) = 1.74 W/kg

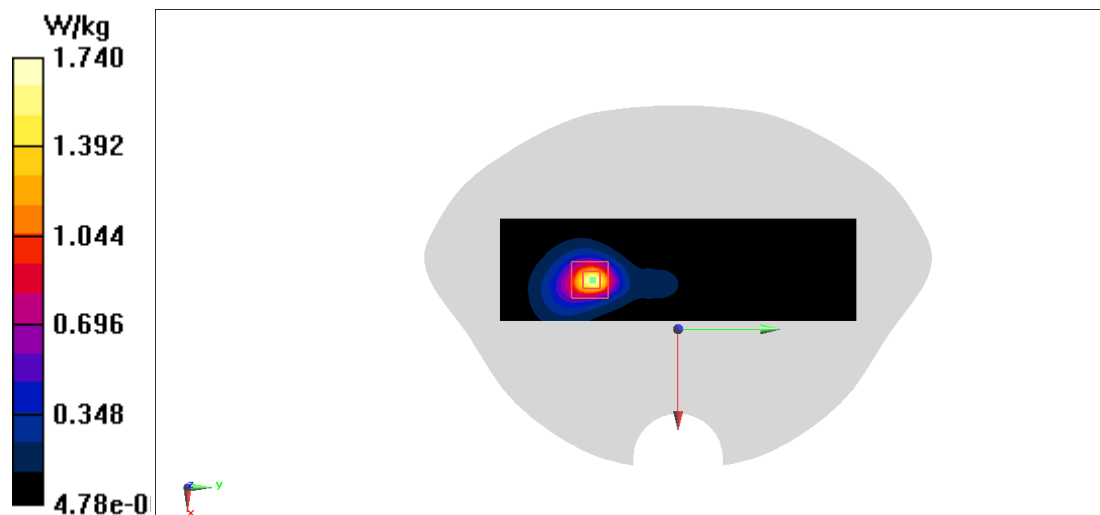


Fig A.32

**LTE1700-FDD66 ANT2\_CH132572 Left Cheek**

Date: 2/22/2022

Electronics: DAE4 Sn1331

Medium: head 1700 MHz

Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.393$  S/m;  $\epsilon_r = 43.355$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE1700-FDD66 1770 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(8.14, 8.14, 8.14)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.20 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.118 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 0.831 W/kg; SAR(10 g) = 0.41 W/kg**

Maximum value of SAR (measured) = 1.37 W/kg

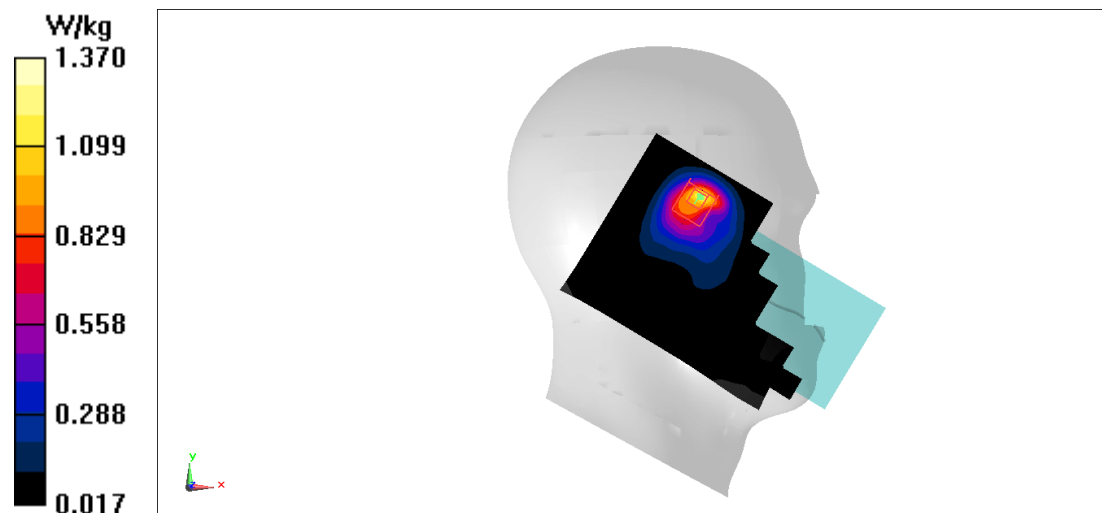


Fig A.33

**LTE1700-FDD66 ANT2\_CH132322 Right 10mm**

Date: 2/22/2022

Electronics: DAE4 Sn1331

Medium: head 1700 MHz

Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.393$  S/m;  $\epsilon_r = 43.355$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE1700-FDD66 1770 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(8.14, 8.14, 8.14)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.56 W/kg

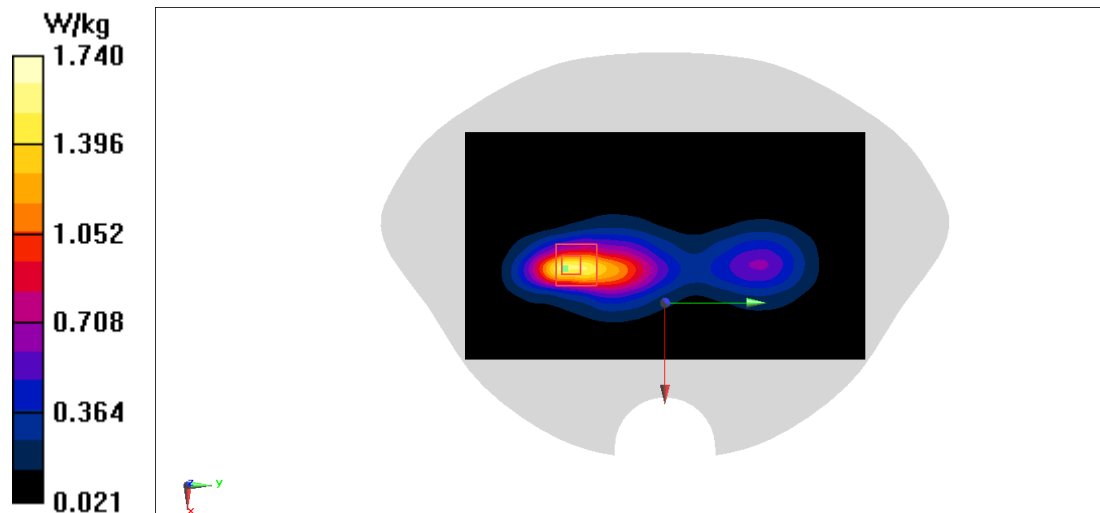
**Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.36 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.08 W/kg

**SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.567 W/kg**

Maximum value of SAR (measured) = 1.74 W/kg



**Fig A.34**

**LTE1700-FDD66 ANT1\_CH132572 Left Cheek**

Date: 2/22/2022

Electronics: DAE4 Sn1331

Medium: head 1700 MHz

Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.414$  S/m;  $\epsilon_r = 42.387$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE1700-FDD66 1770 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(8.14, 8.14, 8.14)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.293 W/kg

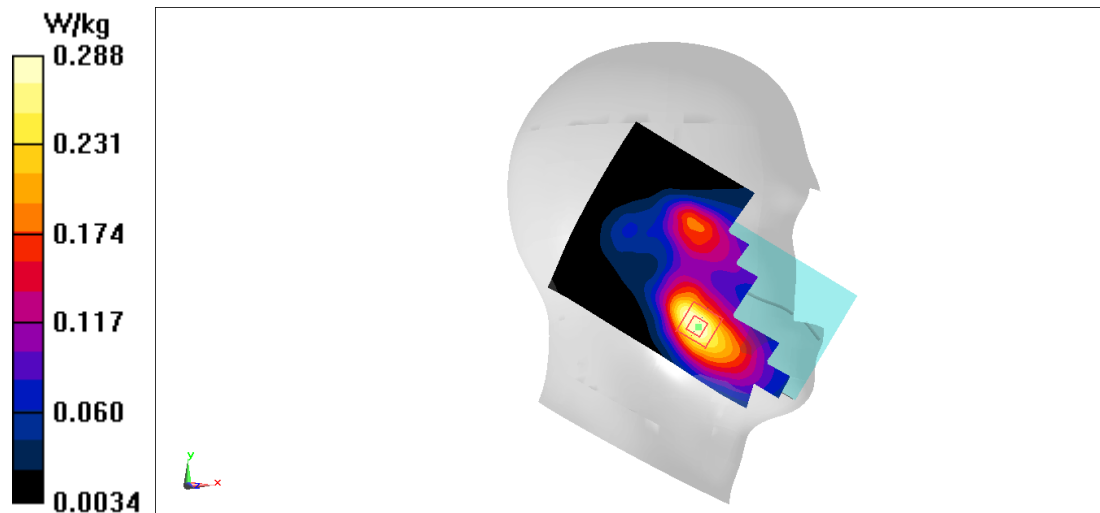
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.691 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.326 W/kg

**SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.140 W/kg**

Maximum value of SAR (measured) = 0.288 W/kg



**Fig A.35**



**LTE1700-FDD66 ANT1\_CH132572 Bottom 10mm**

Date: 2/22/2022

Electronics: DAE4 Sn1331

Medium: head 1700 MHz

Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.414$  S/m;  $\epsilon_r = 42.387$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE1700-FDD66 1770 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(8.14, 8.14, 8.14)

**Area Scan (41x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.672 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.29 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.810 W/kg

**SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.236 W/kg**

Maximum value of SAR (measured) = 0.658 W/kg

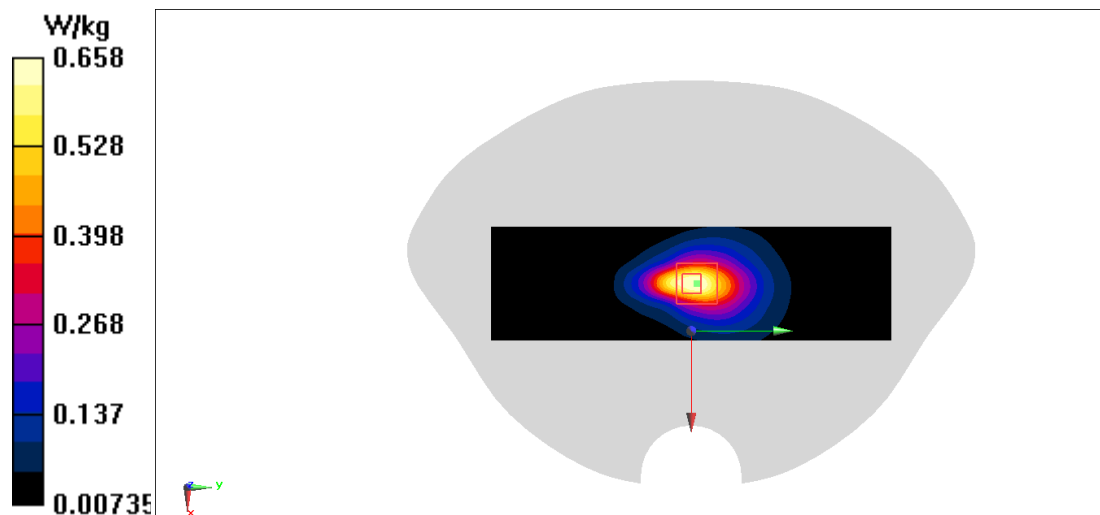


Fig A.36

**LTE700-FDD71\_CH133322 Right Cheek**

Date: 2/18/2022

Electronics: DAE4 Sn1331

Medium: head 750 MHz

Medium parameters used:  $f = 683 \text{ MHz}$ ;  $\sigma = 0.804 \text{ S/m}$ ;  $\epsilon_r = 45.927$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE700-FDD71 683 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36, 10.36, 10.36)

**Area Scan (81x141x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.392 W/kg

**Zoom Scan (6x7x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 18.06 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.581 W/kg

**SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.192 W/kg**

Maximum value of SAR (measured) = 0.453 W/kg

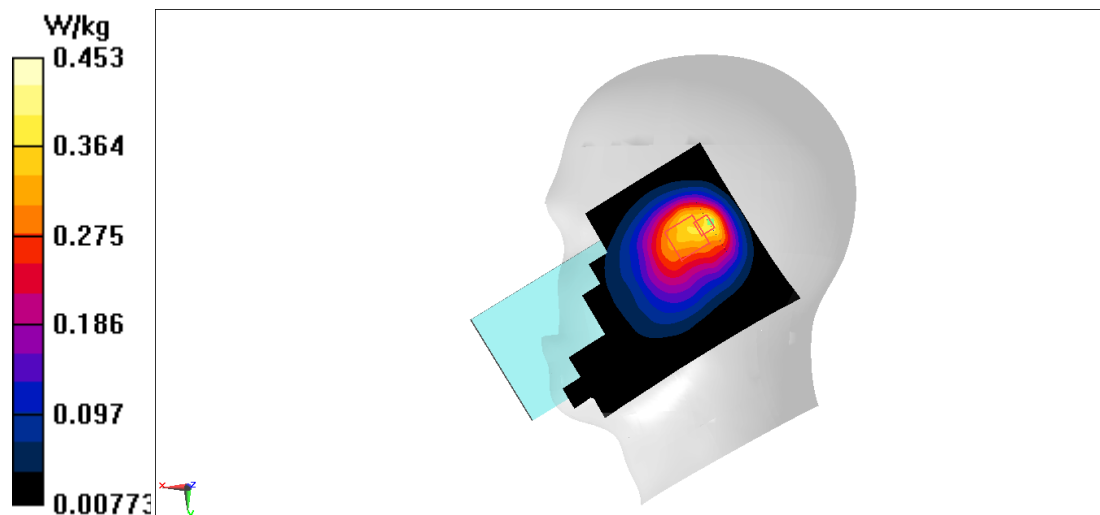


Fig A.37

**LTE700-FDD71\_CH133322 Left 10mm**

Date: 2/18/2022

Electronics: DAE4 Sn1331

Medium: head 750 MHz

Medium parameters used:  $f = 683 \text{ MHz}$ ;  $\sigma = 0.804 \text{ S/m}$ ;  $\epsilon_r = 45.927$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: LTE700-FDD71 683 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36, 10.36, 10.36)

**Area Scan (41x141x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.165 W/kg

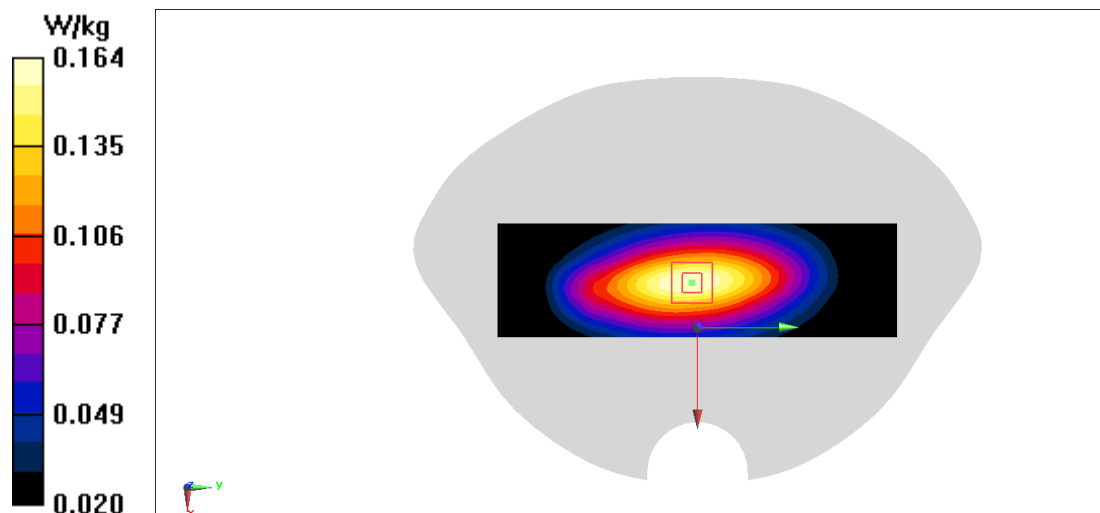
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 12.68 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.190 W/kg

**SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.086 W/kg**

Maximum value of SAR (measured) = 0.164 W/kg



**Fig A.38**

**5G NR-n2\_CH370050 Right Cheek**

Date: 3/12/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.417$  S/m;  $\epsilon_r = 41.897$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G NR-n2 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88,7.88,7.88)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.429 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 6.395 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.575 W/kg

**SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.121 W/kg**

Maximum value of SAR (measured) = 0.436 W/kg

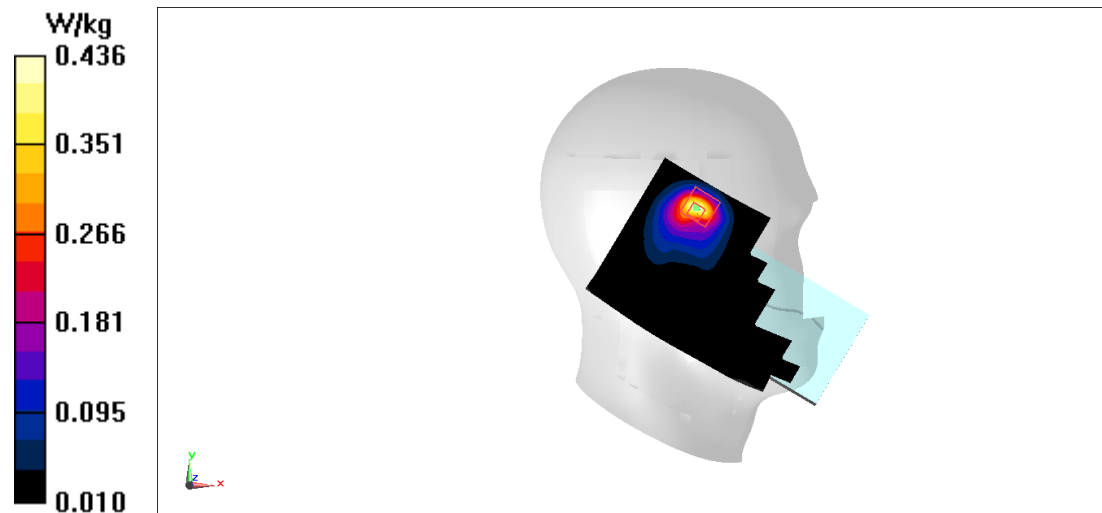


Fig A.39

**5G NR-n2\_CH370050 Right 10mm**

Date: 3/12/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.417$  S/m;  $\epsilon_r = 41.897$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G NR-n2 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88,7.88,7.88)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.399 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.404 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.546 W/kg

**SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.138 W/kg**

Maximum value of SAR (measured) = 0.442 W/kg

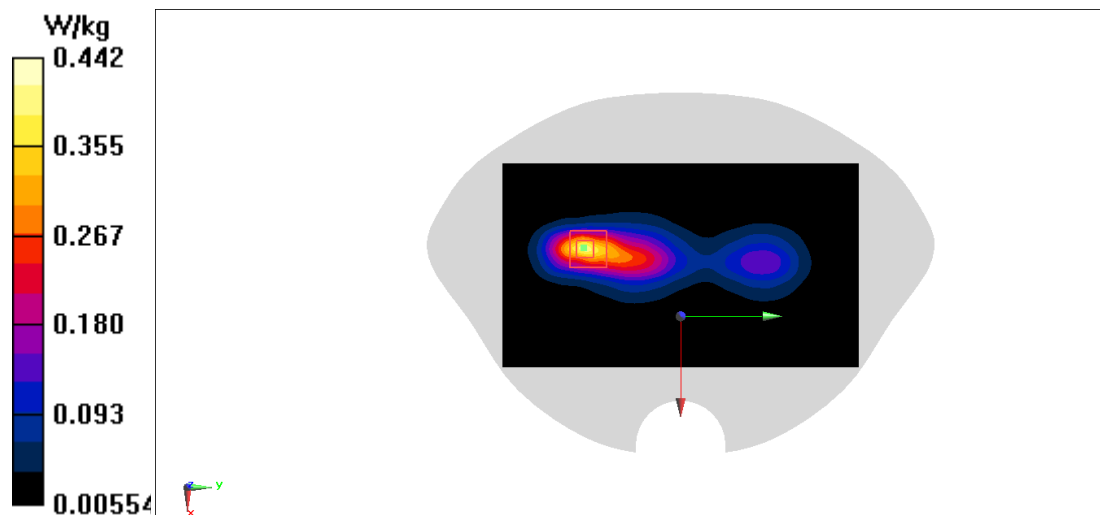


Fig A.40

**5G NR-n5\_CH167300 Right Cheek**

Date: 3/11/2022

Electronics: DAE4 Sn1331

Medium: head 835 MHz

Medium parameters used:  $f = 836.5$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 45.375$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G NR-n5 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.69 W/kg

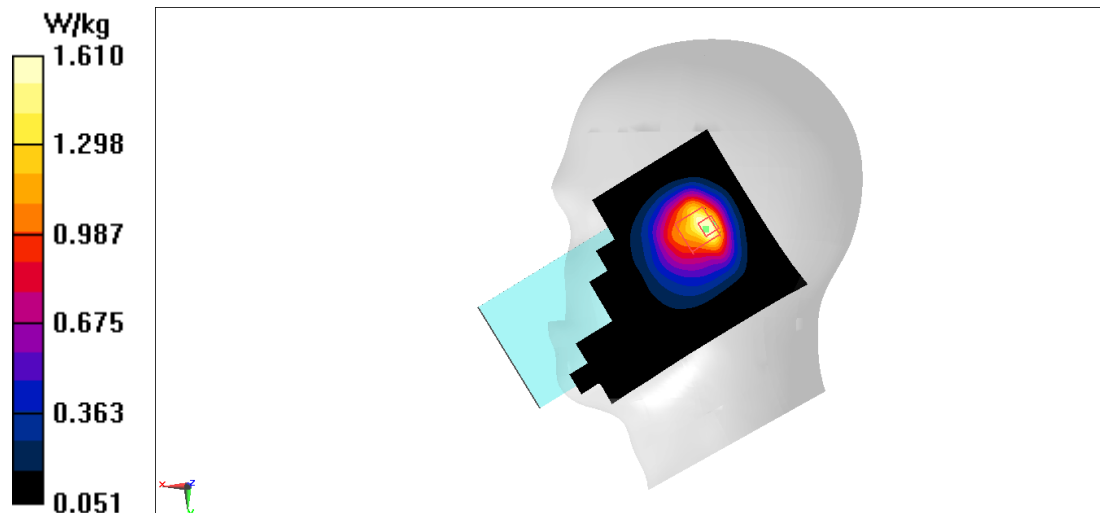
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.66 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.01 W/kg

**SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.719 W/kg**

Maximum value of SAR (measured) = 1.61 W/kg

**Fig A.41**

**5G NR-n5\_CH167300 Rear 10mm**

Date: 3/11/2022

Electronics: DAE4 Sn1331

Medium: head 835 MHz

Medium parameters used:  $f = 836.5$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 45.375$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G NR-n5 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.301 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.59 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.330 W/kg

**SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.193 W/kg**

Maximum value of SAR (measured) = 0.299 W/kg

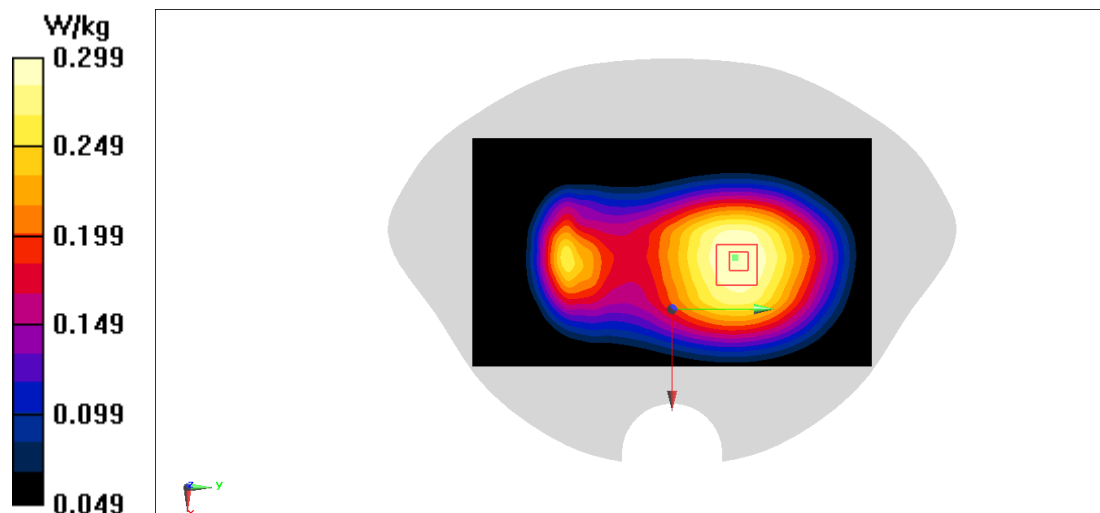


Fig A.42

**5G NR-n7\_CH513500 Right Cheek**

Date: 3/11/2022

Electronics: DAE4 Sn1331

Medium: head 2600 MHz

Medium parameters used:  $f = 2567.5$  MHz;  $\sigma = 2.076$  S/m;  $\epsilon_r = 41.576$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G NR-n7 2567.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.11,7.11,7.11)

**Area Scan (101x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.36 W/kg

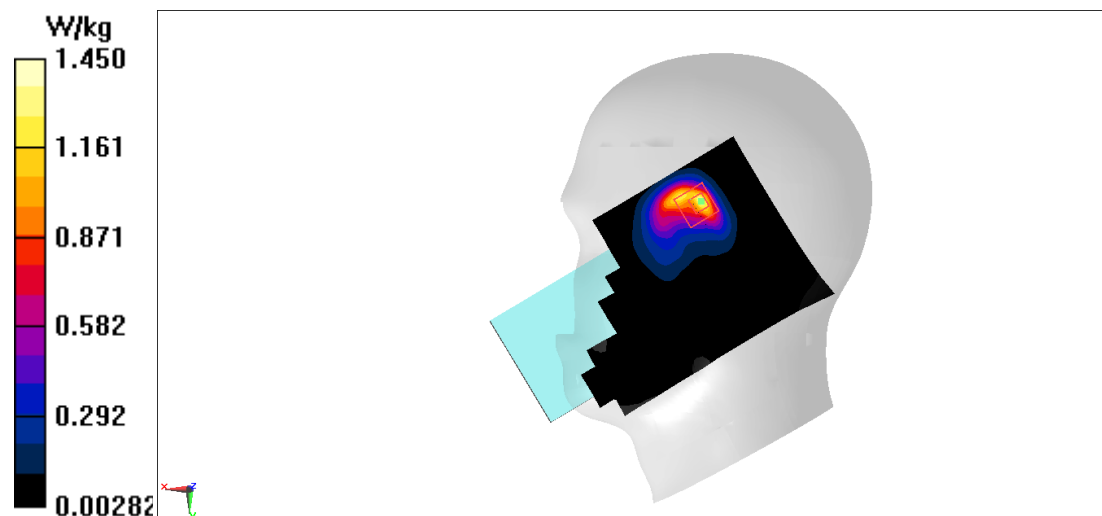
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.562 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.357 W/kg**

Maximum value of SAR (measured) = 1.45 W/kg

**Fig A.43**



**5G NR-n7\_CH507000 Left 10mm**

Date: 3/11/2022

Electronics: DAE4 Sn1331

Medium: head 2600 MHz

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 2.045$  S/m;  $\epsilon_r = 41.626$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G NR-n7 2535 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.35,7.35,7.35)

**Area Scan (51x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.40 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.15 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.94 W/kg

**SAR(1 g) = 0.900 W/kg; SAR(10 g) = 0.415 W/kg**

Maximum value of SAR (measured) = 1.53 W/kg

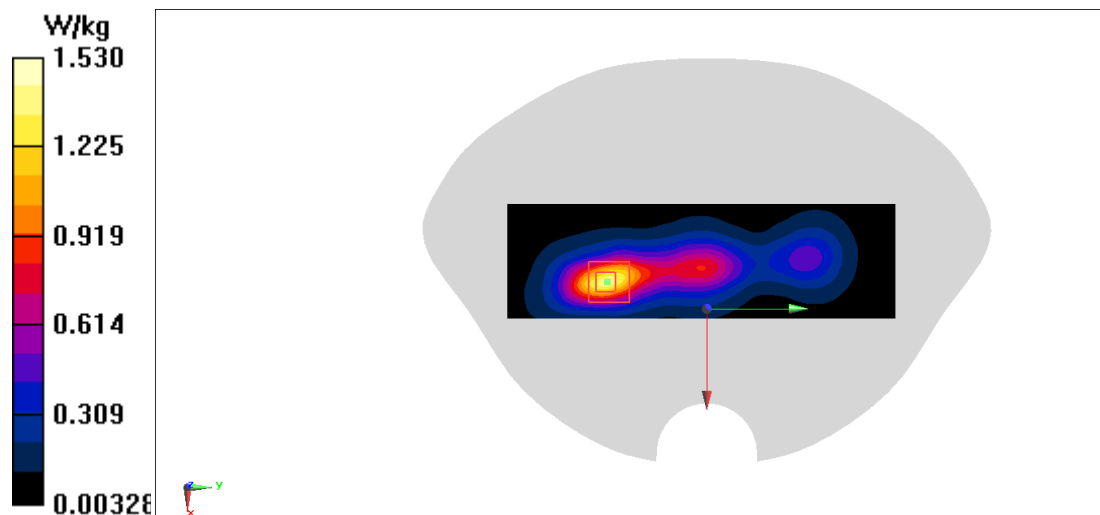


Fig A.44

**5G n25\_CH376500 Left Cheek**

Date: 3/12/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1882.5$  MHz;  $\sigma = 1.483$  S/m;  $\epsilon_r = 42.807$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.9°C

Communication System: 5G n25 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88,7.88,7.88)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.950 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.657 W/kg; SAR(10 g) = 0.333 W/kg**

Maximum value of SAR (measured) = 0.969 W/kg

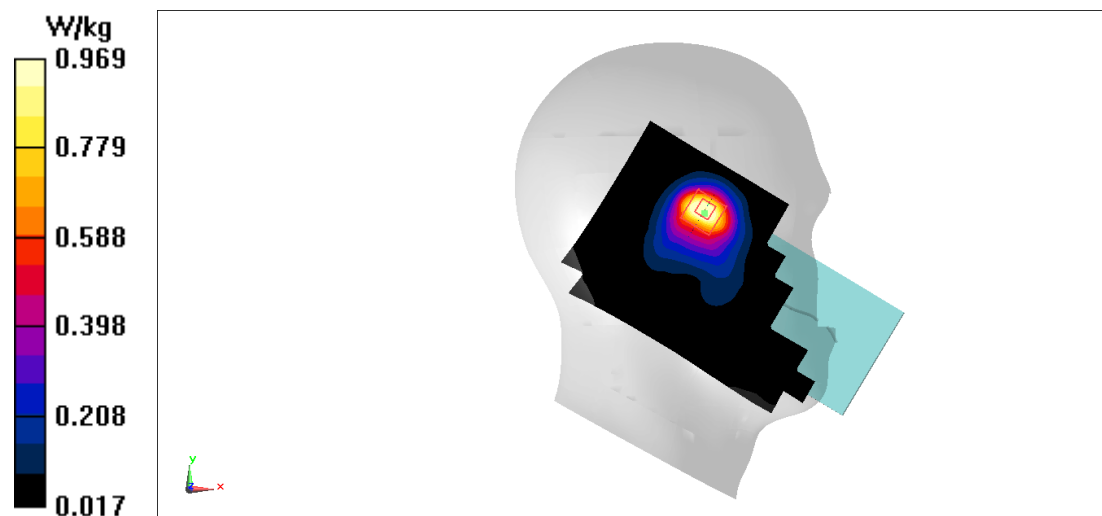


Fig A.45

**5G n25\_CH376500 Right 10mm**

Date: 3/12/2022

Electronics: DAE4 Sn1331

Medium: head 1900 MHz

Medium parameters used:  $f = 1882.5$  MHz;  $\sigma = 1.483$  S/m;  $\epsilon_r = 42.807$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.9°C

Communication System: 5G n25 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.88,7.88,7.88)

**Area Scan (41x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.53 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.26 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.94 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.508 W/kg**

Maximum value of SAR (measured) = 1.60 W/kg

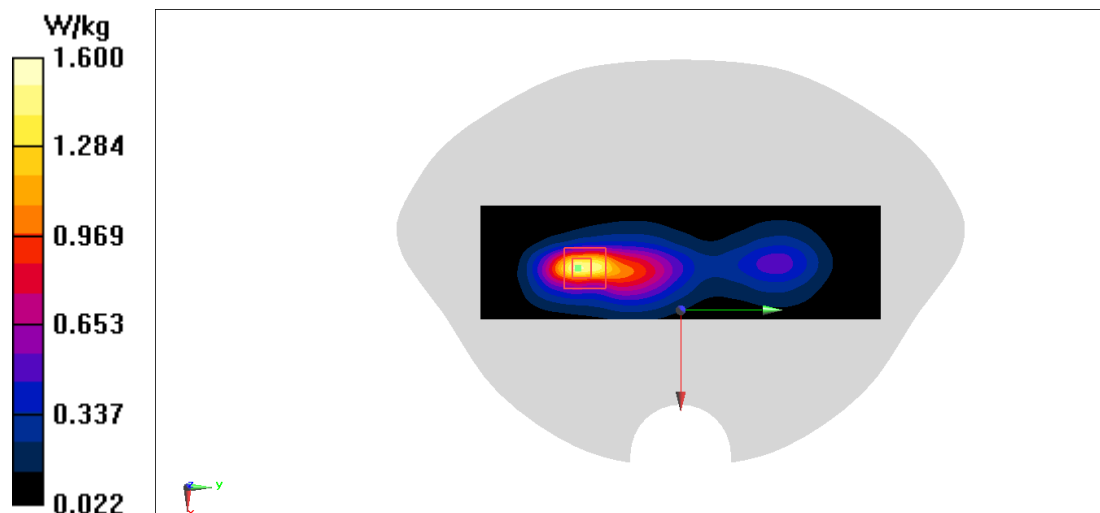


Fig A.46

**5G n41\_CH501204 Right Cheek**

Date: 3/19/2022

Electronics: DAE4 Sn1331

Medium: head 2600 MHz

Medium parameters used:  $f = 2506.02$  MHz;  $\sigma = 1.873$  S/m;  $\epsilon_r = 40.438$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.9°C

Communication System: 5G n41 2506.02 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.35,7.35,7.35)

**Area Scan (121x211x1):** 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=4mm, dy=4mm, dz=1.4mm

Reference Value = 5.459 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.01 W/kg

**SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.319 W/kg**

Maximum value of SAR (measured) = 1.47 W/kg

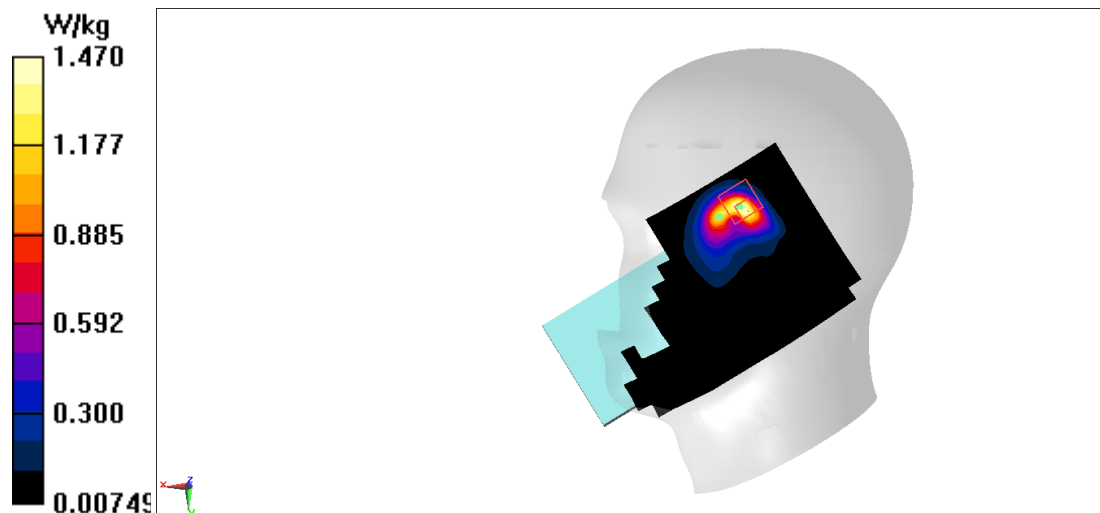


Fig A.47

**5G n41\_CH501204 Left 10mm**

Date: 3/19/2022

Electronics: DAE4 Sn1331

Medium: head 2600 MHz

Medium parameters used:  $f = 2506.02$  MHz;  $\sigma = 1.873$  S/m;  $\epsilon_r = 40.438$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.9°C

Communication System: 5G n41 2506.02 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.35,7.35,7.35)

**Area Scan (51x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.53 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.06 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.08 W/kg

**SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.454 W/kg**

Maximum value of SAR (measured) = 1.66 W/kg

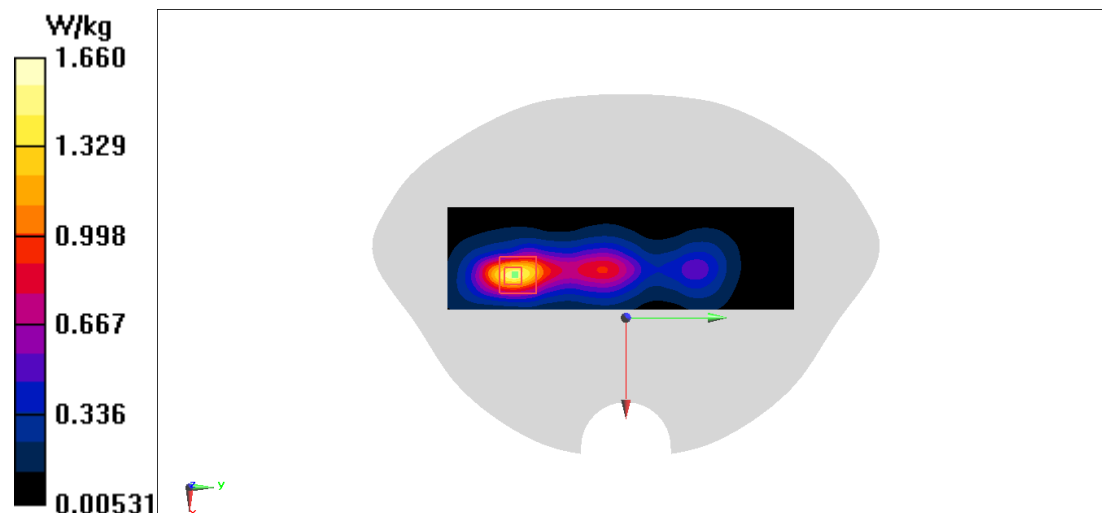


Fig A.48

**5G n66\_CH349000 Left Cheek**

Date: 3/8/2022

Electronics: DAE4 Sn1331

Medium: head 1750 MHz

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.384$  S/m;  $\epsilon_r = 42.935$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G n66 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(8.14,8.14,8.14)

**Area Scan (81x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.977 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.814 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.38 W/kg

**SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.329 W/kg**

Maximum value of SAR (measured) = 1.15 W/kg

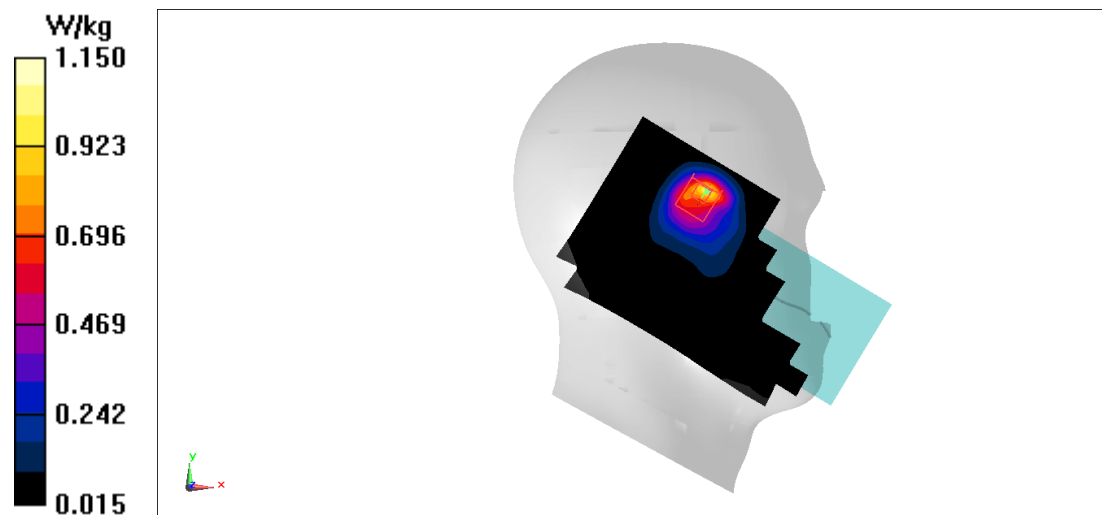


Fig A.49

**5G n66\_CH355500 Right 10mm**

Date: 3/8/2022

Electronics: DAE4 Sn1331

Medium: head 1750 MHz

Medium parameters used:  $f = 1777.5$  MHz;  $\sigma = 1.418$  S/m;  $\epsilon_r = 42.372$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G n66 1777.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(8.14,8.14,8.14)

**Area Scan (41x141x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.42 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 0.831 W/kg; SAR(10 g) = 0.430 W/kg**

Maximum value of SAR (measured) = 1.31 W/kg

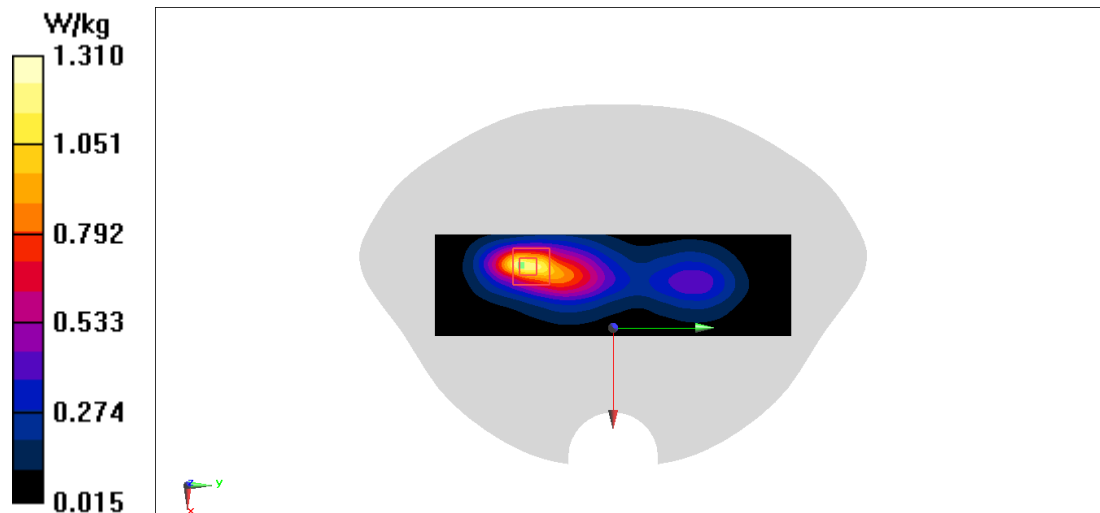


Fig A.50

**5G n71\_CH136100 Right Cheek**

Date: 2/20/2022

Electronics: DAE4 Sn1331

Medium: head 750 MHz

Medium parameters used:  $f = 680.5 \text{ MHz}$ ;  $\sigma = 0.803 \text{ S/m}$ ;  $\epsilon_r = 45.934$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G n71 680.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (81x141x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.587 W/kg

**Zoom Scan (6x7x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 21.10 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.750 W/kg

**SAR(1 g) = 0.388 W/kg; SAR(10 g) = 0.276 W/kg**

Maximum value of SAR (measured) = 0.589 W/kg

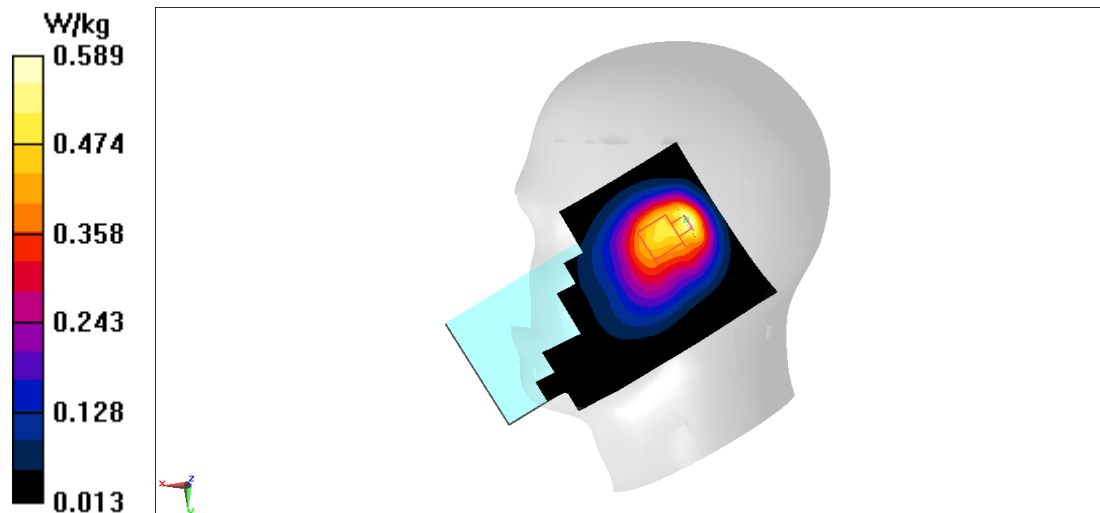


Fig A.51



**5G n71\_CH136100 Left 10mm**

Date: 2/20/2022

Electronics: DAE4 Sn1331

Medium: head 750 MHz

Medium parameters used:  $f = 680.5 \text{ MHz}$ ;  $\sigma = 0.803 \text{ S/m}$ ;  $\epsilon_r = 45.934$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.9^\circ\text{C}$ , Liquid Temperature:  $22.5^\circ\text{C}$

Communication System: 5G n71 680.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(10.36,10.36,10.36)

**Area Scan (41x141x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.317 \text{ W/kg}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $17.51 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$

Peak SAR (extrapolated) =  $0.367 \text{ W/kg}$

**SAR(1 g) =  $0.243 \text{ W/kg}$ ; SAR(10 g) =  $0.171 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.321 \text{ W/kg}$

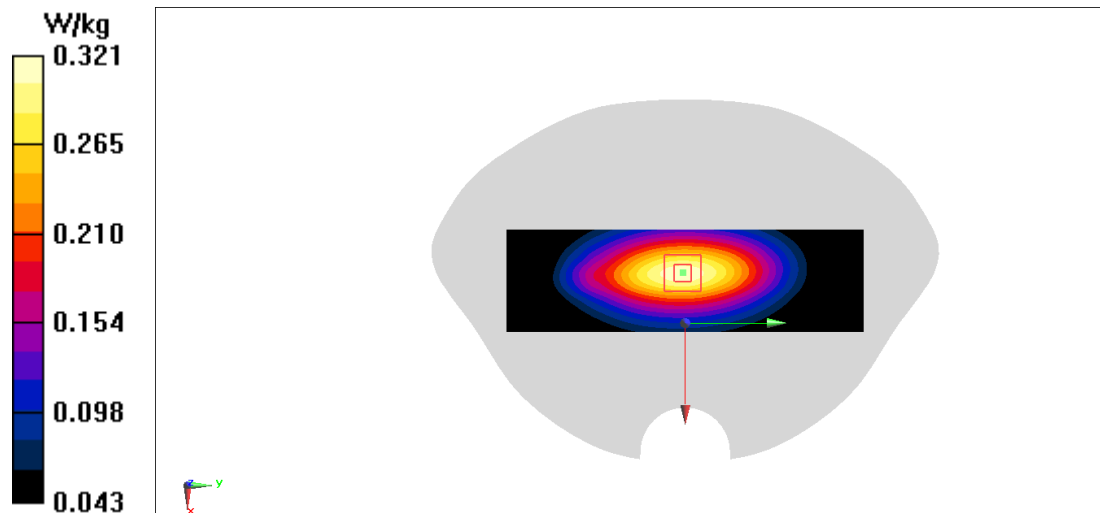


Fig A.52

**5G n77\_CH630668 Left Cheek**

Date: 3/16/2022

Electronics: DAE4 Sn1331

Medium: head 3700 MHz

Medium parameters used:  $f = 3460.02$  MHz;  $\sigma = 2.9$  S/m;  $\epsilon_r = 39.109$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G n77 3460.02 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(6.64,6.64,6.64)

**Area Scan (121x211x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.61 W/kg

**Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.795 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.30 W/kg

**SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.241 W/kg**

Maximum value of SAR (measured) = 1.54 W/kg

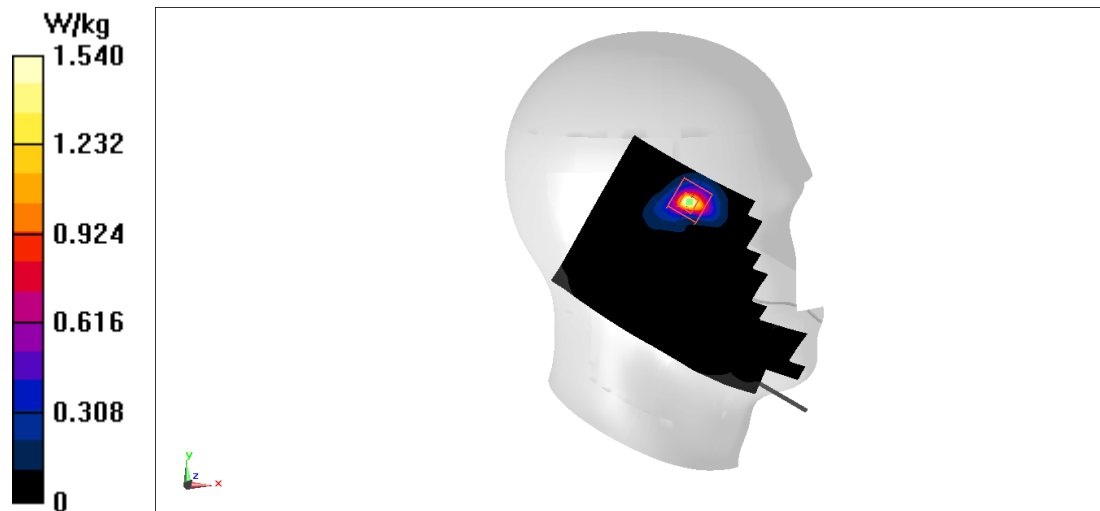


Fig A.53

**5G n77\_CH630668 Right 10mm**

Date: 3/16/2022

Electronics: DAE4 Sn1331

Medium: head 3700 MHz

Medium parameters used:  $f = 3460.02$  MHz;  $\sigma = 2.9$  S/m;  $\epsilon_r = 39.109$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G n77 3762 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(6.64,6.64,6.64)

**Area Scan (121x211x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.43 W/kg

**Zoom Scan (9x9x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.195 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 0.689 W/kg; SAR(10 g) = 0.254 W/kg**

Maximum value of SAR (measured) = 1.35 W/kg

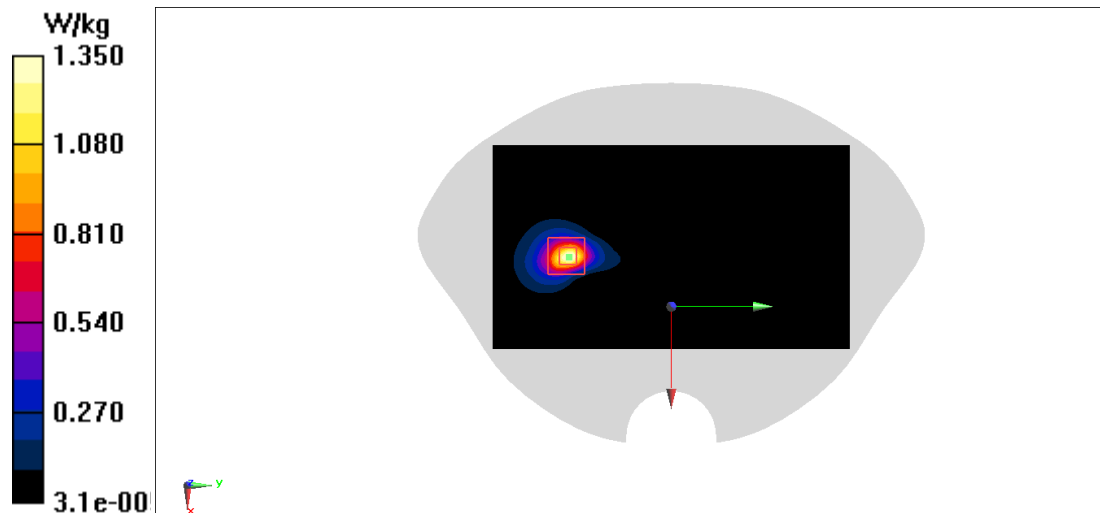


Fig A.54

**5G n78\_CH627144 Left Cheek**

Date: 3/16/2022

Electronics: DAE4 Sn1331

Medium: head 3700 MHz

Medium parameters used:  $f = 3407.46$  MHz;  $\sigma = 2.867$  S/m;  $\epsilon_r = 39.221$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G n78 3407.46 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(6.64,6.64,6.64)

**Area Scan (121x211x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.67 W/kg

**Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.715 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.46 W/kg

**SAR(1 g) = 0.817 W/kg; SAR(10 g) = 0.254 W/kg**

Maximum value of SAR (measured) = 1.77 W/kg

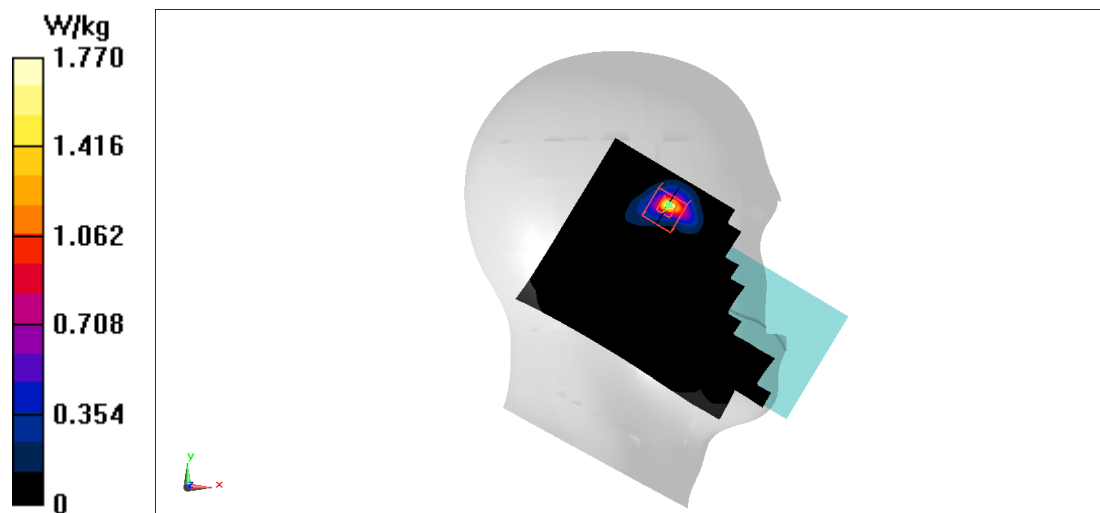


Fig A.55

**5G n77\_CH642382 Right 10mm**

Date: 3/17/2022

Electronics: DAE4 Sn1331

Medium: head 3700 MHz

Medium parameters used:  $f = 3635.73$  MHz;  $\sigma = 3.073$  S/m;  $\epsilon_r = 38.575$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: 5G n78 3635.73 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(6.64,6.64,6.64)

**Area Scan (121x211x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.78 W/kg

**Zoom Scan (9x9x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.235 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.55 W/kg

**SAR(1 g) = 0.920 W/kg; SAR(10 g) = 0.335 W/kg**

Maximum value of SAR (measured) = 1.86 W/kg

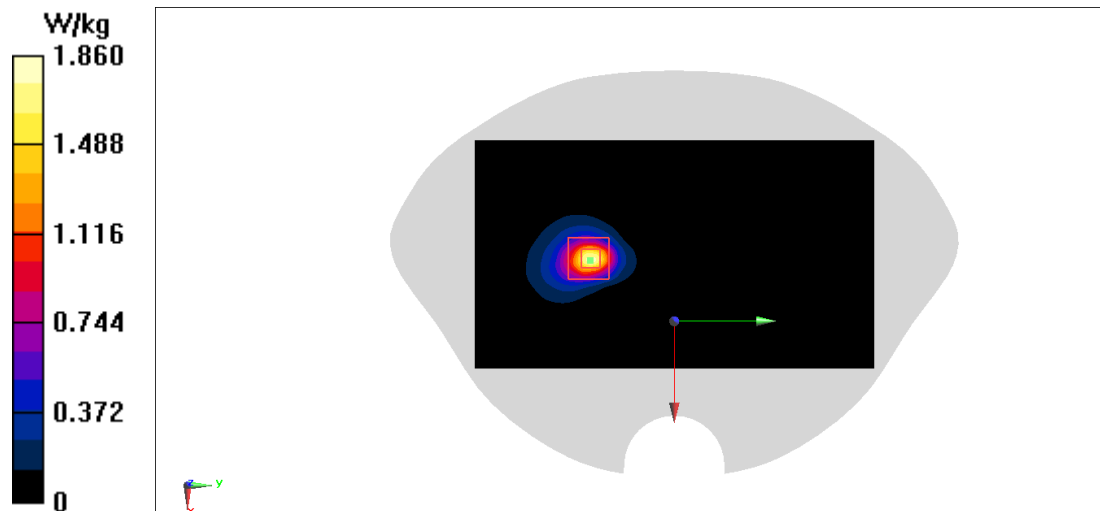


Fig A.56

**WLAN2450\_CH11 Left Cheek**

Date: 2/24/2022

Electronics: DAE4 Sn1331

Medium: head 2450 MHz

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.969$  S/m;  $\epsilon_r = 41.714$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: WLAN2450 2462 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.35,7.35,7.35)

**Area Scan (101x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.83 W/kg

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.39 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.01 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.478 W/kg**

Maximum value of SAR (measured) = 1.57 W/kg

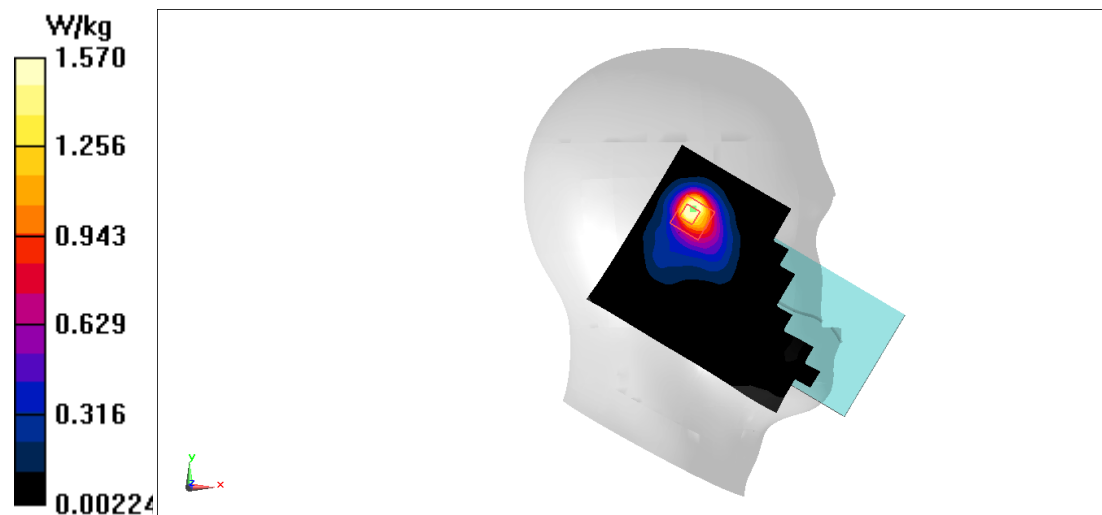


Fig A.57

**WLAN2450\_CH11 Rear 10mm**

Date: 2/24/2022

Electronics: DAE4 Sn1331

Medium: head 2450 MHz

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.969$  S/m;  $\epsilon_r = 41.714$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: WLAN2450 2462 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.35,7.35,7.35)

**Area Scan (101x171x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.422 W/kg

**Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.538 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.515 W/kg

**SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.116 W/kg**

Maximum value of SAR (measured) = 0.404 W/kg

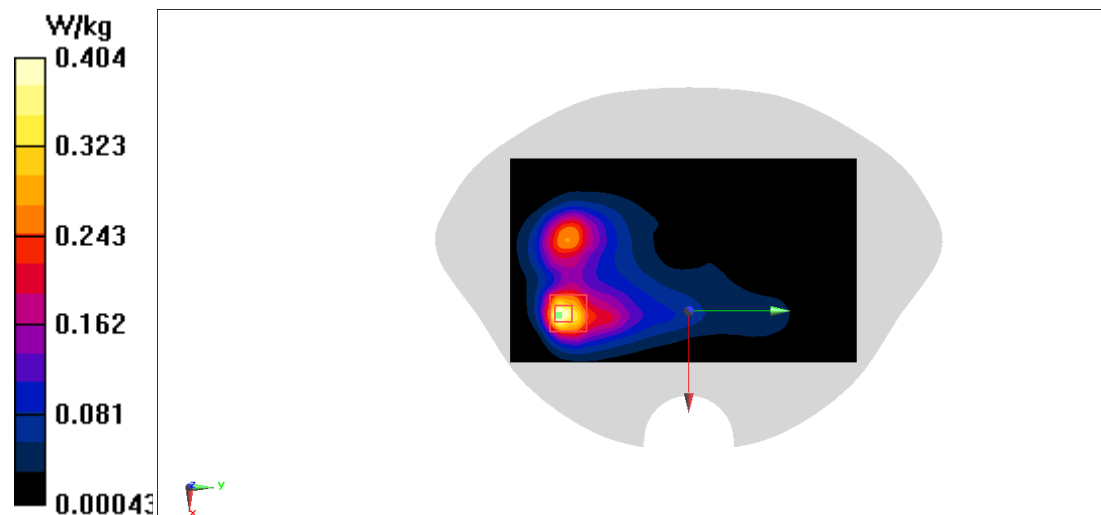


Fig A.58

**WLAN5G\_CH52 Left Tilt**

Date: 3/22/2022

Electronics: DAE4 Sn1331

Medium: head 5GHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.805$  S/m;  $\epsilon_r = 35.154$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: WLAN5G 5260 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(5.05,5.05,5.05)

**Area Scan (121x211x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.64 W/kg

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 5.578 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 4.42 W/kg

**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.306 W/kg**

Maximum value of SAR (measured) = 2.65 W/kg

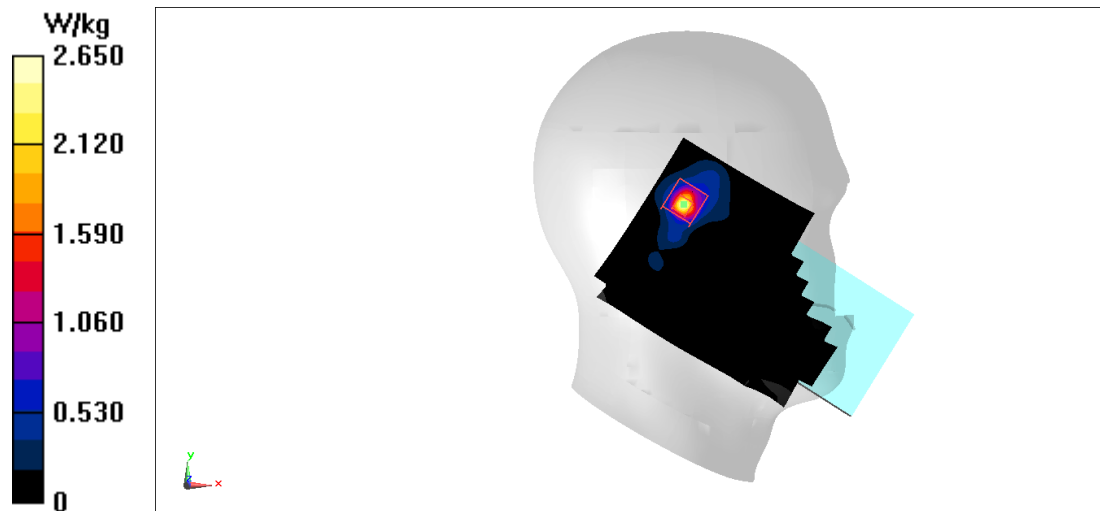


Fig A.59



**WLAN5G\_CH128 Right 10mm**

Date: 3/23/2022

Electronics: DAE4 Sn1331

Medium: head 5GHz

Medium parameters used:  $f = 5640$  MHz;  $\sigma = 5.374$  S/m;  $\epsilon_r = 35.295$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C, Liquid Temperature: 22.5°C

Communication System: WLAN5G 5640 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(4.68,4.68,4.68)

**Area Scan (61x211x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.79 W/kg

**Zoom Scan (9x9x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.482 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.11 W/kg

**SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.266 W/kg**

Maximum value of SAR (measured) = 1.86 W/kg

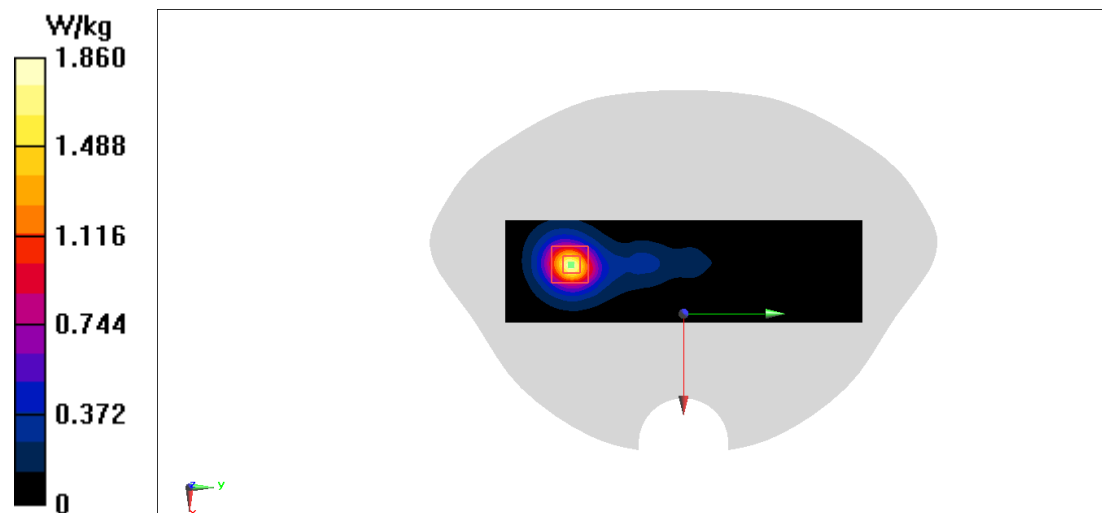
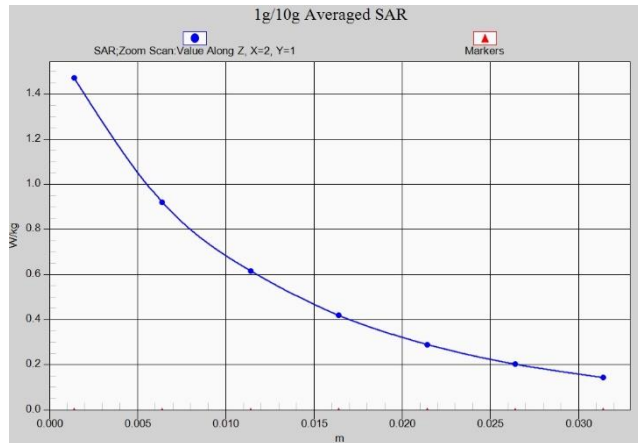
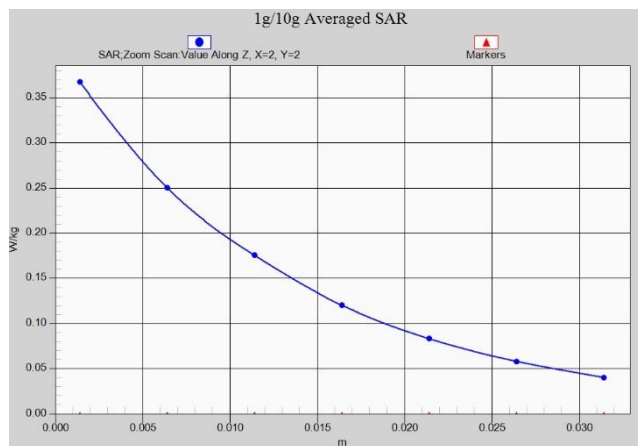


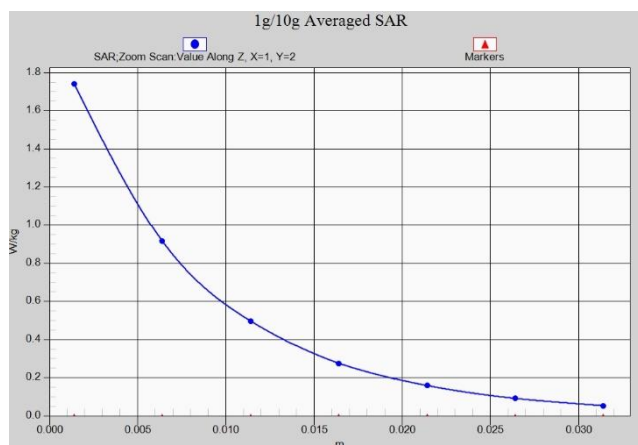
Fig A.60



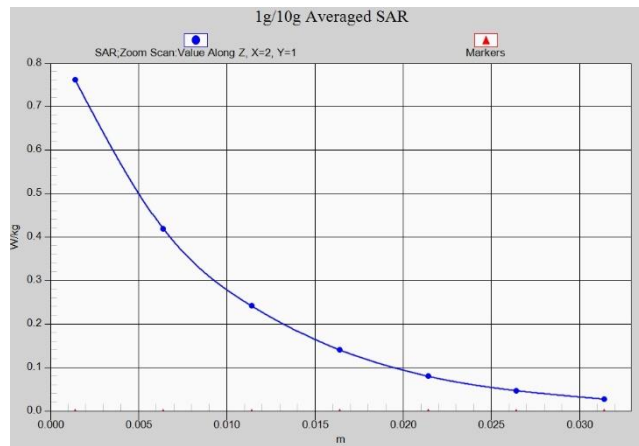
**Z-Scan at power reference point (850 MHz)**



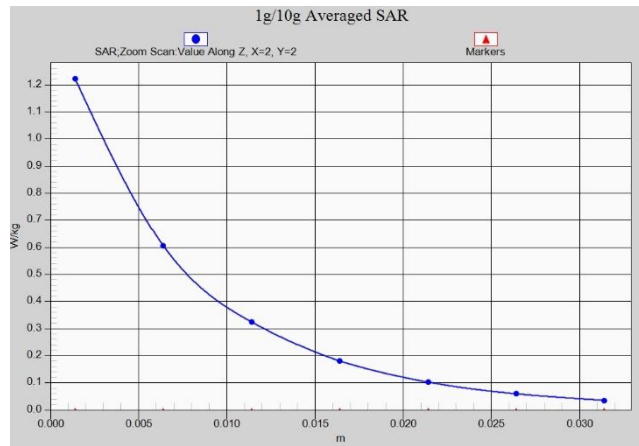
**Z-Scan at power reference point (850 MHz)**



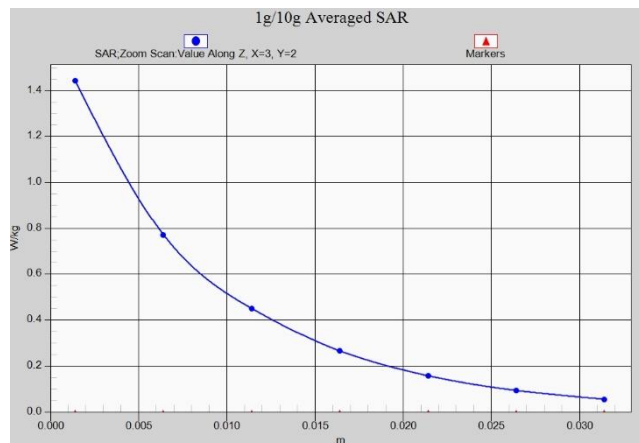
**Z-Scan at power reference point (1900 MHz)**



**Z-Scan at power reference point (GSM1900)**



**Z-Scan at power reference point (WCDMA1900)**



**Z-Scan at power reference point (WCDMA1900)**