TESTING
NVLAP LAB CODE 600118-0

SAR TEST REPORT

No. I22Z60417-SEM01

For

Wingtech Mobile Communications Co.,Ltd.

5G Mobile Phone

Model Name: TMAF025G

with

Hardware Version: V2.0

Software Version: TMAF025G_0.01.01

FCC ID: 2APXW-TMAF025G

Issued Date: 2022-5-30

Note:

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

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

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

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

REPORT HISTORY

Report Number	Revision	Issue Date	Description
I22Z60417-SEM01	Rev.0	2022-5-23	Initial creation of test report
I22Z60417-SEM01	Rev.1	2022-5-26	1. Revise the conductive power of WIFI2.4G on page 143-144. 2. Add evaluation procedure for P-sensor on annex J.
I22Z60417-SEM01	Rev.2	2022-5-30	1. Add setup photo for rear 19mm in the file of SAR test photos. 2. Revise the picture of antenna locations on section 12.2.

TABLE OF CONTENT

1 Test Laboratory

1.1 Testing Location

Company Name:	CTTL(Shouxiang)
Address:	No. 51, Xueyuan Road, Haidian District, Beijing, P. R. China 100191.

1.2 Testing Environment

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

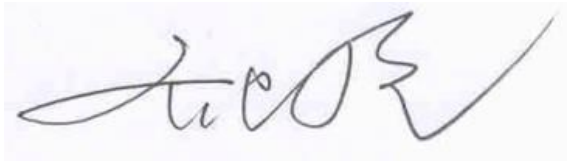
1.3 Project Data

Project Leader:	Qi Dianyuan
Test Engineer:	Yao Juming
Testing Start Date:	April 5, 2022
Testing End Date:	May 12, 2022

1.4 Signature

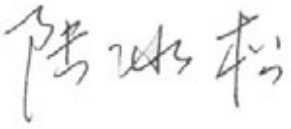
Yao Juming

(Prepared this test report)



Qi Dianyuan

(Reviewed this test report)



Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Wingtech Group (Hong Kong) Limited. 5G Mobile Phone TMAF025G is as follows:

Table 2.1: Highest Reported SAR (1g)

Technology Band	Head	Hotspot	Body-Worn	Phablet-10g	Equipment Class
GSM850	**0.57**	**0.92**	**0.92**	/	PCE
GSM1900	**0.22**	**0.70**	**0.70**	/	
WCDMA1900	**0.34**	**0.95**	**0.63**	/	
WCDMA1700	**0.31**	**0.86**	**0.41**	/	
WCDMA 850	**0.41**	**0.66**	**0.66**	/	
LTE Band2-ANT1	**0.43**	**0.74**	**0.64**	/	
LTE Band2-ANT3	**0.57**	**0.58**	**0.51**	/	
LTE Band7	**0.24**	**1.17**	**0.63**	/	
LTE Band12	**0.32**	**0.39**	**0.34**	/	
LTE Band25	**0.29**	**0.71**	**0.52**	/	
LTE Band26	**0.38**	**0.59**	**0.59**	/	
LTE Band41-PC3	**0.62**	**0.27**	**0.45**	/	
LTE Band41-PC2	**1.06**	**0.40**	**0.40**	/	
LTE Band66-ANT1	**0.28**	**0.61**	**0.49**	/	
LTE Band66-ANT3	**0.75**	**0.49**	**0.29**	/	
LTE Band71	**0.37**	**0.52**	**0.44**	/	
5G NR n25	**0.30**	**0.79**	**0.47**	/	
5G NR n41	**0.78**	**0.79**	**0.76**	/	
5G NR n66	**0.19**	**0.52**	**0.33**	/	
5G NR n71	**0.17**	**0.34**	**0.31**	/	
5G NR n77	**0.95**	**0.95**	**1.38**	/	
WLAN 2.4GHz	**1.24**	**0.27**	**0.24**	/	DTS
WLAN 5GHz	**1.14**	**0.98**	**0.80**	/	NII
BT	**0.08**	**0.02**	**0.02**	/	DSS

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

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

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

The measurement together with the test system set-up is described in annex C of this test report. A detailed description of the equipment under test can be found in chapter 4 of this test report. The highest reported SAR value is obtained at the case of **(Table 2.1),** and the values are**: 1.38 W/kg(1g).**

Remark：
This device supports both LTE B4/B5 and LTE B66/B26.Since the supported frequency span for LTE B4/B5 falls completely within the supports frequency span for LTE B66/B26, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B66/B26.

Table 2.2: The sum of SAR values for Main antenna + Wifi2.4G +BT

	Position	Main antenna	WiFi-2.4G	BT	Sum
Highest SAR value for Head	Left head, Cheek (ENDC 2A-n41A)	0.88	0.61	0.08	**1.57**
Highest SAR value for Body	Front 15mm (ENDC 2A-n41A)	1.24	0.24	<0.01	**1.48**

Table 2.3: The sum of SAR values for Main antenna + Wifi5G +BT

	Position	Main antenna	WiFi-5G	BT	Sum
Highest SAR value for Head	Left head, Cheek (ENDC 2A-n41A)	0.88	0.60	0.08	**1.56**
	Left head, Tilt (ENDC 66A-n25A)	0.78	0.72	0.06	**1.56**
Highest SAR value for Body	Front 15mm (ENDC 2A-n41A)	1.24	0.29	<0.01	**1.53**

Table 2.4: The SAR values for ENDC

LTE	NR	Mode	Position	Reported SAR 1g(W/kg)
LTE Band 2-ANT1	n41	Head	Right Tilt	**1.11(0.33+0.78)**
		Body	Front 15mm	**1.24(0.48+0.76)**
LTE Band 2-ANT3	n66	Head	Right Tilt	**0.72(0.57+0.15)**
		Body	Rear 10mm	**0.89(0.37+0.52)**
	n71	Head	Right Tilt	**0.67(0.57+0.10)**
		Body	Rear 15mm	**0.82(0.51+0.31)**
LTE Band 66-ANT1	n41	Head	Right Tilt	**0.94(0.16+0.78)**
		Body	Front 15mm	**1.13(0.37+0.76)**
LTE Band 66-ANT3	n25	Head	Right Tilt	**0.97(0.75+0.22)**
		Body	Rear 15mm	**0.75(0.28+0.47)**
	n71	Head	Right Tilt	**0.85(0.75+0.10)**
		Body	Rear 10mm	**0.61(0.30+0.31)**

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

According to the above tables, the highest sum of reported SAR values is **1.57 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

3 Client Information

3.1 Applicant Information

Company Name:	Wingtech Group (Hong Kong) Limited
Address/Post:	Flat/RM 1802 18/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL, HK
Contact Person:	sharui
Contact Email:	sharui@wingtech.com
Telephone:	+86-21-53529900

3.2 Manufacturer Information

Company Name:	Wingtech Group (Hong Kong) Limited
Address/Post:	Flat/RM 1802 18/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL, HK
Contact Person:	sharui
Contact Email:	sharui@wingtech.com
Telephone:	+86-21-53529900

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

4.1 About EUT

Description:	5G Mobile Phone
Model name:	TMAF025G
Operating mode(s):	GSM850/900/1800/1900, WCDMA B2/B4/B5 LTE Band2/4/5/7/12/25/26/28/38/41/66/71 BT, Wi-Fi(2.4G/5G) 5G NR n25/n41/n66/n71/n77
Tested Tx Frequency:	824 – 849 MHz (GSM 850)
	1850 – 1910 MHz (GSM 1900)
	824 – 849 MHz (WCDMA 850 Band V)
	1850 – 1910 MHz (WCDMA1900 Band IV)
	1710-1755 MHz (WCDMA1700 Band II)
	1850.7 – 1909.3 MHz (LTE Band 2)
	2502.5 – 2567.5 MHz (LTE Band 7)
	699.7 – 715.3 MHz (LTE Band 12)
	1850.7–1914.3 MHz (LTE Band 25)
	814.7–848.3 MHz (LTE Band 26)
	2498.5 – 2687.5 MHz (LTE Band41)
	1710.7 –1779.3 MHz (LTE Band 66)
	665.5 –695.5 MHz (LTE Band 71)
	2412 – 2462 MHz (Wi-Fi 2.4G)
	5180 – 5240 MHz (Wi-Fi 5.2G)
	5260 – 5320 MHz (Wi-Fi 5.3G)
	5500 – 5720 MHz (Wi-Fi 5.5G)
	5745 – 5825 MHz (Wi-Fi 5.8G)
	2400 – 2483.5 MHz (Bluetooth)
	1850 – 1915 MHz(n25)
	2496 – 2690 MHz(n41)
	1710 – 1780 MHz(n66)
	663 – 698 MHz(n71)
	3450– 3550 MHz ,3700– 3980 MHz (n77)
GPRS/EGPRS Multislot Class:	12
Test device production information:	Production unit
Device type:	Portable device
Antenna type:	Integrated antenna
Hotspot mode:	Support

4.2 Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	861690060017924	V2.0	TMAF025G_0.01.01
EUT2	861690060015159	V2.0	TMAF025G_0.01.01
EUT3	861690060017650	V2.0	TMAF025G_0.01.01
EUT4	861690060017858	V2.0	TMAF025G_0.01.01
EUT5	861690060017817	V2.0	TMAF025G_0.01.01
EUT6	861690060018195	V2.0	TMAF025G_0.01.01
EUT7	861690060017643	V2.0	TMAF025G_0.01.01
EUT8	861690060014830	V2.0	TMAF025G_0.01.01
EUT9	861690060014848	V2.0	TMAF025G_0.01.01
EUT10	861690060005895	V2.0	TMAF025G_0.01.01

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

Note: It is performed to test SAR with the EUT1~7 and conducted power with the EUT8~10.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	RE001	/	SUNWODA ELECTRONIC CO ., LTD

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

5 TEST METHODOLOGY

5.1 Applicable Limit Regulations

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

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

5.2 Applicable Measurement Standards

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

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

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

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

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

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

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

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

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

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

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

6 Specific Absorption Rate (SAR)

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ) . The equation description is as below:

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

SAR is expressed in units of Watts per kilogram (W/kg)
SAR measurement can be either related to the temperature elevation in tissue by

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

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

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

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

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

7 Tissue Simulating Liquids

7.1 Targets for tissue simulating liquid

Table 7.1: Targets for tissue simulating liquid

Frequency(MHz)	Liquid Type	Conductivity(σ)	±10% Range	Permittivity(ε)	± 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

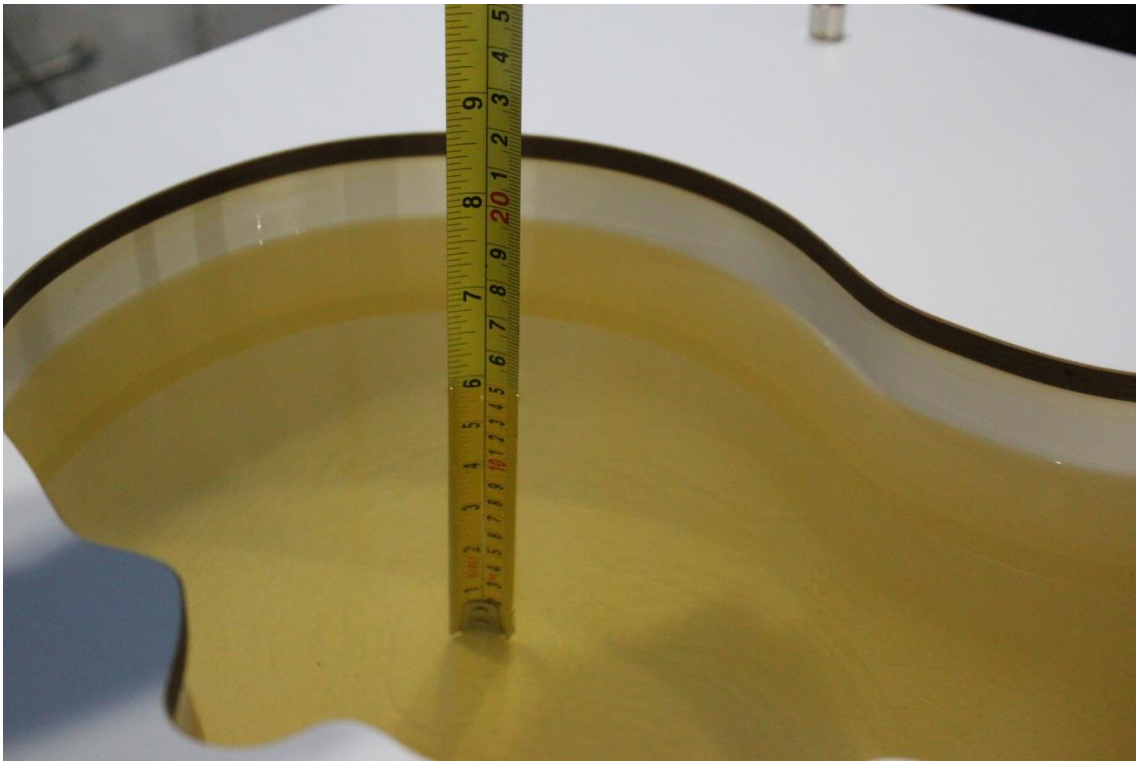
Frequency(MHz)	Liquid Type	Conductivity(σ)	± 5% Range	Permittivity(ε)	± 5% Range
3500	Head	2.91	2.76～3.06	37.93	36.03～39.83
3700	Head	3.12	2.96～3.28	37.70	35.82～39.59
3900	Head	3.32	3.15～3.49	37.47	35.6～39.34
5250	Head	4.71	4.47～4.95	35.93	34.13～37.73
5600	Head	5.07	4.82～5.32	35.53	33.8～37.3
5750	Head	5.22	4.96～5.48	35.36	33.59～37.13

7.2 Dielectric Performance

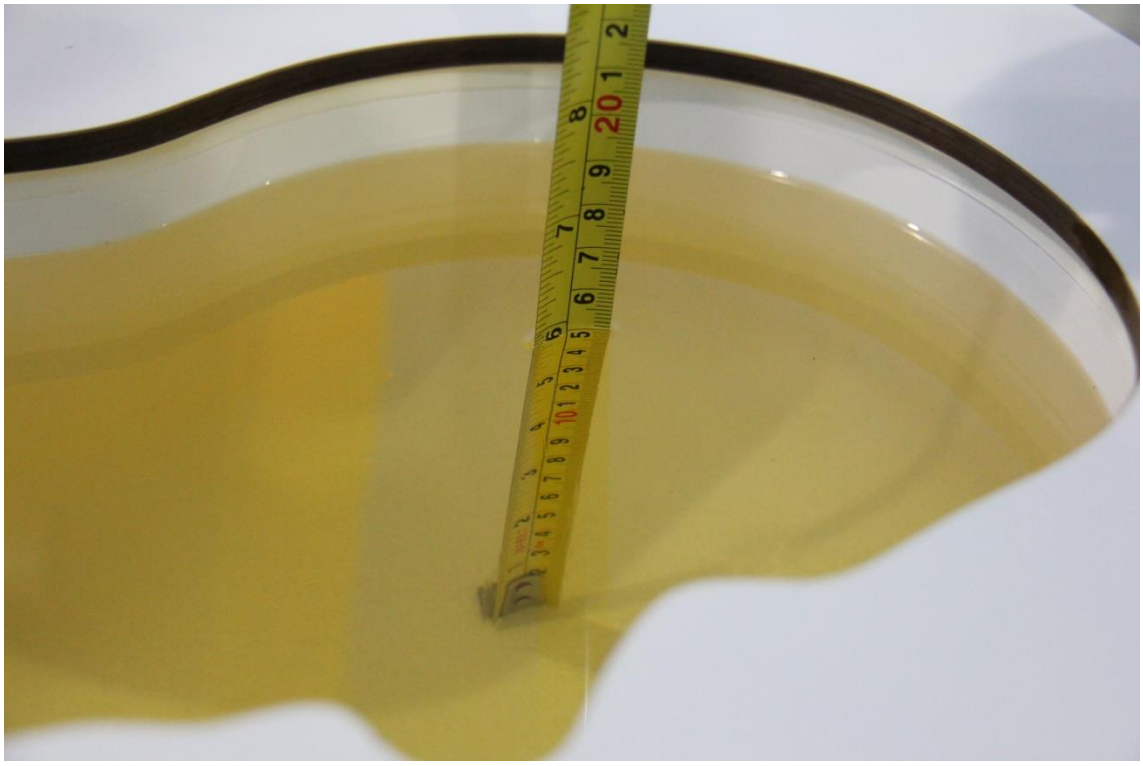
Table 7.3: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity ε	Drift (%)	Conductivity σ (S/m)	Drift (%)
2022-4-5	Head	750 MHz	43.12	2.81%	0.9356	5.12%
2022-4-6	Head	750 MHz	45.28	7.96%	0.8427	-5.31%
2022-4-8	Head	835 MHz	42.95	3.49%	0.9582	6.47%
2022-4-9	Head	1750 MHz	41.1	2.54%	1.382	0.88%
2022-4-10	Head	1750 MHz	42.33	5.61%	1.409	2.85%
2022-4-14	Head	1900 MHz	40.82	2.05%	1.479	5.64%
2022-4-15	Head	1900 MHz	42.04	5.10%	1.496	6.86%
2022-4-18	Head	2450 MHz	40.19	2.53%	1.849	2.72%
2022-4-20	Head	2600 MHz	39.97	2.46%	1.959	-0.05%
2022-4-21	Head	2600 MHz	40.92	4.90%	2.013	2.70%
2022-4-27	Head	3500 MHz	39.44	3.68%	2.791	-0.68%
2022-4-27	Head	3700 MHz	39.09	3.39%	2.979	-1.36%
2022-4-27	Head	3900 MHz	38.73	3.03%	3.174	-1.43%
2022-5-10	Head	5250 MHz	36.46	1.48%	4.672	-0.81%
2022-5-11	Head	5600 MHz	35.84	0.87%	5.043	-0.53%
2022-5-12	Head	5750 MHz	35.55	0.54%	5.231	0.21%

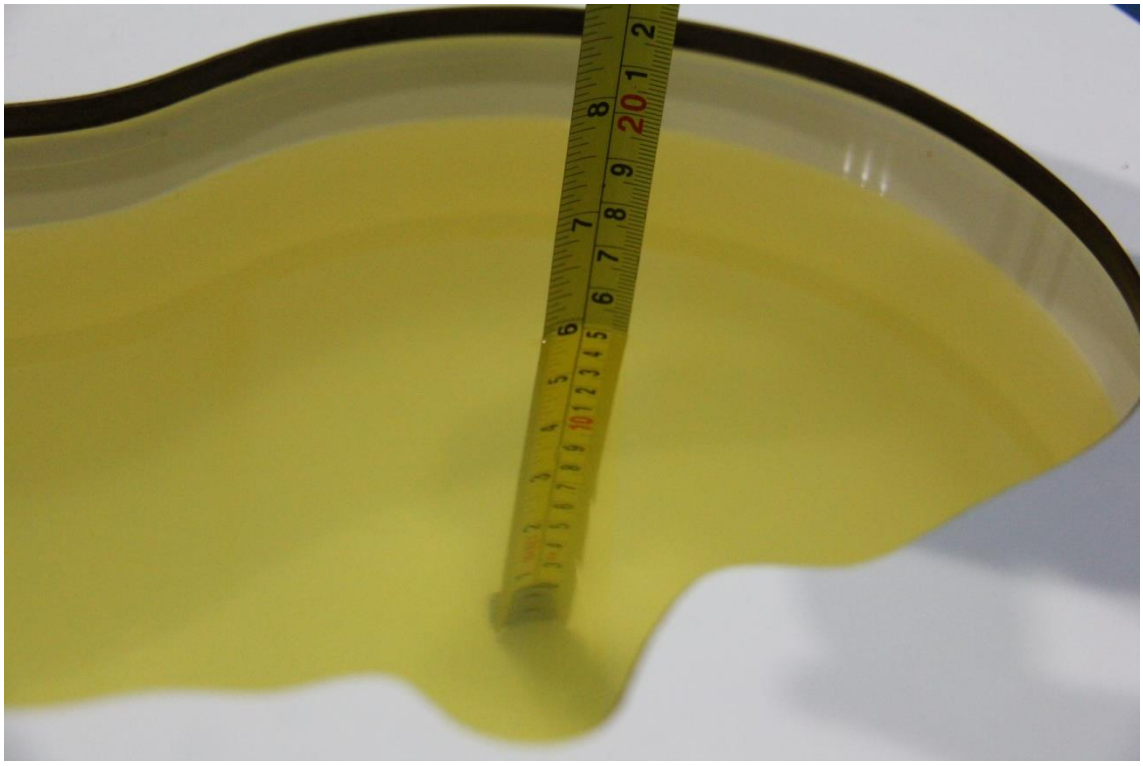
Note: The liquid temperature is 22.0℃



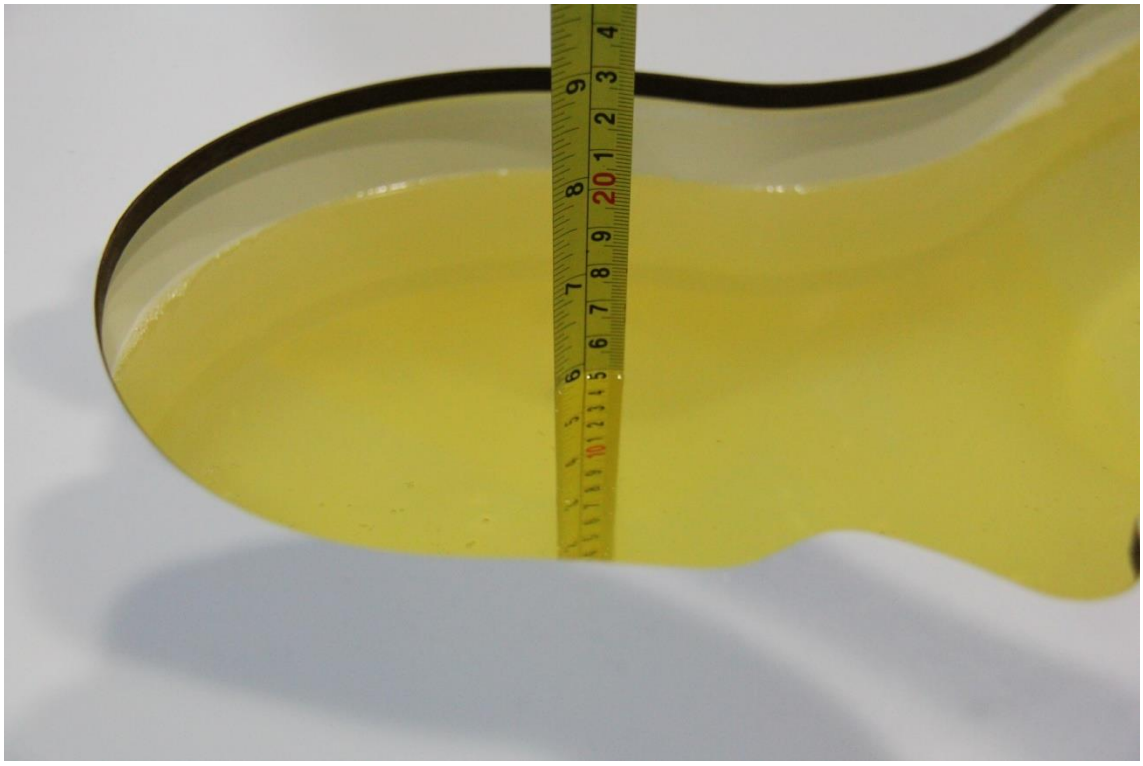
Picture 7-1 Liquid depth in the Head Phantom (750MHz)



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

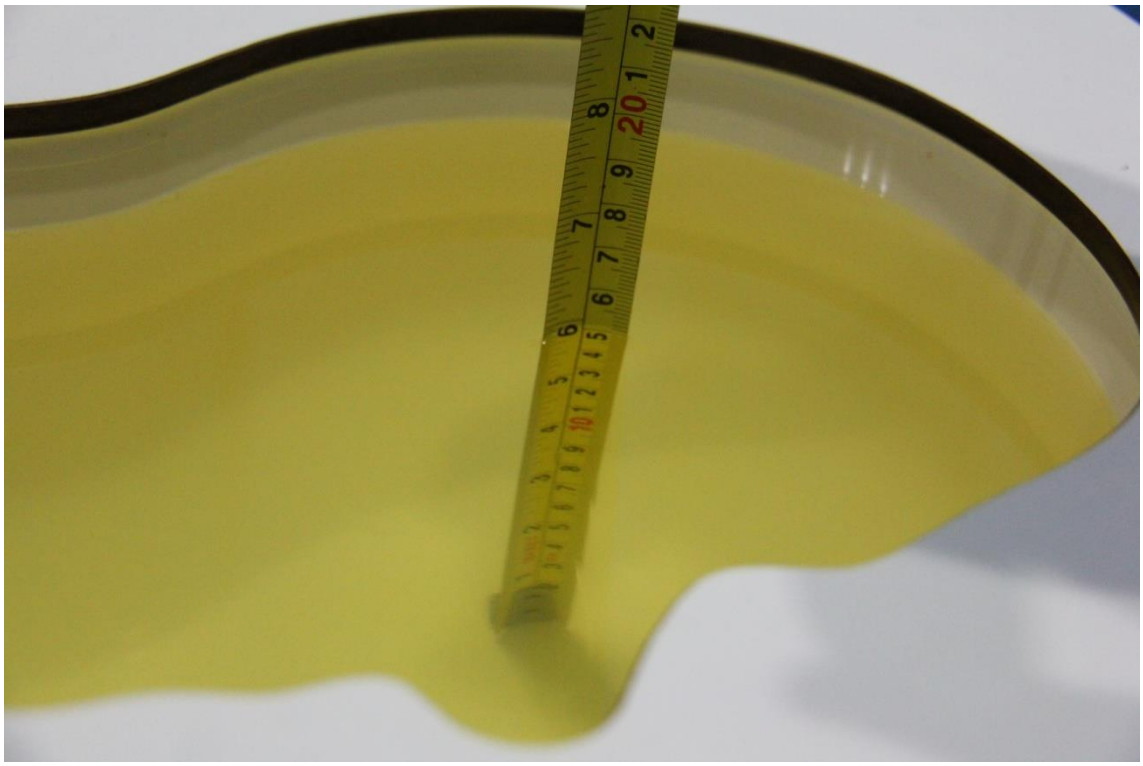


Picture 7-3 Liquid depth in the Head Phantom (1900 MHz)

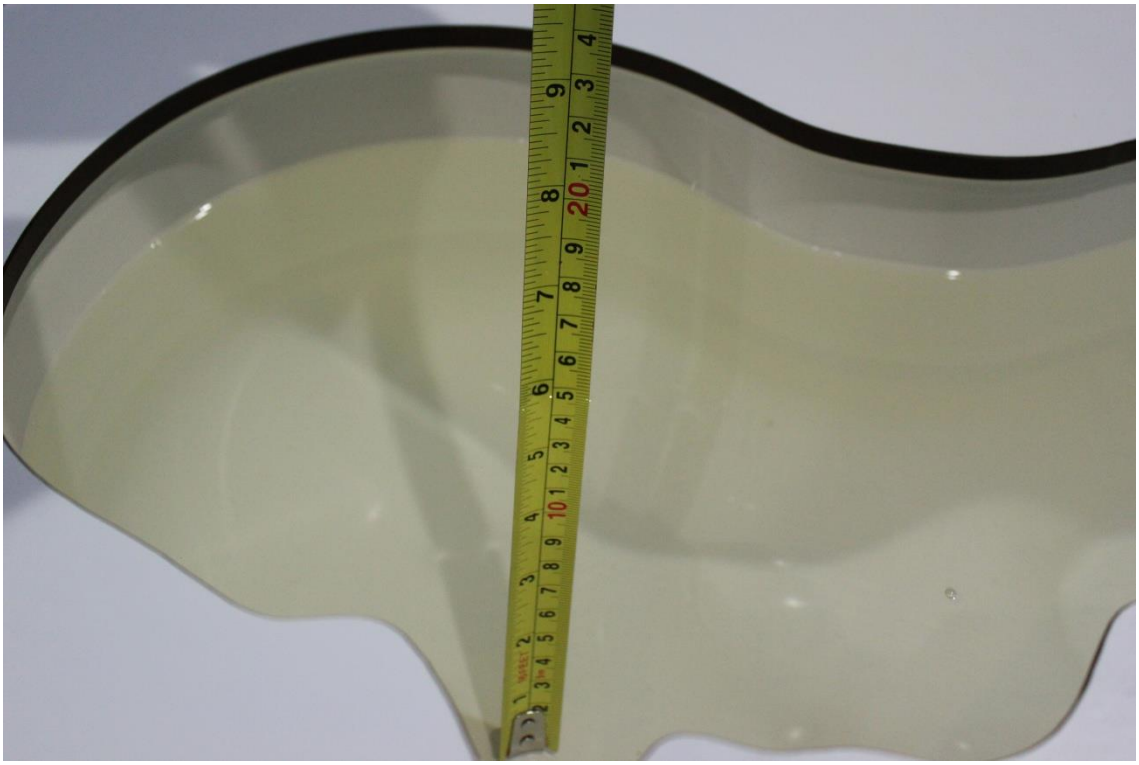


Picture 7-4 Liquid depth in the Head Phantom (2450MHz)

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



Picture 7-6 Liquid depth in the Head Phantom (3GHz)

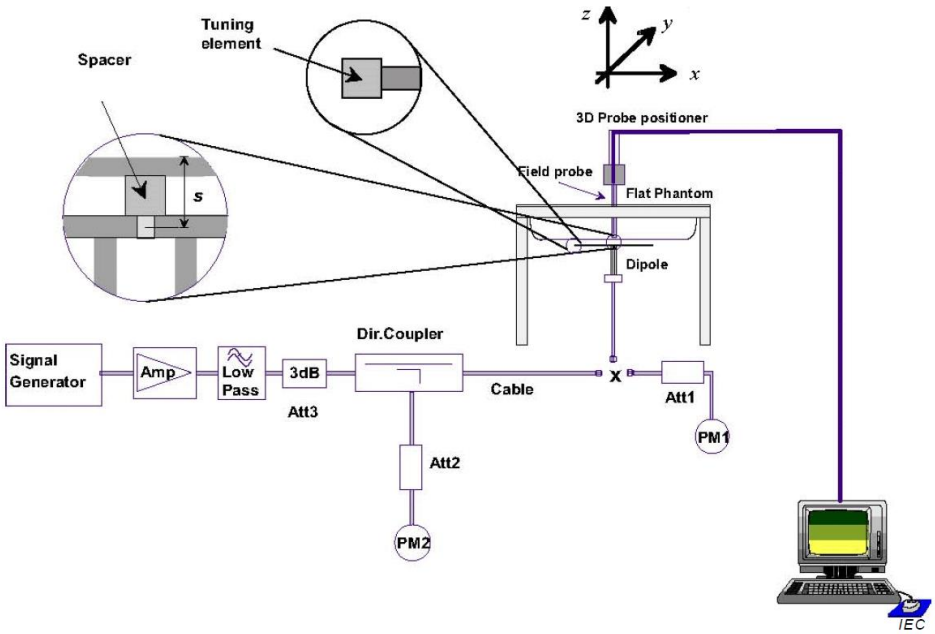


Picture 7-7 Liquid depth in the Head Phantom (5GHz)

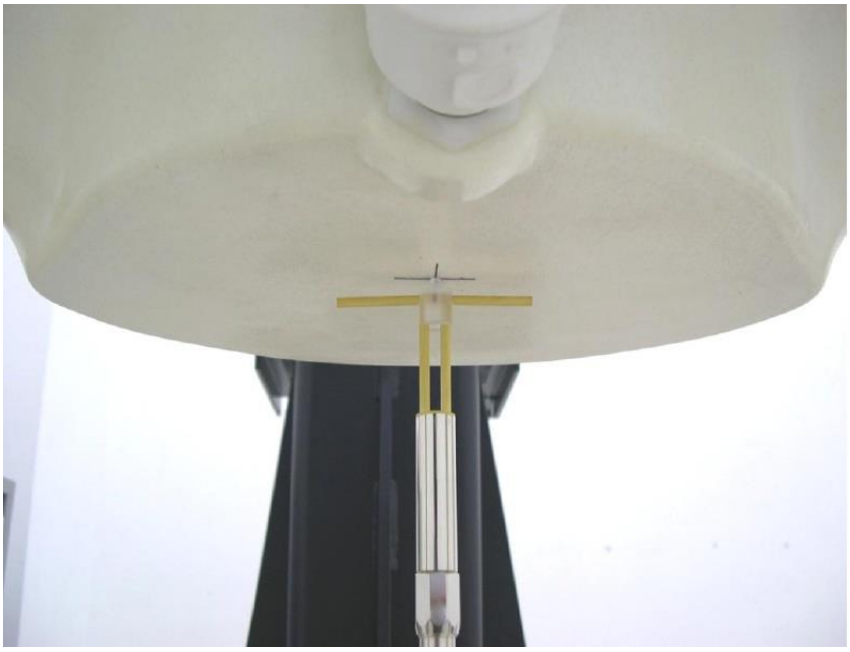
8 System verification

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
2022-4-5	750 MHz	5.65	8.68	5.64	8.64	-0.18%	-0.46%
2022-4-6	750 MHz	5.65	8.68	5.48	8.48	-3.01%	-2.30%
2022-4-8	835 MHz	6.24	9.63	6.12	9.36	-1.92%	-2.80%
2022-4-9	1750 MHz	19.4	36.9	19.8	37.2	2.06%	0.70%
2022-4-10	1750 MHz	19.4	36.9	19.6	36.6	1.24%	-0.81%
2022-4-14	1900 MHz	20.9	40.1	20.5	39.6	-2.01%	-1.15%
2022-4-15	1900 MHz	20.9	40.1	20.4	39.4	-2.58%	-1.75%
2022-4-18	2450 MHz	24.9	53.3	24.2	52.1	-2.81%	-2.21%
2022-4-20	2600 MHz	25.5	57.1	25.9	57.7	1.65%	1.02%
2022-4-21	2600 MHz	25.5	57.1	25.1	55.8	-1.65%	-2.28%
2022-4-27	3500 MHz	25.2	67.3	24.5	65.3	-2.78%	-2.97%
2022-4-27	3700 MHz	24.3	67.1	23.5	64.7	-3.29%	-3.58%
2022-4-27	3900 MHz	24.1	69.3	23.8	67.6	-1.24%	-2.45%
2022-5-10	5250 MHz	22.7	79.5	23.1	79.8	1.76%	0.38%
2022-5-11	5600 MHz	23.7	83.8	23.3	82.5	-1.69%	-1.55%
2022-5-12	5750 MHz	22.7	81.0	21.9	78.5	-3.52%	-3.09%

9 Measurement Procedures

9.1 Tests to be performed

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

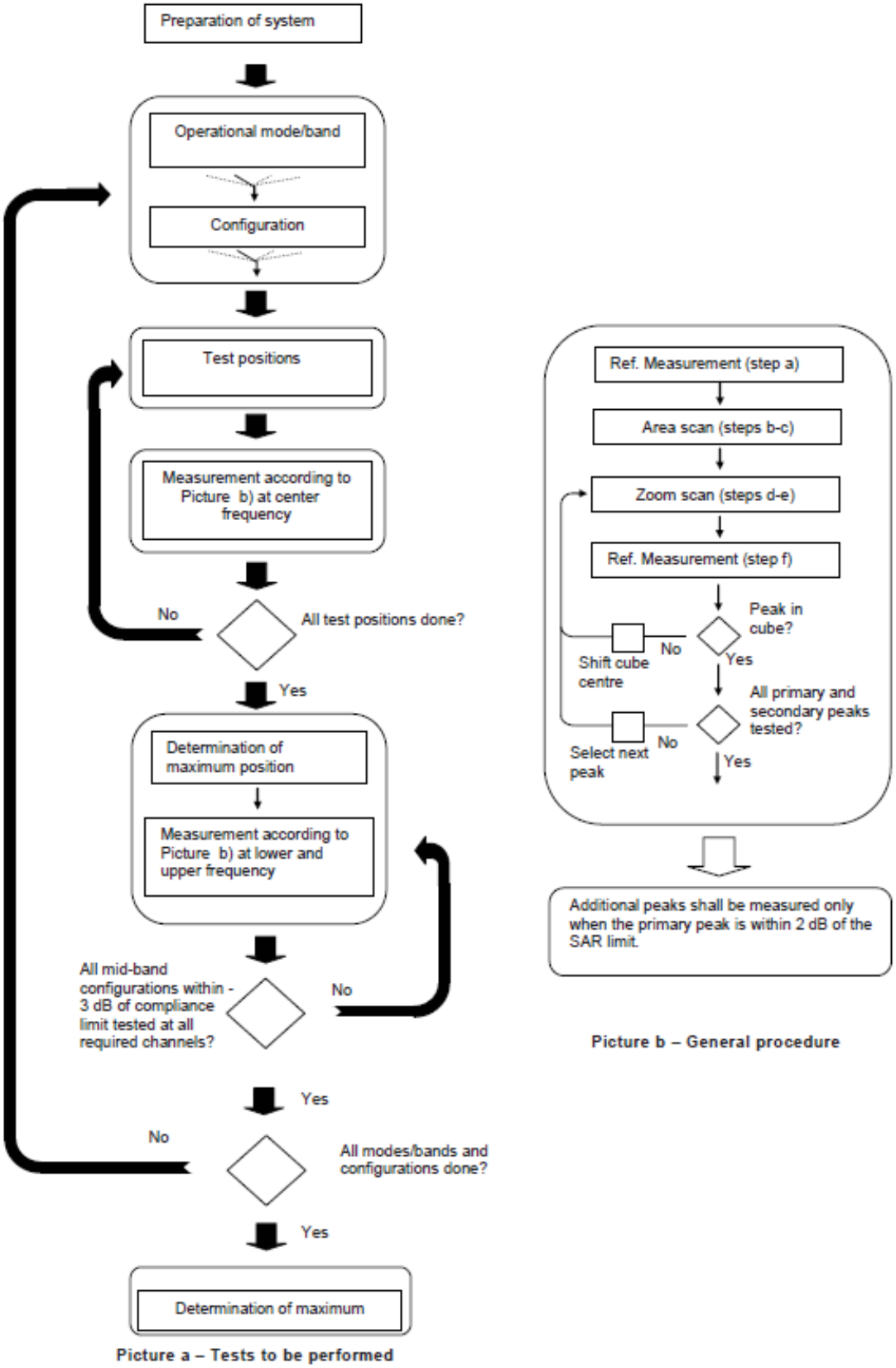
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

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

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

Step 2: For the condition providing highest peak spatial-average SAR determined in Step 1,perform all tests described in 9.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

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



Picture a – Tests to be performed

Picture b – General procedure

Picture 9.1Block diagram of the tests to be performed

9.2 General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2003. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>> 3 GHz</td></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5 ± 1 mm</td><td>½·δ·ln(2) ± 0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30° ± 1°</td><td>20° ± 1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3 – 4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}</td><td>≤ 2 GHz: ≤ 8 mm
2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm
4 – 5 GHz: ≤ 3 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm
4 – 5 GHz: ≤ 2.5 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">≤ 1.5·$\Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm
4 – 5 GHz: ≥ 25 mm
5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
* When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

9.3 WCDMA Measurement Procedures for SAR

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

For Release 5 HSDPA Data Devices:

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

For Release 6 HSPA Data Devices

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

Rel.8 DC-HSDPA (Cat 24)

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

9.4 SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Rohde & Rchwarz CMW500. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the CMW 500.
It is performed for conducted power and SAR based on the KDB941225 D05.
SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

1) QPSK with 1 RB allocation
   Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.
2) QPSK with 50% RB allocation
   The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.
3) QPSK with 100% RB allocation
   For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

TDD test:

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

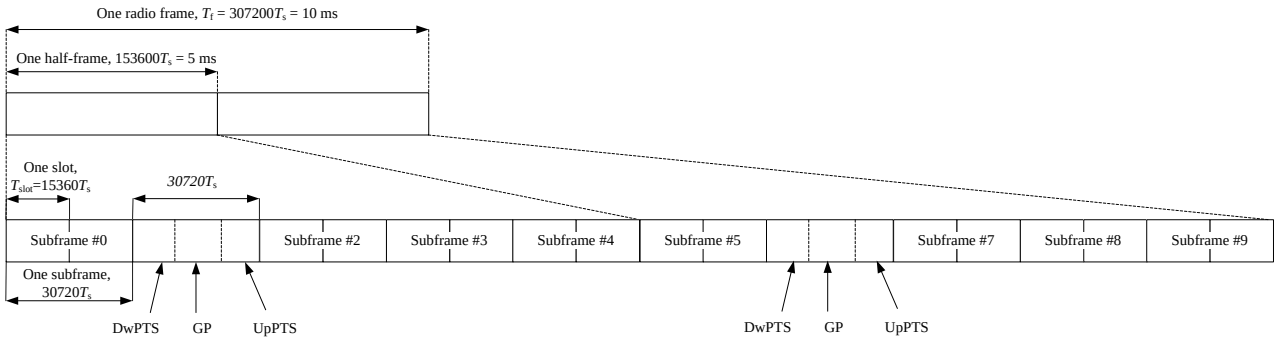


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

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

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

Table 9.2: Uplink-downlink configurations

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

Duty factor is calculated by:

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

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

= 0.633

9.5 Bluetooth & Wi-Fi Measurement Procedures for SAR

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

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

9.6 Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in section14 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

10 Area Scan Based 1-g SAR

10.1 Requirement of KDB

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

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

10.2 Fast SAR Algorithms

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

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

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

Both algorithms are implemented in DASY software.

11 Conducted Output Power

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

Antenna	Receiver off+ Sensor off (DSI0)	Receiver off+ Hotspot on (DSI1)	Receiver on+ WLAN off (DSI2)	Receiver on+ WLAN on (DSI3)	Receiver off+ sensor on+ Hotspot off+ WLAN off (DSI4)	Receiver off+ sensor on+ Hotspot off+ WLAN on (DSI5)
Main Antenna	Power Level A1	Power Level B1	Power Level C1	Power Level D1	Power Level E1	Power Level F1

Antenna	Receiver off+ Hotspot on (DSI1)	Receiver off+ sensor on+ Hotspot off+ WLAN off (DSI4)	Receiver off+ sensor on+ Hotspot off+ WLAN on (DSI5)
Main Antenna -Only for LTE B2/B66-ANT1 under ENDC	Power Level B2	Power Level E2	Power Level F2

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

Antenna	Receiver off+ Sensor off (DSI0)	Receiver off+ Hotspot on (DSI1)	Receiver on+ WWAN off (DSI2)	Receiver on+ WWAN on (DSI3)	Receiver off+ sensor on+ Hotspot off+ WWAN off (DSI4)	Receiver off+ sensor on+ Hotspot off+ WWAN on (DSI5)
WLAN Antenna	Power Level A1	Power Level B1	Power Level C1	Power Level D1	Power Level E1	Power Level F1

11.1 GSM Measurement result

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

Table 11.1-1: The conducted power measurement results –GSM850

-Power Level A1/B1/C1/D1/E1/F1

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	32.16	32.25	32.33	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	32.13	32.23	32.32	33.50	-9.03	23.10	23.20	23.29
2 Txslots	31.43	31.52	31.61	32.50	-6.02	25.41	25.50	25.59
3 Txslots	29.71	29.82	29.93	30.50	-4.26	25.45	25.56	25.67
4 Txslots	28.67	28.77	28.85	29.50	-3.01	25.66	25.76	25.84
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	32.12	32.21	32.30	33.50	-9.03	23.09	23.18	23.27
2 Txslots	31.42	31.50	31.59	32.50	-6.02	25.40	25.48	25.57
3 Txslots	29.69	29.80	29.90	30.50	-4.26	25.43	25.54	25.64
4 Txslots	28.65	28.74	28.83	29.50	-3.01	25.64	25.73	25.82
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	27.16	27.28	27.36	27.50	-9.03	18.13	18.25	18.33
2 Txslots	26.44	26.10	27.28	26.50	-6.02	20.42	20.08	21.26
3Txslots	24.05	24.11	24.27	24.50	-4.26	19.79	19.85	20.01
4 Txslots	22.74	23.16	22.96	23.50	-3.01	19.73	20.15	19.95

NOTES:

1) Division Factors

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

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

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

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

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

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

Table 11.1-2: The conducted power measurement results-GSM1900
-Power Level A1/B1/C1/D1/E1/F1

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	29.67	29.59	29.71	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	29.65	29.58	29.70	30.50	-9.03	20.62	20.55	20.67
2 Txslots	28.96	28.86	28.96	29.50	-6.02	22.94	22.84	22.94
3 Txslots	27.29	27.05	27.13	27.50	-4.26	23.03	22.79	22.87
4 Txslots	26.24	26.04	26.08	26.50	-3.01	23.23	23.03	23.07
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	29.65	29.58	29.69	30.50	-9.03	20.62	20.55	20.66
2 Txslots	28.96	28.85	28.95	29.50	-6.02	22.94	22.83	22.93
3 Txslots	27.29	27.04	27.12	27.50	-4.26	23.03	22.78	22.86
4 Txslots	26.25	26.03	26.07	26.50	-3.01	23.24	23.02	23.06
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	25.95	26.33	26.46	26.50	-9.03	16.92	17.30	17.43
2 Txslots	25.09	25.23	25.48	25.50	-6.02	19.07	19.21	19.46
3Txslots	22.79	23.06	23.32	23.50	-4.26	18.53	18.80	19.06
4 Txslots	21.51	21.71	21.87	22.50	-3.01	18.50	18.70	18.86

NOTES:

1) Division Factors

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

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

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

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

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

According to the conducted power as above, the body measurements are performed with 4Txslots for GSM1900.

11.2 WCDMA Measurement result

Table 11.2-1: The conducted Power for WCDMA B2/B4 -Power Level A1/C1/D1

WCDMA1900	FDDII result (dBm)			Tune up
	9538/9938	9400/9800	9262/9662	
	(1907.6MHz)	(1880MHz)	(1852.4MHz)	
	23.27	23.38	23.53	24.00
HSUPA	20.69	20.85	20.98	21.00
	20.24	20.35	20.49	21.00
	20.22	20.37	20.49	21.00
	19.70	19.82	19.95	20.50
	21.14	21.27	21.45	22.00
DC-HSDPA	22.29	22.35	22.47	23.00
	21.41	21.57	21.70	23.00
	21.79	21.89	22.02	22.50
	21.75	21.85	21.97	22.50

WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738	1412/1637	1312/1537	
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	23.96	23.95	23.86	24.00
HSUPA	20.34	20.27	19.81	21.00
	20.90	20.85	20.76	21.00
	20.91	20.83	20.77	21.00
	20.41	20.35	20.31	20.50
	21.84	21.79	21.74	22.00
DC-HSDPA	21.78	21.76	21.80	22.00
	21.95	21.97	21.89	22.00
	21.31	21.27	21.32	21.50
	21.25	21.24	21.11	21.50

Table 11.2-2: The conducted Power for WCDMA B2/B4 -Power Level B1/E1/F1

WCDMA1900	FDDII result (dBm)			Tune up
	9538/9938	9400/9800	9262/9662	
	(1907.6MHz)	(1880MHz)	(1852.4MHz)	
	20.82	20.83	20.80	22.00
HSUPA	18.55	18.57	18.53	19.00
	18.04	18.09	18.04	19.00
	18.09	18.12	18.08	19.00
	17.61	17.65	17.79	19.00
	19.17	19.22	19.20	19.00
DC-HSDPA	20.02	19.94	19.87	20.00
	19.86	19.84	19.86	20.00
	19.54	19.50	19.40	20.00
	19.48	19.44	19.36	20.00

WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738	1412/1637	1312/1537	
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	20.90	20.91	20.93	22.00
HSUPA	18.57	18.58	18.63	19.00
	18.07	18.10	18.09	19.00
	18.08	18.11	18.12	19.00
	17.58	17.64	17.64	19.00
	19.06	19.10	19.10	19.00
DC-HSDPA	19.90	19.98	20.00	21.00
	19.87	19.96	19.99	21.00
	19.60	19.68	19.69	21.00
	19.58	19.64	19.65	21.00

Table 11.2-3: The conducted Power for WCDMA B5 -Power Level A1/B1/C1/D1/E1/F1

WCDMA850	FDDV result (dBm)			Tune up
	4233/4458	4183/4408	4132/4357	
	(846.6MHz)	(836.6MHz)	(826.4MHz)	
	22.99	23.06	23.12	24.00
HSUPA	19.95	20.51	20.56	21.00
	19.93	19.97	19.98	21.00
	19.96	19.98	19.97	21.00
	19.43	19.47	19.49	20.50
	20.89	20.96	20.97	22.00
DC-HSDPA	21.96	22.01	22.07	22.50
	21.83	21.86	21.92	22.50
	21.47	21.45	21.46	21.50
	21.41	21.45	21.46	21.50

11.3 LTE Measurement result

Maximum Target Power for Production Unit

Band	Tune up (dBm)					
	Receiver off+ Sensor off (DSI0)	Receiver off+ Hotspot on (DSI1)	Receiver on+ WLAN off (DSI2)	Receiver on+ WLAN on (DSI3)	Receiver off+ sensor on+ Hotspot off+ WLAN off (DSI4)	Receiver off+ sensor on+ Hotspot off+ WLAN on (DSI5)
	Power Level A1	Power Level B1	Power Level C1	Power Level D1	Power Level E1	Power Level F1
Band 2-ANT1	24.5	22	24.5	24.5	22	22
Band 2-ANT3	24	20	15	15	22	20
Band 7	24.5	21	24.5	24.5	21	21
Band 12	24.5	24.5	24.5	24.5	24.5	24.5
Band 25	24.5	22	24.5	24.5	22	22
Band 26	24.5	24.5	24.5	24.5	24.5	24.5
Band 41-PC3	24.5	19	16	16	22	19
Band 41-PC2	27.5	22.5	19.5	19.5	25.5	22.5
Band 66-ANT1	24.5	22	24.5	24.5	24.5	22
Band 66-ANT3	24	22	16	16	24	22
Band 71	24.5	24.5	24.5	24.5	24.5	24.5

Band	Tune up (dBm)		
	Receiver off+ Hotspot on (DSI1)	Receiver off+ sensor on+ WLAN off (DSI4)	Receiver off+ sensor on+ WLAN on (DSI5)
	Power Level B2	Power Level E2	Power Level F2
LTE B2-ANT1 under ENDC	20	22	20
LTE B66-ANT1 under ENDC	20	22	20

LTE B2 ANT1-Power level A1/C1/D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	23.36	22.70	21.50
		1880 (18900)	23.22	22.49	21.46
		1850.7 (18607)	23.30	22.49	21.42
	1RB-Middle (3)	1909.3 (19193)	23.39	22.54	21.50
		1880 (18900)	23.26	22.49	21.45
		1850.7 (18607)	23.30	22.54	21.42
	1RB-Low (0)	1909.3 (19193)	23.41	22.68	21.49
		1880 (18900)	23.27	22.47	21.47
		1850.7 (18607)	23.30	22.50	21.52
	3RB-High (3)	1909.3 (19193)	23.42	22.33	21.48
		1880 (18900)	23.26	22.21	21.27
		1850.7 (18607)	23.34	22.33	21.38
	3RB-Middle (1)	1909.3 (19193)	23.46	22.46	21.42
		1880 (18900)	23.24	22.24	21.36
		1850.7 (18607)	23.33	22.34	21.35
	3RB-Low (0)	1909.3 (19193)	23.44	22.46	21.47
		1880 (18900)	23.27	22.27	21.36
		1850.7 (18607)	23.34	22.32	21.41
	6RB (0)	1909.3 (19193)	22.14	21.47	20.35
		1880 (18900)	22.24	21.33	20.15
		1850.7 (18607)	22.33	21.31	20.25
3MHz	1RB-High (14)	1908.5 (19185)	23.36	22.66	21.61
		1880 (18900)	23.25	22.49	21.43
		1851.5 (18615)	23.31	22.57	21.40
	1RB-Middle (7)	1908.5 (19185)	23.39	22.62	21.56
		1880 (18900)	23.27	22.59	21.44
		1851.5 (18615)	23.34	22.56	21.46
	1RB-Low (0)	1908.5 (19185)	23.36	22.56	21.55
		1880 (18900)	23.25	22.54	21.40
		1851.5 (18615)	23.27	22.46	21.37
	8RB-High (7)	1908.5 (19185)	22.39	21.45	20.38
		1880 (18900)	22.22	21.31	20.21
		1851.5 (18615)	22.28	21.35	20.33
	8RB-Middle (4)	1908.5 (19185)	22.39	21.45	20.41
		1880 (18900)	22.21	21.32	20.24
		1851.5 (18615)	22.28	21.39	20.29
	8RB-Low (0)	1908.5 (19185)	22.41	21.49	20.43
		1880 (18900)	22.27	21.27	20.23
		1851.5 (18615)	22.31	21.36	20.31
	15RB (0)	1908.5 (19185)	22.42	21.42	20.38
		1880 (18900)	22.27	21.26	20.17
		1851.5 (18615)	22.29	21.36	20.30

5MHz	1RB-High (24)	1907.5 (19175)	23.41	22.66	21.55
		1880 (18900)	23.28	22.46	21.46
		1852.5 (18625)	23.35	22.60	21.41
	1RB-Middle (12)	1907.5 (19175)	23.42	22.64	21.52
		1880 (18900)	23.31	22.53	21.45
		1852.5 (18625)	23.36	22.58	21.54
	1RB-Low (0)	1907.5 (19175)	23.42	22.68	21.59
		1880 (18900)	23.31	22.58	21.38
		1852.5 (18625)	23.30	22.61	21.50
	12RB-High (13)	1907.5 (19175)	22.34	21.33	20.39
		1880 (18900)	22.26	21.29	20.26
		1852.5 (18625)	22.31	21.24	20.27
	12RB-Middle (6)	1907.5 (19175)	22.43	21.40	20.42
		1880 (18900)	22.27	21.27	20.24
		1852.5 (18625)	22.33	21.29	20.32
	12RB-Low (0)	1907.5 (19175)	22.35	21.36	20.35
		1880 (18900)	22.25	21.24	20.29
		1852.5 (18625)	22.34	21.30	20.33
	25RB (0)	1907.5 (19175)	22.45	21.44	20.38
		1880 (18900)	22.28	21.28	20.25
		1852.5 (18625)	22.28	21.31	20.30
10MHz	1RB-High (49)	1905 (19150)	23.41	22.56	21.58
		1880 (18900)	23.25	22.51	21.34
		1855 (18650)	23.34	22.46	21.39
	1RB-Middle (24)	1905 (19150)	23.48	22.68	21.62
		1880 (18900)	23.31	22.58	21.44
		1855 (18650)	23.37	22.62	21.49
	1RB-Low (0)	1905 (19150)	23.41	22.71	21.51
		1880 (18900)	23.28	22.61	21.38
		1855 (18650)	23.36	22.52	21.40
	25RB-High (25)	1905 (19150)	22.43	21.45	20.43
		1880 (18900)	22.29	21.25	20.22
		1855 (18650)	22.32	21.32	20.30
	25RB-Middle (12)	1905 (19150)	22.35	21.38	20.39
		1880 (18900)	22.29	21.24	20.25
		1855 (18650)	22.31	21.36	20.30
	25RB-Low (0)	1905 (19150)	22.38	21.38	20.36
		1880 (18900)	22.22	21.24	20.18
		1855 (18650)	22.29	21.32	20.29
	50RB (0)	1905 (19150)	22.46	21.43	20.44
		1880 (18900)	22.29	21.27	20.26
		1855 (18650)	22.38	21.29	20.30

15MHz	1RB-High (74)	1902.5 (19125)	23.33	22.60	21.51
		1880 (18900)	23.18	22.49	21.29
		1857.5 (18675)	23.27	22.52	21.44
	1RB-Middle (37)	1902.5 (19125)	23.34	22.57	21.51
		1880 (18900)	23.23	22.48	21.44
		1857.5 (18675)	23.36	22.60	21.42
	1RB-Low (0)	1902.5 (19125)	23.28	22.50	21.43
		1880 (18900)	23.20	22.46	21.37
		1857.5 (18675)	23.28	22.57	21.40
	36RB-High (38)	1902.5 (19125)	22.44	21.38	20.37
		1880 (18900)	22.19	21.25	20.23
		1857.5 (18675)	22.30	21.26	20.23
	36RB-Middle (19)	1902.5 (19125)	22.29	21.34	20.39
		1880 (18900)	22.18	21.23	20.20
		1857.5 (18675)	22.31	21.29	20.29
	36RB-Low (0)	1902.5 (19125)	22.34	21.32	20.36
		1880 (18900)	22.27	21.19	20.18
		1857.5 (18675)	22.26	21.26	20.28
	75RB (0)	1902.5 (19125)	22.41	21.41	20.32
		1880 (18900)	22.27	21.26	20.21
		1857.5 (18675)	22.34	21.31	20.24
20MHz	1RB-High (99)	1900 (19100)	22.83	22.15	21.01
		1880 (18900)	22.69	21.89	20.89
		1860 (18700)	22.75	21.91	21.00
	1RB-Middle (50)	1900 (19100)	22.72	21.95	20.95
		1880 (18900)	22.76	21.94	20.86
		1860 (18700)	22.73	21.98	20.80
	1RB-Low (0)	1900 (19100)	22.74	21.98	21.01
		1880 (18900)	22.72	21.99	20.86
		1860 (18700)	22.78	22.03	20.98
	50RB-High (50)	1900 (19100)	21.70	20.70	19.67
		1880 (18900)	21.76	20.75	19.75
		1860 (18700)	21.78	20.73	19.77
	50RB-Middle (25)	1900 (19100)	21.73	20.74	19.74
		1880 (18900)	21.72	20.69	19.67
		1860 (18700)	21.74	20.73	19.79
	50RB-Low (0)	1900 (19100)	21.83	20.83	19.84
		1880 (18900)	21.70	20.71	19.68
		1860 (18700)	21.82	20.79	19.90
	100RB (0)	1900 (19100)	21.74	20.76	19.72
		1880 (18900)	21.73	20.72	19.68
		1860 (18700)	21.81	20.72	19.84

LTE B2 ANT1-Power level B1/E1/F1/E2					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	20.68	20.12	19.00
		1880 (18900)	20.54	20.06	18.78
		1850.7 (18607)	20.47	20.15	18.95
	1RB-Middle (3)	1909.3 (19193)	20.79	19.86	19.09
		1880 (18900)	20.56	20.15	18.80
		1850.7 (18607)	20.91	20.16	19.16
	1RB-Low (0)	1909.3 (19193)	20.60	19.77	18.82
		1880 (18900)	20.56	19.93	19.02
		1850.7 (18607)	20.68	20.21	18.90
	3RB-High (3)	1909.3 (19193)	20.72	20.18	19.05
		1880 (18900)	20.57	20.01	18.65
		1850.7 (18607)	20.37	20.02	18.87
	3RB-Middle (1)	1909.3 (19193)	20.84	20.17	18.83
		1880 (18900)	20.72	20.01	19.01
		1850.7 (18607)	21.10	19.94	18.99
	3RB-Low (0)	1909.3 (19193)	20.36	19.70	18.69
		1880 (18900)	20.75	20.02	19.10
		1850.7 (18607)	20.46	20.17	18.78
	6RB (0)	1909.3 (19193)	19.67	18.62	17.80
		1880 (18900)	19.86	18.71	17.61
		1850.7 (18607)	19.79	18.76	17.68
3MHz	1RB-High (14)	1908.5 (19185)	20.44	20.08	19.03
		1880 (18900)	20.32	20.11	18.77
		1851.5 (18615)	20.40	19.95	18.80
	1RB-Middle (7)	1908.5 (19185)	20.81	20.02	19.06
		1880 (18900)	20.78	20.17	18.79
		1851.5 (18615)	21.22	19.92	18.88
	1RB-Low (0)	1908.5 (19185)	20.70	19.71	18.67
		1880 (18900)	20.56	20.25	18.84
		1851.5 (18615)	20.42	19.88	18.85
	8RB-High (7)	1908.5 (19185)	19.84	18.90	17.71
		1880 (18900)	19.80	18.64	17.61
		1851.5 (18615)	19.64	18.75	17.60
	8RB-Middle (4)	1908.5 (19185)	19.70	18.71	17.98
		1880 (18900)	19.96	18.77	17.73
		1851.5 (18615)	20.06	18.87	18.00
	8RB-Low (0)	1908.5 (19185)	19.91	19.08	18.10
		1880 (18900)	19.64	18.76	17.79
		1851.5 (18615)	19.99	18.68	17.90
	15RB (0)	1908.5 (19185)	19.70	18.76	17.99
		1880 (18900)	19.99	18.97	17.76
		1851.5 (18615)	19.65	18.94	18.03

5MHz	1RB-High (24)	1907.5 (19175)	20.77	19.85	18.85
		1880 (18900)	20.59	20.10	18.68
		1852.5 (18625)	20.44	20.17	18.89
	1RB-Middle (12)	1907.5 (19175)	20.64	19.99	19.18
		1880 (18900)	20.52	20.23	18.78
		1852.5 (18625)	20.96	19.99	18.97
	1RB-Low (0)	1907.5 (19175)	20.52	19.81	18.91
		1880 (18900)	20.41	20.20	18.79
		1852.5 (18625)	20.45	20.19	18.86
	12RB-High (13)	1907.5 (19175)	19.60	18.86	17.91
		1880 (18900)	19.63	18.73	17.68
		1852.5 (18625)	19.89	18.79	17.62
	12RB-Middle (6)	1907.5 (19175)	19.92	18.71	17.97
		1880 (18900)	19.77	18.99	17.72
		1852.5 (18625)	20.08	18.84	17.83
	12RB-Low (0)	1907.5 (19175)	20.01	18.96	17.93
		1880 (18900)	19.99	18.81	17.64
		1852.5 (18625)	19.82	18.85	17.71
	25RB (0)	1907.5 (19175)	19.80	18.86	17.73
		1880 (18900)	19.61	18.94	17.52
		1852.5 (18625)	19.92	18.97	17.89
10MHz	1RB-High (49)	1905 (19150)	20.42	19.90	18.74
		1880 (18900)	20.60	20.14	18.58
		1855 (18650)	20.49	20.07	19.02
	1RB-Middle (24)	1905 (19150)	20.55	19.93	19.18
		1880 (18900)	20.77	20.28	18.88
		1855 (18650)	21.02	20.09	18.97
	1RB-Low (0)	1905 (19150)	20.67	19.95	18.65
		1880 (18900)	20.48	20.08	18.88
		1855 (18650)	20.69	19.90	19.09
	25RB-High (25)	1905 (19150)	19.92	18.90	17.94
		1880 (18900)	19.88	18.64	17.87
		1855 (18650)	19.63	18.89	17.64
	25RB-Middle (12)	1905 (19150)	19.99	18.94	17.97
		1880 (18900)	19.70	18.70	17.70
		1855 (18650)	20.04	18.73	17.87
	25RB-Low (0)	1905 (19150)	19.71	18.84	18.06
		1880 (18900)	19.83	18.73	17.68
		1855 (18650)	19.70	18.68	18.08
	50RB (0)	1905 (19150)	20.06	18.72	17.66
		1880 (18900)	19.63	18.77	17.84
		1855 (18650)	19.78	18.65	17.70

15MHz	1RB-High (74)	1902.5 (19125)	20.57	20.00	18.86
		1880 (18900)	20.65	20.06	18.83
		1857.5 (18675)	20.45	20.21	19.00
	1RB-Middle (37)	1902.5 (19125)	20.63	19.97	19.15
		1880 (18900)	20.63	20.15	19.15
		1857.5 (18675)	20.94	19.90	19.17
	1RB-Low (0)	1902.5 (19125)	20.64	20.00	18.86
		1880 (18900)	20.45	20.02	19.06
		1857.5 (18675)	20.78	19.89	18.79
	36RB-High (38)	1902.5 (19125)	19.72	18.84	17.82
		1880 (18900)	19.82	18.96	17.70
		1857.5 (18675)	19.80	18.93	17.60
	36RB-Middle (19)	1902.5 (19125)	19.75	18.72	17.78
		1880 (18900)	19.91	19.02	17.58
		1857.5 (18675)	19.72	18.91	17.93
	36RB-Low (0)	1902.5 (19125)	19.93	19.00	18.13
		1880 (18900)	19.69	18.63	17.76
		1857.5 (18675)	19.86	18.72	17.82
	75RB (0)	1902.5 (19125)	19.81	18.85	18.02
		1880 (18900)	19.81	18.84	17.51
		1857.5 (18675)	19.75	18.73	18.04
20MHz	1RB-High (99)	1900 (19100)	20.62	20.03	18.86
		1880 (18900)	20.50	19.97	18.74
		1860 (18700)	20.57	20.02	18.88
	1RB-Middle (50)	1900 (19100)	20.67	19.98	19.00
		1880 (18900)	20.68	20.13	18.97
		1860 (18700)	21.10	20.10	18.98
	1RB-Low (0)	1900 (19100)	20.52	19.83	18.81
		1880 (18900)	20.57	20.08	18.94
		1860 (18700)	20.59	20.04	18.90
	50RB-High (50)	1900 (19100)	19.78	18.79	17.79
		1880 (18900)	19.81	18.76	17.72
		1860 (18700)	19.78	18.83	17.79
	50RB-Middle (25)	1900 (19100)	19.86	18.83	17.79
		1880 (18900)	19.78	18.82	17.76
		1860 (18700)	19.89	18.89	17.82
	50RB-Low (0)	1900 (19100)	19.85	18.91	17.94
		1880 (18900)	19.80	18.75	17.70
		1860 (18700)	19.83	18.87	17.88
	100RB (0)	1900 (19100)	19.86	18.80	17.83
		1880 (18900)	19.81	18.78	17.67
		1860 (18700)	19.82	18.82	17.85

LTE B2 ANT1-Power level B2/F2					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	18.41	18.55	18.39
		1880 (18900)	18.37	18.42	18.39
		1850.7 (18607)	18.36	18.49	18.43
	1RB-Middle (3)	1909.3 (19193)	18.42	18.50	18.45
		1880 (18900)	18.39	18.52	18.42
		1850.7 (18607)	18.41	18.44	18.43
	1RB-Low (0)	1909.3 (19193)	18.36	18.51	18.34
		1880 (18900)	18.36	18.45	18.37
		1850.7 (18607)	18.32	18.48	18.43
	3RB-High (3)	1909.3 (19193)	18.28	18.33	18.24
		1880 (18900)	18.39	18.49	18.40
		1850.7 (18607)	18.41	18.39	18.35
	3RB-Middle (1)	1909.3 (19193)	18.33	18.35	18.26
		1880 (18900)	18.36	18.44	18.43
		1850.7 (18607)	18.42	18.50	18.33
	3RB-Low (0)	1909.3 (19193)	18.46	18.35	18.32
		1880 (18900)	18.36	18.43	18.32
		1850.7 (18607)	18.30	18.35	18.27
	6RB (0)	1909.3 (19193)	18.31	18.27	18.31
		1880 (18900)	18.36	18.43	18.25
		1850.7 (18607)	18.46	18.44	18.41
3MHz	1RB-High (14)	1908.5 (19185)	18.38	18.48	18.35
		1880 (18900)	18.37	18.37	18.29
		1851.5 (18615)	18.40	18.46	18.35
	1RB-Middle (7)	1908.5 (19185)	18.39	18.44	18.38
		1880 (18900)	18.44	18.53	18.49
		1851.5 (18615)	18.41	18.53	18.38
	1RB-Low (0)	1908.5 (19185)	18.29	18.42	18.40
		1880 (18900)	18.37	18.48	18.37
		1851.5 (18615)	18.41	18.52	18.41
	8RB-High (7)	1908.5 (19185)	18.26	18.35	18.33
		1880 (18900)	18.38	18.43	18.33
		1851.5 (18615)	18.44	18.38	18.30
	8RB-Middle (4)	1908.5 (19185)	18.36	18.36	18.23
		1880 (18900)	18.47	18.44	18.47
		1851.5 (18615)	18.49	18.37	18.35
	8RB-Low (0)	1908.5 (19185)	18.37	18.46	18.36
		1880 (18900)	18.40	18.45	18.35
		1851.5 (18615)	18.38	18.30	18.38
	15RB (0)	1908.5 (19185)	18.33	18.34	18.32
		1880 (18900)	18.35	18.41	18.30
		1851.5 (18615)	18.40	18.44	18.41

5MHz	1RB-High (24)	1907.5 (19175)	18.44	18.53	18.50
		1880 (18900)	18.30	18.35	18.34
		1852.5 (18625)	18.45	18.58	18.49
	1RB-Middle (12)	1907.5 (19175)	18.44	18.45	18.50
		1880 (18900)	18.43	18.56	18.43
		1852.5 (18625)	18.42	18.58	18.41
	1RB-Low (0)	1907.5 (19175)	18.35	18.42	18.44
		1880 (18900)	18.40	18.54	18.43
		1852.5 (18625)	18.41	18.45	18.38
	12RB-High (13)	1907.5 (19175)	18.23	18.28	18.27
		1880 (18900)	18.40	18.42	18.32
		1852.5 (18625)	18.38	18.43	18.32
	12RB-Middle (6)	1907.5 (19175)	18.27	18.30	18.33
		1880 (18900)	18.40	18.48	18.38
		1852.5 (18625)	18.46	18.44	18.41
	12RB-Low (0)	1907.5 (19175)	18.43	18.34	18.30
		1880 (18900)	18.26	18.43	18.37
		1852.5 (18625)	18.30	18.38	18.29
	25RB (0)	1907.5 (19175)	18.24	18.31	18.25
		1880 (18900)	18.33	18.32	18.26
		1852.5 (18625)	18.45	18.39	18.41
10MHz	1RB-High (49)	1905 (19150)	18.44	18.50	18.36
		1880 (18900)	18.25	18.44	18.31
		1855 (18650)	18.36	18.47	18.49
	1RB-Middle (24)	1905 (19150)	18.47	18.55	18.45
		1880 (18900)	18.43	18.50	18.43
		1855 (18650)	18.52	18.58	18.36
	1RB-Low (0)	1905 (19150)	18.39	18.48	18.42
		1880 (18900)	18.36	18.45	18.46
		1855 (18650)	18.40	18.59	18.47
	25RB-High (25)	1905 (19150)	18.29	18.35	18.22
		1880 (18900)	18.43	18.43	18.40
		1855 (18650)	18.33	18.38	18.32
	25RB-Middle (12)	1905 (19150)	18.36	18.29	18.25
		1880 (18900)	18.43	18.45	18.42
		1855 (18650)	18.43	18.45	18.32
	25RB-Low (0)	1905 (19150)	18.43	18.45	18.37
		1880 (18900)	18.32	18.30	18.32
		1855 (18650)	18.31	18.31	18.33
	50RB (0)	1905 (19150)	18.30	18.31	18.35
		1880 (18900)	18.39	18.41	18.34
		1855 (18650)	18.34	18.53	18.44

15MHz	1RB-High (74)	1902.5 (19125)	18.45	18.47	18.41
		1880 (18900)	18.33	18.50	18.40
		1857.5 (18675)	18.45	18.55	18.44
	1RB-Middle (37)	1902.5 (19125)	18.32	18.47	18.35
		1880 (18900)	18.45	18.53	18.49
		1857.5 (18675)	18.50	18.58	18.43
	1RB-Low (0)	1902.5 (19125)	18.38	18.41	18.32
		1880 (18900)	18.39	18.51	18.39
		1857.5 (18675)	18.32	18.51	18.40
	36RB-High (38)	1902.5 (19125)	18.24	18.27	18.26
		1880 (18900)	18.40	18.38	18.30
		1857.5 (18675)	18.44	18.43	18.45
	36RB-Middle (19)	1902.5 (19125)	18.30	18.27	18.33
		1880 (18900)	18.47	18.53	18.35
		1857.5 (18675)	18.41	18.45	18.33
	36RB-Low (0)	1902.5 (19125)	18.45	18.36	18.36
		1880 (18900)	18.35	18.43	18.35
		1857.5 (18675)	18.28	18.43	18.37
	75RB (0)	1902.5 (19125)	18.24	18.29	18.27
		1880 (18900)	18.28	18.31	18.31
		1857.5 (18675)	18.46	18.40	18.46
20MHz	1RB-High (99)	1900 (19100)	18.42	18.54	18.45
		1880 (18900)	18.33	18.45	18.37
		1860 (18700)	18.41	18.53	18.44
	1RB-Middle (50)	1900 (19100)	18.42	18.54	18.45
		1880 (18900)	18.45	18.58	18.49
		1860 (18700)	18.47	18.53	18.44
	1RB-Low (0)	1900 (19100)	18.36	18.48	18.39
		1880 (18900)	18.40	18.51	18.43
		1860 (18700)	18.42	18.54	18.45
	50RB-High (50)	1900 (19100)	18.30	18.34	18.28
		1880 (18900)	18.40	18.44	18.38
		1860 (18700)	18.42	18.46	18.40
	50RB-Middle (25)	1900 (19100)	18.32	18.36	18.30
		1880 (18900)	18.43	18.50	18.44
		1860 (18700)	18.46	18.45	18.39
	50RB-Low (0)	1900 (19100)	18.41	18.44	18.40
		1880 (18900)	18.36	18.40	18.34
		1860 (18700)	18.35	18.39	18.33
	100RB (0)	1900 (19100)	18.32	18.36	18.30
		1880 (18900)	18.36	18.40	18.34
		1860 (18700)	18.44	18.48	18.42

LTE B2 ANT3-Power level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	22.17	21.33	20.31
		1880 (18900)	22.31	21.29	20.33
		1850.7 (18607)	22.24	21.27	20.26
	1RB-Middle (3)	1909.3 (19193)	22.24	21.34	20.41
		1880 (18900)	22.29	21.33	20.32
		1850.7 (18607)	22.36	21.41	20.48
	1RB-Low (0)	1909.3 (19193)	22.17	21.18	20.29
		1880 (18900)	22.24	21.42	20.31
		1850.7 (18607)	22.26	21.37	20.45
	3RB-High (3)	1909.3 (19193)	22.24	21.34	20.26
		1880 (18900)	22.11	21.33	20.17
		1850.7 (18607)	22.32	21.44	20.29
	3RB-Middle (1)	1909.3 (19193)	22.26	21.26	20.31
		1880 (18900)	22.34	21.31	20.34
		1850.7 (18607)	22.24	21.43	20.32
	3RB-Low (0)	1909.3 (19193)	22.33	21.40	20.24
		1880 (18900)	22.21	21.33	20.18
		1850.7 (18607)	22.33	21.44	20.26
	6RB (0)	1909.3 (19193)	21.20	20.12	19.10
		1880 (18900)	21.14	20.24	19.27
		1850.7 (18607)	21.24	20.38	19.27
3MHz	1RB-High (14)	1908.5 (19185)	22.25	21.32	20.37
		1880 (18900)	22.19	21.26	20.28
		1851.5 (18615)	22.26	21.34	20.36
	1RB-Middle (7)	1908.5 (19185)	22.23	21.44	20.35
		1880 (18900)	22.30	21.37	20.43
		1851.5 (18615)	22.30	21.50	20.47
	1RB-Low (0)	1908.5 (19185)	22.26	21.26	20.22
		1880 (18900)	22.40	21.38	20.42
		1851.5 (18615)	22.37	21.49	20.46
	8RB-High (7)	1908.5 (19185)	21.21	20.12	19.08
		1880 (18900)	21.29	20.17	19.30
		1851.5 (18615)	21.41	20.41	19.26
	8RB-Middle (4)	1908.5 (19185)	21.11	20.29	19.05
		1880 (18900)	21.12	20.14	19.24
		1851.5 (18615)	21.22	20.27	19.20
	8RB-Low (0)	1908.5 (19185)	21.18	20.33	19.29
		1880 (18900)	21.22	20.28	19.26
		1851.5 (18615)	21.29	20.39	19.22
	15RB (0)	1908.5 (19185)	21.15	20.16	19.22
		1880 (18900)	21.32	20.29	19.24
		1851.5 (18615)	21.34	20.24	19.26

5MHz	1RB-High (24)	1907.5 (19175)	22.23	21.37	20.33
		1880 (18900)	22.20	21.23	20.23
		1852.5 (18625)	22.32	21.27	20.29
	1RB-Middle (12)	1907.5 (19175)	22.26	21.38	20.34
		1880 (18900)	22.33	21.32	20.30
		1852.5 (18625)	22.37	21.38	20.43
	1RB-Low (0)	1907.5 (19175)	22.33	21.19	20.38
		1880 (18900)	22.28	21.39	20.43
		1852.5 (18625)	22.25	21.37	20.39
	12RB-High (13)	1907.5 (19175)	21.20	20.19	19.14
		1880 (18900)	21.31	20.21	19.29
		1852.5 (18625)	21.32	20.33	19.23
	12RB-Middle (6)	1907.5 (19175)	21.30	20.23	19.21
		1880 (18900)	21.22	20.27	19.12
		1852.5 (18625)	21.23	20.27	19.31
	12RB-Low (0)	1907.5 (19175)	21.32	20.31	19.34
		1880 (18900)	21.33	20.13	19.14
		1852.5 (18625)	21.26	20.24	19.27
	25RB (0)	1907.5 (19175)	21.14	20.09	19.11
		1880 (18900)	21.26	20.29	19.18
		1852.5 (18625)	21.35	20.34	19.19
10MHz	1RB-High (49)	1905 (19150)	22.34	21.39	20.33
		1880 (18900)	22.16	21.32	20.27
		1855 (18650)	22.26	21.34	20.37
	1RB-Middle (24)	1905 (19150)	22.18	21.39	20.23
		1880 (18900)	22.21	21.41	20.28
		1855 (18650)	22.40	21.36	20.30
	1RB-Low (0)	1905 (19150)	22.34	21.38	20.38
		1880 (18900)	22.27	21.26	20.36
		1855 (18650)	22.37	21.45	20.33
	25RB-High (25)	1905 (19150)	21.16	20.18	19.21
		1880 (18900)	21.23	20.26	19.21
		1855 (18650)	21.34	20.29	19.35
	25RB-Middle (12)	1905 (19150)	21.25	20.23	19.14
		1880 (18900)	21.13	20.30	19.08
		1855 (18650)	21.21	20.34	19.17
	25RB-Low (0)	1905 (19150)	21.31	20.34	19.18
		1880 (18900)	21.31	20.16	19.29
		1855 (18650)	21.37	20.26	19.36
	50RB (0)	1905 (19150)	21.24	20.10	19.10
		1880 (18900)	21.30	20.16	19.28
		1855 (18650)	21.26	20.43	19.32

15MHz	1RB-High (74)	1902.5 (19125)	22.18	21.41	20.35
		1880 (18900)	22.31	21.26	20.33
		1857.5 (18675)	22.26	21.41	20.26
	1RB-Middle (37)	1902.5 (19125)	22.18	21.37	20.34
		1880 (18900)	22.41	21.48	20.32
		1857.5 (18675)	22.32	21.42	20.32
	1RB-Low (0)	1902.5 (19125)	22.15	21.38	20.32
		1880 (18900)	22.20	21.42	20.30
		1857.5 (18675)	22.25	21.38	20.39
	36RB-High (38)	1902.5 (19125)	21.25	20.08	19.23
		1880 (18900)	21.30	20.36	19.20
		1857.5 (18675)	21.21	20.26	19.37
	36RB-Middle (19)	1902.5 (19125)	21.24	20.13	19.21
		1880 (18900)	21.26	20.20	19.21
		1857.5 (18675)	21.38	20.24	19.14
	36RB-Low (0)	1902.5 (19125)	21.23	20.32	19.21
		1880 (18900)	21.23	20.29	19.15
		1857.5 (18675)	21.38	20.42	19.35
	75RB (0)	1902.5 (19125)	21.29	20.16	19.13
		1880 (18900)	21.30	20.26	19.13
		1857.5 (18675)	21.38	20.27	19.28
20MHz	1RB-High (99)	1900 (19100)	22.30	21.41	20.35
		1880 (18900)	22.26	21.38	20.31
		1860 (18700)	22.35	21.42	20.41
	1RB-Middle (50)	1900 (19100)	22.30	21.39	20.36
		1880 (18900)	22.36	21.44	20.40
		1860 (18700)	22.37	21.47	20.43
	1RB-Low (0)	1900 (19100)	22.29	21.33	20.35
		1880 (18900)	22.35	21.41	20.41
		1860 (18700)	22.38	21.45	20.44
	50RB-High (50)	1900 (19100)	21.20	20.22	19.18
		1880 (18900)	21.32	20.31	19.28
		1860 (18700)	21.36	20.37	19.33
	50RB-Middle (25)	1900 (19100)	21.25	20.24	19.20
		1880 (18900)	21.27	20.26	19.22
		1860 (18700)	21.33	20.33	19.28
	50RB-Low (0)	1900 (19100)	21.33	20.31	19.29
		1880 (18900)	21.28	20.25	19.25
		1860 (18700)	21.40	20.39	19.36
	100RB (0)	1900 (19100)	21.25	20.23	19.20
		1880 (18900)	21.28	20.26	19.23
		1860 (18700)	21.37	20.38	19.34

LTE B2 ANT3-Power level B1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	18.57	18.49	18.59
		1880 (18900)	18.56	18.54	18.45
		1850.7 (18607)	18.47	18.55	18.56
	1RB-Middle (3)	1909.3 (19193)	18.52	18.68	18.54
		1880 (18900)	18.53	18.47	18.62
		1850.7 (18607)	18.66	18.66	18.54
	1RB-Low (0)	1909.3 (19193)	18.53	18.64	18.51
		1880 (18900)	18.60	18.50	18.42
		1850.7 (18607)	18.57	18.49	18.47
	3RB-High (3)	1909.3 (19193)	18.52	18.34	18.34
		1880 (18900)	18.57	18.62	18.52
		1850.7 (18607)	18.52	18.48	18.61
	3RB-Middle (1)	1909.3 (19193)	18.46	18.55	18.47
		1880 (18900)	18.50	18.51	18.47
		1850.7 (18607)	18.63	18.58	18.46
	3RB-Low (0)	1909.3 (19193)	18.56	18.52	18.50
		1880 (18900)	18.58	18.56	18.48
		1850.7 (18607)	18.58	18.62	18.52
	6RB (0)	1909.3 (19193)	18.40	18.44	18.46
		1880 (18900)	18.44	18.50	18.55
		1850.7 (18607)	18.47	18.39	18.45
3MHz	1RB-High (14)	1908.5 (19185)	18.53	18.51	18.53
		1880 (18900)	18.51	18.44	18.52
		1851.5 (18615)	18.61	18.57	18.49
	1RB-Middle (7)	1908.5 (19185)	18.63	18.70	18.52
		1880 (18900)	18.54	18.54	18.48
		1851.5 (18615)	18.59	18.65	18.44
	1RB-Low (0)	1908.5 (19185)	18.52	18.59	18.54
		1880 (18900)	18.64	18.48	18.41
		1851.5 (18615)	18.57	18.47	18.59
	8RB-High (7)	1908.5 (19185)	18.51	18.43	18.36
		1880 (18900)	18.42	18.52	18.47
		1851.5 (18615)	18.59	18.43	18.51
	8RB-Middle (4)	1908.5 (19185)	18.42	18.65	18.32
		1880 (18900)	18.58	18.41	18.45
		1851.5 (18615)	18.45	18.41	18.44
	8RB-Low (0)	1908.5 (19185)	18.44	18.46	18.44
		1880 (18900)	18.53	18.50	18.37
		1851.5 (18615)	18.55	18.61	18.46
	15RB (0)	1908.5 (19185)	18.56	18.55	18.52
		1880 (18900)	18.47	18.60	18.51
		1851.5 (18615)	18.53	18.49	18.61

5MHz	1RB-High (24)	1907.5 (19175)	18.53	18.56	18.44
		1880 (18900)	18.58	18.37	18.52
		1852.5 (18625)	18.51	18.57	18.55
	1RB-Middle (12)	1907.5 (19175)	18.47	18.60	18.48
		1880 (18900)	18.68	18.61	18.49
		1852.5 (18625)	18.57	18.48	18.51
	1RB-Low (0)	1907.5 (19175)	18.49	18.67	18.45
		1880 (18900)	18.51	18.55	18.51
		1852.5 (18625)	18.61	18.50	18.55
	12RB-High (13)	1907.5 (19175)	18.47	18.27	18.31
		1880 (18900)	18.47	18.59	18.40
		1852.5 (18625)	18.54	18.45	18.53
	12RB-Middle (6)	1907.5 (19175)	18.50	18.61	18.40
		1880 (18900)	18.39	18.40	18.48
		1852.5 (18625)	18.44	18.58	18.46
	12RB-Low (0)	1907.5 (19175)	18.50	18.44	18.57
		1880 (18900)	18.57	18.56	18.47
		1852.5 (18625)	18.68	18.63	18.61
	25RB (0)	1907.5 (19175)	18.43	18.54	18.45
		1880 (18900)	18.59	18.47	18.47
		1852.5 (18625)	18.56	18.47	18.51
10MHz	1RB-High (49)	1905 (19150)	18.47	18.46	18.53
		1880 (18900)	18.40	18.38	18.41
		1855 (18650)	18.49	18.61	18.41
	1RB-Middle (24)	1905 (19150)	18.62	18.65	18.55
		1880 (18900)	18.52	18.61	18.63
		1855 (18650)	18.65	18.53	18.56
	1RB-Low (0)	1905 (19150)	18.58	18.60	18.46
		1880 (18900)	18.51	18.61	18.53
		1855 (18650)	18.59	18.48	18.47
	25RB-High (25)	1905 (19150)	18.37	18.40	18.31
		1880 (18900)	18.59	18.59	18.50
		1855 (18650)	18.54	18.43	18.50
	25RB-Middle (12)	1905 (19150)	18.36	18.55	18.39
		1880 (18900)	18.49	18.45	18.41
		1855 (18650)	18.46	18.55	18.58
	25RB-Low (0)	1905 (19150)	18.50	18.49	18.51
		1880 (18900)	18.56	18.55	18.43
		1855 (18650)	18.61	18.51	18.58
	50RB (0)	1905 (19150)	18.39	18.43	18.34
		1880 (18900)	18.40	18.59	18.38
		1855 (18650)	18.61	18.54	18.59

15MHz	1RB-High (74)	1902.5 (19125)	18.53	18.38	18.57
		1880 (18900)	18.43	18.50	18.51
		1857.5 (18675)	18.51	18.66	18.61
	1RB-Middle (37)	1902.5 (19125)	18.55	18.71	18.45
		1880 (18900)	18.63	18.51	18.49
		1857.5 (18675)	18.68	18.51	18.64
	1RB-Low (0)	1902.5 (19125)	18.41	18.51	18.54
		1880 (18900)	18.59	18.60	18.45
		1857.5 (18675)	18.60	18.47	18.60
	36RB-High (38)	1902.5 (19125)	18.48	18.34	18.40
		1880 (18900)	18.57	18.54	18.50
		1857.5 (18675)	18.64	18.46	18.43
	36RB-Middle (19)	1902.5 (19125)	18.44	18.65	18.35
		1880 (18900)	18.54	18.53	18.38
		1857.5 (18675)	18.48	18.46	18.53
	36RB-Low (0)	1902.5 (19125)	18.50	18.53	18.48
		1880 (18900)	18.41	18.54	18.39
		1857.5 (18675)	18.51	18.52	18.53
	75RB (0)	1902.5 (19125)	18.44	18.57	18.46
		1880 (18900)	18.44	18.42	18.39
		1857.5 (18675)	18.47	18.53	18.58
20MHz	1RB-High (99)	1900 (19100)	18.57	18.48	18.54
		1880 (18900)	18.48	18.44	18.45
		1860 (18700)	18.55	18.56	18.51
	1RB-Middle (50)	1900 (19100)	18.57	18.63	18.54
		1880 (18900)	18.58	18.55	18.57
		1860 (18700)	18.60	18.58	18.54
	1RB-Low (0)	1900 (19100)	18.50	18.58	18.47
		1880 (18900)	18.54	18.51	18.50
		1860 (18700)	18.57	18.53	18.54
	50RB-High (50)	1900 (19100)	18.42	18.35	18.39
		1880 (18900)	18.52	18.61	18.49
		1860 (18700)	18.56	18.47	18.52
	50RB-Middle (25)	1900 (19100)	18.46	18.55	18.42
		1880 (18900)	18.48	18.46	18.45
		1860 (18700)	18.54	18.49	18.50
	50RB-Low (0)	1900 (19100)	18.54	18.51	18.50
		1880 (18900)	18.49	18.48	18.46
		1860 (18700)	18.59	18.54	18.56
	100RB (0)	1900 (19100)	18.46	18.50	18.42
		1880 (18900)	18.49	18.50	18.46
		1860 (18700)	18.57	18.48	18.54

LTE B2 ANT3-Power level C1/D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	13.88	13.86	13.77
		1880 (18900)	13.70	13.80	13.69
		1850.7 (18607)	13.74	13.87	13.82
	1RB-Middle (3)	1909.3 (19193)	13.83	13.83	13.79
		1880 (18900)	13.78	13.98	13.72
		1850.7 (18607)	13.96	13.87	13.69
	1RB-Low (0)	1909.3 (19193)	13.75	13.76	13.66
		1880 (18900)	13.74	13.81	13.69
		1850.7 (18607)	13.75	13.91	13.82
	3RB-High (3)	1909.3 (19193)	13.71	13.67	13.71
		1880 (18900)	13.77	13.90	13.71
		1850.7 (18607)	13.98	13.97	13.77
	3RB-Middle (1)	1909.3 (19193)	13.78	13.74	13.83
		1880 (18900)	13.77	13.73	13.85
		1850.7 (18607)	13.84	13.93	13.75
	3RB-Low (0)	1909.3 (19193)	13.81	13.95	13.84
		1880 (18900)	13.91	13.79	13.83
		1850.7 (18607)	13.98	13.89	13.94
	6RB (0)	1909.3 (19193)	13.83	13.89	13.66
		1880 (18900)	13.80	13.79	13.88
		1850.7 (18607)	13.82	13.93	13.83
3MHz	1RB-High (14)	1908.5 (19185)	13.73	13.90	13.67
		1880 (18900)	13.84	13.81	13.64
		1851.5 (18615)	13.78	13.83	13.68
	1RB-Middle (7)	1908.5 (19185)	13.90	13.86	13.73
		1880 (18900)	13.77	13.93	13.81
		1851.5 (18615)	13.90	13.93	13.76
	1RB-Low (0)	1908.5 (19185)	13.75	13.71	13.67
		1880 (18900)	13.74	13.79	13.69
		1851.5 (18615)	13.83	13.88	13.70
	8RB-High (7)	1908.5 (19185)	13.82	13.68	13.71
		1880 (18900)	13.85	13.86	13.87
		1851.5 (18615)	13.95	13.84	13.86
	8RB-Middle (4)	1908.5 (19185)	13.71	13.74	13.82
		1880 (18900)	13.81	13.85	13.78
		1851.5 (18615)	13.90	13.78	13.77
	8RB-Low (0)	1908.5 (19185)	13.95	13.75	13.85
		1880 (18900)	13.90	13.82	13.88
		1851.5 (18615)	13.93	13.95	13.96
	15RB (0)	1908.5 (19185)	13.87	13.71	13.73
		1880 (18900)	13.77	13.91	13.87
		1851.5 (18615)	13.93	13.79	13.90

5MHz	1RB-High (24)	1907.5 (19175)	13.88	13.89	13.68
		1880 (18900)	13.73	13.88	13.65
		1852.5 (18625)	13.74	13.86	13.74
	1RB-Middle (12)	1907.5 (19175)	13.73	13.83	13.84
		1880 (18900)	13.91	13.84	13.77
		1852.5 (18625)	13.92	13.87	13.81
	1RB-Low (0)	1907.5 (19175)	13.71	13.91	13.80
		1880 (18900)	13.78	13.89	13.67
		1852.5 (18625)	13.79	13.89	13.66
	12RB-High (13)	1907.5 (19175)	13.71	13.80	13.66
		1880 (18900)	13.93	13.94	13.86
		1852.5 (18625)	13.96	13.96	13.73
	12RB-Middle (6)	1907.5 (19175)	13.85	13.87	13.75
		1880 (18900)	13.92	13.86	13.72
		1852.5 (18625)	13.87	13.77	13.74
	12RB-Low (0)	1907.5 (19175)	13.85	13.84	13.84
		1880 (18900)	13.75	13.78	13.78
		1852.5 (18625)	14.01	13.83	13.82
	25RB (0)	1907.5 (19175)	13.71	13.70	13.71
		1880 (18900)	13.80	13.91	13.72
		1852.5 (18625)	13.85	13.93	13.91
10MHz	1RB-High (49)	1905 (19150)	13.85	13.83	13.80
		1880 (18900)	13.73	13.84	13.76
		1855 (18650)	13.74	13.80	13.70
	1RB-Middle (24)	1905 (19150)	13.89	13.83	13.74
		1880 (18900)	13.91	13.95	13.88
		1855 (18650)	13.84	13.84	13.70
	1RB-Low (0)	1905 (19150)	13.88	13.76	13.70
		1880 (18900)	13.89	13.78	13.65
		1855 (18650)	13.75	13.82	13.69
	25RB-High (25)	1905 (19150)	13.76	13.87	13.68
		1880 (18900)	13.82	13.91	13.84
		1855 (18650)	13.96	13.93	13.77
	25RB-Middle (12)	1905 (19150)	13.79	13.76	13.66
		1880 (18900)	13.80	13.73	13.71
		1855 (18650)	13.79	13.82	13.80
	25RB-Low (0)	1905 (19150)	13.89	13.81	13.83
		1880 (18900)	13.91	13.78	13.83
		1855 (18650)	13.82	13.96	13.94
	50RB (0)	1905 (19150)	13.74	13.90	13.80
		1880 (18900)	13.92	13.93	13.76
		1855 (18650)	13.90	13.87	13.84

15MHz	1RB-High (74)	1902.5 (19125)	13.82	13.94	13.71
		1880 (18900)	13.83	13.82	13.76
		1857.5 (18675)	13.90	13.90	13.68
	1RB-Middle (37)	1902.5 (19125)	13.81	13.95	13.83
		1880 (18900)	13.78	13.82	13.79
		1857.5 (18675)	13.96	13.84	13.80
	1RB-Low (0)	1902.5 (19125)	13.86	13.71	13.71
		1880 (18900)	13.88	13.89	13.63
		1857.5 (18675)	13.91	13.88	13.85
	36RB-High (38)	1902.5 (19125)	13.80	13.83	13.84
		1880 (18900)	13.83	13.89	13.76
		1857.5 (18675)	13.80	13.91	13.92
	36RB-Middle (19)	1902.5 (19125)	13.82	13.73	13.68
		1880 (18900)	13.77	13.83	13.80
		1857.5 (18675)	13.84	13.91	13.88
	36RB-Low (0)	1902.5 (19125)	13.80	13.75	13.81
		1880 (18900)	13.79	13.91	13.69
		1857.5 (18675)	13.86	13.98	13.82
	75RB (0)	1902.5 (19125)	13.76	13.73	13.72
		1880 (18900)	13.84	13.81	13.84
		1857.5 (18675)	13.98	13.91	13.83
20MHz	1RB-High (99)	1900 (19100)	13.82	13.85	13.75
		1880 (18900)	13.76	13.79	13.69
		1860 (18700)	13.81	13.84	13.74
	1RB-Middle (50)	1900 (19100)	13.82	13.85	13.75
		1880 (18900)	13.85	13.88	13.78
		1860 (18700)	13.86	13.86	13.76
	1RB-Low (0)	1900 (19100)	13.78	13.81	13.71
		1880 (18900)	13.80	13.83	13.73
		1860 (18700)	13.83	13.86	13.76
	50RB-High (50)	1900 (19100)	13.79	13.77	13.74
		1880 (18900)	13.86	13.84	13.81
		1860 (18700)	13.89	13.87	13.83
	50RB-Middle (25)	1900 (19100)	13.81	13.80	13.76
		1880 (18900)	13.83	13.82	13.78
		1860 (18700)	13.87	13.85	13.82
	50RB-Low (0)	1900 (19100)	13.87	13.85	13.82
		1880 (18900)	13.84	13.83	13.79
		1860 (18700)	13.91	13.90	13.86
	100RB (0)	1900 (19100)	13.81	13.80	13.76
		1880 (18900)	13.84	13.83	13.79
		1860 (18700)	13.89	13.88	13.84

LTE B2 ANT3-Power level E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1909.3 (19193)	20.45	20.55	20.38
		1880 (18900)	20.38	20.35	20.26
		1850.7 (18607)	20.44	20.33	20.37
	1RB-Middle (3)	1909.3 (19193)	20.39	20.34	20.22
		1880 (18900)	20.52	20.50	20.28
		1850.7 (18607)	20.40	20.49	20.55
	1RB-Low (0)	1909.3 (19193)	20.29	20.49	20.27
		1880 (18900)	20.37	20.51	20.38
		1850.7 (18607)	20.56	20.40	20.45
	3RB-High (3)	1909.3 (19193)	20.18	19.21	19.35
		1880 (18900)	20.43	19.35	19.29
		1850.7 (18607)	20.32	19.49	19.33
	3RB-Middle (1)	1909.3 (19193)	20.25	19.27	19.40
		1880 (18900)	20.18	19.32	19.16
		1850.7 (18607)	20.26	19.41	19.39
	3RB-Low (0)	1909.3 (19193)	20.40	19.33	19.28
		1880 (18900)	20.39	19.11	19.44
		1850.7 (18607)	20.36	19.21	19.46
	6RB (0)	1909.3 (19193)	20.35	19.09	19.36
		1880 (18900)	20.41	19.26	19.25
		1850.7 (18607)	20.42	19.49	19.34
3MHz	1RB-High (14)	1908.5 (19185)	20.22	20.40	20.46
		1880 (18900)	20.22	20.20	20.30
		1851.5 (18615)	20.33	20.34	20.30
	1RB-Middle (7)	1908.5 (19185)	20.45	20.35	20.20
		1880 (18900)	20.44	20.43	20.49
		1851.5 (18615)	20.31	20.33	20.53
	1RB-Low (0)	1908.5 (19185)	20.50	20.31	20.43
		1880 (18900)	20.26	20.52	20.43
		1851.5 (18615)	20.41	20.44	20.62
	8RB-High (7)	1908.5 (19185)	20.28	19.26	19.36
		1880 (18900)	20.28	19.20	19.36
		1851.5 (18615)	20.39	19.47	19.41
	8RB-Middle (4)	1908.5 (19185)	20.19	19.28	19.18
		1880 (18900)	20.29	19.15	19.30
		1851.5 (18615)	20.25	19.38	19.36
	8RB-Low (0)	1908.5 (19185)	20.34	19.33	19.47
		1880 (18900)	20.41	19.23	19.30
		1851.5 (18615)	20.29	19.21	19.56
	15RB (0)	1908.5 (19185)	20.33	19.09	19.29
		1880 (18900)	20.21	19.30	19.35
		1851.5 (18615)	20.31	19.41	19.45

5MHz	1RB-High (24)	1907.5 (19175)	20.38	20.33	20.24
		1880 (18900)	20.39	20.24	20.39
		1852.5 (18625)	20.34	20.41	20.40
	1RB-Middle (12)	1907.5 (19175)	20.45	20.36	20.31
		1880 (18900)	20.43	20.53	20.33
		1852.5 (18625)	20.51	20.30	20.41
	1RB-Low (0)	1907.5 (19175)	20.46	20.33	20.35
		1880 (18900)	20.32	20.34	20.40
		1852.5 (18625)	20.44	20.60	20.55
	12RB-High (13)	1907.5 (19175)	20.05	19.21	19.33
		1880 (18900)	20.25	19.37	19.50
		1852.5 (18625)	20.38	19.25	19.34
	12RB-Middle (6)	1907.5 (19175)	20.34	19.17	19.32
		1880 (18900)	20.34	19.25	19.27
		1852.5 (18625)	20.32	19.36	19.26
	12RB-Low (0)	1907.5 (19175)	20.42	19.37	19.42
		1880 (18900)	20.48	19.21	19.31
		1852.5 (18625)	20.37	19.32	19.39
	25RB (0)	1907.5 (19175)	20.26	19.11	19.32
		1880 (18900)	20.34	19.16	19.42
		1852.5 (18625)	20.29	19.39	19.48
10MHz	1RB-High (49)	1905 (19150)	20.29	20.46	20.42
		1880 (18900)	20.34	20.16	20.34
		1855 (18650)	20.42	20.33	20.38
	1RB-Middle (24)	1905 (19150)	20.47	20.31	20.36
		1880 (18900)	20.32	20.54	20.48
		1855 (18650)	20.43	20.45	20.50
	1RB-Low (0)	1905 (19150)	20.43	20.28	20.43
		1880 (18900)	20.22	20.47	20.48
		1855 (18650)	20.42	20.36	20.54
	25RB-High (25)	1905 (19150)	20.28	19.08	19.38
		1880 (18900)	20.32	19.36	19.49
		1855 (18650)	20.29	19.27	19.45
	25RB-Middle (12)	1905 (19150)	20.24	19.10	19.15
		1880 (18900)	20.39	19.26	19.38
		1855 (18650)	20.21	19.27	19.31
	25RB-Low (0)	1905 (19150)	20.41	19.29	19.48
		1880 (18900)	20.52	19.29	19.21
		1855 (18650)	20.32	19.43	19.35
	50RB (0)	1905 (19150)	20.42	19.21	19.18
		1880 (18900)	20.37	19.30	19.44
		1855 (18650)	20.29	19.34	19.51

15MHz	1RB-High (74)	1902.5 (19125)	20.24	20.48	20.44
		1880 (18900)	20.22	20.24	20.20
		1857.5 (18675)	20.39	20.32	20.42
	1RB-Middle (37)	1902.5 (19125)	20.40	20.24	20.19
		1880 (18900)	20.41	20.56	20.42
		1857.5 (18675)	20.38	20.30	20.51
	1RB-Low (0)	1902.5 (19125)	20.29	20.36	20.38
		1880 (18900)	20.41	20.43	20.53
		1857.5 (18675)	20.37	20.53	20.49
	36RB-High (38)	1902.5 (19125)	20.05	19.27	19.35
		1880 (18900)	20.25	19.15	19.49
		1857.5 (18675)	20.41	19.35	19.54
	36RB-Middle (19)	1902.5 (19125)	20.35	19.30	19.27
		1880 (18900)	20.28	19.13	19.27
		1857.5 (18675)	20.27	19.22	19.40
	36RB-Low (0)	1902.5 (19125)	20.25	19.35	19.38
		1880 (18900)	20.38	19.17	19.26
		1857.5 (18675)	20.31	19.25	19.48
	75RB (0)	1902.5 (19125)	20.36	19.18	19.38
		1880 (18900)	20.26	19.26	19.22
		1857.5 (18675)	20.43	19.35	19.52
20MHz	1RB-High (99)	1900 (19100)	20.35	20.48	20.38
		1880 (18900)	20.32	20.31	20.33
		1860 (18700)	20.34	20.42	20.42
	1RB-Middle (50)	1900 (19100)	20.40	20.38	20.34
		1880 (18900)	20.47	20.53	20.40
		1860 (18700)	20.44	20.41	20.46
	1RB-Low (0)	1900 (19100)	20.44	20.40	20.35
		1880 (18900)	20.31	20.46	20.49
		1860 (18700)	20.46	20.50	20.54
	50RB-High (50)	1900 (19100)	20.19	19.23	19.33
		1880 (18900)	20.35	19.30	19.42
		1860 (18700)	20.39	19.40	19.48
	50RB-Middle (25)	1900 (19100)	20.25	19.23	19.30
		1880 (18900)	20.29	19.25	19.31
		1860 (18700)	20.36	19.35	19.34
	50RB-Low (0)	1900 (19100)	20.34	19.31	19.42
		1880 (18900)	20.44	19.22	19.35
		1860 (18700)	20.41	19.36	19.46
	100RB (0)	1900 (19100)	20.32	19.24	19.31
		1880 (18900)	20.36	19.29	19.35
		1860 (18700)	20.41	19.41	19.42

LTE B7-Power level A1/C1/D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2567.5 (21425)	23.27	22.44	21.37
		2535 (21100)	23.13	22.49	21.38
		2502.5 (20775)	22.92	22.17	21.00
	1RB-Middle (12)	2567.5 (21425)	23.29	22.36	21.36
		2535 (21100)	23.11	22.39	21.35
		2502.5 (20775)	22.85	22.00	20.95
	1RB-Low (0)	2567.5 (21425)	23.31	22.47	21.43
		2535 (21100)	23.16	22.36	21.34
		2502.5 (20775)	22.86	21.98	21.05
	12RB-High (13)	2567.5 (21425)	22.23	21.22	20.24
		2535 (21100)	22.14	21.08	20.13
		2502.5 (20775)	21.80	20.80	19.81
	12RB-Middle (6)	2567.5 (21425)	22.21	21.17	20.25
		2535 (21100)	22.12	21.06	20.10
		2502.5 (20775)	21.83	20.79	19.79
	12RB-Low (0)	2567.5 (21425)	22.20	21.19	20.26
		2535 (21100)	22.07	21.11	20.10
		2502.5 (20775)	21.83	20.83	19.86
	25RB (0)	2567.5 (21425)	22.23	21.22	20.23
		2535 (21100)	22.11	21.12	20.13
		2502.5 (20775)	21.86	20.83	19.85
10MHz	1RB-High (49)	2565 (21400)	23.33	22.40	21.35
		2535 (21100)	23.23	22.46	21.27
		2505 (20800)	22.99	22.21	21.06
	1RB-Middle (24)	2565 (21400)	23.31	22.41	21.31
		2535 (21100)	23.12	22.38	21.24
		2505 (20800)	22.84	22.13	21.02
	1RB-Low (0)	2565 (21400)	23.37	22.60	21.45
		2535 (21100)	23.21	22.27	21.27
		2505 (20800)	22.84	22.13	21.00
	25RB-High (25)	2565 (21400)	22.37	21.32	20.33
		2535 (21100)	22.20	21.17	20.13
		2505 (20800)	21.90	20.87	19.92
	25RB-Middle (12)	2565 (21400)	22.25	21.28	20.21
		2535 (21100)	22.17	21.10	20.12
		2505 (20800)	21.87	20.86	19.82
	25RB-Low (0)	2565 (21400)	22.26	21.26	20.25
		2535 (21100)	22.15	21.15	20.15
		2505 (20800)	21.88	20.90	19.88
	50RB (0)	2565 (21400)	22.35	21.35	20.28
		2535 (21100)	22.18	21.17	20.15
		2505 (20800)	21.92	20.94	19.90

15MHz	1RB-High (74)	2562.5 (21375)	23.24	22.46	21.29
		2535 (21100)	23.22	22.45	21.37
		2507.5 (20825)	23.01	22.28	21.07
	1RB-Middle (37)	2562.5 (21375)	23.36	22.57	21.49
		2535 (21100)	23.22	22.40	21.34
		2507.5 (20825)	22.95	22.27	21.04
	1RB-Low (0)	2562.5 (21375)	23.25	22.56	21.34
		2535 (21100)	23.15	22.47	21.27
		2507.5 (20825)	22.84	22.08	20.97
	36RB-High (38)	2562.5 (21375)	22.37	21.36	20.35
		2535 (21100)	22.19	21.15	20.18
		2507.5 (20825)	21.97	20.98	19.99
	36RB-Middle (19)	2562.5 (21375)	22.34	21.35	20.34
		2535 (21100)	22.23	21.18	20.13
		2507.5 (20825)	21.93	20.90	19.87
	36RB-Low (0)	2562.5 (21375)	22.30	21.35	20.26
		2535 (21100)	22.19	21.18	20.15
		2507.5 (20825)	21.91	20.87	19.87
	75RB (0)	2562.5 (21375)	22.39	21.38	20.32
		2535 (21100)	22.22	21.24	20.15
		2507.5 (20825)	21.92	20.93	19.89
20MHz	1RB-High (99)	2560 (21350)	24.20	23.25	22.21
		2535 (21100)	23.98	23.14	22.07
		2510 (20850)	23.62	22.78	21.70
	1RB-Middle (50)	2560 (21350)	24.24	23.40	22.28
		2535 (21100)	24.01	23.24	22.07
		2510 (20850)	23.59	22.80	21.62
	1RB-Low (0)	2560 (21350)	24.13	23.29	22.12
		2535 (21100)	23.77	23.01	21.79
		2510 (20850)	23.37	22.60	21.40
	50RB-High (50)	2560 (21350)	23.42	22.36	21.31
		2535 (21100)	23.23	21.98	20.88
		2510 (20850)	22.71	21.60	20.56
	50RB-Middle (25)	2560 (21350)	23.23	22.18	21.15
		2535 (21100)	22.96	21.92	20.88
		2510 (20850)	22.58	21.49	20.50
	50RB-Low (0)	2560 (21350)	23.28	22.22	21.16
		2535 (21100)	22.91	21.89	20.80
		2510 (20850)	22.52	21.42	20.42
	100RB (0)	2560 (21350)	23.32	22.21	21.22
		2535 (21100)	22.96	21.89	20.81
		2510 (20850)	22.60	21.49	20.48

LTE B7-Power level B1/E1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2567.5 (21425)	20.23	20.00	18.65
		2535 (21100)	20.15	19.89	18.42
		2502.5 (20775)	20.11	19.29	18.16
	1RB-Middle (12)	2567.5 (21425)	20.44	19.76	18.77
		2535 (21100)	20.65	19.50	18.48
		2502.5 (20775)	20.43	19.66	18.24
	1RB-Low (0)	2567.5 (21425)	20.59	19.82	18.62
		2535 (21100)	20.25	19.72	18.29
		2502.5 (20775)	20.21	19.23	18.36
	12RB-High (13)	2567.5 (21425)	19.61	18.54	17.89
		2535 (21100)	19.52	18.21	17.25
		2502.5 (20775)	19.67	18.34	17.19
	12RB-Middle (6)	2567.5 (21425)	19.29	18.46	17.79
		2535 (21100)	19.43	18.49	17.68
		2502.5 (20775)	19.06	18.19	17.17
	12RB-Low (0)	2567.5 (21425)	19.42	18.58	17.58
		2535 (21100)	19.11	18.07	17.62
		2502.5 (20775)	19.39	18.25	17.25
	25RB (0)	2567.5 (21425)	19.51	18.78	17.54
		2535 (21100)	19.26	18.34	17.26
		2502.5 (20775)	19.33	17.98	17.54
10MHz	1RB-High (49)	2565 (21400)	20.57	19.68	18.66
		2535 (21100)	20.40	19.83	18.35
		2505 (20800)	20.24	19.54	18.18
	1RB-Middle (24)	2565 (21400)	20.39	19.85	18.72
		2535 (21100)	20.26	19.39	18.40
		2505 (20800)	20.28	19.51	18.47
	1RB-Low (0)	2565 (21400)	20.47	19.88	18.37
		2535 (21100)	20.32	19.83	18.34
		2505 (20800)	20.07	19.49	18.11
	25RB-High (25)	2565 (21400)	19.56	18.52	17.94
		2535 (21100)	19.73	18.19	17.55
		2505 (20800)	19.63	17.98	17.32
	25RB-Middle (12)	2565 (21400)	19.60	18.78	17.72
		2535 (21100)	19.36	18.65	17.62
		2505 (20800)	19.14	18.02	17.34
	25RB-Low (0)	2565 (21400)	19.46	18.55	17.74
		2535 (21100)	19.50	18.16	17.58
		2505 (20800)	19.32	18.32	17.28
	50RB (0)	2565 (21400)	19.67	18.80	17.56
		2535 (21100)	19.35	18.23	17.46
		2505 (20800)	19.24	17.94	17.33

15MHz	1RB-High (74)	2562.5 (21375)	20.27	19.66	18.62
		2535 (21100)	20.27	19.73	18.51
		2507.5 (20825)	20.23	19.33	18.22
	1RB-Middle (37)	2562.5 (21375)	20.55	19.75	18.89
		2535 (21100)	20.47	19.51	18.52
		2507.5 (20825)	20.43	19.32	18.58
	1RB-Low (0)	2562.5 (21375)	20.60	19.52	18.76
		2535 (21100)	20.12	19.79	18.28
		2507.5 (20825)	20.14	19.29	18.46
	36RB-High (38)	2562.5 (21375)	19.48	18.62	17.83
		2535 (21100)	19.49	18.15	17.31
		2507.5 (20825)	19.66	18.36	17.24
	36RB-Middle (19)	2562.5 (21375)	19.35	18.78	17.73
		2535 (21100)	19.33	18.45	17.38
		2507.5 (20825)	19.42	18.13	17.50
	36RB-Low (0)	2562.5 (21375)	19.64	18.77	17.88
		2535 (21100)	19.39	18.38	17.39
		2507.5 (20825)	19.45	18.40	17.25
	75RB (0)	2562.5 (21375)	19.57	18.78	17.63
		2535 (21100)	19.36	18.48	17.27
		2507.5 (20825)	19.13	18.19	17.25
20MHz	1RB-High (99)	2560 (21350)	20.43	19.84	18.70
		2535 (21100)	20.29	19.70	18.44
		2510 (20850)	20.22	19.37	18.24
	1RB-Middle (50)	2560 (21350)	20.51	19.80	18.71
		2535 (21100)	20.45	19.59	18.55
		2510 (20850)	20.40	19.51	18.42
	1RB-Low (0)	2560 (21350)	20.40	19.72	18.57
		2535 (21100)	20.26	19.67	18.37
		2510 (20850)	20.15	19.31	18.26
	50RB-High (50)	2560 (21350)	19.68	18.61	17.79
		2535 (21100)	19.55	18.34	17.45
		2510 (20850)	19.50	18.18	17.28
	50RB-Middle (25)	2560 (21350)	19.48	18.59	17.71
		2535 (21100)	19.46	18.47	17.50
		2510 (20850)	19.22	18.21	17.36
	50RB-Low (0)	2560 (21350)	19.61	18.62	17.71
		2535 (21100)	19.31	18.24	17.44
		2510 (20850)	19.26	18.20	17.39
	100RB (0)	2560 (21350)	19.59	18.60	17.69
		2535 (21100)	19.27	18.31	17.44
		2510 (20850)	19.21	18.14	17.35

LTE B12-Power level A1/B1/C1/D1/E1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**16QAM**
1.4MHz	1RB-High (5)	715.3 (23173)	22.88	22.09	20.95
		707.5 (23095)	22.91	22.15	21.02
		699.7 (23017)	23.01	22.18	21.09
	1RB-Middle (3)	715.3 (23173)	22.90	22.13	21.02
		707.5 (23095)	22.94	22.14	21.02
		699.7 (23017)	22.98	22.21	21.08
	1RB-Low (0)	715.3 (23173)	22.85	21.99	20.96
		707.5 (23095)	22.99	22.24	21.11
		699.7 (23017)	23.03	22.29	21.18
	3RB-High (3)	715.3 (23173)	22.95	21.91	20.97
		707.5 (23095)	22.92	21.90	21.00
		699.7 (23017)	23.06	22.00	21.07
	3RB-Middle (1)	715.3 (23173)	22.88	21.84	20.96
		707.5 (23095)	22.89	21.91	21.01
		699.7 (23017)	23.01	21.98	21.12
	3RB-Low (0)	715.3 (23173)	22.89	21.89	20.96
		707.5 (23095)	22.94	21.94	20.98
		699.7 (23017)	23.04	22.06	21.06
	6RB (0)	715.3 (23173)	21.86	21.01	19.95
		707.5 (23095)	21.92	20.95	19.92
		699.7 (23017)	22.03	21.04	20.01
3MHz	1RB-High (14)	714.5 (23165)	22.93	22.04	21.08
		707.5 (23095)	22.91	22.11	21.10
		700.5 (23025)	23.02	22.15	21.22
	1RB-Middle (7)	714.5 (23165)	22.86	22.10	21.08
		707.5 (23095)	22.97	22.25	21.04
		700.5 (23025)	22.99	22.18	21.16
	1RB-Low (0)	714.5 (23165)	22.87	22.04	21.02
		707.5 (23095)	22.95	22.16	21.03
		700.5 (23025)	23.07	22.26	21.19
	8RB-High (7)	714.5 (23165)	21.86	20.93	20.03
		707.5 (23095)	21.87	20.93	19.97
		700.5 (23025)	22.01	21.07	20.15
	8RB-Middle (4)	714.5 (23165)	21.85	20.91	19.97
		707.5 (23095)	21.93	21.02	20.08
		700.5 (23025)	21.99	21.08	20.12
	8RB-Low (0)	714.5 (23165)	21.89	20.91	19.98
		707.5 (23095)	21.90	21.00	20.01
		700.5 (23025)	21.95	21.01	20.15
	15RB (0)	714.5 (23165)	21.83	20.86	19.89
		707.5 (23095)	21.89	20.93	19.99
		700.5 (23025)	21.97	21.08	20.08

5MHz	1RB-High (24)	713.5 (23155)	22.96	22.18	21.09
		707.5 (23095)	23.01	22.15	21.14
		701.5 (23035)	23.05	22.34	21.29
	1RB-Middle (12)	713.5 (23155)	22.89	22.04	21.08
		707.5 (23095)	22.97	22.23	21.12
		701.5 (23035)	23.11	22.32	21.18
	1RB-Low (0)	713.5 (23155)	23.01	22.12	21.02
		707.5 (23095)	23.05	22.30	21.21
		701.5 (23035)	23.05	22.25	21.24
	12RB-High (13)	713.5 (23155)	21.83	20.79	19.93
		707.5 (23095)	21.87	20.88	19.93
		701.5 (23035)	21.97	20.99	20.09
	12RB-Middle (6)	713.5 (23155)	21.82	20.81	19.92
		707.5 (23095)	21.92	20.94	20.00
		701.5 (23035)	21.98	20.93	20.10
	12RB-Low (0)	713.5 (23155)	21.91	20.83	19.94
		707.5 (23095)	21.97	20.95	20.07
		701.5 (23035)	22.02	21.02	20.05
	25RB (0)	713.5 (23155)	21.88	20.92	19.96
		707.5 (23095)	21.94	21.00	19.95
		701.5 (23035)	21.95	20.99	20.06
10MHz	1RB-High (49)	711 (23130)	23.04	22.17	21.14
		707.5 (23095)	23.03	22.12	21.13
		704 (23060)	23.08	22.20	21.16
	1RB-Middle (24)	711 (23130)	23.09	22.31	21.16
		707.5 (23095)	23.17	22.42	21.23
		704 (23060)	23.12	22.41	21.17
	1RB-Low (0)	711 (23130)	23.11	22.30	21.19
		707.5 (23095)	23.11	22.22	21.22
		704 (23060)	23.23	22.44	21.31
	25RB-High (25)	711 (23130)	21.99	21.02	20.13
		707.5 (23095)	22.05	21.09	20.18
		704 (23060)	22.04	21.03	20.17
	25RB-Middle (12)	711 (23130)	22.03	21.04	20.17
		707.5 (23095)	22.07	21.03	20.19
		704 (23060)	22.09	21.07	20.22
	25RB-Low (0)	711 (23130)	22.08	21.07	20.21
		707.5 (23095)	22.12	21.14	20.25
		704 (23060)	22.18	21.06	20.19
	50RB (0)	711 (23130)	22.05	20.99	20.15
		707.5 (23095)	22.09	21.07	20.19
		704 (23060)	22.07	21.07	20.17

LTE B25-Power level A1/C1/D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1914.3 (26683)	22.73	22.00	20.91
		1882.5 (26365)	22.74	22.04	20.85
		1850.7 (26047)	22.74	21.92	20.95
	1RB-Middle (3)	1914.3 (26683)	22.70	22.03	20.92
		1882.5 (26365)	22.74	22.01	20.91
		1850.7 (26047)	22.76	22.06	20.94
	1RB-Low (0)	1914.3 (26683)	22.74	22.04	20.95
		1882.5 (26365)	22.73	22.03	20.96
		1850.7 (26047)	22.74	22.03	20.94
	3RB-High (3)	1914.3 (26683)	22.78	21.81	20.85
		1882.5 (26365)	22.72	21.74	20.78
		1850.7 (26047)	22.78	21.73	20.81
	3RB-Middle (1)	1914.3 (26683)	22.73	21.75	20.91
		1882.5 (26365)	22.74	21.75	20.77
		1850.7 (26047)	22.82	21.80	20.87
	3RB-Low (0)	1914.3 (26683)	22.79	21.70	20.83
		1882.5 (26365)	22.71	21.76	20.74
		1850.7 (26047)	22.82	21.76	20.88
	6RB (0)	1914.3 (26683)	21.76	20.88	19.76
		1882.5 (26365)	21.71	20.83	19.64
		1850.7 (26047)	21.75	20.84	19.87
3MHz	1RB-High (14)	1913.5 (26675)	22.73	22.04	20.93
		1882.5 (26365)	22.73	21.99	20.91
		1851.5 (26055)	22.81	22.08	20.92
	1RB-Middle (7)	1913.5 (26675)	22.73	22.09	20.97
		1882.5 (26365)	22.75	21.99	20.98
		1851.5 (26055)	22.76	22.10	20.93
	1RB-Low (0)	1913.5 (26675)	22.77	22.08	20.85
		1882.5 (26365)	22.72	22.03	20.88
		1851.5 (26055)	22.79	22.07	20.96
	8RB-High (7)	1913.5 (26675)	21.73	20.72	19.73
		1882.5 (26365)	21.67	20.79	19.74
		1851.5 (26055)	21.75	20.78	19.88
	8RB-Middle (4)	1913.5 (26675)	21.76	20.81	19.76
		1882.5 (26365)	21.69	20.78	19.75
		1851.5 (26055)	21.73	20.81	19.84
	8RB-Low (0)	1913.5 (26675)	21.71	20.77	19.78
		1882.5 (26365)	21.75	20.78	19.72
		1851.5 (26055)	21.79	20.85	19.87
	15RB (0)	1913.5 (26675)	21.73	20.78	19.78
		1882.5 (26365)	21.74	20.75	19.73
		1851.5 (26055)	21.76	20.79	19.85

5MHz	1RB-High (24)	1912.5 (26665)	22.78	21.93	20.97
		1882.5 (26365)	22.81	22.07	20.97
		1852.5 (26065)	22.81	22.11	20.93
	1RB-Middle (12)	1912.5 (26665)	22.79	22.02	20.96
		1882.5 (26365)	22.79	22.03	20.90
		1852.5 (26065)	22.83	22.04	20.92
	1RB-Low (0)	1912.5 (26665)	22.82	22.08	20.93
		1882.5 (26365)	22.82	22.19	20.98
		1852.5 (26065)	22.90	22.21	21.07
	12RB-High (13)	1912.5 (26665)	21.73	20.73	19.76
		1882.5 (26365)	21.78	20.77	19.76
		1852.5 (26065)	21.75	20.71	19.86
	12RB-Middle (6)	1912.5 (26665)	21.77	20.76	19.83
		1882.5 (26365)	21.73	20.75	19.75
		1852.5 (26065)	21.78	20.76	19.86
	12RB-Low (0)	1912.5 (26665)	21.87	20.81	19.84
		1882.5 (26365)	21.83	20.78	19.86
		1852.5 (26065)	21.82	20.85	19.90
	25RB (0)	1912.5 (26665)	21.79	20.80	19.79
		1882.5 (26365)	21.81	20.85	19.82
		1852.5 (26065)	21.81	20.81	19.87
10MHz	1RB-High (49)	1910 (26640)	22.83	22.15	21.04
		1882.5 (26365)	22.80	22.02	20.93
		1855 (26090)	22.81	22.15	21.04
	1RB-Middle (24)	1910 (26640)	22.85	22.10	20.94
		1882.5 (26365)	22.82	22.05	20.97
		1855 (26090)	22.81	22.06	20.98
	1RB-Low (0)	1910 (26640)	22.86	22.15	20.96
		1882.5 (26365)	22.84	22.03	20.95
		1855 (26090)	22.87	22.28	21.06
	25RB-High (25)	1910 (26640)	21.74	20.77	19.75
		1882.5 (26365)	21.84	20.79	19.80
		1855 (26090)	21.77	20.79	19.86
	25RB-Middle (12)	1910 (26640)	21.79	20.80	19.76
		1882.5 (26365)	21.78	20.77	19.78
		1855 (26090)	21.83	20.79	19.83
	25RB-Low (0)	1910 (26640)	21.90	20.88	19.87
		1882.5 (26365)	21.83	20.76	19.81
		1855 (26090)	21.83	20.88	19.93
	50RB (0)	1910 (26640)	21.82	20.80	19.85
		1882.5 (26365)	21.83	20.83	19.82
		1855 (26090)	21.79	20.78	19.86

15MHz	1RB-High (74)	1907.5 (26615)	22.74	22.05	20.84
		1882.5 (26365)	22.73	21.97	20.90
		1857.5 (26115)	22.70	21.86	20.82
	1RB-Middle (37)	1907.5 (26615)	22.75	22.07	20.94
		1882.5 (26365)	22.77	22.08	20.86
		1857.5 (26115)	22.79	22.09	20.97
	1RB-Low (0)	1907.5 (26615)	22.75	21.90	20.84
		1882.5 (26365)	22.73	21.98	20.87
		1857.5 (26115)	22.77	22.05	21.01
	36RB-High (38)	1907.5 (26615)	21.73	20.73	19.74
		1882.5 (26365)	21.71	20.70	19.71
		1857.5 (26115)	21.75	20.73	19.84
	36RB-Middle (19)	1907.5 (26615)	21.69	20.74	19.77
		1882.5 (26365)	21.76	20.74	19.76
		1857.5 (26115)	21.74	20.74	19.86
	36RB-Low (0)	1907.5 (26615)	21.71	20.75	19.80
		1882.5 (26365)	21.70	20.74	19.76
		1857.5 (26115)	21.81	20.77	19.97
	75RB (0)	1907.5 (26615)	21.75	20.78	19.80
		1882.5 (26365)	21.75	20.72	19.69
		1857.5 (26115)	21.82	20.77	19.88
20MHz	1RB-High (99)	1905 (26590)	23.14	22.34	21.21
		1882.5 (26365)	23.12	22.35	21.12
		1860 (26140)	23.18	22.32	21.22
	1RB-Middle (50)	1905 (26590)	23.24	22.37	21.31
		1882.5 (26365)	23.23	22.36	21.33
		1860 (26140)	23.30	22.57	21.37
	1RB-Low (0)	1905 (26590)	23.13	22.42	21.27
		1882.5 (26365)	23.22	22.38	21.30
		1860 (26140)	23.28	22.49	21.32
	50RB-High (50)	1905 (26590)	22.03	21.02	20.03
		1882.5 (26365)	22.17	21.13	20.09
		1860 (26140)	22.28	21.24	20.22
	50RB-Middle (25)	1905 (26590)	22.22	21.20	20.18
		1882.5 (26365)	22.26	21.21	20.20
		1860 (26140)	22.27	21.28	20.43
	50RB-Low (0)	1905 (26590)	22.26	21.24	20.18
		1882.5 (26365)	22.31	21.24	20.23
		1860 (26140)	22.33	21.33	20.44
	100RB (0)	1905 (26590)	22.16	21.13	20.08
		1882.5 (26365)	22.18	21.15	20.13
		1860 (26140)	22.28	21.25	20.38

LTE B25-Power level B1/E1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1914.3 (26683)	20.84	20.16	19.24
		1882.5 (26365)	20.98	20.29	19.18
		1850.7 (26047)	20.87	20.31	19.22
	1RB-Middle (3)	1914.3 (26683)	20.95	20.53	19.26
		1882.5 (26365)	21.11	20.40	19.34
		1850.7 (26047)	21.05	20.44	19.42
	1RB-Low (0)	1914.3 (26683)	21.02	20.06	19.08
		1882.5 (26365)	20.86	20.18	19.04
		1850.7 (26047)	20.68	20.52	19.13
	3RB-High (3)	1914.3 (26683)	20.73	20.40	19.18
		1882.5 (26365)	20.94	20.17	19.11
		1850.7 (26047)	20.88	20.31	19.07
	3RB-Middle (1)	1914.3 (26683)	20.91	20.57	19.25
		1882.5 (26365)	21.13	20.26	19.34
		1850.7 (26047)	20.84	20.46	19.30
	3RB-Low (0)	1914.3 (26683)	21.05	20.21	19.32
		1882.5 (26365)	20.94	20.30	19.00
		1850.7 (26047)	21.06	20.49	19.30
	6RB (0)	1914.3 (26683)	19.94	19.27	18.17
		1882.5 (26365)	19.87	18.99	17.82
		1850.7 (26047)	20.27	19.05	18.20
3MHz	1RB-High (14)	1913.5 (26675)	20.99	20.36	19.34
		1882.5 (26365)	20.69	20.03	18.99
		1851.5 (26055)	20.67	20.51	19.37
	1RB-Middle (7)	1913.5 (26675)	21.12	20.61	19.33
		1882.5 (26365)	20.97	20.11	19.18
		1851.5 (26055)	20.87	20.30	19.12
	1RB-Low (0)	1913.5 (26675)	20.69	20.06	19.12
		1882.5 (26365)	20.96	20.14	19.05
		1851.5 (26055)	20.99	20.24	19.08
	8RB-High (7)	1913.5 (26675)	20.09	18.89	18.03
		1882.5 (26365)	20.09	19.00	18.14
		1851.5 (26055)	20.12	19.04	18.00
	8RB-Middle (4)	1913.5 (26675)	20.31	18.98	18.23
		1882.5 (26365)	19.99	19.17	17.91
		1851.5 (26055)	19.99	19.11	18.10
	8RB-Low (0)	1913.5 (26675)	20.07	19.27	18.06
		1882.5 (26365)	20.19	19.30	17.88
		1851.5 (26055)	20.18	19.06	18.24
	15RB (0)	1913.5 (26675)	19.99	19.09	18.24
		1882.5 (26365)	20.20	18.86	18.13
		1851.5 (26055)	20.32	19.22	18.16

5MHz	1RB-High (24)	1912.5 (26665)	20.74	20.29	19.16
		1882.5 (26365)	20.88	20.04	19.26
		1852.5 (26065)	21.03	20.29	19.41
	1RB-Middle (12)	1912.5 (26665)	21.18	20.57	19.17
		1882.5 (26365)	21.04	20.28	19.14
		1852.5 (26065)	21.05	20.59	19.13
	1RB-Low (0)	1912.5 (26665)	20.89	20.31	19.37
		1882.5 (26365)	20.78	20.49	19.05
		1852.5 (26065)	21.04	20.32	19.01
	12RB-High (13)	1912.5 (26665)	20.14	18.97	17.84
		1882.5 (26365)	19.97	19.20	17.88
		1852.5 (26065)	20.26	18.94	18.05
	12RB-Middle (6)	1912.5 (26665)	20.29	19.07	18.18
		1882.5 (26365)	20.09	19.14	18.18
		1852.5 (26065)	20.23	19.01	18.23
	12RB-Low (0)	1912.5 (26665)	20.30	19.14	18.09
		1882.5 (26365)	20.15	18.91	17.94
		1852.5 (26065)	20.08	19.03	18.13
	25RB (0)	1912.5 (26665)	20.11	18.91	17.98
		1882.5 (26365)	19.97	18.85	17.88
		1852.5 (26065)	20.33	18.89	18.11
10MHz	1RB-High (49)	1910 (26640)	20.72	20.36	19.08
		1882.5 (26365)	20.88	19.92	18.94
		1855 (26090)	20.77	20.44	19.25
	1RB-Middle (24)	1910 (26640)	21.08	20.40	19.42
		1882.5 (26365)	20.93	20.41	19.11
		1855 (26090)	20.92	20.59	19.47
	1RB-Low (0)	1910 (26640)	20.82	20.28	19.18
		1882.5 (26365)	21.04	20.34	19.05
		1855 (26090)	20.99	20.36	18.96
	25RB-High (25)	1910 (26640)	19.87	19.08	18.00
		1882.5 (26365)	19.84	19.24	18.09
		1855 (26090)	20.06	19.28	17.95
	25RB-Middle (12)	1910 (26640)	20.02	19.19	18.11
		1882.5 (26365)	20.23	19.01	17.94
		1855 (26090)	20.16	19.27	18.17
	25RB-Low (0)	1910 (26640)	20.16	19.34	18.04
		1882.5 (26365)	19.90	19.04	18.18
		1855 (26090)	20.22	18.99	18.00
	50RB (0)	1910 (26640)	20.26	19.02	18.00
		1882.5 (26365)	20.08	18.93	17.82
		1855 (26090)	20.01	19.24	18.05

15MHz	1RB-High (74)	1907.5 (26615)	20.74	20.23	19.39
		1882.5 (26365)	20.85	19.90	18.98
		1857.5 (26115)	20.81	20.15	19.40
	1RB-Middle (37)	1907.5 (26615)	21.07	20.38	19.23
		1882.5 (26365)	21.12	20.22	19.03
		1857.5 (26115)	20.95	20.56	19.19
	1RB-Low (0)	1907.5 (26615)	20.99	20.01	19.20
		1882.5 (26365)	20.75	20.25	19.30
		1857.5 (26115)	20.80	20.47	18.95
	36RB-High (38)	1907.5 (26615)	19.90	19.13	18.03
		1882.5 (26365)	20.10	19.24	18.06
		1857.5 (26115)	20.25	19.00	18.10
	36RB-Middle (19)	1907.5 (26615)	20.26	19.03	18.18
		1882.5 (26365)	20.19	18.87	18.08
		1857.5 (26115)	20.09	19.17	18.24
	36RB-Low (0)	1907.5 (26615)	20.16	19.12	18.15
		1882.5 (26365)	20.18	19.12	18.24
		1857.5 (26115)	20.14	19.21	18.11
	75RB (0)	1907.5 (26615)	20.25	19.21	18.26
		1882.5 (26365)	19.90	19.08	17.94
		1857.5 (26115)	20.05	18.94	18.21
20MHz	1RB-High (99)	1905 (26590)	20.90	20.28	19.21
		1882.5 (26365)	20.82	20.09	19.09
		1860 (26140)	20.84	20.34	19.22
	1RB-Middle (50)	1905 (26590)	20.98	20.45	19.25
		1882.5 (26365)	20.93	20.23	19.15
		1860 (26140)	20.96	20.42	19.31
	1RB-Low (0)	1905 (26590)	20.87	20.11	19.18
		1882.5 (26365)	20.88	20.30	19.16
		1860 (26140)	20.87	20.42	19.10
	50RB-High (50)	1905 (26590)	20.07	19.04	18.03
		1882.5 (26365)	19.97	19.04	18.00
		1860 (26140)	20.09	19.11	18.09
	50RB-Middle (25)	1905 (26590)	20.17	19.17	18.11
		1882.5 (26365)	20.09	19.06	18.11
		1860 (26140)	20.13	19.10	18.12
	50RB-Low (0)	1905 (26590)	20.20	19.19	18.17
		1882.5 (26365)	20.10	19.11	18.07
		1860 (26140)	20.13	19.16	18.11
	100RB (0)	1905 (26590)	20.12	19.08	18.06
		1882.5 (26365)	20.00	19.04	17.97
		1860 (26140)	20.15	19.09	18.03

LTE B26-Power level A1/B1/C1/D1/E1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	848.3 (27033)	22.78	22.02	20.94
		831.5 (26865)	22.76	22.04	20.90
		814.7 (26697)	22.79	22.05	20.96
	1RB-Middle (3)	848.3 (27033)	22.80	21.99	20.95
		831.5 (26865)	22.77	21.98	20.89
		814.7 (26697)	22.82	22.04	20.97
	1RB-Low (0)	848.3 (27033)	22.81	22.16	20.97
		831.5 (26865)	22.81	21.98	20.89
		814.7 (26697)	22.83	21.97	21.00
	3RB-High (3)	848.3 (27033)	22.82	21.84	20.90
		831.5 (26865)	22.76	21.82	20.80
		814.7 (26697)	22.84	21.82	20.88
	3RB-Middle (1)	848.3 (27033)	22.84	21.85	20.90
		831.5 (26865)	22.77	21.74	20.93
		814.7 (26697)	22.83	21.84	20.90
	3RB-Low (0)	848.3 (27033)	22.82	21.83	20.90
		831.5 (26865)	22.76	21.76	20.88
		814.7 (26697)	22.88	21.77	20.93
	6RB (0)	848.3 (27033)	21.83	20.93	19.78
		831.5 (26865)	21.84	20.88	19.73
		814.7 (26697)	21.83	20.95	19.79
3MHz	1RB-High (14)	847.5 (27025)	22.82	22.04	20.96
		831.5 (26865)	22.79	22.01	20.93
		815.5 (26705)	22.96	22.03	20.75
	1RB-Middle (7)	847.5 (27025)	22.88	21.99	21.00
		831.5 (26865)	22.81	21.93	20.98
		815.5 (26705)	22.82	21.88	20.86
	1RB-Low (0)	847.5 (27025)	22.97	22.15	21.04
		831.5 (26865)	22.80	22.11	20.93
		815.5 (26705)	22.87	22.01	21.10
	8RB-High (7)	847.5 (27025)	21.83	20.90	19.82
		831.5 (26865)	21.78	20.83	19.78
		815.5 (26705)	21.97	20.98	19.98
	8RB-Middle (4)	847.5 (27025)	21.84	20.88	19.76
		831.5 (26865)	21.78	20.79	19.79
		815.5 (26705)	21.93	20.97	19.71
	8RB-Low (0)	847.5 (27025)	21.90	20.89	19.86
		831.5 (26865)	21.77	20.87	19.83
		815.5 (26705)	21.83	20.93	19.82
	15RB (0)	847.5 (27025)	21.84	20.84	19.82
		831.5 (26865)	21.78	20.83	19.80
		815.5 (26705)	21.75	20.99	19.85

5MHz	1RB-High (24)	846.5 (27015)	22.85	22.00	20.90
		831.5 (26865)	22.85	22.10	20.99
		816.5 (26715)	22.88	22.14	21.03
	1RB-Middle (12)	846.5 (27015)	22.93	22.19	21.05
		831.5 (26865)	22.82	22.15	20.92
		816.5 (26715)	22.87	22.15	21.09
	1RB-Low (0)	846.5 (27015)	22.96	22.04	21.21
		831.5 (26865)	22.88	22.12	21.03
		816.5 (26715)	22.93	22.10	21.13
	12RB-High (13)	846.5 (27015)	21.81	20.84	19.81
		831.5 (26865)	21.81	20.81	19.82
		816.5 (26715)	21.85	20.81	19.87
	12RB-Middle (6)	846.5 (27015)	21.88	20.85	19.86
		831.5 (26865)	21.85	20.78	19.79
		816.5 (26715)	21.86	20.82	19.83
	12RB-Low (0)	846.5 (27015)	21.88	20.93	19.95
		831.5 (26865)	21.84	20.83	19.83
		816.5 (26715)	21.86	20.87	19.89
	25RB (0)	846.5 (27015)	21.85	20.87	19.87
		831.5 (26865)	21.82	20.81	19.77
		816.5 (26715)	21.83	20.84	19.83
10MHz	1RB-High (49)	844 (26990)	22.82	22.02	21.07
		831.5 (26865)	22.82	22.01	20.94
		820 (26750)	22.89	22.07	20.99
	1RB-Middle (24)	844 (26990)	22.89	22.15	20.99
		831.5 (26865)	22.85	22.15	20.96
		820 (26750)	22.88	22.01	20.98
	1RB-Low (0)	844 (26990)	22.91	22.14	21.07
		831.5 (26865)	22.82	22.04	21.05
		820 (26750)	22.94	22.16	21.06
	25RB-High (25)	844 (26990)	21.89	20.88	19.91
		831.5 (26865)	21.82	20.83	19.83
		820 (26750)	21.86	20.84	19.83
	25RB-Middle (12)	844 (26990)	21.89	20.89	19.88
		831.5 (26865)	21.80	20.79	19.76
		820 (26750)	21.82	20.84	19.84
	25RB-Low (0)	844 (26990)	21.82	20.88	19.85
		831.5 (26865)	21.75	20.76	19.74
		820 (26750)	21.79	20.83	19.81
	50RB (0)	844 (26990)	21.92	20.92	19.89
		831.5 (26865)	21.81	20.79	19.78
		820 (26750)	21.85	20.82	19.85

15MHz	1RB-High (74)	841.5 (26965)	22.80	22.08	20.86
		831.5 (26865)	22.84	22.04	20.99
		821.5 (26765)	22.89	22.01	20.92
	1RB-Middle (37)	841.5 (26965)	22.98	22.29	21.06
		831.5 (26865)	22.94	22.17	20.97
		821.5 (26765)	22.97	22.16	20.97
	1RB-Low (0)	841.5 (26965)	22.91	22.10	21.01
		831.5 (26865)	22.87	22.10	20.99
		821.5 (26765)	22.91	22.07	20.96
	36RB-High (38)	841.5 (26965)	21.85	20.89	19.83
		831.5 (26865)	21.94	20.94	19.95
		821.5 (26765)	21.83	20.82	19.87
	36RB-Middle (19)	841.5 (26965)	21.96	20.92	19.93
		831.5 (26865)	21.95	20.92	19.88
		821.5 (26765)	21.91	20.88	19.87
	36RB-Low (0)	841.5 (26965)	21.91	20.93	19.88
		831.5 (26865)	21.84	20.87	19.81
		821.5 (26765)	21.89	20.91	19.89
	75RB (0)	841.5 (26965)	21.95	20.92	19.85
		831.5 (26865)	21.90	20.86	19.83
		821.5 (26765)	21.90	20.86	19.83

LTE B41 PC3-Power level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	23.86	22.86	21.52
		2640.3(41093)	23.51	22.58	21.23
		2593 (40620)	23.81	22.81	21.43
		2545.8(40148)	23.46	22.51	21.16
		2498.5 (39675)	23.88	22.92	21.55
	1RB-Middle (12)	2687.5 (41565)	23.80	22.75	21.41
		2640.3(41093)	23.48	22.47	21.09
		2593 (40620)	23.79	22.79	21.42
		2545.8(40148)	23.42	22.43	21.01
		2498.5 (39675)	23.88	22.84	21.43
	1RB-Low (0)	2687.5 (41565)	23.88	22.87	21.54
		2640.3(41093)	23.57	22.59	21.26
		2593 (40620)	23.85	22.87	21.56
		2545.8(40148)	23.45	22.49	21.17
		2498.5 (39675)	23.94	22.94	21.65
	12RB-High (13)	2687.5 (41565)	22.67	21.64	20.71
		2640.3(41093)	22.39	21.36	20.43
		2593 (40620)	22.66	21.59	20.69
		2545.8(40148)	22.34	21.26	20.38
		2498.5 (39675)	22.74	21.68	20.79
	12RB-Middle (6)	2687.5 (41565)	22.70	21.63	20.70
		2640.3(41093)	22.40	21.31	20.37
		2593 (40620)	22.64	21.56	20.66
		2545.8(40148)	22.29	21.22	20.33
		2498.5 (39675)	22.73	21.62	20.73
	12RB-Low (0)	2687.5 (41565)	22.74	21.66	20.75
		2640.3(41093)	22.44	21.38	20.46
		2593 (40620)	22.71	21.66	20.76
		2545.8(40148)	22.36	21.30	20.36
		2498.5 (39675)	22.80	21.81	20.81
	25RB (0)	2687.5 (41565)	22.69	21.75	20.74
		2640.3(41093)	22.43	21.47	20.46
		2593 (40620)	22.72	21.69	20.73
		2545.8(40148)	22.34	21.36	20.37
		2498.5 (39675)	22.75	21.69	20.78

10MHz	1RB-High (49)	2685 (41540)	23.83	22.86	21.49
		2639(41080)	23.49	22.57	21.19
		2593 (40620)	23.78	22.79	21.44
		2547(40160)	23.45	22.55	21.14
		2501 (39700)	23.80	22.85	21.49
	1RB-Middle (24)	2685 (41540)	23.78	22.78	21.39
		2639(41080)	23.42	22.48	21.10
		2593 (40620)	23.74	22.75	21.41
		2547(40160)	23.38	22.38	21.01
		2501 (39700)	23.80	22.78	21.40
	1RB-Low (0)	2685 (41540)	23.84	22.84	21.50
		2639(41080)	23.54	22.59	21.25
		2593 (40620)	23.76	22.83	21.54
		2547(40160)	23.45	22.49	21.18
		2501 (39700)	23.88	22.94	21.59
	25RB-High (25)	2685 (41540)	22.72	21.72	20.73
		2639(41080)	22.40	21.41	20.45
		2593 (40620)	22.66	21.66	20.71
		2547(40160)	22.35	21.34	20.38
		2501 (39700)	22.69	21.64	20.73
	25RB-Middle (12)	2685 (41540)	22.70	21.72	20.74
		2639(41080)	22.36	21.40	20.46
		2593 (40620)	22.67	21.66	20.69
		2547(40160)	22.34	21.34	20.37
		2501 (39700)	22.72	21.87	20.77
	25RB-Low (0)	2685 (41540)	22.71	21.75	20.76
		2639(41080)	22.42	21.47	20.48
		2593 (40620)	22.71	21.72	20.73
		2547(40160)	22.37	21.35	20.40
		2501 (39700)	22.74	21.80	20.79
	50RB (0)	2685 (41540)	22.74	21.76	20.72
		2639(41080)	22.41	21.44	20.41
		2593 (40620)	22.71	21.71	20.68
		2547(40160)	22.35	21.38	20.34
		2501 (39700)	22.76	21.73	20.73

15MHz	1RB-High (74)	2682.5 (41515)	23.64	22.74	21.35
		2637.8(41068)	23.38	22.45	21.06
		2593 (40620)	23.63	22.67	21.25
		2548.3(40173)	23.48	22.44	21.03
		2503.5 (39725)	23.64	22.69	21.36
	1RB-Middle (37)	2682.5 (41515)	23.76	22.74	21.35
		2637.8(41068)	23.45	22.49	21.08
		2593 (40620)	23.76	22.77	21.36
		2548.3(40173)	23.41	22.44	21.06
		2503.5 (39725)	23.77	22.78	21.36
	1RB-Low (0)	2682.5 (41515)	23.75	22.75	21.35
		2637.8(41068)	23.48	22.54	21.18
		2593 (40620)	23.74	22.75	21.37
		2548.3(40173)	23.39	22.42	21.02
		2503.5 (39725)	23.79	22.79	21.42
	36RB-High (38)	2682.5 (41515)	22.61	21.65	20.64
		2637.8(41068)	22.40	21.37	20.37
		2593 (40620)	22.64	21.61	20.63
		2548.3(40173)	22.34	21.33	20.35
		2503.5 (39725)	22.64	21.74	20.63
	36RB-Middle (19)	2682.5 (41515)	22.71	21.66	20.64
		2637.8(41068)	22.39	21.38	20.35
		2593 (40620)	22.70	21.67	20.70
		2548.3(40173)	22.30	21.27	20.30
		2503.5 (39725)	22.67	21.62	20.67
	36RB-Low (0)	2682.5 (41515)	22.69	21.66	20.66
		2637.8(41068)	22.44	21.42	20.43
		2593 (40620)	22.68	21.67	20.69
		2548.3(40173)	22.31	21.28	20.31
		2503.5 (39725)	22.73	21.70	20.73
	75RB (0)	2682.5 (41515)	22.69	21.73	20.67
		2637.8(41068)	22.45	21.45	20.42
		2593 (40620)	22.66	21.70	20.70
		2548.3(40173)	22.34	21.36	20.34
		2503.5 (39725)	22.71	21.71	20.70

20MHz	1RB-High (99)	2680 (41490)	23.67	22.71	21.39
		2636.5(41055)	23.34	22.43	21.10
		2593 (40620)	23.58	22.67	21.24
		2549.5(40185)	23.39	22.49	21.05
		2506 (39750)	23.55	22.58	21.22
	1RB-Middle (50)	2680 (41490)	23.66	22.65	21.29
		2636.5(41055)	23.40	22.40	21.03
		2593 (40620)	23.70	22.70	21.33
		2549.5(40185)	23.36	22.51	20.96
		2506 (39750)	23.67	22.69	21.30
	1RB-Low (0)	2680 (41490)	23.62	22.67	21.33
		2636.5(41055)	23.50	22.56	21.21
		2593 (40620)	23.78	22.75	21.39
		2549.5(40185)	23.33	22.40	21.00
		2506 (39750)	23.77	22.81	21.43
	50RB-High (50)	2680 (41490)	22.66	21.67	20.65
		2636.5(41055)	22.32	21.35	20.34
		2593 (40620)	22.57	21.61	20.58
		2549.5(40185)	22.35	21.35	20.33
		2506 (39750)	22.58	21.59	20.60
	50RB-Middle (25)	2680 (41490)	22.67	21.69	20.67
		2636.5(41055)	22.39	21.43	20.40
		2593 (40620)	22.65	21.67	20.64
		2549.5(40185)	22.32	21.31	20.31
		2506 (39750)	22.67	21.59	20.65
	50RB-Low (0)	2680 (41490)	22.62	21.67	20.63
		2636.5(41055)	22.45	21.48	20.46
		2593 (40620)	22.73	21.71	20.69
		2549.5(40185)	22.33	21.31	20.29
		2506 (39750)	22.72	21.74	20.73
	100RB (0)	2680 (41490)	22.66	21.68	20.64
		2636.5(41055)	22.39	21.42	20.42
		2593 (40620)	22.61	21.64	20.62
		2549.5(40185)	22.30	21.30	20.29
		2506 (39750)	22.64	21.71	20.64

LTE B41 PC3-Power level B1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	18.84	17.65	16.36
		2640.3(41093)	18.44	17.52	16.20
		2593 (40620)	18.72	17.61	16.36
		2545.8(40148)	18.37	17.39	16.05
		2498.5 (39675)	18.62	17.73	16.10
	1RB-Middle (12)	2687.5 (41565)	18.89	17.97	16.54
		2640.3(41093)	18.68	17.70	16.31
		2593 (40620)	18.81	17.84	16.37
		2545.8(40148)	18.32	17.47	16.03
		2498.5 (39675)	18.69	17.87	16.45
	1RB-Low (0)	2687.5 (41565)	18.65	17.68	16.40
		2640.3(41093)	18.76	17.68	16.15
		2593 (40620)	18.77	17.74	16.18
		2545.8(40148)	18.48	17.32	15.95
		2498.5 (39675)	18.85	17.77	16.27
	12RB-High (13)	2687.5 (41565)	17.73	16.76	15.83
		2640.3(41093)	17.51	16.73	15.44
		2593 (40620)	17.77	16.75	15.77
		2545.8(40148)	17.49	16.33	15.27
		2498.5 (39675)	17.92	16.71	15.74
	12RB-Middle (6)	2687.5 (41565)	17.82	16.83	15.74
		2640.3(41093)	17.63	16.55	15.79
		2593 (40620)	17.80	16.70	15.70
		2545.8(40148)	17.25	16.39	15.28
		2498.5 (39675)	17.94	16.81	15.64
	12RB-Low (0)	2687.5 (41565)	17.68	16.87	15.77
		2640.3(41093)	17.57	16.68	15.66
		2593 (40620)	17.71	16.94	15.68
		2545.8(40148)	17.44	16.40	15.36
		2498.5 (39675)	17.80	16.72	15.78
	25RB (0)	2687.5 (41565)	17.69	16.75	15.78
		2640.3(41093)	17.72	16.65	15.74
		2593 (40620)	17.92	16.75	15.80
		2545.8(40148)	17.33	16.26	15.31
		2498.5 (39675)	17.87	16.80	15.60

10MHz	1RB-High (49)	2685 (41540)	18.64	17.87	16.48
		2639(41080)	18.48	17.47	16.22
		2593 (40620)	18.59	17.80	16.35
		2547(40160)	18.33	17.27	15.94
		2501 (39700)	18.63	17.55	16.21
	1RB-Middle (24)	2685 (41540)	18.80	17.93	16.40
		2639(41080)	18.63	17.65	16.20
		2593 (40620)	18.73	17.93	16.35
		2547(40160)	18.51	17.37	16.00
		2501 (39700)	18.86	17.82	16.35
	1RB-Low (0)	2685 (41540)	18.81	17.70	16.25
		2639(41080)	18.66	17.60	16.38
		2593 (40620)	18.68	17.74	16.20
		2547(40160)	18.36	17.34	15.99
		2501 (39700)	18.84	17.86	16.24
	25RB-High (25)	2685 (41540)	17.93	16.94	15.85
		2639(41080)	17.63	16.58	15.62
		2593 (40620)	17.88	16.63	15.65
		2547(40160)	17.50	16.38	15.46
		2501 (39700)	17.74	16.65	15.69
	25RB-Middle (12)	2685 (41540)	17.95	16.73	15.93
		2639(41080)	17.57	16.65	15.61
		2593 (40620)	17.67	16.94	15.74
		2547(40160)	17.31	16.43	15.26
		2501 (39700)	17.89	16.86	15.65
	25RB-Low (0)	2685 (41540)	17.83	16.84	15.72
		2639(41080)	17.78	16.70	15.63
		2593 (40620)	17.70	16.88	15.69
		2547(40160)	17.34	16.30	15.35
		2501 (39700)	17.82	16.85	15.90
	50RB (0)	2685 (41540)	17.77	16.91	15.74
		2639(41080)	17.68	16.56	15.59
		2593 (40620)	17.77	16.86	15.68
		2547(40160)	17.42	16.48	15.27
		2501 (39700)	17.90	16.76	15.77

15MHz	1RB-High (74)	2682.5 (41515)	18.75	17.67	16.43
		2637.8(41068)	18.44	17.45	16.17
		2593 (40620)	18.67	17.81	16.32
		2548.3(40173)	18.29	17.33	15.99
		2503.5 (39725)	18.68	17.65	16.26
	1RB-Middle (37)	2682.5 (41515)	18.98	17.97	16.51
		2637.8(41068)	18.63	17.69	16.23
		2593 (40620)	18.87	17.77	16.31
		2548.3(40173)	18.32	17.52	16.01
		2503.5 (39725)	18.85	17.90	16.27
	1RB-Low (0)	2682.5 (41515)	18.77	17.73	16.40
		2637.8(41068)	18.55	17.61	16.38
		2593 (40620)	18.80	17.63	16.32
		2548.3(40173)	18.37	17.36	15.97
		2503.5 (39725)	18.65	17.68	16.49
	36RB-High (38)	2682.5 (41515)	17.80	16.82	15.68
		2637.8(41068)	17.66	16.70	15.49
		2593 (40620)	17.73	16.66	15.76
		2548.3(40173)	17.34	16.48	15.49
		2503.5 (39725)	17.93	16.77	15.61
	36RB-Middle (19)	2682.5 (41515)	17.78	16.98	15.89
		2637.8(41068)	17.79	16.57	15.77
		2593 (40620)	17.87	16.87	15.66
		2548.3(40173)	17.46	16.31	15.36
		2503.5 (39725)	17.74	16.82	15.67
	36RB-Low (0)	2682.5 (41515)	17.85	16.88	15.80
		2637.8(41068)	17.71	16.65	15.73
		2593 (40620)	17.83	16.90	15.72
		2548.3(40173)	17.28	16.35	15.40
		2503.5 (39725)	17.82	16.92	15.79
	75RB (0)	2682.5 (41515)	17.69	16.77	15.75
		2637.8(41068)	17.68	16.53	15.59
		2593 (40620)	17.92	16.83	15.62
		2548.3(40173)	17.36	16.37	15.45
		2503.5 (39725)	17.72	16.88	15.68

20MHz	1RB-High (99)	2680 (41490)	18.78	17.80	16.39
		2636.5(41055)	18.53	17.58	16.15
		2593 (40620)	18.71	17.73	16.31
		2549.5(40185)	18.37	17.39	16.03
		2506 (39750)	18.64	17.66	16.23
	1RB-Middle (50)	2680 (41490)	18.88	17.91	16.47
		2636.5(41055)	18.69	17.72	16.30
		2593 (40620)	18.85	17.87	16.44
		2549.5(40185)	18.45	17.48	16.04
		2506 (39750)	18.81	17.85	16.41
	1RB-Low (0)	2680 (41490)	18.75	17.77	16.37
		2636.5(41055)	18.69	17.70	16.28
		2593 (40620)	18.73	17.76	16.32
		2549.5(40185)	18.38	17.41	15.99
		2506 (39750)	18.77	17.81	16.39
	50RB-High (50)	2680 (41490)	17.88	16.87	15.83
		2636.5(41055)	17.61	16.64	15.58
		2593 (40620)	17.78	16.77	15.74
		2549.5(40185)	17.41	16.42	15.40
		2506 (39750)	17.85	16.76	15.69
	50RB-Middle (25)	2680 (41490)	17.85	16.88	15.83
		2636.5(41055)	17.70	16.70	15.70
		2593 (40620)	17.80	16.84	15.81
		2549.5(40185)	17.40	16.40	15.34
		2506 (39750)	17.85	16.81	15.76
	50RB-Low (0)	2680 (41490)	17.81	16.82	15.80
		2636.5(41055)	17.72	16.70	15.71
		2593 (40620)	17.82	16.86	15.81
		2549.5(40185)	17.38	16.41	15.35
		2506 (39750)	17.83	16.85	15.82
	100RB (0)	2680 (41490)	17.84	16.81	15.80
		2636.5(41055)	17.68	16.67	15.65
		2593 (40620)	17.83	16.81	15.76
		2549.5(40185)	17.43	16.39	15.38
		2506 (39750)	17.80	16.80	15.74

LTE B41 PC3-Power level C1/D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	15.58	14.46	13.10
		2640.3(41093)	15.37	14.29	12.89
		2593 (40620)	15.59	14.50	13.13
		2545.8(40148)	15.06	14.22	12.82
		2498.5 (39675)	15.48	14.46	13.36
	1RB-Middle (12)	2687.5 (41565)	15.44	14.76	13.07
		2640.3(41093)	15.34	14.51	13.20
		2593 (40620)	15.70	14.80	13.27
		2545.8(40148)	15.13	14.20	12.96
		2498.5 (39675)	15.73	14.56	13.39
	1RB-Low (0)	2687.5 (41565)	15.38	14.45	13.23
		2640.3(41093)	15.35	14.55	13.13
		2593 (40620)	15.45	14.40	13.12
		2545.8(40148)	15.14	14.29	12.90
		2498.5 (39675)	15.53	14.78	13.24
	12RB-High (13)	2687.5 (41565)	14.61	13.57	12.60
		2640.3(41093)	14.47	13.46	12.45
		2593 (40620)	14.45	13.55	12.51
		2545.8(40148)	14.23	13.24	12.31
		2498.5 (39675)	14.63	13.75	12.67
	12RB-Middle (6)	2687.5 (41565)	14.57	13.64	12.80
		2640.3(41093)	14.28	13.55	12.54
		2593 (40620)	14.54	13.80	12.54
		2545.8(40148)	14.09	13.35	12.17
		2498.5 (39675)	14.54	13.84	12.70
	12RB-Low (0)	2687.5 (41565)	14.54	13.48	12.56
		2640.3(41093)	14.57	13.62	12.69
		2593 (40620)	14.59	13.63	12.75
		2545.8(40148)	14.30	13.38	12.45
		2498.5 (39675)	14.80	13.90	12.92
	25RB (0)	2687.5 (41565)	14.62	13.66	12.80
		2640.3(41093)	14.40	13.63	12.69
		2593 (40620)	14.62	13.68	12.68
		2545.8(40148)	14.19	13.22	12.21
		2498.5 (39675)	14.63	13.91	12.58

10MHz	1RB-High (49)	2685 (41540)	15.52	14.67	13.10
		2639(41080)	15.41	14.27	12.95
		2593 (40620)	15.41	14.52	13.22
		2547(40160)	15.22	14.31	13.02
		2501 (39700)	15.57	14.66	13.41
	1RB-Middle (24)	2685 (41540)	15.44	14.70	13.33
		2639(41080)	15.62	14.44	12.95
		2593 (40620)	15.54	14.59	13.43
		2547(40160)	15.31	14.24	12.90
		2501 (39700)	15.59	14.71	13.44
	1RB-Low (0)	2685 (41540)	15.41	14.64	13.03
		2639(41080)	15.48	14.36	12.94
		2593 (40620)	15.67	14.53	13.19
		2547(40160)	15.27	14.36	12.91
		2501 (39700)	15.71	14.74	13.33
	25RB-High (25)	2685 (41540)	14.65	13.47	12.76
		2639(41080)	14.51	13.43	12.33
		2593 (40620)	14.52	13.49	12.66
		2547(40160)	14.33	13.35	12.40
		2501 (39700)	14.70	13.68	12.85
	25RB-Middle (12)	2685 (41540)	14.76	13.63	12.59
		2639(41080)	14.31	13.61	12.54
		2593 (40620)	14.61	13.58	12.81
		2547(40160)	14.11	13.27	12.41
		2501 (39700)	14.60	13.90	12.81
	25RB-Low (0)	2685 (41540)	14.58	13.65	12.74
		2639(41080)	14.45	13.66	12.57
		2593 (40620)	14.60	13.67	12.83
		2547(40160)	14.17	13.25	12.24
		2501 (39700)	14.79	13.85	12.80
	50RB (0)	2685 (41540)	14.43	13.57	12.73
		2639(41080)	14.52	13.61	12.60
		2593 (40620)	14.55	13.69	12.63
		2547(40160)	14.16	13.40	12.31
		2501 (39700)	14.72	13.65	12.88

15MHz	1RB-High (74)	2682.5 (41515)	15.64	14.46	13.07
		2637.8(41068)	15.31	14.34	12.80
		2593 (40620)	15.39	14.54	13.06
		2548.3(40173)	15.30	14.16	12.90
		2503.5 (39725)	15.59	14.51	13.19
	1RB-Middle (37)	2682.5 (41515)	15.50	14.76	13.13
		2637.8(41068)	15.32	14.49	13.17
		2593 (40620)	15.62	14.68	13.28
		2548.3(40173)	15.39	14.40	13.08
		2503.5 (39725)	15.82	14.75	13.32
	1RB-Low (0)	2682.5 (41515)	15.39	14.47	13.23
		2637.8(41068)	15.56	14.54	13.10
		2593 (40620)	15.56	14.61	13.40
		2548.3(40173)	15.24	14.18	12.82
		2503.5 (39725)	15.53	14.73	13.27
	36RB-High (38)	2682.5 (41515)	14.66	13.48	12.68
		2637.8(41068)	14.30	13.54	12.37
		2593 (40620)	14.67	13.64	12.60
		2548.3(40173)	14.36	13.43	12.44
		2503.5 (39725)	14.47	13.60	12.75
	36RB-Middle (19)	2682.5 (41515)	14.56	13.63	12.76
		2637.8(41068)	14.57	13.54	12.39
		2593 (40620)	14.58	13.55	12.74
		2548.3(40173)	14.13	13.44	12.38
		2503.5 (39725)	14.63	13.72	12.88
	36RB-Low (0)	2682.5 (41515)	14.60	13.75	12.61
		2637.8(41068)	14.55	13.44	12.64
		2593 (40620)	14.47	13.88	12.65
		2548.3(40173)	14.12	13.29	12.40
		2503.5 (39725)	14.56	13.68	12.86
	75RB (0)	2682.5 (41515)	14.58	13.64	12.70
		2637.8(41068)	14.51	13.59	12.49
		2593 (40620)	14.64	13.77	12.57
		2548.3(40173)	14.27	13.34	12.30
		2503.5 (39725)	14.77	13.76	12.70

20MHz	1RB-High (99)	2680 (41490)	15.55	14.58	13.21
		2636.5(41055)	15.36	14.38	12.99
		2593 (40620)	15.57	14.59	13.19
		2549.5(40185)	15.24	14.28	12.98
		2506 (39750)	15.56	14.62	13.31
	1RB-Middle (50)	2680 (41490)	15.64	14.72	13.27
		2636.5(41055)	15.52	14.55	13.13
		2593 (40620)	15.67	14.70	13.39
		2549.5(40185)	15.32	14.35	13.04
		2506 (39750)	15.73	14.75	13.44
	1RB-Low (0)	2680 (41490)	15.56	14.57	13.17
		2636.5(41055)	15.52	14.53	13.13
		2593 (40620)	15.60	14.59	13.31
		2549.5(40185)	15.27	14.30	13.00
		2506 (39750)	15.66	14.69	13.41
	50RB-High (50)	2680 (41490)	14.62	13.62	12.75
		2636.5(41055)	14.41	13.45	12.53
		2593 (40620)	14.59	13.61	12.71
		2549.5(40185)	14.32	13.43	12.40
		2506 (39750)	14.65	13.75	12.76
	50RB-Middle (25)	2680 (41490)	14.66	13.67	12.77
		2636.5(41055)	14.47	13.52	12.57
		2593 (40620)	14.63	13.74	12.71
		2549.5(40185)	14.26	13.40	12.36
		2506 (39750)	14.70	13.80	12.82
	50RB-Low (0)	2680 (41490)	14.64	13.67	12.71
		2636.5(41055)	14.52	13.56	12.61
		2593 (40620)	14.64	13.82	12.76
		2549.5(40185)	14.28	13.42	12.37
		2506 (39750)	14.74	13.88	12.87
	100RB (0)	2680 (41490)	14.61	13.66	12.73
		2636.5(41055)	14.52	13.53	12.59
		2593 (40620)	14.66	13.76	12.74
		2549.5(40185)	14.26	13.38	12.39
		2506 (39750)	14.71	13.81	12.78

LTE B41 PC3-Power level E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	21.62	20.49	19.20
		2640.3(41093)	21.33	20.43	18.87
		2593 (40620)	21.71	20.54	19.20
		2545.8(40148)	21.31	20.14	18.80
		2498.5 (39675)	21.62	20.56	19.18
	1RB-Middle (12)	2687.5 (41565)	21.65	20.60	19.19
		2640.3(41093)	21.47	20.45	19.18
		2593 (40620)	21.76	20.69	19.39
		2545.8(40148)	21.23	20.25	19.01
		2498.5 (39675)	21.68	20.82	19.36
	1RB-Low (0)	2687.5 (41565)	21.69	20.51	19.09
		2640.3(41093)	21.55	20.52	19.09
		2593 (40620)	21.53	20.65	19.21
		2545.8(40148)	21.37	20.24	18.79
		2498.5 (39675)	21.68	20.73	19.27
	12RB-High (13)	2687.5 (41565)	20.70	19.70	18.60
		2640.3(41093)	20.42	19.31	18.57
		2593 (40620)	20.53	19.73	18.53
		2545.8(40148)	20.19	19.27	18.31
		2498.5 (39675)	20.73	19.70	18.69
	12RB-Middle (6)	2687.5 (41565)	20.66	19.74	18.76
		2640.3(41093)	20.47	19.58	18.50
		2593 (40620)	20.61	19.76	18.64
		2545.8(40148)	20.29	19.41	18.23
		2498.5 (39675)	20.76	19.86	18.79
	12RB-Low (0)	2687.5 (41565)	20.58	19.58	18.63
		2640.3(41093)	20.43	19.56	18.52
		2593 (40620)	20.67	19.67	18.75
		2545.8(40148)	20.13	19.26	18.32
		2498.5 (39675)	20.67	19.72	18.71
	25RB (0)	2687.5 (41565)	20.60	19.56	18.60
		2640.3(41093)	20.56	19.40	18.64
		2593 (40620)	20.71	19.75	18.59
		2545.8(40148)	20.29	19.34	18.26
		2498.5 (39675)	20.65	19.83	18.70

10MHz	1RB-High (49)	2685 (41540)	21.64	20.55	19.10
		2639(41080)	21.28	20.27	18.94
		2593 (40620)	21.66	20.65	19.22
		2547(40160)	21.24	20.18	18.94
		2501 (39700)	21.63	20.60	19.15
	1RB-Middle (24)	2685 (41540)	21.66	20.66	19.22
		2639(41080)	21.56	20.58	18.98
		2593 (40620)	21.73	20.70	19.32
		2547(40160)	21.29	20.37	19.01
		2501 (39700)	21.67	20.77	19.45
	1RB-Low (0)	2685 (41540)	21.55	20.62	19.27
		2639(41080)	21.57	20.50	19.13
		2593 (40620)	21.52	20.54	19.17
		2547(40160)	21.38	20.21	18.96
		2501 (39700)	21.74	20.55	19.28
	25RB-High (25)	2685 (41540)	20.60	19.54	18.61
		2639(41080)	20.33	19.33	18.55
		2593 (40620)	20.55	19.59	18.69
		2547(40160)	20.33	19.39	18.26
		2501 (39700)	20.74	19.63	18.78
	25RB-Middle (12)	2685 (41540)	20.55	19.67	18.58
		2639(41080)	20.47	19.42	18.59
		2593 (40620)	20.54	19.79	18.68
		2547(40160)	20.35	19.42	18.25
		2501 (39700)	20.59	19.84	18.83
	25RB-Low (0)	2685 (41540)	20.52	19.72	18.58
		2639(41080)	20.50	19.52	18.51
		2593 (40620)	20.65	19.81	18.66
		2547(40160)	20.13	19.33	18.32
		2501 (39700)	20.69	19.84	18.69
	50RB (0)	2685 (41540)	20.55	19.59	18.74
		2639(41080)	20.50	19.43	18.54
		2593 (40620)	20.72	19.63	18.69
		2547(40160)	20.16	19.23	18.22
		2501 (39700)	20.75	19.84	18.82

15MHz	1RB-High (74)	2682.5 (41515)	21.49	20.65	19.27
		2637.8(41068)	21.41	20.35	18.84
		2593 (40620)	21.79	20.58	19.24
		2548.3(40173)	21.25	20.14	18.90
		2503.5 (39725)	21.71	20.43	19.23
	1RB-Middle (37)	2682.5 (41515)	21.64	20.58	19.30
		2637.8(41068)	21.47	20.43	19.00
		2593 (40620)	21.74	20.66	19.24
		2548.3(40173)	21.31	20.31	18.83
		2503.5 (39725)	21.78	20.67	19.46
	1RB-Low (0)	2682.5 (41515)	21.52	20.49	19.10
		2637.8(41068)	21.52	20.41	19.04
		2593 (40620)	21.52	20.65	19.16
		2548.3(40173)	21.33	20.32	18.85
		2503.5 (39725)	21.60	20.60	19.38
	36RB-High (38)	2682.5 (41515)	20.56	19.59	18.76
		2637.8(41068)	20.32	19.42	18.57
		2593 (40620)	20.65	19.63	18.64
		2548.3(40173)	20.19	19.42	18.24
		2503.5 (39725)	20.74	19.65	18.73
	36RB-Middle (19)	2682.5 (41515)	20.72	19.72	18.60
		2637.8(41068)	20.51	19.58	18.49
		2593 (40620)	20.54	19.60	18.74
		2548.3(40173)	20.28	19.42	18.26
		2503.5 (39725)	20.77	19.78	18.69
	36RB-Low (0)	2682.5 (41515)	20.58	19.55	18.77
		2637.8(41068)	20.46	19.49	18.62
		2593 (40620)	20.70	19.67	18.73
		2548.3(40173)	20.30	19.25	18.30
		2503.5 (39725)	20.72	19.67	18.80
	75RB (0)	2682.5 (41515)	20.70	19.55	18.70
		2637.8(41068)	20.38	19.44	18.60
		2593 (40620)	20.55	19.66	18.63
		2548.3(40173)	20.12	19.20	18.33
		2503.5 (39725)	20.78	19.85	18.65

20MHz	1RB-High (99)	2680 (41490)	21.62	20.64	19.24
		2636.5(41055)	21.40	20.39	18.98
		2593 (40620)	21.81	20.60	19.27
		2549.5(40185)	21.26	20.26	18.90
		2506 (39750)	21.67	20.58	19.26
	1RB-Middle (50)	2680 (41490)	21.72	20.71	19.28
		2636.5(41055)	21.54	20.54	19.13
		2593 (40620)	21.73	20.72	19.39
		2549.5(40185)	21.34	20.34	18.96
		2506 (39750)	21.79	20.77	19.46
	1RB-Low (0)	2680 (41490)	21.64	20.64	19.24
		2636.5(41055)	21.56	20.56	19.19
		2593 (40620)	21.63	20.61	19.29
		2549.5(40185)	21.34	20.32	18.94
		2506 (39750)	21.74	20.70	19.37
	50RB-High (50)	2680 (41490)	20.66	19.67	18.71
		2636.5(41055)	20.44	19.45	18.52
		2593 (40620)	20.64	19.69	18.67
		2549.5(40185)	20.34	19.37	18.33
		2506 (39750)	20.71	19.76	18.75
	50RB-Middle (25)	2680 (41490)	20.69	19.70	18.73
		2636.5(41055)	20.52	19.53	18.59
		2593 (40620)	20.69	19.75	18.70
		2549.5(40185)	20.36	19.39	18.35
		2506 (39750)	20.72	19.82	18.81
	50RB-Low (0)	2680 (41490)	20.65	19.67	18.73
		2636.5(41055)	20.57	19.55	18.64
		2593 (40620)	20.73	19.77	18.75
		2549.5(40185)	20.27	19.39	18.30
		2506 (39750)	20.81	19.81	18.82
	100RB (0)	2680 (41490)	20.67	19.68	18.74
		2636.5(41055)	20.52	19.51	18.60
		2593 (40620)	20.69	19.77	18.74
		2549.5(40185)	20.26	19.33	18.33
		2506 (39750)	20.74	19.82	18.79

LTE B41 PC2-Power level A1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	26.80	25.90	24.70
		2640.3(41093)	26.50	25.65	24.40
		2593 (40620)	26.79	25.89	24.65
		2545.8(40148)	26.48	25.58	24.35
		2498.5 (39675)	26.87	25.92	24.72
	1RB-Middle (12)	2687.5 (41565)	26.74	25.76	24.66
		2640.3(41093)	26.42	25.47	24.35
		2593 (40620)	26.69	25.77	24.67
		2545.8(40148)	26.31	25.49	24.32
		2498.5 (39675)	26.81	25.88	24.73
	1RB-Low (0)	2687.5 (41565)	26.83	25.92	24.72
		2640.3(41093)	26.54	25.69	24.42
		2593 (40620)	26.87	25.92	24.74
		2545.8(40148)	26.47	25.54	24.38
		2498.5 (39675)	26.95	25.90	24.78
	12RB-High (13)	2687.5 (41565)	25.58	24.70	23.78
		2640.3(41093)	25.31	24.44	23.47
		2593 (40620)	25.59	24.68	23.75
		2545.8(40148)	25.32	24.35	23.38
		2498.5 (39675)	25.74	24.76	23.82
	12RB-Middle (6)	2687.5 (41565)	25.58	24.73	23.74
		2640.3(41093)	25.25	24.38	23.45
		2593 (40620)	25.54	24.68	23.70
		2545.8(40148)	25.35	24.35	23.36
		2498.5 (39675)	25.76	24.76	23.81
	12RB-Low (0)	2687.5 (41565)	25.63	24.76	23.80
		2640.3(41093)	25.35	24.44	23.50
		2593 (40620)	25.62	24.73	23.78
		2545.8(40148)	25.37	24.40	23.41
		2498.5 (39675)	25.81	24.81	23.86
	25RB (0)	2687.5 (41565)	25.62	24.75	23.80
		2640.3(41093)	25.32	24.48	23.49
		2593 (40620)	25.59	24.78	23.78
		2545.8(40148)	25.36	24.40	23.42
		2498.5 (39675)	25.74	24.81	23.81

10MHz	1RB-High (49)	2685 (41540)	26.71	25.90	24.69
		2639(41080)	26.45	25.63	24.39
		2593 (40620)	26.71	25.82	24.63
		2547(40160)	26.43	25.53	24.32
		2501 (39700)	26.78	25.87	24.69
	1RB-Middle (24)	2685 (41540)	26.66	25.79	24.64
		2639(41080)	26.33	25.50	24.34
		2593 (40620)	26.64	25.77	24.65
		2547(40160)	26.30	25.54	24.31
		2501 (39700)	26.70	25.90	24.68
	1RB-Low (0)	2685 (41540)	26.76	25.94	24.70
		2639(41080)	26.47	25.69	24.43
		2593 (40620)	26.80	25.97	24.70
		2547(40160)	26.46	25.55	24.36
		2501 (39700)	26.91	25.93	24.73
	25RB-High (25)	2685 (41540)	25.58	24.75	23.79
		2639(41080)	25.31	24.43	23.48
		2593 (40620)	25.56	24.72	23.75
		2547(40160)	25.34	24.39	23.41
		2501 (39700)	25.70	24.73	23.79
	25RB-Middle (12)	2685 (41540)	25.57	24.75	23.81
		2639(41080)	25.26	24.43	23.49
		2593 (40620)	25.55	24.72	23.77
		2547(40160)	25.35	24.40	23.45
		2501 (39700)	25.75	24.81	23.83
	25RB-Low (0)	2685 (41540)	25.62	24.77	23.77
		2639(41080)	25.32	24.49	23.51
		2593 (40620)	25.60	24.77	23.79
		2547(40160)	25.35	24.40	23.43
		2501 (39700)	25.77	24.82	23.87
	50RB (0)	2685 (41540)	25.62	24.77	23.76
		2639(41080)	25.31	24.47	23.46
		2593 (40620)	25.60	24.78	23.74
		2547(40160)	25.38	24.42	23.40
		2501 (39700)	25.79	24.83	23.81

15MHz	1RB-High (74)	2682.5 (41515)	26.55	25.70	24.57
		2637.8(41068)	26.27	25.43	24.28
		2593 (40620)	26.49	25.68	24.51
		2548.3(40173)	26.29	25.50	24.31
		2503.5 (39725)	26.55	25.75	24.54
	1RB-Middle (37)	2682.5 (41515)	26.56	25.69	24.59
		2637.8(41068)	26.31	25.46	24.34
		2593 (40620)	26.61	25.73	24.64
		2548.3(40173)	26.27	25.53	24.32
		2503.5 (39725)	26.62	25.87	24.65
	1RB-Low (0)	2682.5 (41515)	26.57	25.71	24.58
		2637.8(41068)	26.36	25.54	24.41
		2593 (40620)	26.58	25.76	24.62
		2548.3(40173)	26.28	25.50	24.27
		2503.5 (39725)	26.63	25.83	24.65
	36RB-High (38)	2682.5 (41515)	25.54	24.66	23.68
		2637.8(41068)	25.25	24.37	23.41
		2593 (40620)	25.51	24.62	23.66
		2548.3(40173)	25.34	24.35	23.36
		2503.5 (39725)	25.64	24.63	23.66
	36RB-Middle (19)	2682.5 (41515)	25.53	24.66	23.67
		2637.8(41068)	25.27	24.39	23.39
		2593 (40620)	25.56	24.68	23.71
		2548.3(40173)	25.30	24.30	23.32
		2503.5 (39725)	25.68	24.67	23.69
	36RB-Low (0)	2682.5 (41515)	25.52	24.63	23.66
		2637.8(41068)	25.32	24.44	23.44
		2593 (40620)	25.55	24.67	23.69
		2548.3(40173)	25.30	24.30	23.34
		2503.5 (39725)	25.73	24.73	23.78
	75RB (0)	2682.5 (41515)	25.56	24.71	23.71
		2637.8(41068)	25.30	24.45	23.43
		2593 (40620)	25.56	24.70	23.69
		2548.3(40173)	25.34	24.36	23.34
		2503.5 (39725)	25.68	24.70	23.71

20MHz	1RB-High (99)	2680 (41490)	26.61	25.77	24.57
		2636.5(41055)	26.13	25.35	24.17
		2593 (40620)	26.27	25.60	24.26
		2549.5(40185)	26.12	25.26	24.04
		2506 (39750)	26.22	25.40	24.25
	1RB-Middle (50)	2680 (41490)	26.56	25.63	24.52
		2636.5(41055)	26.14	25.26	24.13
		2593 (40620)	26.39	25.49	24.39
		2549.5(40185)	26.03	25.27	24.03
		2506 (39750)	26.31	25.53	24.35
	1RB-Low (0)	2680 (41490)	26.49	25.71	24.49
		2636.5(41055)	26.26	25.45	24.25
		2593 (40620)	26.40	25.62	24.38
		2549.5(40185)	26.04	25.19	23.98
		2506 (39750)	26.46	25.58	24.43
	50RB-High (50)	2680 (41490)	25.56	24.69	23.68
		2636.5(41055)	25.12	24.26	23.25
		2593 (40620)	25.28	24.44	23.40
		2549.5(40185)	25.13	24.16	23.13
		2506 (39750)	25.37	24.40	23.38
	50RB-Middle (25)	2680 (41490)	25.57	24.74	23.69
		2636.5(41055)	25.17	24.34	23.31
		2593 (40620)	25.36	24.50	23.48
		2549.5(40185)	25.11	24.17	23.13
		2506 (39750)	25.46	24.46	23.47
	50RB-Low (0)	2680 (41490)	25.55	24.68	23.66
		2636.5(41055)	25.21	24.37	23.33
		2593 (40620)	25.41	24.53	23.50
		2549.5(40185)	25.07	24.12	23.11
		2506 (39750)	25.54	24.55	23.55
	100RB (0)	2680 (41490)	25.55	24.68	23.67
		2636.5(41055)	25.18	24.30	23.29
		2593 (40620)	25.32	24.45	23.44
		2549.5(40185)	25.08	24.09	23.10
		2506 (39750)	25.42	24.45	23.47

LTE B41 PC2-Power level B1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	21.83	20.99	19.65
		2640.3(41093)	21.58	20.74	19.42
		2593 (40620)	21.75	20.91	19.65
		2545.8(40148)	21.42	20.58	19.37
		2498.5 (39675)	21.64	20.82	19.60
	1RB-Middle (12)	2687.5 (41565)	21.87	21.02	19.73
		2640.3(41093)	21.70	20.86	19.53
		2593 (40620)	21.85	21.02	19.78
		2545.8(40148)	21.48	20.63	19.38
		2498.5 (39675)	21.83	20.97	19.74
	1RB-Low (0)	2687.5 (41565)	21.75	20.93	19.62
		2640.3(41093)	21.72	20.89	19.57
		2593 (40620)	21.73	20.93	19.70
		2545.8(40148)	21.44	20.61	19.36
		2498.5 (39675)	21.81	20.97	19.73
	12RB-High (13)	2687.5 (41565)	20.87	19.88	18.89
		2640.3(41093)	20.61	19.64	18.66
		2593 (40620)	20.76	19.88	18.79
		2545.8(40148)	20.41	19.52	18.45
		2498.5 (39675)	20.73	19.80	18.78
	12RB-Middle (6)	2687.5 (41565)	20.83	19.85	18.89
		2640.3(41093)	20.68	19.70	18.72
		2593 (40620)	20.80	19.89	18.82
		2545.8(40148)	20.38	19.50	18.42
		2498.5 (39675)	20.79	19.89	18.80
	12RB-Low (0)	2687.5 (41565)	20.81	19.80	18.86
		2640.3(41093)	20.70	19.72	18.75
		2593 (40620)	20.83	19.95	18.84
		2545.8(40148)	20.38	19.49	18.46
		2498.5 (39675)	20.84	19.92	18.83
	25RB (0)	2687.5 (41565)	20.82	19.81	18.88
		2640.3(41093)	20.66	19.66	18.70
		2593 (40620)	20.80	19.87	18.85
		2545.8(40148)	20.39	19.49	18.46
		2498.5 (39675)	20.78	19.85	18.80

10MHz	1RB-High (49)	2685 (41540)	21.83	20.99	19.65
		2639(41080)	21.58	20.74	19.42
		2593 (40620)	21.75	20.91	19.65
		2547(40160)	21.42	20.58	19.37
		2501 (39700)	21.64	20.82	19.60
	1RB-Middle (24)	2685 (41540)	21.87	21.02	19.73
		2639(41080)	21.70	20.86	19.53
		2593 (40620)	21.85	21.02	19.78
		2547(40160)	21.48	20.63	19.38
		2501 (39700)	21.83	20.97	19.74
	1RB-Low (0)	2685 (41540)	21.75	20.93	19.62
		2639(41080)	21.72	20.89	19.57
		2593 (40620)	21.73	20.93	19.70
		2547(40160)	21.44	20.61	19.36
		2501 (39700)	21.81	20.97	19.73
	25RB-High (25)	2685 (41540)	20.87	19.88	18.89
		2639(41080)	20.61	19.64	18.66
		2593 (40620)	20.76	19.88	18.79
		2547(40160)	20.41	19.52	18.45
		2501 (39700)	20.73	19.80	18.78
	25RB-Middle (12)	2685 (41540)	20.83	19.85	18.89
		2639(41080)	20.68	19.70	18.72
		2593 (40620)	20.80	19.89	18.82
		2547(40160)	20.38	19.50	18.42
		2501 (39700)	20.79	19.89	18.80
	25RB-Low (0)	2685 (41540)	20.81	19.80	18.86
		2639(41080)	20.70	19.72	18.75
		2593 (40620)	20.83	19.95	18.84
		2547(40160)	20.38	19.49	18.46
		2501 (39700)	20.84	19.92	18.83
	50RB (0)	2685 (41540)	20.82	19.81	18.88
		2639(41080)	20.66	19.66	18.70
		2593 (40620)	20.80	19.87	18.85
		2547(40160)	20.39	19.49	18.46
		2501 (39700)	20.78	19.85	18.80

15MHz	1RB-High (74)	2682.5 (41515)	21.83	20.99	19.65
		2637.8(41068)	21.58	20.74	19.42
		2593 (40620)	21.75	20.91	19.65
		2548.3(40173)	21.42	20.58	19.37
		2503.5 (39725)	21.64	20.82	19.60
	1RB-Middle (37)	2682.5 (41515)	21.87	21.02	19.73
		2637.8(41068)	21.70	20.86	19.53
		2593 (40620)	21.85	21.02	19.78
		2548.3(40173)	21.48	20.63	19.38
		2503.5 (39725)	21.83	20.97	19.74
	1RB-Low (0)	2682.5 (41515)	21.75	20.93	19.62
		2637.8(41068)	21.72	20.89	19.57
		2593 (40620)	21.73	20.93	19.70
		2548.3(40173)	21.44	20.61	19.36
		2503.5 (39725)	21.81	20.97	19.73
	36RB-High (38)	2682.5 (41515)	20.87	19.88	18.89
		2637.8(41068)	20.61	19.64	18.66
		2593 (40620)	20.76	19.88	18.79
		2548.3(40173)	20.41	19.52	18.45
		2503.5 (39725)	20.73	19.80	18.78
	36RB-Middle (19)	2682.5 (41515)	20.83	19.85	18.89
		2637.8(41068)	20.68	19.70	18.72
		2593 (40620)	20.80	19.89	18.82
		2548.3(40173)	20.38	19.50	18.42
		2503.5 (39725)	20.79	19.89	18.80
	36RB-Low (0)	2682.5 (41515)	20.81	19.80	18.86
		2637.8(41068)	20.70	19.72	18.75
		2593 (40620)	20.83	19.95	18.84
		2548.3(40173)	20.38	19.49	18.46
		2503.5 (39725)	20.84	19.92	18.83
	75RB (0)	2682.5 (41515)	20.82	19.81	18.88
		2637.8(41068)	20.66	19.66	18.70
		2593 (40620)	20.80	19.87	18.85
		2548.3(40173)	20.39	19.49	18.46
		2503.5 (39725)	20.78	19.85	18.80

20MHz	1RB-High (99)	2680 (41490)	21.83	20.99	19.65
		2636.5(41055)	21.58	20.74	19.42
		2593 (40620)	21.75	20.91	19.65
		2549.5(40185)	21.42	20.58	19.37
		2506 (39750)	21.64	20.82	19.60
	1RB-Middle (50)	2680 (41490)	21.87	21.02	19.73
		2636.5(41055)	21.70	20.86	19.53
		2593 (40620)	21.85	21.02	19.78
		2549.5(40185)	21.48	20.63	19.38
		2506 (39750)	21.83	20.97	19.74
	1RB-Low (0)	2680 (41490)	21.75	20.93	19.62
		2636.5(41055)	21.72	20.89	19.57
		2593 (40620)	21.73	20.93	19.70
		2549.5(40185)	21.44	20.61	19.36
		2506 (39750)	21.81	20.97	19.73
	50RB-High (50)	2680 (41490)	20.87	19.88	18.89
		2636.5(41055)	20.61	19.64	18.66
		2593 (40620)	20.76	19.88	18.79
		2549.5(40185)	20.41	19.52	18.45
		2506 (39750)	20.73	19.80	18.78
	50RB-Middle (25)	2680 (41490)	20.83	19.85	18.89
		2636.5(41055)	20.68	19.70	18.72
		2593 (40620)	20.80	19.89	18.82
		2549.5(40185)	20.38	19.50	18.42
		2506 (39750)	20.79	19.89	18.80
	50RB-Low (0)	2680 (41490)	20.81	19.80	18.86
		2636.5(41055)	20.70	19.72	18.75
		2593 (40620)	20.83	19.95	18.84
		2549.5(40185)	20.38	19.49	18.46
		2506 (39750)	20.84	19.92	18.83
	100RB (0)	2680 (41490)	20.82	19.81	18.88
		2636.5(41055)	20.66	19.66	18.70
		2593 (40620)	20.80	19.87	18.85
		2549.5(40185)	20.39	19.49	18.46
		2506 (39750)	20.78	19.85	18.80

LTE B41 PC2-Power level C1/D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	18.47	17.75	16.53
		2640.3(41093)	18.41	17.47	16.22
		2593 (40620)	18.53	17.72	16.57
		2545.8(40148)	18.25	17.48	16.12
		2498.5 (39675)	18.61	17.75	16.45
	1RB-Middle (12)	2687.5 (41565)	18.70	17.86	16.55
		2640.3(41093)	18.39	17.68	16.42
		2593 (40620)	18.75	17.81	16.66
		2545.8(40148)	18.28	17.43	16.30
		2498.5 (39675)	18.78	17.86	16.59
	1RB-Low (0)	2687.5 (41565)	18.53	17.79	16.36
		2640.3(41093)	18.50	17.79	16.34
		2593 (40620)	18.48	17.72	16.50
		2545.8(40148)	18.17	17.43	16.08
		2498.5 (39675)	18.71	17.80	16.51
	12RB-High (13)	2687.5 (41565)	17.59	16.72	15.65
		2640.3(41093)	17.49	16.46	15.34
		2593 (40620)	17.68	16.54	15.58
		2545.8(40148)	17.34	16.26	15.32
		2498.5 (39675)	17.63	16.75	15.71
	12RB-Middle (6)	2687.5 (41565)	17.67	16.71	15.75
		2640.3(41093)	17.39	16.40	15.57
		2593 (40620)	17.56	16.73	15.65
		2545.8(40148)	17.26	16.29	15.27
		2498.5 (39675)	17.65	16.83	15.62
	12RB-Low (0)	2687.5 (41565)	17.50	16.75	15.62
		2640.3(41093)	17.46	16.44	15.41
		2593 (40620)	17.56	16.62	15.70
		2545.8(40148)	17.28	16.23	15.18
		2498.5 (39675)	17.82	16.70	15.84
	25RB (0)	2687.5 (41565)	17.55	16.62	15.55
		2640.3(41093)	17.52	16.54	15.48
		2593 (40620)	17.66	16.60	15.65
		2545.8(40148)	17.24	16.21	15.33
		2498.5 (39675)	17.71	16.73	15.72

10MHz	1RB-High (49)	2685 (41540)	18.51	17.65	16.44
		2639(41080)	18.34	17.63	16.29
		2593 (40620)	18.58	17.84	16.53
		2547(40160)	18.14	17.46	16.18
		2501 (39700)	18.54	17.86	16.45
	1RB-Middle (24)	2685 (41540)	18.60	17.84	16.48
		2639(41080)	18.49	17.62	16.33
		2593 (40620)	18.79	17.77	16.63
		2547(40160)	18.30	17.56	16.33
		2501 (39700)	18.81	17.93	16.61
	1RB-Low (0)	2685 (41540)	18.50	17.73	16.46
		2639(41080)	18.47	17.63	16.37
		2593 (40620)	18.60	17.76	16.44
		2547(40160)	18.30	17.37	16.21
		2501 (39700)	18.61	17.90	16.59
	25RB-High (25)	2685 (41540)	17.57	16.74	15.57
		2639(41080)	17.32	16.40	15.51
		2593 (40620)	17.49	16.63	15.53
		2547(40160)	17.35	16.37	15.25
		2501 (39700)	17.56	16.60	15.64
	25RB-Middle (12)	2685 (41540)	17.71	16.75	15.64
		2639(41080)	17.56	16.58	15.38
		2593 (40620)	17.57	16.55	15.65
		2547(40160)	17.19	16.22	15.16
		2501 (39700)	17.67	16.76	15.69
	25RB-Low (0)	2685 (41540)	17.52	16.68	15.58
		2639(41080)	17.54	16.47	15.60
		2593 (40620)	17.56	16.77	15.66
		2547(40160)	17.32	16.21	15.20
		2501 (39700)	17.62	16.80	15.70
	50RB (0)	2685 (41540)	17.67	16.56	15.54
		2639(41080)	17.42	16.55	15.54
		2593 (40620)	17.66	16.67	15.60
		2547(40160)	17.32	16.38	15.26
		2501 (39700)	17.66	16.66	15.73

15MHz	1RB-High (74)	2682.5 (41515)	18.63	17.74	16.41
		2637.8(41068)	18.35	17.47	16.33
		2593 (40620)	18.51	17.78	16.54
		2548.3(40173)	18.23	17.52	16.08
		2503.5 (39725)	18.66	17.86	16.44
	1RB-Middle (37)	2682.5 (41515)	18.67	17.89	16.61
		2637.8(41068)	18.48	17.78	16.46
		2593 (40620)	18.69	17.84	16.54
		2548.3(40173)	18.32	17.50	16.17
		2503.5 (39725)	18.75	17.87	16.60
	1RB-Low (0)	2682.5 (41515)	18.56	17.72	16.53
		2637.8(41068)	18.43	17.63	16.43
		2593 (40620)	18.51	17.86	16.49
		2548.3(40173)	18.35	17.47	16.23
		2503.5 (39725)	18.69	17.84	16.56
	36RB-High (38)	2682.5 (41515)	17.60	16.70	15.53
		2637.8(41068)	17.29	16.49	15.46
		2593 (40620)	17.63	16.69	15.66
		2548.3(40173)	17.24	16.36	15.24
		2503.5 (39725)	17.56	16.62	15.75
	36RB-Middle (19)	2682.5 (41515)	17.51	16.71	15.61
		2637.8(41068)	17.41	16.53	15.48
		2593 (40620)	17.60	16.63	15.59
		2548.3(40173)	17.33	16.36	15.31
		2503.5 (39725)	17.69	16.80	15.70
	36RB-Low (0)	2682.5 (41515)	17.65	16.65	15.65
		2637.8(41068)	17.53	16.61	15.48
		2593 (40620)	17.60	16.63	15.57
		2548.3(40173)	17.24	16.34	15.20
		2503.5 (39725)	17.79	16.83	15.84
	75RB (0)	2682.5 (41515)	17.60	16.63	15.60
		2637.8(41068)	17.55	16.36	15.41
		2593 (40620)	17.69	16.69	15.57
		2548.3(40173)	17.25	16.29	15.20
		2503.5 (39725)	17.70	16.58	15.79

20MHz	1RB-High (99)	2680 (41490)	18.58	17.78	16.51
		2636.5(41055)	18.39	17.61	16.32
		2593 (40620)	18.60	17.81	16.54
		2549.5(40185)	18.29	17.51	16.22
		2506 (39750)	18.61	17.83	16.53
	1RB-Middle (50)	2680 (41490)	18.68	17.87	16.58
		2636.5(41055)	18.54	17.74	16.45
		2593 (40620)	18.74	17.92	16.62
		2549.5(40185)	18.38	17.55	16.28
		2506 (39750)	18.77	17.97	16.68
	1RB-Low (0)	2680 (41490)	18.58	17.76	16.50
		2636.5(41055)	18.56	17.75	16.47
		2593 (40620)	18.63	17.83	16.51
		2549.5(40185)	18.31	17.51	16.23
		2506 (39750)	18.72	17.91	16.62
	50RB-High (50)	2680 (41490)	17.65	16.70	15.67
		2636.5(41055)	17.44	16.45	15.48
		2593 (40620)	17.63	16.68	15.65
		2549.5(40185)	17.35	16.35	15.33
		2506 (39750)	17.66	16.72	15.70
	50RB-Middle (25)	2680 (41490)	17.66	16.72	15.71
		2636.5(41055)	17.52	16.55	15.53
		2593 (40620)	17.65	16.70	15.67
		2549.5(40185)	17.29	16.34	15.31
		2506 (39750)	17.74	16.78	15.73
	50RB-Low (0)	2680 (41490)	17.62	16.70	15.65
		2636.5(41055)	17.56	16.59	15.55
		2593 (40620)	17.67	16.73	15.70
		2549.5(40185)	17.31	16.36	15.28
		2506 (39750)	17.77	16.81	15.79
	100RB (0)	2680 (41490)	17.67	16.67	15.64
		2636.5(41055)	17.53	16.50	15.54
		2593 (40620)	17.67	16.69	15.69
		2549.5(40185)	17.28	16.33	15.32
		2506 (39750)	17.71	16.73	15.76

LTE B41 PC2-Power level E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	2687.5 (41565)	24.54	23.81	22.50
		2640.3(41093)	24.41	23.47	22.36
		2593 (40620)	24.50	23.86	22.53
		2545.8(40148)	24.34	23.50	22.02
		2498.5 (39675)	24.56	23.72	22.43
	1RB-Middle (12)	2687.5 (41565)	24.87	23.93	22.65
		2640.3(41093)	24.61	23.62	22.46
		2593 (40620)	24.84	23.81	22.59
		2545.8(40148)	24.45	23.46	22.23
		2498.5 (39675)	24.68	24.01	22.77
	1RB-Low (0)	2687.5 (41565)	24.62	23.73	22.42
		2640.3(41093)	24.58	23.68	22.44
		2593 (40620)	24.57	23.70	22.62
		2545.8(40148)	24.37	23.39	22.16
		2498.5 (39675)	24.69	23.78	22.59
	12RB-High (13)	2687.5 (41565)	23.74	22.73	21.62
		2640.3(41093)	23.55	22.52	21.55
		2593 (40620)	23.63	22.63	21.64
		2545.8(40148)	23.33	22.34	21.30
		2498.5 (39675)	23.76	22.70	21.65
	12RB-Middle (6)	2687.5 (41565)	23.73	22.66	21.74
		2640.3(41093)	23.59	22.50	21.52
		2593 (40620)	23.69	22.76	21.67
		2545.8(40148)	23.26	22.31	21.31
		2498.5 (39675)	23.76	22.74	21.64
	12RB-Low (0)	2687.5 (41565)	23.58	22.65	21.64
		2640.3(41093)	23.62	22.66	21.53
		2593 (40620)	23.66	22.71	21.73
		2545.8(40148)	23.32	22.28	21.27
		2498.5 (39675)	23.70	22.85	21.73
	25RB (0)	2687.5 (41565)	23.62	22.61	21.69
		2640.3(41093)	23.44	22.59	21.40
		2593 (40620)	23.76	22.68	21.56
		2545.8(40148)	23.37	22.22	21.33
		2498.5 (39675)	23.69	22.78	21.82

10MHz	1RB-High (49)	2685 (41540)	24.53	23.85	22.55
		2639(41080)	24.46	23.54	22.29
		2593 (40620)	24.50	23.76	22.54
		2547(40160)	24.32	23.39	22.05
		2501 (39700)	24.65	23.69	22.39
	1RB-Middle (24)	2685 (41540)	24.79	23.78	22.47
		2639(41080)	24.51	23.71	22.41
		2593 (40620)	24.67	23.82	22.70
		2547(40160)	24.40	23.41	22.08
		2501 (39700)	24.88	23.92	22.70
	1RB-Low (0)	2685 (41540)	24.63	23.85	22.59
		2639(41080)	24.59	23.70	22.50
		2593 (40620)	24.70	23.73	22.53
		2547(40160)	24.33	23.46	22.10
		2501 (39700)	24.68	23.90	22.68
	25RB-High (25)	2685 (41540)	23.70	22.76	21.66
		2639(41080)	23.52	22.41	21.39
		2593 (40620)	23.60	22.77	21.60
		2547(40160)	23.31	22.40	21.24
		2501 (39700)	23.62	22.67	21.78
	25RB-Middle (12)	2685 (41540)	23.71	22.70	21.77
		2639(41080)	23.54	22.48	21.59
		2593 (40620)	23.64	22.63	21.57
		2547(40160)	23.42	22.26	21.24
		2501 (39700)	23.77	22.81	21.69
	25RB-Low (0)	2685 (41540)	23.61	22.75	21.56
		2639(41080)	23.53	22.60	21.67
		2593 (40620)	23.60	22.69	21.63
		2547(40160)	23.30	22.38	21.30
		2501 (39700)	23.69	22.78	21.72
	50RB (0)	2685 (41540)	23.67	22.65	21.60
		2639(41080)	23.60	22.47	21.44
		2593 (40620)	23.59	22.64	21.63
		2547(40160)	23.31	22.39	21.31
		2501 (39700)	23.69	22.75	21.66

15MHz	1RB-High (74)	2682.5 (41515)	24.52	23.74	22.52
		2637.8(41068)	24.41	23.49	22.35
		2593 (40620)	24.64	23.84	22.47
		2548.3(40173)	24.19	23.32	22.17
		2503.5 (39725)	24.53	23.87	22.51
	1RB-Middle (37)	2682.5 (41515)	24.80	23.87	22.57
		2637.8(41068)	24.59	23.62	22.35
		2593 (40620)	24.79	23.88	22.60
		2548.3(40173)	24.34	23.49	22.25
		2503.5 (39725)	24.75	23.96	22.75
	1RB-Low (0)	2682.5 (41515)	24.54	23.78	22.45
		2637.8(41068)	24.61	23.66	22.43
		2593 (40620)	24.71	23.81	22.62
		2548.3(40173)	24.26	23.55	22.23
		2503.5 (39725)	24.64	23.76	22.64
	36RB-High (38)	2682.5 (41515)	23.66	22.75	21.60
		2637.8(41068)	23.55	22.46	21.39
		2593 (40620)	23.61	22.72	21.54
		2548.3(40173)	23.29	22.29	21.29
		2503.5 (39725)	23.66	22.68	21.71
	36RB-Middle (19)	2682.5 (41515)	23.83	22.77	21.76
		2637.8(41068)	23.48	22.64	21.52
		2593 (40620)	23.76	22.76	21.65
		2548.3(40173)	23.41	22.38	21.23
		2503.5 (39725)	23.72	22.82	21.75
	36RB-Low (0)	2682.5 (41515)	23.57	22.71	21.69
		2637.8(41068)	23.56	22.55	21.65
		2593 (40620)	23.71	22.71	21.65
		2548.3(40173)	23.29	22.29	21.20
		2503.5 (39725)	23.76	22.81	21.70
	75RB (0)	2682.5 (41515)	23.66	22.78	21.73
		2637.8(41068)	23.55	22.48	21.56
		2593 (40620)	23.72	22.66	21.74
		2548.3(40173)	23.37	22.22	21.27
		2503.5 (39725)	23.70	22.80	21.85

20MHz	1RB-High (99)	2680 (41490)	24.66	23.82	22.55
		2636.5(41055)	24.42	23.59	22.31
		2593 (40620)	24.65	23.81	22.52
		2549.5(40185)	24.34	23.47	22.17
		2506 (39750)	24.66	23.82	22.54
	1RB-Middle (50)	2680 (41490)	24.86	23.88	22.61
		2636.5(41055)	24.58	23.76	22.48
		2593 (40620)	24.79	23.95	22.66
		2549.5(40185)	24.40	23.56	22.21
		2506 (39750)	24.83	24.01	22.73
	1RB-Low (0)	2680 (41490)	24.67	23.81	22.57
		2636.5(41055)	24.60	23.74	22.51
		2593 (40620)	24.67	23.83	22.57
		2549.5(40185)	24.36	23.54	22.25
		2506 (39750)	24.76	23.91	22.63
	50RB-High (50)	2680 (41490)	23.70	22.76	21.69
		2636.5(41055)	23.55	22.56	21.50
		2593 (40620)	23.71	22.77	21.67
		2549.5(40185)	23.36	22.43	21.35
		2506 (39750)	23.77	22.79	21.76
	50RB-Middle (25)	2680 (41490)	23.85	22.78	21.74
		2636.5(41055)	23.58	22.60	21.57
		2593 (40620)	23.73	22.78	21.69
		2549.5(40185)	23.41	22.37	21.36
		2506 (39750)	23.83	22.86	21.78
	50RB-Low (0)	2680 (41490)	23.72	22.74	21.69
		2636.5(41055)	23.67	22.68	21.64
		2593 (40620)	23.73	22.79	21.75
		2549.5(40185)	23.33	22.37	21.33
		2506 (39750)	23.83	22.87	21.84
	100RB (0)	2680 (41490)	23.74	22.73	21.73
		2636.5(41055)	23.58	22.58	21.53
		2593 (40620)	23.74	22.77	21.69
		2549.5(40185)	23.37	22.36	21.32
		2506 (39750)	23.83	22.81	21.81

LTE B66 ANT1-Power level A1/C1/D1/E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	22.76	22.01	21.01
		1745 (132322)	22.77	22.02	20.87
		1710.7 (131979)	22.74	22.00	20.93
	1RB-Middle (3)	1779.3 (132665)	22.80	22.02	20.95
		1745 (132322)	22.84	22.01	20.94
		1710.7 (131979)	22.79	22.09	20.83
	1RB-Low (0)	1779.3 (132665)	22.77	22.13	20.96
		1745 (132322)	22.80	22.11	20.97
		1710.7 (131979)	22.73	21.99	20.93
	3RB-High (3)	1779.3 (132665)	22.81	21.74	20.89
		1745 (132322)	22.76	21.75	20.92
		1710.7 (131979)	22.78	21.79	20.84
	3RB-Middle (1)	1779.3 (132665)	22.82	21.79	20.88
		1745 (132322)	22.83	21.80	20.91
		1710.7 (131979)	22.74	21.74	20.84
	3RB-Low (0)	1779.3 (132665)	22.80	21.78	20.84
		1745 (132322)	22.83	21.77	20.88
		1710.7 (131979)	22.73	21.72	20.76
	6RB (0)	1779.3 (132665)	21.80	20.88	19.83
		1745 (132322)	21.79	20.94	19.88
		1710.7 (131979)	21.78	20.83	19.80
3MHz	1RB-High (14)	1778.5 (132657)	22.82	21.96	20.97
		1745 (132322)	22.78	22.14	20.86
		1711.5 (131987)	22.76	22.08	21.01
	1RB-Middle (7)	1778.5 (132657)	22.84	22.09	21.08
		1745 (132322)	22.81	22.02	20.98
		1711.5 (131987)	22.70	22.04	20.90
	1RB-Low (0)	1778.5 (132657)	22.81	22.11	21.02
		1745 (132322)	22.81	22.01	20.97
		1711.5 (131987)	22.72	21.99	20.92
	8RB-High (7)	1778.5 (132657)	21.82	20.88	19.96
		1745 (132322)	21.80	20.84	19.93
		1711.5 (131987)	21.75	20.77	19.78
	8RB-Middle (4)	1778.5 (132657)	21.82	20.88	19.92
		1745 (132322)	21.76	20.81	19.85
		1711.5 (131987)	21.74	20.79	19.86
	8RB-Low (0)	1778.5 (132657)	21.86	20.91	19.94
		1745 (132322)	21.84	20.88	19.92
		1711.5 (131987)	21.76	20.82	19.84
	15RB (0)	1778.5 (132657)	21.83	20.83	19.90
		1745 (132322)	21.83	20.83	19.91
		1711.5 (131987)	21.79	20.78	19.83

5MHz	1RB-High (24)	1777.5 (132647)	22.87	22.11	21.10
		1745 (132322)	22.87	22.18	20.98
		1712.5 (131997)	22.83	22.12	21.06
	1RB-Middle (12)	1777.5 (132647)	22.93	22.10	21.04
		1745 (132322)	22.87	22.13	20.89
		1712.5 (131997)	22.79	22.06	20.93
	1RB-Low (0)	1777.5 (132647)	22.93	22.28	21.19
		1745 (132322)	22.90	22.10	21.07
		1712.5 (131997)	22.83	22.18	21.02
	12RB-High (13)	1777.5 (132647)	21.82	20.81	19.93
		1745 (132322)	21.84	20.83	19.86
		1712.5 (131997)	21.78	20.75	19.82
	12RB-Middle (6)	1777.5 (132647)	21.87	20.81	19.94
		1745 (132322)	21.84	20.78	19.93
		1712.5 (131997)	21.80	20.74	19.82
	12RB-Low (0)	1777.5 (132647)	21.92	20.92	20.03
		1745 (132322)	21.87	20.89	19.99
		1712.5 (131997)	21.80	20.78	19.85
	25RB (0)	1777.5 (132647)	21.89	20.86	19.94
		1745 (132322)	21.86	20.86	19.93
		1712.5 (131997)	21.77	20.80	19.86
10MHz	1RB-High (49)	1775 (132622)	22.84	22.12	20.99
		1745 (132322)	22.88	22.16	21.13
		1715 (132022)	22.81	22.03	21.04
	1RB-Middle (24)	1775 (132622)	22.88	22.11	21.01
		1745 (132322)	22.86	22.22	20.96
		1715 (132022)	22.85	22.18	20.93
	1RB-Low (0)	1775 (132622)	22.96	22.12	21.07
		1745 (132322)	22.93	22.02	21.04
		1715 (132022)	22.81	22.08	20.93
	25RB-High (25)	1775 (132622)	21.81	20.79	19.88
		1745 (132322)	21.82	20.83	19.92
		1715 (132022)	21.78	20.80	19.83
	25RB-Middle (12)	1775 (132622)	21.85	20.87	19.98
		1745 (132322)	21.86	20.85	19.95
		1715 (132022)	21.80	20.80	19.92
	25RB-Low (0)	1775 (132622)	21.91	20.93	19.96
		1745 (132322)	21.91	20.89	19.95
		1715 (132022)	21.78	20.79	19.85
	50RB (0)	1775 (132622)	21.88	20.87	19.98
		1745 (132322)	21.85	20.84	19.91
		1715 (132022)	21.84	20.79	19.87

15MHz	1RB-High (74)	1772.5 (132597)	22.80	22.08	20.95
		1745 (132322)	22.74	22.09	21.01
		1717.5 (132047)	22.76	22.02	20.87
	1RB-Middle (37)	1772.5 (132597)	22.84	22.03	21.03
		1745 (132322)	22.80	22.19	21.00
		1717.5 (132047)	22.76	21.96	20.91
	1RB-Low (0)	1772.5 (132597)	22.86	22.15	21.03
		1745 (132322)	22.76	22.08	21.02
		1717.5 (132047)	22.80	21.99	20.92
	36RB-High (38)	1772.5 (132597)	21.76	20.82	19.91
		1745 (132322)	21.76	20.75	19.92
		1717.5 (132047)	21.77	20.80	19.89
	36RB-Middle (19)	1772.5 (132597)	21.90	20.86	19.97
		1745 (132322)	21.83	20.84	19.90
		1717.5 (132047)	21.78	20.74	19.85
	36RB-Low (0)	1772.5 (132597)	21.87	20.88	19.98
		1745 (132322)	21.88	20.89	19.93
		1717.5 (132047)	21.75	20.78	19.86
	75RB (0)	1772.5 (132597)	21.86	20.82	19.96
		1745 (132322)	21.85	20.84	19.88
		1717.5 (132047)	21.80	20.79	19.80
20MHz	1RB-High (99)	1770 (132572)	23.79	22.97	21.75
		1745 (132322)	23.69	22.92	21.72
		1720 (132072)	23.58	22.74	21.59
	1RB-Middle (50)	1770 (132572)	23.86	22.97	21.85
		1745 (132322)	23.76	22.94	21.82
		1720 (132072)	23.67	22.93	21.75
	1RB-Low (0)	1770 (132572)	23.71	22.80	21.68
		1745 (132322)	23.63	22.87	21.60
		1720 (132072)	23.54	22.78	21.54
	50RB-High (50)	1770 (132572)	22.71	21.70	20.65
		1745 (132322)	22.73	21.67	20.60
		1720 (132072)	22.61	21.57	20.70
	50RB-Middle (25)	1770 (132572)	22.81	21.77	20.70
		1745 (132322)	22.75	21.66	20.60
		1720 (132072)	22.68	21.61	20.73
	50RB-Low (0)	1770 (132572)	22.83	21.77	20.73
		1745 (132322)	22.79	21.70	20.83
		1720 (132072)	22.64	21.61	20.69
	100RB (0)	1770 (132572)	22.74	21.72	20.65
		1745 (132322)	22.74	21.60	20.59
		1720 (132072)	22.67	21.59	20.71

LTE B66 ANT1-Power level B1/F1/E2					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	20.81	20.23	19.22
		1745 (132322)	20.73	20.10	19.06
		1710.7 (131979)	20.67	20.15	18.93
	1RB-Middle (3)	1779.3 (132665)	20.75	20.04	19.02
		1745 (132322)	20.87	20.26	19.04
		1710.7 (131979)	20.70	20.27	19.17
	1RB-Low (0)	1779.3 (132665)	20.75	20.21	19.05
		1745 (132322)	20.68	20.13	18.95
		1710.7 (131979)	20.84	20.16	18.90
	3RB-High (3)	1779.3 (132665)	20.89	20.05	19.10
		1745 (132322)	20.77	19.97	19.03
		1710.7 (131979)	20.74	20.10	19.00
	3RB-Middle (1)	1779.3 (132665)	20.87	20.17	19.07
		1745 (132322)	20.90	20.22	19.03
		1710.7 (131979)	20.74	20.14	19.18
	3RB-Low (0)	1779.3 (132665)	20.75	20.16	18.99
		1745 (132322)	20.62	20.19	18.97
		1710.7 (131979)	20.70	20.10	18.95
	6RB (0)	1779.3 (132665)	19.99	18.83	17.87
		1745 (132322)	19.96	18.93	17.97
		1710.7 (131979)	19.92	19.04	17.82
3MHz	1RB-High (14)	1778.5 (132657)	20.90	20.13	19.25
		1745 (132322)	20.71	20.15	18.98
		1711.5 (131987)	20.63	20.18	19.05
	1RB-Middle (7)	1778.5 (132657)	20.92	20.06	19.02
		1745 (132322)	20.85	20.22	19.10
		1711.5 (131987)	20.80	20.18	19.19
	1RB-Low (0)	1778.5 (132657)	20.72	20.18	18.88
		1745 (132322)	20.73	20.11	18.94
		1711.5 (131987)	20.82	20.14	19.06
	8RB-High (7)	1778.5 (132657)	20.05	18.90	17.88
		1745 (132322)	19.93	18.89	17.89
		1711.5 (131987)	20.07	18.99	17.91
	8RB-Middle (4)	1778.5 (132657)	20.04	18.96	18.08
		1745 (132322)	20.03	19.07	18.01
		1711.5 (131987)	20.05	19.05	17.95
	8RB-Low (0)	1778.5 (132657)	20.15	18.99	18.06
		1745 (132322)	20.12	19.11	18.10
		1711.5 (131987)	19.90	18.87	17.90
	15RB (0)	1778.5 (132657)	20.09	18.91	18.01
		1745 (132322)	19.87	19.04	17.99
		1711.5 (131987)	19.97	18.99	17.87

5MHz	1RB-High (24)	1777.5 (132647)	20.84	20.05	19.21
		1745 (132322)	20.67	19.96	19.02
		1712.5 (131997)	20.70	20.22	18.98
	1RB-Middle (12)	1777.5 (132647)	20.87	20.17	19.03
		1745 (132322)	20.76	20.21	19.00
		1712.5 (131997)	20.69	20.16	19.08
	1RB-Low (0)	1777.5 (132647)	20.63	20.11	18.88
		1745 (132322)	20.73	20.23	18.93
		1712.5 (131997)	20.85	20.10	19.07
	12RB-High (13)	1777.5 (132647)	20.09	19.07	17.97
		1745 (132322)	19.79	18.96	17.82
		1712.5 (131997)	19.95	18.96	17.92
	12RB-Middle (6)	1777.5 (132647)	19.96	19.08	18.00
		1745 (132322)	19.88	18.88	17.92
		1712.5 (131997)	20.14	18.88	17.95
	12RB-Low (0)	1777.5 (132647)	20.03	19.10	17.99
		1745 (132322)	20.12	19.01	17.97
		1712.5 (131997)	19.94	18.97	17.98
	25RB (0)	1777.5 (132647)	20.01	18.88	17.96
		1745 (132322)	19.97	18.91	17.90
		1712.5 (131997)	19.85	19.03	17.92
10MHz	1RB-High (49)	1775 (132622)	20.80	20.20	19.11
		1745 (132322)	20.69	20.07	19.07
		1715 (132022)	20.61	20.11	19.08
	1RB-Middle (24)	1775 (132622)	20.78	20.13	19.09
		1745 (132322)	20.90	20.25	19.07
		1715 (132022)	20.87	20.15	19.10
	1RB-Low (0)	1775 (132622)	20.76	20.05	18.88
		1745 (132322)	20.78	20.25	18.96
		1715 (132022)	20.76	20.16	19.06
	25RB-High (25)	1775 (132622)	20.09	18.92	17.94
		1745 (132322)	19.79	18.85	17.82
		1715 (132022)	20.01	18.86	18.05
	25RB-Middle (12)	1775 (132622)	20.11	19.02	17.93
		1745 (132322)	19.88	19.02	17.93
		1715 (132022)	20.02	19.06	17.90
	25RB-Low (0)	1775 (132622)	19.98	19.06	17.87
		1745 (132322)	19.96	19.05	17.96
		1715 (132022)	19.98	18.92	17.94
	50RB (0)	1775 (132622)	20.05	19.00	17.90
		1745 (132322)	19.89	19.03	18.04
		1715 (132022)	19.87	18.91	17.84

15MHz	1RB-High (74)	1772.5 (132597)	20.88	20.13	19.18
		1745 (132322)	20.76	20.10	18.92
		1717.5 (132047)	20.73	20.09	18.99
	1RB-Middle (37)	1772.5 (132597)	20.86	20.12	19.10
		1745 (132322)	20.84	20.18	18.98
		1717.5 (132047)	20.78	20.14	19.13
	1RB-Low (0)	1772.5 (132597)	20.65	20.21	19.03
		1745 (132322)	20.67	20.21	19.07
		1717.5 (132047)	20.69	20.23	18.90
	36RB-High (38)	1772.5 (132597)	20.10	18.90	17.84
		1745 (132322)	19.81	18.91	17.78
		1717.5 (132047)	20.05	18.95	17.94
	36RB-Middle (19)	1772.5 (132597)	20.01	18.95	17.95
		1745 (132322)	19.84	18.92	18.03
		1717.5 (132047)	20.02	18.92	17.86
	36RB-Low (0)	1772.5 (132597)	20.15	19.01	18.05
		1745 (132322)	20.06	19.11	18.00
		1717.5 (132047)	20.02	18.90	17.93
	75RB (0)	1772.5 (132597)	20.09	19.00	17.99
		1745 (132322)	19.95	18.90	17.92
		1717.5 (132047)	19.86	18.97	17.84
20MHz	1RB-High (99)	1770 (132572)	20.89	20.19	19.23
		1745 (132322)	20.72	20.10	19.05
		1720 (132072)	20.69	20.22	19.07
	1RB-Middle (50)	1770 (132572)	20.90	20.17	19.16
		1745 (132322)	20.87	20.26	19.12
		1720 (132072)	20.82	20.28	19.14
	1RB-Low (0)	1770 (132572)	20.76	20.19	19.00
		1745 (132322)	20.73	20.24	19.05
		1720 (132072)	20.82	20.20	19.04
	50RB-High (50)	1770 (132572)	20.09	19.05	17.95
		1745 (132322)	19.89	18.93	17.88
		1720 (132072)	20.06	18.99	18.00
	50RB-Middle (25)	1770 (132572)	20.08	19.10	18.07
		1745 (132322)	19.99	19.02	18.05
		1720 (132072)	20.11	19.02	17.96
	50RB-Low (0)	1770 (132572)	20.13	19.08	18.02
		1745 (132322)	20.07	19.10	18.07
		1720 (132072)	19.99	18.97	17.96
	100RB (0)	1770 (132572)	20.08	18.98	17.98
		1745 (132322)	19.98	19.00	18.02
		1720 (132072)	19.99	18.99	17.97

LTE B66 ANT1-Power level B2/F2					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	18.43	18.52	18.49
		1745 (132322)	18.28	18.40	18.40
		1710.7 (131979)	18.37	18.46	18.48
	1RB-Middle (3)	1779.3 (132665)	18.41	18.54	18.39
		1745 (132322)	18.40	18.53	18.43
		1710.7 (131979)	18.52	18.54	18.37
	1RB-Low (0)	1779.3 (132665)	18.34	18.44	18.38
		1745 (132322)	18.39	18.46	18.36
		1710.7 (131979)	18.33	18.54	18.42
	3RB-High (3)	1779.3 (132665)	18.20	18.39	18.25
		1745 (132322)	18.33	18.45	18.33
		1710.7 (131979)	18.37	18.39	18.42
	3RB-Middle (1)	1779.3 (132665)	18.23	18.35	18.20
		1745 (132322)	18.43	18.50	18.41
		1710.7 (131979)	18.36	18.38	18.33
	3RB-Low (0)	1779.3 (132665)	18.40	18.41	18.32
		1745 (132322)	18.32	18.44	18.24
		1710.7 (131979)	18.30	18.30	18.34
	6RB (0)	1779.3 (132665)	18.22	18.27	18.21
		1745 (132322)	18.41	18.33	18.38
		1710.7 (131979)	18.47	18.47	18.46
3MHz	1RB-High (14)	1778.5 (132657)	18.43	18.52	18.49
		1745 (132322)	18.28	18.40	18.40
		1711.5 (131987)	18.37	18.46	18.48
	1RB-Middle (7)	1778.5 (132657)	18.41	18.54	18.39
		1745 (132322)	18.40	18.53	18.43
		1711.5 (131987)	18.52	18.54	18.37
	1RB-Low (0)	1778.5 (132657)	18.34	18.44	18.38
		1745 (132322)	18.39	18.46	18.36
		1711.5 (131987)	18.33	18.54	18.42
	8RB-High (7)	1778.5 (132657)	18.20	18.39	18.25
		1745 (132322)	18.33	18.45	18.33
		1711.5 (131987)	18.37	18.39	18.42
	8RB-Middle (4)	1778.5 (132657)	18.23	18.35	18.20
		1745 (132322)	18.43	18.50	18.41
		1711.5 (131987)	18.36	18.38	18.33
	8RB-Low (0)	1778.5 (132657)	18.40	18.41	18.32
		1745 (132322)	18.32	18.44	18.24
		1711.5 (131987)	18.30	18.30	18.34
	15RB (0)	1778.5 (132657)	18.22	18.27	18.21
		1745 (132322)	18.41	18.33	18.38
		1711.5 (131987)	18.47	18.47	18.46

5MHz	1RB-High (24)	1777.5 (132647)	18.43	18.52	18.49
		1745 (132322)	18.28	18.40	18.40
		1712.5 (131997)	18.37	18.46	18.48
	1RB-Middle (12)	1777.5 (132647)	18.41	18.54	18.39
		1745 (132322)	18.40	18.53	18.43
		1712.5 (131997)	18.52	18.54	18.37
	1RB-Low (0)	1777.5 (132647)	18.34	18.44	18.38
		1745 (132322)	18.39	18.46	18.36
		1712.5 (131997)	18.33	18.54	18.42
	12RB-High (13)	1777.5 (132647)	18.20	18.39	18.25
		1745 (132322)	18.33	18.45	18.33
		1712.5 (131997)	18.37	18.39	18.42
	12RB-Middle (6)	1777.5 (132647)	18.23	18.35	18.20
		1745 (132322)	18.43	18.50	18.41
		1712.5 (131997)	18.36	18.38	18.33
	12RB-Low (0)	1777.5 (132647)	18.40	18.41	18.32
		1745 (132322)	18.32	18.44	18.24
		1712.5 (131997)	18.30	18.30	18.34
	25RB (0)	1777.5 (132647)	18.22	18.27	18.21
		1745 (132322)	18.41	18.33	18.38
		1712.5 (131997)	18.47	18.47	18.46
10MHz	1RB-High (49)	1775 (132622)	18.43	18.52	18.49
		1745 (132322)	18.28	18.40	18.40
		1715 (132022)	18.37	18.46	18.48
	1RB-Middle (24)	1775 (132622)	18.41	18.54	18.39
		1745 (132322)	18.40	18.53	18.43
		1715 (132022)	18.52	18.54	18.37
	1RB-Low (0)	1775 (132622)	18.34	18.44	18.38
		1745 (132322)	18.39	18.46	18.36
		1715 (132022)	18.33	18.54	18.42
	25RB-High (25)	1775 (132622)	18.20	18.39	18.25
		1745 (132322)	18.33	18.45	18.33
		1715 (132022)	18.37	18.39	18.42
	25RB-Middle (12)	1775 (132622)	18.23	18.35	18.20
		1745 (132322)	18.43	18.50	18.41
		1715 (132022)	18.36	18.38	18.33
	25RB-Low (0)	1775 (132622)	18.40	18.41	18.32
		1745 (132322)	18.32	18.44	18.24
		1715 (132022)	18.30	18.30	18.34
	50RB (0)	1775 (132622)	18.22	18.27	18.21
		1745 (132322)	18.41	18.33	18.38
		1715 (132022)	18.47	18.47	18.46

15MHz	1RB-High (74)	1772.5 (132597)	18.43	18.52	18.49
		1745 (132322)	18.28	18.40	18.40
		1717.5 (132047)	18.37	18.46	18.48
	1RB-Middle (37)	1772.5 (132597)	18.41	18.54	18.39
		1745 (132322)	18.40	18.53	18.43
		1717.5 (132047)	18.52	18.54	18.37
	1RB-Low (0)	1772.5 (132597)	18.34	18.44	18.38
		1745 (132322)	18.39	18.46	18.36
		1717.5 (132047)	18.33	18.54	18.42
	36RB-High (38)	1772.5 (132597)	18.20	18.39	18.25
		1745 (132322)	18.33	18.45	18.33
		1717.5 (132047)	18.37	18.39	18.42
	36RB-Middle (19)	1772.5 (132597)	18.23	18.35	18.20
		1745 (132322)	18.43	18.50	18.41
		1717.5 (132047)	18.36	18.38	18.33
	36RB-Low (0)	1772.5 (132597)	18.40	18.41	18.32
		1745 (132322)	18.32	18.44	18.24
		1717.5 (132047)	18.30	18.30	18.34
	75RB (0)	1772.5 (132597)	18.22	18.27	18.21
		1745 (132322)	18.41	18.33	18.38
		1717.5 (132047)	18.47	18.47	18.46
20MHz	1RB-High (99)	1770 (132572)	18.45	18.51	18.48
		1745 (132322)	18.36	18.42	18.39
		1720 (132072)	18.44	18.50	18.47
	1RB-Middle (50)	1770 (132572)	18.45	18.51	18.48
		1745 (132322)	18.49	18.55	18.52
		1720 (132072)	18.45	18.50	18.47
	1RB-Low (0)	1770 (132572)	18.39	18.45	18.42
		1745 (132322)	18.43	18.49	18.46
		1720 (132072)	18.45	18.51	18.48
	50RB-High (50)	1770 (132572)	18.32	18.31	18.30
		1745 (132322)	18.43	18.41	18.41
		1720 (132072)	18.45	18.44	18.43
	50RB-Middle (25)	1770 (132572)	18.35	18.33	18.33
		1745 (132322)	18.49	18.47	18.47
		1720 (132072)	18.44	18.42	18.42
	50RB-Low (0)	1770 (132572)	18.44	18.41	18.43
		1745 (132322)	18.39	18.37	18.37
		1720 (132072)	18.38	18.36	18.35
	100RB (0)	1770 (132572)	18.35	18.33	18.33
		1745 (132322)	18.39	18.37	18.37
		1720 (132072)	18.46	18.45	18.44

LTE B66 ANT3-Power level A1/E1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	22.47	21.44	20.39
		1745 (132322)	22.37	21.54	20.54
		1710.7 (131979)	22.38	21.47	20.46
	1RB-Middle (3)	1779.3 (132665)	22.43	21.52	20.47
		1745 (132322)	22.53	21.65	20.58
		1710.7 (131979)	22.38	21.58	20.54
	1RB-Low (0)	1779.3 (132665)	22.44	21.49	20.34
		1745 (132322)	22.42	21.62	20.37
		1710.7 (131979)	22.36	21.48	20.43
	3RB-High (3)	1779.3 (132665)	22.40	21.45	20.46
		1745 (132322)	22.51	21.53	20.53
		1710.7 (131979)	22.47	21.53	20.42
	3RB-Middle (1)	1779.3 (132665)	22.54	21.58	20.47
		1745 (132322)	22.53	21.68	20.60
		1710.7 (131979)	22.53	21.63	20.52
	3RB-Low (0)	1779.3 (132665)	22.43	21.52	20.46
		1745 (132322)	22.40	21.58	20.45
		1710.7 (131979)	22.31	21.41	20.40
	6RB (0)	1779.3 (132665)	21.40	20.42	19.51
		1745 (132322)	21.50	20.46	19.57
		1710.7 (131979)	21.36	20.38	19.52
3MHz	1RB-High (14)	1778.5 (132657)	22.42	21.53	20.33
		1745 (132322)	22.47	21.63	20.56
		1711.5 (131987)	22.37	21.54	20.42
	1RB-Middle (7)	1778.5 (132657)	22.40	21.59	20.45
		1745 (132322)	22.53	21.68	20.49
		1711.5 (131987)	22.52	21.56	20.49
	1RB-Low (0)	1778.5 (132657)	22.34	21.56	20.42
		1745 (132322)	22.33	21.52	20.36
		1711.5 (131987)	22.38	21.45	20.35
	8RB-High (7)	1778.5 (132657)	21.41	20.36	19.42
		1745 (132322)	21.44	20.38	19.45
		1711.5 (131987)	21.40	20.42	19.49
	8RB-Middle (4)	1778.5 (132657)	21.51	20.52	19.53
		1745 (132322)	21.47	20.59	19.59
		1711.5 (131987)	21.40	20.41	19.54
	8RB-Low (0)	1778.5 (132657)	21.43	20.44	19.60
		1745 (132322)	21.56	20.56	19.51
		1711.5 (131987)	21.35	20.44	19.51
	15RB (0)	1778.5 (132657)	21.51	20.41	19.44
		1745 (132322)	21.45	20.44	19.50
		1711.5 (131987)	21.42	20.33	19.39

5MHz	1RB-High (24)	1777.5 (132647)	22.36	21.47	20.36
		1745 (132322)	22.43	21.62	20.48
		1712.5 (131997)	22.49	21.54	20.46
	1RB-Middle (12)	1777.5 (132647)	22.43	21.63	20.46
		1745 (132322)	22.55	21.64	20.55
		1712.5 (131997)	22.50	21.49	20.48
	1RB-Low (0)	1777.5 (132647)	22.30	21.51	20.48
		1745 (132322)	22.44	21.55	20.40
		1712.5 (131997)	22.33	21.43	20.35
	12RB-High (13)	1777.5 (132647)	21.42	20.40	19.46
		1745 (132322)	21.38	20.40	19.43
		1712.5 (131997)	21.42	20.45	19.39
	12RB-Middle (6)	1777.5 (132647)	21.46	20.47	19.49
		1745 (132322)	21.51	20.57	19.66
		1712.5 (131997)	21.43	20.34	19.49
	12RB-Low (0)	1777.5 (132647)	21.51	20.42	19.50
		1745 (132322)	21.47	20.51	19.63
		1712.5 (131997)	21.39	20.42	19.50
	25RB (0)	1777.5 (132647)	21.46	20.43	19.47
		1745 (132322)	21.45	20.47	19.56
		1712.5 (131997)	21.34	20.45	19.40
10MHz	1RB-High (49)	1775 (132622)	22.44	21.47	20.40
		1745 (132322)	22.44	21.64	20.54
		1715 (132022)	22.43	21.54	20.43
	1RB-Middle (24)	1775 (132622)	22.48	21.55	20.51
		1745 (132322)	22.43	21.64	20.46
		1715 (132022)	22.39	21.54	20.54
	1RB-Low (0)	1775 (132622)	22.33	21.56	20.45
		1745 (132322)	22.38	21.48	20.35
		1715 (132022)	22.40	21.48	20.42
	25RB-High (25)	1775 (132622)	21.32	20.29	19.47
		1745 (132322)	21.44	20.39	19.56
		1715 (132022)	21.33	20.41	19.43
	25RB-Middle (12)	1775 (132622)	21.43	20.50	19.53
		1745 (132322)	21.54	20.54	19.54
		1715 (132022)	21.38	20.44	19.55
	25RB-Low (0)	1775 (132622)	21.56	20.53	19.62
		1745 (132322)	21.42	20.48	19.55
		1715 (132022)	21.42	20.45	19.51
	50RB (0)	1775 (132622)	21.48	20.52	19.52
		1745 (132322)	21.44	20.47	19.60
		1715 (132022)	21.32	20.48	19.39

15MHz	1RB-High (74)	1772.5 (132597)	22.35	21.52	20.47
		1745 (132322)	22.38	21.59	20.52
		1717.5 (132047)	22.40	21.47	20.41
	1RB-Middle (37)	1772.5 (132597)	22.49	21.64	20.45
		1745 (132322)	22.48	21.57	20.56
		1717.5 (132047)	22.45	21.61	20.43
	1RB-Low (0)	1772.5 (132597)	22.43	21.46	20.47
		1745 (132322)	22.43	21.56	20.46
		1717.5 (132047)	22.33	21.45	20.34
	36RB-High (38)	1772.5 (132597)	21.30	20.38	19.46
		1745 (132322)	21.41	20.41	19.43
		1717.5 (132047)	21.44	20.36	19.50
	36RB-Middle (19)	1772.5 (132597)	21.42	20.42	19.47
		1745 (132322)	21.49	20.53	19.67
		1717.5 (132047)	21.35	20.40	19.55
	36RB-Low (0)	1772.5 (132597)	21.47	20.46	19.57
		1745 (132322)	21.44	20.45	19.60
		1717.5 (132047)	21.34	20.46	19.45
	75RB (0)	1772.5 (132597)	21.46	20.41	19.53
		1745 (132322)	21.54	20.52	19.57
		1717.5 (132047)	21.43	20.37	19.44
20MHz	1RB-High (99)	1770 (132572)	22.42	21.54	20.42
		1745 (132322)	22.47	21.61	20.52
		1720 (132072)	22.44	21.56	20.48
	1RB-Middle (50)	1770 (132572)	22.50	21.61	20.52
		1745 (132322)	22.53	21.65	20.56
		1720 (132072)	22.48	21.59	20.50
	1RB-Low (0)	1770 (132572)	22.40	21.53	20.43
		1745 (132322)	22.43	21.57	20.45
		1720 (132072)	22.37	21.50	20.40
	50RB-High (50)	1770 (132572)	21.40	20.39	19.46
		1745 (132322)	21.46	20.46	19.53
		1720 (132072)	21.43	20.45	19.49
	50RB-Middle (25)	1770 (132572)	21.50	20.49	19.56
		1745 (132322)	21.54	20.54	19.62
		1720 (132072)	21.43	20.44	19.50
	50RB-Low (0)	1770 (132572)	21.51	20.50	19.57
		1745 (132322)	21.52	20.51	19.59
		1720 (132072)	21.42	20.43	19.47
	100RB (0)	1770 (132572)	21.48	20.47	19.53
		1745 (132322)	21.50	20.48	19.58
		1720 (132072)	21.42	20.43	19.49

LTE B66 ANT3-Power level B1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	20.43	20.58	20.45
		1745 (132322)	20.38	20.45	20.54
		1710.7 (131979)	20.46	20.47	20.46
	1RB-Middle (3)	1779.3 (132665)	20.45	20.63	20.48
		1745 (132322)	20.44	20.64	20.57
		1710.7 (131979)	20.46	20.43	20.54
	1RB-Low (0)	1779.3 (132665)	20.49	20.49	20.39
		1745 (132322)	20.42	20.50	20.58
		1710.7 (131979)	20.48	20.42	20.49
	3RB-High (3)	1779.3 (132665)	20.43	20.42	19.40
		1745 (132322)	20.42	20.39	19.51
		1710.7 (131979)	20.35	20.40	19.53
	3RB-Middle (1)	1779.3 (132665)	20.41	20.43	19.49
		1745 (132322)	20.43	20.54	19.52
		1710.7 (131979)	20.32	20.32	19.47
	3RB-Low (0)	1779.3 (132665)	20.50	20.47	19.64
		1745 (132322)	20.58	20.40	19.60
		1710.7 (131979)	20.41	20.43	19.56
	6RB (0)	1779.3 (132665)	20.35	20.42	19.52
		1745 (132322)	20.42	20.42	19.55
		1710.7 (131979)	20.44	20.35	19.40
3MHz	1RB-High (14)	1778.5 (132657)	20.40	20.56	20.53
		1745 (132322)	20.43	20.52	20.47
		1711.5 (131987)	20.41	20.39	20.41
	1RB-Middle (7)	1778.5 (132657)	20.41	20.65	20.60
		1745 (132322)	20.58	20.51	20.54
		1711.5 (131987)	20.43	20.62	20.50
	1RB-Low (0)	1778.5 (132657)	20.45	20.40	20.43
		1745 (132322)	20.54	20.47	20.39
		1711.5 (131987)	20.39	20.35	20.49
	8RB-High (7)	1778.5 (132657)	20.46	20.33	19.51
		1745 (132322)	20.51	20.45	19.57
		1711.5 (131987)	20.34	20.37	19.54
	8RB-Middle (4)	1778.5 (132657)	20.55	20.37	19.50
		1745 (132322)	20.46	20.58	19.68
		1711.5 (131987)	20.34	20.29	19.53
	8RB-Low (0)	1778.5 (132657)	20.45	20.43	19.65
		1745 (132322)	20.41	20.57	19.51
		1711.5 (131987)	20.30	20.35	19.44
	15RB (0)	1778.5 (132657)	20.39	20.34	19.57
		1745 (132322)	20.45	20.41	19.44
		1711.5 (131987)	20.35	20.33	19.48

5MHz	1RB-High (24)	1777.5 (132647)	20.51	20.51	20.44
		1745 (132322)	20.39	20.51	20.55
		1712.5 (131997)	20.37	20.57	20.44
	1RB-Middle (12)	1777.5 (132647)	20.59	20.47	20.44
		1745 (132322)	20.57	20.50	20.63
		1712.5 (131997)	20.36	20.60	20.52
	1RB-Low (0)	1777.5 (132647)	20.35	20.44	20.48
		1745 (132322)	20.48	20.50	20.58
		1712.5 (131997)	20.38	20.54	20.48
	12RB-High (13)	1777.5 (132647)	20.41	20.42	19.49
		1745 (132322)	20.46	20.38	19.46
		1712.5 (131997)	20.42	20.29	19.40
	12RB-Middle (6)	1777.5 (132647)	20.46	20.35	19.64
		1745 (132322)	20.47	20.39	19.64
		1712.5 (131997)	20.45	20.40	19.38
	12RB-Low (0)	1777.5 (132647)	20.38	20.54	19.64
		1745 (132322)	20.45	20.46	19.60
		1712.5 (131997)	20.37	20.37	19.43
	25RB (0)	1777.5 (132647)	20.42	20.35	19.50
		1745 (132322)	20.41	20.39	19.57
		1712.5 (131997)	20.36	20.31	19.46
10MHz	1RB-High (49)	1775 (132622)	20.45	20.53	20.47
		1745 (132322)	20.51	20.60	20.59
		1715 (132022)	20.48	20.46	20.43
	1RB-Middle (24)	1775 (132622)	20.43	20.52	20.55
		1745 (132322)	20.49	20.61	20.59
		1715 (132022)	20.54	20.58	20.44
	1RB-Low (0)	1775 (132622)	20.34	20.47	20.41
		1745 (132322)	20.41	20.57	20.40
		1715 (132022)	20.31	20.38	20.30
	25RB-High (25)	1775 (132622)	20.32	20.30	19.48
		1745 (132322)	20.45	20.35	19.55
		1715 (132022)	20.50	20.44	19.42
	25RB-Middle (12)	1775 (132622)	20.43	20.43	19.52
		1745 (132322)	20.55	20.41	19.62
		1715 (132022)	20.49	20.40	19.46
	25RB-Low (0)	1775 (132622)	20.50	20.46	19.56
		1745 (132322)	20.51	20.39	19.66
		1715 (132022)	20.32	20.34	19.57
	50RB (0)	1775 (132622)	20.49	20.37	19.51
		1745 (132322)	20.42	20.55	19.58
		1715 (132022)	20.38	20.48	19.48

15MHz	1RB-High (74)	1772.5 (132597)	20.38	20.53	20.44
		1745 (132322)	20.56	20.58	20.53
		1717.5 (132047)	20.37	20.38	20.43
	1RB-Middle (37)	1772.5 (132597)	20.47	20.46	20.41
		1745 (132322)	20.44	20.53	20.47
		1717.5 (132047)	20.43	20.55	20.41
	1RB-Low (0)	1772.5 (132597)	20.48	20.44	20.37
		1745 (132322)	20.52	20.60	20.54
		1717.5 (132047)	20.48	20.48	20.36
	36RB-High (38)	1772.5 (132597)	20.36	20.41	19.39
		1745 (132322)	20.34	20.50	19.60
		1717.5 (132047)	20.31	20.40	19.41
	36RB-Middle (19)	1772.5 (132597)	20.45	20.42	19.59
		1745 (132322)	20.60	20.54	19.58
		1717.5 (132047)	20.35	20.49	19.53
	36RB-Low (0)	1772.5 (132597)	20.47	20.37	19.46
		1745 (132322)	20.43	20.49	19.58
		1717.5 (132047)	20.35	20.33	19.56
	75RB (0)	1772.5 (132597)	20.42	20.44	19.53
		1745 (132322)	20.42	20.46	19.44
		1717.5 (132047)	20.45	20.39	19.44
20MHz	1RB-High (99)	1770 (132572)	20.44	20.50	20.46
		1745 (132322)	20.47	20.53	20.49
		1720 (132072)	20.42	20.48	20.44
	1RB-Middle (50)	1770 (132572)	20.49	20.55	20.51
		1745 (132322)	20.52	20.58	20.54
		1720 (132072)	20.46	20.52	20.48
	1RB-Low (0)	1770 (132572)	20.41	20.47	20.43
		1745 (132322)	20.46	20.52	20.48
		1720 (132072)	20.38	20.44	20.40
	50RB-High (50)	1770 (132572)	20.38	20.36	19.46
		1745 (132322)	20.43	20.41	19.50
		1720 (132072)	20.41	20.39	19.48
	50RB-Middle (25)	1770 (132572)	20.47	20.45	19.54
		1745 (132322)	20.51	20.49	19.58
		1720 (132072)	20.41	20.39	19.48
	50RB-Low (0)	1770 (132572)	20.48	20.46	19.55
		1745 (132322)	20.49	20.47	19.56
		1720 (132072)	20.40	20.38	19.47
	100RB (0)	1770 (132572)	20.45	20.43	19.52
		1745 (132322)	20.47	20.45	19.54
		1720 (132072)	20.40	20.38	19.47

LTE B66 ANT3-Power level C1/D1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
1.4MHz	1RB-High (5)	1779.3 (132665)	14.57	14.56	14.56
		1745 (132322)	14.35	14.53	14.51
		1710.7 (131979)	14.57	14.63	14.53
	1RB-Middle (3)	1779.3 (132665)	14.43	14.53	14.53
		1745 (132322)	14.47	14.52	14.59
		1710.7 (131979)	14.48	14.53	14.46
	1RB-Low (0)	1779.3 (132665)	14.52	14.58	14.44
		1745 (132322)	14.49	14.59	14.61
		1710.7 (131979)	14.61	14.65	14.47
	3RB-High (3)	1779.3 (132665)	14.45	14.36	14.35
		1745 (132322)	14.52	14.44	14.51
		1710.7 (131979)	14.56	14.48	14.46
	3RB-Middle (1)	1779.3 (132665)	14.48	14.38	14.39
		1745 (132322)	14.54	14.49	14.61
		1710.7 (131979)	14.44	14.45	14.52
	3RB-Low (0)	1779.3 (132665)	14.50	14.55	14.43
		1745 (132322)	14.41	14.54	14.47
		1710.7 (131979)	14.41	14.39	14.38
	6RB (0)	1779.3 (132665)	14.37	14.35	14.49
		1745 (132322)	14.42	14.36	14.41
		1710.7 (131979)	14.62	14.45	14.41
3MHz	1RB-High (14)	1778.5 (132657)	14.61	14.58	14.62
		1745 (132322)	14.37	14.47	14.54
		1711.5 (131987)	14.48	14.53	14.61
	1RB-Middle (7)	1778.5 (132657)	14.47	14.52	14.63
		1745 (132322)	14.47	14.64	14.59
		1711.5 (131987)	14.42	14.58	14.54
	1RB-Low (0)	1778.5 (132657)	14.48	14.43	14.58
		1745 (132322)	14.59	14.47	14.50
		1711.5 (131987)	14.51	14.66	14.63
	8RB-High (7)	1778.5 (132657)	14.43	14.39	14.35
		1745 (132322)	14.58	14.57	14.38
		1711.5 (131987)	14.54	14.45	14.50
	8RB-Middle (4)	1778.5 (132657)	14.52	14.50	14.34
		1745 (132322)	14.64	14.60	14.48
		1711.5 (131987)	14.45	14.56	14.52
	8RB-Low (0)	1778.5 (132657)	14.57	14.39	14.52
		1745 (132322)	14.50	14.51	14.53
		1711.5 (131987)	14.46	14.55	14.39
	15RB (0)	1778.5 (132657)	14.43	14.44	14.50
		1745 (132322)	14.57	14.40	14.40
		1711.5 (131987)	14.43	14.44	14.53

5MHz	1RB-High (24)	1777.5 (132647)	14.61	14.62	14.51
		1745 (132322)	14.45	14.49	14.50
		1712.5 (131997)	14.46	14.65	14.51
	1RB-Middle (12)	1777.5 (132647)	14.56	14.52	14.60
		1745 (132322)	14.62	14.62	14.60
		1712.5 (131997)	14.56	14.64	14.53
	1RB-Low (0)	1777.5 (132647)	14.46	14.62	14.57
		1745 (132322)	14.48	14.61	14.50
		1712.5 (131997)	14.57	14.60	14.56
	12RB-High (13)	1777.5 (132647)	14.40	14.48	14.46
		1745 (132322)	14.45	14.47	14.42
		1712.5 (131997)	14.55	14.44	14.43
	12RB-Middle (6)	1777.5 (132647)	14.48	14.50	14.38
		1745 (132322)	14.48	14.44	14.62
		1712.5 (131997)	14.46	14.56	14.42
	12RB-Low (0)	1777.5 (132647)	14.53	14.53	14.42
		1745 (132322)	14.44	14.37	14.44
		1712.5 (131997)	14.53	14.35	14.47
	25RB (0)	1777.5 (132647)	14.52	14.51	14.44
		1745 (132322)	14.55	14.42	14.55
		1712.5 (131997)	14.50	14.56	14.45
10MHz	1RB-High (49)	1775 (132622)	14.48	14.64	14.57
		1745 (132322)	14.35	14.49	14.48
		1715 (132022)	14.49	14.55	14.48
	1RB-Middle (24)	1775 (132622)	14.44	14.52	14.51
		1745 (132322)	14.48	14.68	14.55
		1715 (132022)	14.62	14.47	14.51
	1RB-Low (0)	1775 (132622)	14.43	14.57	14.55
		1745 (132322)	14.51	14.62	14.55
		1715 (132022)	14.42	14.65	14.52
	25RB-High (25)	1775 (132622)	14.47	14.48	14.35
		1745 (132322)	14.59	14.54	14.48
		1715 (132022)	14.43	14.43	14.51
	25RB-Middle (12)	1775 (132622)	14.50	14.35	14.52
		1745 (132322)	14.65	14.57	14.52
		1715 (132022)	14.45	14.57	14.50
	25RB-Low (0)	1775 (132622)	14.46	14.46	14.43
		1745 (132322)	14.53	14.49	14.47
		1715 (132022)	14.55	14.38	14.36
	50RB (0)	1775 (132622)	14.49	14.40	14.32
		1745 (132322)	14.45	14.38	14.51
		1715 (132022)	14.49	14.52	14.57

15MHz	1RB-High (74)	1772.5 (132597)	14.59	14.57	14.44
		1745 (132322)	14.41	14.43	14.40
		1717.5 (132047)	14.43	14.49	14.49
	1RB-Middle (37)	1772.5 (132597)	14.46	14.48	14.49
		1745 (132322)	14.57	14.61	14.55
		1717.5 (132047)	14.58	14.57	14.59
	1RB-Low (0)	1772.5 (132597)	14.51	14.61	14.46
		1745 (132322)	14.56	14.54	14.58
		1717.5 (132047)	14.62	14.51	14.63
	36RB-High (38)	1772.5 (132597)	14.39	14.50	14.31
		1745 (132322)	14.43	14.49	14.54
		1717.5 (132047)	14.48	14.49	14.48
	36RB-Middle (19)	1772.5 (132597)	14.34	14.46	14.38
		1745 (132322)	14.64	14.48	14.52
		1717.5 (132047)	14.48	14.50	14.52
	36RB-Low (0)	1772.5 (132597)	14.47	14.53	14.50
		1745 (132322)	14.37	14.48	14.41
		1717.5 (132047)	14.53	14.54	14.53
	75RB (0)	1772.5 (132597)	14.41	14.44	14.41
		1745 (132322)	14.47	14.36	14.50
		1717.5 (132047)	14.58	14.53	14.46
20MHz	1RB-High (99)	1770 (132572)	14.52	14.57	14.54
		1745 (132322)	14.45	14.50	14.47
		1720 (132072)	14.51	14.56	14.53
	1RB-Middle (50)	1770 (132572)	14.52	14.57	14.54
		1745 (132322)	14.55	14.60	14.57
		1720 (132072)	14.52	14.56	14.53
	1RB-Low (0)	1770 (132572)	14.47	14.52	14.49
		1745 (132322)	14.50	14.55	14.52
		1720 (132072)	14.52	14.57	14.54
	50RB-High (50)	1770 (132572)	14.42	14.41	14.40
		1745 (132322)	14.50	14.49	14.48
		1720 (132072)	14.52	14.51	14.50
	50RB-Middle (25)	1770 (132572)	14.44	14.43	14.42
		1745 (132322)	14.55	14.54	14.53
		1720 (132072)	14.51	14.50	14.49
	50RB-Low (0)	1770 (132572)	14.51	14.49	14.50
		1745 (132322)	14.47	14.46	14.45
		1720 (132072)	14.46	14.45	14.44
	100RB (0)	1770 (132572)	14.44	14.43	14.42
		1745 (132322)	14.47	14.46	14.45
		1720 (132072)	14.53	14.52	14.51

LTE B71-Power level A1/B1/C1/D1/E1/F1					
BANDWIDTH	**Number of RBs**	**Frequency**	**QPSK**	**16QAM**	**64QAM**
5MHz	1RB-High (24)	695.5 (133447)	23.07	22.35	21.26
		680.5 (133297)	23.10	22.34	21.30
		665.5 (133147)	23.12	22.31	21.25
	1RB-Middle (12)	695.5 (133447)	23.04	22.36	21.18
		680.5 (133297)	23.15	22.50	21.31
		665.5 (133147)	23.06	22.28	21.15
	1RB-Low (0)	695.5 (133447)	23.16	22.39	21.25
		680.5 (133297)	23.13	22.52	21.34
		665.5 (133147)	23.10	22.36	21.22
	12RB-High (13)	695.5 (133447)	22.02	21.02	20.09
		680.5 (133297)	22.08	21.13	20.22
		665.5 (133147)	22.09	21.12	20.20
	12RB-Middle (6)	695.5 (133447)	21.99	21.00	20.14
		680.5 (133297)	22.08	21.09	20.24
		665.5 (133147)	21.98	20.98	20.08
	12RB-Low (0)	695.5 (133447)	22.09	21.09	20.24
		680.5 (133297)	22.07	21.08	20.22
		665.5 (133147)	22.00	20.99	20.03
	25RB (0)	695.5 (133447)	22.09	21.09	20.14
		680.5 (133297)	22.10	21.13	20.18
		665.5 (133147)	22.03	21.10	20.13
10MHz	1RB-High (49)	693 (132422)	23.04	22.26	21.16
		680.5 (133297)	23.12	22.39	21.34
		668 (133172)	23.10	22.37	21.21
	1RB-Middle (24)	693 (132422)	23.09	22.32	21.21
		680.5 (133297)	23.19	22.43	21.35
		668 (133172)	23.17	22.28	21.20
	1RB-Low (0)	693 (132422)	23.19	22.42	21.28
		680.5 (133297)	23.20	22.37	21.23
		668 (133172)	23.13	22.37	21.26
	25RB-High (25)	693 (132422)	22.02	21.04	20.10
		680.5 (133297)	22.13	21.17	20.17
		668 (133172)	22.15	21.17	20.22
	25RB-Middle (12)	693 (132422)	22.10	21.12	20.23
		680.5 (133297)	22.12	21.18	20.23
		668 (133172)	22.13	21.10	20.12
	25RB-Low (0)	693 (132422)	22.16	21.14	20.24
		680.5 (133297)	22.16	21.13	20.22
		668 (133172)	22.03	21.03	20.08
	50RB (0)	693 (132422)	22.12	21.12	20.18
		680.5 (133297)	22.12	21.16	20.17
		668 (133172)	22.08	21.09	20.15

15MHz	1RB-High (74)	690.5 (133397)	22.98	22.26	21.10
		680.5 (133297)	22.97	22.30	21.13
		670.5 (133197)	23.00	22.19	21.08
	1RB-Middle (37)	690.5 (133397)	23.04	22.41	21.24
		680.5 (133297)	23.14	22.30	21.30
		670.5 (133197)	23.11	22.43	21.21
	1RB-Low (0)	690.5 (133397)	23.03	22.30	21.23
		680.5 (133297)	23.07	22.42	21.27
		670.5 (133197)	23.02	22.25	21.16
	36RB-High (38)	690.5 (133397)	22.04	21.05	20.07
		680.5 (133297)	22.07	21.07	20.12
		670.5 (133197)	22.03	21.03	20.09
	36RB-Middle (19)	690.5 (133397)	22.05	21.08	20.16
		680.5 (133297)	22.04	21.10	20.16
		670.5 (133197)	22.05	21.04	20.18
	36RB-Low (0)	690.5 (133397)	22.09	21.12	20.17
		680.5 (133297)	22.11	21.08	20.16
		670.5 (133197)	21.99	20.97	20.09
	75RB (0)	690.5 (133397)	22.03	21.06	20.13
		680.5 (133297)	22.08	21.07	20.15
		670.5 (133197)	22.03	21.01	20.04
20MHz	1RB-High (99)	688 (133372)	22.98	22.18	21.04
		683 (133322)	22.94	22.24	21.00
		673 (133222)	22.93	22.13	21.01
	1RB-Middle (50)	688 (133372)	23.13	22.35	21.19
		683 (133322)	23.16	22.27	21.23
		673 (133222)	23.15	22.43	21.35
	1RB-Low (0)	688 (133372)	23.12	22.38	21.26
		683 (133322)	23.06	22.24	21.28
		673 (133222)	23.05	22.23	21.08
	50RB-High (50)	688 (133372)	22.02	20.99	20.14
		683 (133322)	22.07	21.03	20.14
		673 (133222)	22.11	21.23	20.19
	50RB-Middle (25)	688 (133372)	22.09	21.08	20.25
		683 (133322)	22.07	21.07	20.22
		673 (133222)	22.12	21.20	20.23
	50RB-Low (0)	688 (133372)	22.12	21.07	20.23
		683 (133322)	22.15	21.29	20.23
		673 (133222)	22.05	21.00	20.13
	100RB (0)	688 (133372)	22.06	21.01	20.12
		683 (133322)	22.07	21.03	20.19
		673 (133222)	22.06	21.14	20.09

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

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

The conducted power measurement results of LTE 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-4A	2	20	1	99	1	99	19100	1100	4	20	2175	22.83	22.45	24.5
2A-66A	2	20	1	99	1	99	19100	1100	66	20	66886	22.83	22.51	24.5
2A-12A	2	20	1	99	1	99	19100	1100	12	10	5095	22.83	22.39	24.5
2A-2A	2	20	1	0	1	0	18700	700	2	5	1175	22.78	22.45	24.5
2C	2	20	1	0	1	0	18700	700	2	5	817	22.78	22.4	24.5
2A-5A	2	20	1	99	1	99	19100	1100	5	10	2525	22.83	22.44	24.5
2A-71A	2	20	1	99	1	99	19100	1100	71	20	68761	22.83	22.47	24.5
4A-12A	4	20	1	50	1	50	20300	2300	12	10	5095	22.83	22.51	24.5
4A-4A	4	20	1	50	1	50	20050	2050	4	20	2300	23.67	23.31	24.5
4A-5A	4	20	1	50	1	50	20300	2300	5	10	2525	22.83	22.39	24.5
4A-71A	4	20	1	50	1	50	20300	2300	71	20	68761	22.83	22.43	24.5
5A-66A	5	10	1	50	1	50	20600	2600	66	20	66886	22.98	22.59	24.5
12A-66A	12	10	1	0	1	0	23060	5060	66	20	66886	23.23	22.92	24.5
41A-41A	41	20	1	0	1	0	39750	39750	41	5	41565	23.77	23.28	24.5
41C	41	20	1	0	1	0	39750	39750	41	5	39867	23.77	23.43	24.5
25A-25A	25	20	1	50	1	50	26140	8140	25	5	8665	23.3	22.85	24.5
25A-26A	25	20	1	50	1	50	26140	8140	26	15	8865	23.3	22.81	24.5
66A-66A	66	20	1	50	1	50	132072	66536	66	20	67311	23.67	23.3	24.5
66B	66	10	1	50	1	50	132572	67036	65	5	67108	23.86	23.47	24.5
66C	66	20	1	50	1	50	132072	66536	66	5	66680	23.67	23.29	24.5
66A-71A	66	20	1	50	1	50	132572	67036	71	20	68761	23.86	23.41	24.5
25A-41A	25	20	1	50	1	50	26140	8140	41	20	40620	23.3	22.92	24.5
4A-2A	4	20	1	50	1	50	20300	2300	2	20	900	22.83	22.37	24.5
66A-2A	66	20	1	50	1	50	132572	67036	2	20	900	23.86	23.46	24.5
12A-2A	12	10	1	0	1	0	23060	5060	2	20	900	23.23	22.79	24.5

5A-2A	5	10	1	0	1	0	20450	2450	2	20	900	23.23	22.74	24.5
71A-2A	71	20	1	50	1	50	133322	68786	2	20	900	23.16	22.68	24.5
12A-4A	12	10	1	0	1	0	23060	5060	4	20	2175	23.23	22.78	24.5
5A-4A	5	10	1	0	1	0	20450	2450	4	20	2175	23.23	22.75	24.5
71A-4A	71	20	1	50	1	50	133322	68786	4	20	2175	23.16	22.74	24.5
66A-5A	66	20	1	50	1	50	132572	67036	5	10	2525	23.86	23.47	24.5
66A-12A	66	20	1	50	1	50	132572	67036	12	10	5095	23.86	23.45	24.5
26A-25A	26	15	1	36	1	36	26965	8965	25	20	8365	22.98	22.6	24.5
71A-66A	71	20	1	50	1	50	133322	68786	66	20	66886	23.16	22.77	24.5
41A-25A	41	20	1	0	1	0	40620	40620	25	15	8365	23.78	23.48	24.5

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

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

41C-PC3-Power Level A1

UL LTE CA Class	PCC				SCC				Power	
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_41C	20M	39750	1	99	5M	39867	1	0	24.5	22.74
CA_41C	15M	39725	1	74	10M	39845	1	0	24.5	22.7
CA_41C	20M	39750	1	99	10M	39894	1	0	24.5	22.68
CA_41C	20M	39750	1	99	15M	39921	1	0	24.5	22.72
CA_41C	20M	39750	1	99	20M	39948	1	0	24.5	22.73
CA_41C	20M	41490	1	0	5M	41373	1	99	24.5	22.63
CA_41C	15M	41515	1	0	10M	41395	1	99	24.5	22.71
CA_41C	20M	41490	1	0	10M	41346	1	99	24.5	22.7
CA_41C	15M	41515	1	0	15M	41365	1	99	24.5	22.75
CA_41C	20M	41490	1	0	15M	41319	1	99	24.5	22.56
CA_41C	20M	41490	1	0	20M	41292	1	99	24.5	22.26

41C-PC2-Power Level A1

UL LTE CA Class	PCC				SCC				Power	
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_41C	20M	39750	1	99	5M	39867	1	0	27.5	26.04
CA_41C	15M	39725	1	74	10M	39845	1	0	27.5	25.92
CA_41C	20M	39750	1	99	10M	39894	1	0	27.5	25.9
CA_41C	20M	39750	1	99	15M	39921	1	0	27.5	25.94
CA_41C	20M	39750	1	99	20M	39948	1	0	27.5	25.93
CA_41C	20M	41490	1	0	5M	41373	1	99	27.5	25.65
CA_41C	15M	41515	1	0	10M	41395	1	99	27.5	25.74
CA_41C	20M	41490	1	0	10M	41346	1	99	27.5	25.71
CA_41C	15M	41515	1	0	15M	41365	1	99	27.5	25.73
CA_41C	20M	41490	1	0	15M	41319	1	99	27.5	25.67
CA_41C	20M	41490	1	0	20M	41292	1	99	27.5	25.7

41C-PC3-Power Level B1/F1

UL LTE CA Class	PCC				SCC				Power	
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_41C	20M	39750	1	99	5M	39867	1	0	19	18.52
CA_41C	15M	39725	1	74	10M	39845	1	0	19	18.45
CA_41C	20M	39750	1	99	10M	39894	1	0	19	18.54
CA_41C	20M	39750	1	99	15M	39921	1	0	19	18.35
CA_41C	20M	39750	1	99	20M	39948	1	0	19	18.42
CA_41C	20M	41490	1	0	5M	41373	1	99	19	18.31
CA_41C	15M	41515	1	0	10M	41395	1	99	19	18.36
CA_41C	20M	41490	1	0	10M	41346	1	99	19	18.39
CA_41C	15M	41515	1	0	15M	41365	1	99	19	18.45
CA_41C	20M	41490	1	0	15M	41319	1	99	19	18.29
CA_41C	20M	41490	1	0	20M	41292	1	99	19	18.4

41C-PC2-Power Level B1/F1										
UL LTE CA Class	PCC				SCC				Power	
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_41C	20M	39750	1	99	5M	39867	1	0	22.5	21.56
CA_41C	15M	39725	1	74	10M	39845	1	0	22.5	21.45
CA_41C	20M	39750	1	99	10M	39894	1	0	22.5	21.58
CA_41C	20M	39750	1	99	15M	39921	1	0	22.5	21.48
CA_41C	20M	39750	1	99	20M	39948	1	0	22.5	21.53
CA_41C	20M	41490	1	0	5M	41373	1	99	22.5	21.33
CA_41C	15M	41515	1	0	10M	41395	1	99	22.5	21.51
CA_41C	20M	41490	1	0	10M	41346	1	99	22.5	21.55
CA_41C	15M	41515	1	0	15M	41365	1	99	22.5	21.53
CA_41C	20M	41490	1	0	15M	41319	1	99	22.5	21.35
CA_41C	20M	41490	1	0	20M	41292	1	99	22.5	21.48

41C-PC3-Power Level C1/D1										
UL LTE CA Class	PCC				SCC				Power	
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_41C	20M	39750	1	99	5M	39867	1	0	16	14.8
CA_41C	15M	39725	1	74	10M	39845	1	0	16	14.81
CA_41C	20M	39750	1	99	10M	39894	1	0	16	14.83
CA_41C	20M	39750	1	99	15M	39921	1	0	16	14.78
CA_41C	20M	39750	1	99	20M	39948	1	0	16	14.85
CA_41C	20M	41490	1	0	5M	41373	1	99	16	14.71
CA_41C	15M	41515	1	0	10M	41395	1	99	16	14.77
CA_41C	20M	41490	1	0	10M	41346	1	99	16	14.74
CA_41C	15M	41515	1	0	15M	41365	1	99	16	14.75
CA_41C	20M	41490	1	0	15M	41319	1	99	16	14.75
CA_41C	20M	41490	1	0	20M	41292	1	99	16	14.7

41C-PC2-Power Level C1/D1										
UL LTE CA Class	PCC				SCC				Power	
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_41C	20M	39750	1	99	5M	39867	1	0	19.5	17.9
CA_41C	15M	39725	1	74	10M	39845	1	0	19.5	17.84
CA_41C	20M	39750	1	99	10M	39894	1	0	19.5	17.87
CA_41C	20M	39750	1	99	15M	39921	1	0	19.5	17.79
CA_41C	20M	39750	1	99	20M	39948	1	0	19.5	17.74
CA_41C	20M	41490	1	0	5M	41373	1	99	19.5	17.81
CA_41C	15M	41515	1	0	10M	41395	1	99	19.5	17.73
CA_41C	20M	41490	1	0	10M	41346	1	99	19.5	17.72
CA_41C	15M	41515	1	0	15M	41365	1	99	19.5	17.8
CA_41C	20M	41490	1	0	15M	41319	1	99	19.5	17.79
CA_41C	20M	41490	1	0	20M	41292	1	99	19.5	17.75

41C-PC3-Power Level E1										
UL LTE CA Class	PCC				SCC				Power	
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_41C	20M	39750	1	99	5M	39867	1	0	19	21.6
CA_41C	15M	39725	1	74	10M	39845	1	0	19	21.53
CA_41C	20M	39750	1	99	10M	39894	1	0	19	21.55
CA_41C	20M	39750	1	99	15M	39921	1	0	19	21.27
CA_41C	20M	39750	1	99	20M	39948	1	0	19	21.38
CA_41C	20M	41490	1	0	5M	41373	1	99	19	21.31
CA_41C	15M	41515	1	0	10M	41395	1	99	19	21.34
CA_41C	20M	41490	1	0	10M	41346	1	99	19	21.36
CA_41C	15M	41515	1	0	15M	41365	1	99	19	21.53
CA_41C	20M	41490	1	0	15M	41319	1	99	19	21.38
CA_41C	20M	41490	1	0	20M	41292	1	99	19	21.47

41C-PC2-Power Level E1										
UL LTE CA Class	PCC				SCC				Power	
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	tune up	conducted power（dBm）
CA_41C	20M	39750	1	99	5M	39867	1	0	22.5	24.52
CA_41C	15M	39725	1	74	10M	39845	1	0	22.5	24.42
CA_41C	20M	39750	1	99	10M	39894	1	0	22.5	24.53
CA_41C	20M	39750	1	99	15M	39921	1	0	22.5	24.39
CA_41C	20M	39750	1	99	20M	39948	1	0	22.5	24.55
CA_41C	20M	41490	1	0	5M	41373	1	99	22.5	24.39
CA_41C	15M	41515	1	0	10M	41395	1	99	22.5	24.61
CA_41C	20M	41490	1	0	10M	41346	1	99	22.5	24.57
CA_41C	15M	41515	1	0	15M	41365	1	99	22.5	24.54
CA_41C	20M	41490	1	0	15M	41319	1	99	22.5	24.36
CA_41C	20M	41490	1	0	20M	41292	1	99	22.5	24.55

11.4 5G NR Measurement result

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

Band	Tune up (dBm)					
	Receiver off+ Sensor off (DSI0)	**Receiver off+ Hotspot on (DSI1)**	**Receiver on+ WLAN off (DSI2)**	**Receiver on+ WLAN on (DSI3)**	**Receiver off+ sensor on+ WLAN off (DSI4)**	**Receiver off+ sensor on+ WLAN on (DSI5)**
	Power Level A1	**Power Level B1**	**Power Level C1**	**Power Level D1**	**Power Level E1**	**Power Level F1**
n25(SA/NSA)	24	23[1]	24	24	24[1]	23[1]
n41(SA/NSA)	27	20[1]	16	16	21[1]	20[1]
n66(SA/NSA)	24	23[1]	24	24	24[1]	23[1]
n71(SA/NSA)	24	24	24	24	24	24
n77(SA)	27	21	15	13	21	21

[1] – The tune up power is only for SA.

Band	Tune up (dBm)		
	Receiver off+ Hotspot on (DSI1)	**Receiver off+ sensor on+ WLAN off (DSI4)**	**Receiver off+ sensor on+ WLAN on (DSI5)**
	Power Level B2	**Power Level E2**	**Power Level F2**
n25(only for NSA)	21	23	21
n41(only for NSA)	18	20	18
n66(only for NSA)	21	23	21

n25-Power level A1/E1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	22.34
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	22.41
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	22.38
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1905	381000	22.32
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	22.33
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	22.37
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1882.5	376500	22.29
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1882.5	376500	21.30
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1882.5	376500	19.77
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1882.5	376500	17.88
15	5	CP-OFDM QPSK	Inner_Full	13@6	1882.5	376500	20.77
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1882.5	376500	20.30
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1882.5	376500	18.85
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1882.5	376500	15.95
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1882.5	376500	21.31
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1882.5	376500	21.35
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1882.5	370500	22.26
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1882.5	370500	22.30
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1882.5	370500	21.37
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1882.5	376500	22.17
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1882.5	376500	22.32

n25-Power level B1/F1/E2							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	21.20
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	21.42
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	21.20
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1905	381000	21.23
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	21.24
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	21.29
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1882.5	376500	21.20
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1882.5	376500	21.22
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1882.5	376500	19.70
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1882.5	376500	17.80
15	5	CP-OFDM QPSK	Inner_Full	13@6	1882.5	376500	20.70
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1882.5	376500	20.27
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1882.5	376500	18.80
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1882.5	376500	15.70
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1882.5	376500	21.22
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1882.5	376500	21.24
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1882.5	376500	21.20
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1882.5	376500	21.23
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1882.5	376500	21.27
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1882.5	376500	21.09
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1882.5	376500	21.23

n25-Power level B2/F2							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1912.5	382500	19.20
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	19.35
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	19.20
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1905	381000	19.23
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	19.24
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860	372000	19.28
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1882.5	376500	19.24
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1882.5	376500	19.28
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1882.5	376500	19.25
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1882.5	376500	17.78
15	5	CP-OFDM QPSK	Inner_Full	13@6	1882.5	376500	19.24
15	5	CP-OFDM 16QAM	Inner_Full	13@6	1882.5	376500	19.25
15	5	CP-OFDM 64QAM	Inner_Full	13@6	1882.5	376500	15.72
15	5	CP-OFDM 256QAM	Inner_Full	13@6	1882.5	376500	19.27
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1882.5	376500	19.29
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1882.5	376500	19.32
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1882.5	376500	19.26
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1882.5	376500	19.28
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1882.5	376500	19.27
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1882.5	376500	19.10
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1882.5	376500	19.23

n41-Power level A1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	25.84
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	25.63
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	26.45
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	26.36
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	26.31
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	25.62
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	25.94
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	26.39
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	26.38
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	26.35
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2592.99	518598	26.43
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	25.48
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	23.95
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	21.97
30	20	CP-OFDM QPSK	Inner_Full	25@12	2592.99	518598	24.98
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	24.53
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	22.93
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	19.91
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	2592.99	518598	23.03
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	23.04
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	2592.99	518598	26.08
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	26.44
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	2592.99	518598	25.47
30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	26.33
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	26.28
30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	26.33
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	26.27
30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	26.07
30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	26.32
30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	26.28

n41-Power level B1/F1/E2							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	19.16
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	19.25
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	19.35
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	19.25
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	19.19
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	19.12
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	19.16
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	19.18
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	19.17
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	19.12
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2592.99	518598	19.20
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	19.21
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	19.21
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	19.23
30	20	CP-OFDM QPSK	Inner_Full	25@12	2592.99	518598	19.21
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	19.27
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	19.16
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	19.21
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	2592.99	518598	19.21
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	19.23
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	2592.99	518598	19.20
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	19.21
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	2592.99	518598	19.19
30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	19.24
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	19.19
30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	19.22
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	19.24
30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	19.22
30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	19.23
30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	19.23

n41-Power level C1/D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	15.21
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	15.28
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	15.32
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	15.28
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	15.24
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	15.18
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	15.21
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	15.23
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	15.22
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	15.18
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2592.99	518598	15.25
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	15.26
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	15.26
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	15.28
30	20	CP-OFDM QPSK	Inner_Full	25@12	2592.99	518598	15.26
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	15.31
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	15.22
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	15.26
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	2592.99	518598	15.26
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	15.28
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	2592.99	518598	15.25
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	15.26
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	2592.99	518598	15.24
30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	15.29
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	15.24
30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	15.27
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	15.29
30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	15.27
30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	15.28
30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	15.28

n41-Power level E1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	19.52
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	19.69
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	19.78
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	19.88
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	19.69
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	19.60
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	19.59
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	19.71
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	19.70
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	19.67
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2592.99	518598	19.69
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	19.82
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	19.72
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	19.84
30	20	CP-OFDM QPSK	Inner_Full	25@12	2592.99	518598	19.77
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	19.82
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	19.73
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	18.28
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	2592.99	518598	19.84
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	19.83
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	2592.99	518598	19.81
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	19.72
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	2592.99	518598	19.72
30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	19.83
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	19.82
30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	19.84
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	19.81
30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	19.85
30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	19.84
30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	19.81

n41-Power level B2/F2							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2679.99	535998	17.21
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2636.49	527298	17.28
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	17.33
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2549.51	509902	17.28
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2506.02	501204	17.24
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640	528000	17.17
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2616.51	523302	17.21
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	17.23
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2569.5	513900	17.22
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	17.17
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	2592.99	518598	17.25
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	17.26
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	17.26
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	17.28
30	20	CP-OFDM QPSK	Inner_Full	25@12	2592.99	518598	17.26
30	20	CP-OFDM 16QAM	Inner_Full	25@12	2592.99	518598	17.32
30	20	CP-OFDM 64QAM	Inner_Full	25@12	2592.99	518598	17.22
30	20	CP-OFDM 256QAM	Inner_Full	25@12	2592.99	518598	17.26
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	2592.99	518598	17.26
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	17.28
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	2592.99	518598	17.25
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	17.26
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	2592.99	518598	17.24
30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	17.29
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	17.24
30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	17.27
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	17.29
30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	17.27
30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	17.28
30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	17.28

n66-Power level A1/C1/D1/E1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	22.52
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	22.56
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	22.36
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	22.49
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	22.51
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	22.42
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	22.47
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	21.46
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	19.95
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	18.06
15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	20.96
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	20.54
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	19.06
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	16.01
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	21.48
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	21.46
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	22.43
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	22.39
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	21.49
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	349000	22.32
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	349000	22.49
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	349000	22.47
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	349000	22.49

n66-Power level B1/F1/E2							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	21,40
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	21.42
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	21.29
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	21.40
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	21.40
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	21.37
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	21.37
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	21.39
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	19.92
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	17.98
15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	20.85
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	20.42
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	18.97
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	15.89
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	21.36
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	21.35
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	21.33
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	21.32
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	21.37
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	342064	21.23
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	347578	21.33
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	346120	21.32
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	345112	21.33

n66-Power level B2/F2							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	19.48
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	19.50
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	19.38
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	19.48
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	19.48
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	19.45
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	19.49
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	19.47
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	19.46
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	18
15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	19.49
15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	19.46
15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	19.00
15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	15.94
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	19.4
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	19.39
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	19.37
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	19.36
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	19.41
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	349000	19.28
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	349000	19.37
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	349000	19.36
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	349000	19.37

n71-Power level A1/B1/C1/D1/E1/F1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	695.5	139100	22.96
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	680.5	136100	23.03
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	665.5	133100	22.97
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	688	137600	22.95
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	680.5	136100	22.93
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	673	134600	22.92
15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	680.5	136100	23.01
15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	680.5	136100	21.96
15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	680.5	136100	20.50
15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	680.5	136100	18.54
15	5	CP-OFDM QPSK	Inner_Full	13@6	680.5	136100	21.46
15	5	CP-OFDM 16QAM	Inner_Full	13@6	680.5	136100	21.01
15	5	CP-OFDM 64QAM	Inner_Full	13@6	680.5	136100	19.51
15	5	CP-OFDM 256QAM	Inner_Full	13@6	680.5	136100	16.66
15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	680.5	136100	22.01
15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	680.5	136100	22.02
15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	680.5	136100	22.91
15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	680.5	136100	22.93
15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	680.5	136100	21.96
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	680.5	136100	22.80
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	680.5	136100	22.94

n77(3450-3550MHz)-Power level A1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	26.21
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	26.29
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	25.77
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	25.98
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	26.19
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	26.13
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	25.31
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	23.81
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	21.99
30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	24.79
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	24.55
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	22.74
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	19.82
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	22.88
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	22.99
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	26.14
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	26.11
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	25.27
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	26.22
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	26.19
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	26.16
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	26.27
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	26.18

n77(3700-3980MHz)-Power level A1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	26.29
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	26.28
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	26.12
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	25.64
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	25.92
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	26.16
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	26.15
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	26.03
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	25.85
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	25.73
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	25.66
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	25.88
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	26.14
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	25.23
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	23.74
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	21.82
30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	24.71
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	24.65
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	22.66
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	19.76
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	22.61
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	22.69
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	25.97
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	26.01
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	25.21
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	25.94
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	25.98
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	26.02
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	26.04
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	26.07

n77(3450-3550MHz)-Power level B1/E1/F1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	19.70
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	19.77
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	19.58
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	19.62
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	19.66
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	19.72
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	19.70
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	19.73
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	19.74
30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	19.72
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	19.73
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	19.71
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	19.19
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	19.68
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	19.71
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	19.66
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	19.59
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	19.68
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	19.63
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	19.61
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	19.68
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	19.59
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	19.57

n77(3700-3980MHz)-Power level B1/E1/F1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	19.95
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	19.73
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	19.36
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	19.19
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	19.36
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	19.69
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	19.68
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	19.44
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	19.23
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	19.15
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	19.24
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	19.31
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	19.83
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	19.85
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	19.80
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	19.83
30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	19.86
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	19.83
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	19.87
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	19.39
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	19.57
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	19.74
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	19.65
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	19.66
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	19.57
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	19.82
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	19.82
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	19.79
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	19.81
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	19.79

n77(3450-3550MHz)-Power level C1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	14.07
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	13.98
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	14.01
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	14.03
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	14.10
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	14.09
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	14.08
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	14.08
30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	14.10
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	14.08
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	14.10
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	14.14
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	14.08
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	14.10
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	14.07
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	14.01
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	14.08
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	14.04
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	14.02
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	14.08
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	14.01
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	14.01

n77(3700-3980MHz)-Power level C1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	14.56
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	14.54
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	14.50
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	14.02
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	14.14
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	14.00
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	14.38
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	14.35
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	14.30
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	14.21
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	14.15
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	14.11
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	14.52
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	14.46
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	14.50
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	14.49
30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	14.46
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	14.50
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	14.47
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	14.46
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	14.52
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	14.55
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	14.48
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	14.50
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	14.51
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	14.50
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	14.48
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	14.49
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	14.50
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	14.49

n77(3450-3550MHz)-Power level D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	12.04
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	12.11
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	11.96
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	11.99
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	12.01
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	12.07
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	12.06
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	12.05
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	12.05
30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	12.07
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	12.05
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	12.06
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	12.10
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	12.05
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	12.06
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	12.04
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	11.99
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	12.05
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	12.02
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	12.00
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	12.05
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	11.99
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	11.99

n77(3700-3980MHz)-Power level D1							
SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Power Results (dBm)
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	12.57
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	12.55
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	12.52
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	12.10
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	12.21
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	12.09
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	12.41
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	12.39
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	12.35
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	12.27
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	12.22
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	12.18
30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	12.54
30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	12.48
30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	12.51
30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	12.51
30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	12.48
30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	12.51
30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	12.49
30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	12.48
30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	12.54
30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	12.56
30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	12.50
30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	12.52
30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	12.53
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	12.51
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	12.50
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	12.51
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	12.52
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	12.51

11.5 Wi-Fi and BT Measurement result

The maximum output power of BT antenna is 9.45dBm.
The maximum tune up of BT antenna is 11dBm.

Table11.5: Summary of Receiver detection mechanism-WiFi antenna

Antenna	Receiver off+ Sensor off (DSI0)	Receiver off+ Hotspot on (DSI1)	Receiver on+ WWAN off (DSI2)	Receiver on+ WWAN on (DSI3)	Receiver off+ sensor on+ Hotspot off+ WWAN off (DSI4)	Receiver off+ sensor on+ Hotspot off+ WWAN on (DSI5)
WLAN Antenna	Power Level A1	Power Level B1	Power Level C1	Power Level D1	Power Level E1	Power Level F1

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

Power Level A1

802.11b		
Channel\data rate	1Mbps	Tune up
11(2462MHz)	21.41	21.50
6(2437(MHz)	21.02	21.50
1(2412MHz)	20.97	21.50
802.11g		
Channel\data rate	6Mbps	Tune up
11(2462MHz)	19.23	19.50
6(2437(MHz)	19.64	20.50
1(2412MHz)	19.86	20.50
802.11n-20MHz		
Channel\data rate	MCS0	Tune up
11(2462MHz)	18.47	19.00
6(2437(MHz)	19.03	20.00
1(2412MHz)	18.99	20.00
802.11n-40MHz		
Channel\data rate	MCS0	Tune up
9(2452MHz)	18.03	19.50
6(2437MHz)	18.82	19.50
3(2422MHz)	18.11	19.50

Power Level B1/D1/F1

802.11b		
Channel\data rate	1Mbps	Tune up
11(2462MHz)	16.33	17.00
6(2437(MHz)	15.75	17.00
1(2412MHz)	15.09	17.00
802.11g		
Channel\data rate	6Mbps	Tune up
11(2462MHz)	16.39	17.00
6(2437(MHz)	16.09	17.00
1(2412MHz)	15.30	17.00
802.11n-20MHz		
Channel\data rate	MCS0	Tune up
11(2462MHz)	16.41	17.00
6(2437(MHz)	15.97	17.00
1(2412MHz)	15.18	17.00
802.11n-40MHz		
Channel\data rate	MCS0	Tune up
9(2452MHz)	13.78	15
6(2437MHz)	14.23	15
3(2422MHz)	13.38	15

Power Level C1/E1

802.11b		
Channel\data rate	1Mbps	Tune up
11(2462MHz)	19.81	20
6(2437(MHz)	19.45	20
1(2412MHz)	19.06	20
802.11g		
Channel\data rate	6Mbps	Tune up
11(2462MHz)	19.64	20
6(2437(MHz)	19.37	20
1(2412MHz)	18.96	20
802.11n-20MHz		
Channel\data rate	MCS0	Tune up
11(2462MHz)	18.47	19.00
6(2437(MHz)	19.03	20.00
1(2412MHz)	18.99	20.00
802.11n-40MHz		
Channel\data rate	MCS0	Tune up
9(2452MHz)	18.03	19.50
6(2437MHz)	18.82	19.50
3(2422MHz)	18.11	19.50

The tune up power for Wi-Fi 5G is as following:

Power rating	Channel	DSI0 RF	DSI1 Hotspot	DSI2 alone Head	DSI3 joint Head	DSI4 alone Body	DSI5 joint Body	Tolerance
802.11a-6M	36-48	19	14	14	12	17	14	+1dBm/ -1dBm
	52-64	19	14	14	12	17	14	+1dBm/ -1dBm
	100-136	19	14	14	12	17	14	+1dBm/ -1dBm
	140	18	14	14	12	17	14	+1dBm/ -1dBm
	144-165	19	14	14	12	17	14	+1dBm/ -1dBm
802.11n-HT20-MCS0	36-48	19	14	14	12	17	14	+1dBm/ -1dBm
	52-64	19	14	14	12	17	14	+1dBm/ -1dBm
	100	18.5	14	14	12	17	14	+1dBm/ -1dBm
	104-136	19	14	14	12	17	14	+1dBm/ -1dBm
	140	17.5	14	14	12	17	14	+1dBm/ -1dBm
	144-165	19	14	14	12	17	14	+1dBm/ -1dBm
802.11n-HT40-MCS0	38	16.5	14	14	12	16.5	14	+1dBm/ -1dBm
	46-62	18.5	14	14	12	17	14	+1dBm/ -1dBm
	102	17	14	14	12	17	14	+1dBm/ -1dBm
	110-159	18.5	14	14	12	17	14	+1dBm/ -1dBm
802.11ac-VHT20-MCS0	36-48	18	14	14	12	17	14	+1dBm/ -1dBm
	52-64	18	14	14	12	17	14	+1dBm/ -1dBm
	100-144	18	14	14	12	17	14	+1dBm/ -1dBm
	149-165	18	14	14	12	17	14	+1dBm/ -1dBm

802.11ac-VHT40-MCS0	38	17	14	14	12	17	14	+1dBm/ -1dBm
	46-62	17.5	14	14	12	17	14	+1dBm/ -1dBm
	102-142	17.5	14	14	12	17	14	+1dBm/ -1dBm
	151-159	17.5	14	14	12	17	14	+1dBm/ -1dBm
802.11ac-VHT80M-MCS0	42	15	14	14	12	15	14	+1dBm/ -1dBm
	58	16	14	14	12	16	14	+1dBm/ -1dBm
	106	16	14	14	12	16	14	+1dBm/ -1dBm
	122-138	17	14	14	12	17	14	+1dBm/ -1dBm
	155	17	14	14	12	17	14	+1dBm/ -1dBm

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

Power Level A1:

802.11n(dBm)-20MHz	
Channel\data rate	6Mbps
36(5180 MHz)	18.24
40(5200 MHz)	18.76
44(5220 MHz)	18.55
48(5240 MHz)	18.52
52(5260 MHz)	18.88
56(5280 MHz)	18.39
60(5300 MHz)	18.31
64(5320 MHz)	18.07
100(5500 MHz)	18.11
104(5520 MHz)	18.33
108(5540 MHz)	18.75
112(5560 MHz)	19.05
116(5580 MHz)	19.49
120(5600 MHz)	18.99
124(5620 MHz)	18.72
128(5640 MHz)	18.55
132(5660 MHz)	18.51
136(5680 MHz)	19.25
140(5700 MHz)	18.19
144(5720 MHz)	19.96
149(5745 MHz)	19.88
153(5765 MHz)	19.96
157(5785 MHz)	19.58
161(5805 MHz)	19.17
165(5825 MHz)	19.10
Tune up	20.00

Remark: The tune up for CH140 is 19dBm

Power Level B1/C1/F1:

802.11ac(dBm)-80MHz	
Channel\data rate	6Mbps
42(5210 MHz)	13.05
58(5290 MHz)	13.26
106(5530 MHz)	13.36
122(5610 MHz)	13.15
138(5690 MHz)	13.93
155(5775 MHz)	14.22
Tune up	15.00

Power Level D1:

802.11ac(dBm)-80MHz	
Channel\data rate	6Mbps
42(5210 MHz)	11.24
58(5290 MHz)	11.43
106(5530 MHz)	11.38
122(5610 MHz)	11.24
138(5690 MHz)	11.95
155(5775 MHz)	12.38
Tune up	13.00

Power Level E1:

802.11ac(dBm)-80MHz	
Channel\data rate	6Mbps
42(5210 MHz)	16.13
58(5290 MHz)	16.65
106(5530 MHz)	16.37
122(5610 MHz)	16.23
138(5690 MHz)	17.15
155(5775 MHz)	17.02
Tune up	18.00

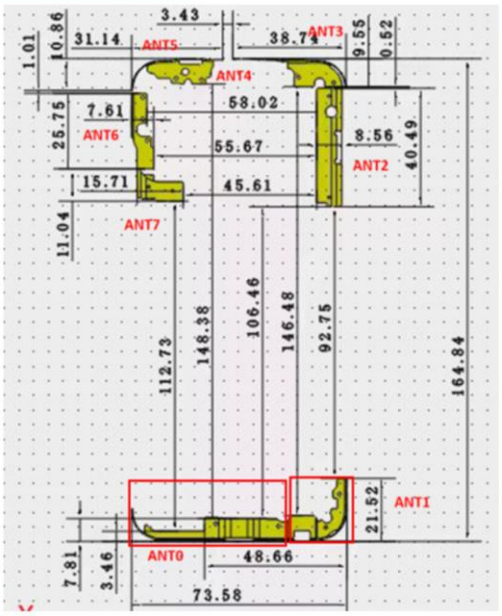
12 Simultaneous TX SAR Considerations

12.1 Introduction

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

12.2 Transmit Antenna Separation Distances

Antenna layout



ANT_NO.		Band			
		TRX	DRX	PRX_MIMO	DRX_MIMO
A	ANT0	GSM 850/900 WCDMA B5 LTE B5/12/26/71/7 NR n71		LTE B41 NR n41	
B	ANT1	GSM1800/1900 WCDMA B2/4 LTE B2/4/25/66 NR n66/25 LTE B2/66(NSA)	NR n77	LTE B2/66(NSA)	
C	ANT2		LTE B41 NR n41; LTE B2/66(NSA)	LTE B2/4/25/66 NR n66/25/77	
D	ANT3	LTE B41(HPUE) NR n41(HPUE) LTE B2/B66(NSA)	GSM850/900/1800/1900 WCDMA B2/4/5 LTE B2/4/5/12/25/26/66/71 NR n71/66/25/41		
E	ANT4	NR n77(HPUE)			
F	ANT5	GPS/WIFI(IEEE 802.11 a/b/g/n/ac)			
G	ANT6		LTE B7		LTE B4/25/41 LTE B2/66(SA/NSA) NR n25/66/41
H	ANT7				NR n77

Picture 12.1 Antenna Locations

12.3 SAR Measurement Positions

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

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
ANT0	Yes	Yes	Yes	Yes	No	Yes
ANT1	Yes	Yes	Yes	No	No	Yes
ANT3	Yes	Yes	Yes	No	Yes	No
ANT4	Yes	Yes	No	Yes	Yes	No
ANT5	Yes	Yes	No	Yes	Yes	No

13 Evaluation of Simultaneous

Table 13.1: The sum of SAR values for Main antenna + Wifi2.4G +BT

	Position	Main antenna	WiFi-2.4G	BT	Sum
Highest SAR value for Head	Left head, Cheek (ENDC 2A-n41A)	0.88	0.61	0.08	**1.57**
Highest SAR value for Body	Front 15mm (ENDC 2A-n41A)	1.24	0.24	<0.01	**1.48**

Table 13.2: The sum of SAR values for Main antenna + Wifi5G +BT

	Position	Main antenna	WiFi-5G	BT	Sum
Highest SAR value for Head	Left head, Cheek (ENDC 2A-n41A)	0.88	0.60	0.08	**1.56**
	Left head, Tilt (ENDC 66A-n25A)	0.78	0.72	0.06	**1.56**
Highest SAR value for Body	Front 15mm (ENDC 2A-n41A)	1.24	0.29	<0.01	**1.53**

Table 13.3: The SAR values for ENDC

LTE	NR	Mode	Position	Reported SAR 1g(W/kg)
LTE Band 2-ANT1	n41	Head	Right Tilt	**1.11(0.33+0.78)**
		Body	Front 15mm	**1.24(0.48+0.76)**
LTE Band 2-ANT3	n66	Head	Right Tilt	**0.72(0.57+0.15)**
		Body	Rear 10mm	**0.89(0.37+0.52)**
	n71	Head	Right Tilt	**0.67(0.57+0.10)**
		Body	Rear 15mm	**0.82(0.51+0.31)**
LTE Band 66-ANT1	n41	Head	Right Tilt	**0.94(0.16+0.78)**
		Body	Front 15mm	**1.13(0.37+0.76)**
LTE Band 66-ANT3	n25	Head	Right Tilt	**0.97(0.75+0.22)**
		Body	Rear 15mm	**0.75(0.28+0.47)**
	n71	Head	Right Tilt	**0.85(0.75+0.10)**
		Body	Rear 10mm	**0.61(0.30+0.31)**

Conclusion:

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

14 SAR Test Result

It is determined by user manual for the distance between the EUT and the phantom bottom.
The distance is 10 mm and just applied to the condition of body worn accessory.
It is performed for all SAR measurements with area scan based 1-g SAR estimation (Fast SAR). A zoom scan measurement is added when the estimated 1-g SAR is the highest measured SAR in each exposure configuration, wireless mode and frequency band combination or more than 1.2W/kg.
The calculated SAR is obtained by the following formula:

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

Where P_{Target} is the power of manufacturing upper limit;
$P_{Measured}$ is the measured power in chapter 11.

Table 14.1: Duty Cycle

Mode	Duty Cycle
GSM850/1900	1:2
WCDMA&LTE FDD&5G NR	1:1
LTE TDD	1:1.58 or 1:2.37

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

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

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	Left	Cheek	/	28.77	29.5	0.226	**0.27**	0.299	**0.35**	-0.13
190	836.6	Left	Tilt	/	28.77	29.5	0.116	**0.14**	0.145	**0.17**	-0.15
251	848.8	Right	Cheek	Fig.1	28.67	29.5	0.359	**0.43**	0.472	**0.57**	-0.06
190	836.6	Right	Cheek	/	28.77	29.5	0.309	**0.37**	0.42	**0.50**	0.06
128	824.2	Right	Cheek	/	28.85	29.5	0.339	**0.39**	0.46	**0.53**	0.13
190	836.6	Right	Tilt	/	32.31	33.50	0.107	**0.14**	0.135	**0.18**	-0.01

Note: the head SAR of GSM850 is tested with GPRS (4Txslots) mode because of VoIP.

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Mode (number of timeslots)	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (4)	Front	/	28.77	29.5	0.267	**0.32**	0.428	**0.51**	0.16
251	848.8	GPRS (4)	Rear	Fig.2	28.67	29.5	0.44	**0.53**	0.764	**0.92**	-0.18
190	836.6	GPRS (4)	Rear	/	28.77	29.5	0.369	**0.44**	0.63	**0.75**	0.02
128	824.2	GPRS (4)	Rear	/	28.85	29.5	0.371	**0.43**	0.636	**0.74**	-0.18
190	836.6	GPRS (4)	Left	/	28.77	29.5	0.158	**0.19**	0.238	**0.28**	-0.05
190	836.6	GPRS (4)	Right	/	28.77	29.5	0.362	**0.43**	0.584	**0.69**	0.06
190	836.6	GPRS (4)	Bottom	/	28.77	29.5	0.252	**0.30**	0.498	**0.59**	0.04
251	848.8	EGPRS (4)	Rear	/	28.65	29.5	0.363	**0.44**	0.6	**0.73**	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)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
512	1850.2	Left	Cheek	/	26.24	26.5	0.12	**0.13**	0.188	**0.20**	0.04
661	1880	Left	Cheek	Fig.3	26.04	26.5	0.13	**0.14**	0.2	**0.22**	0.05
810	1909.8	Left	Cheek	/	26.08	26.5	0.103	**0.11**	0.156	**0.17**	0.04
661	1880	Left	Tilt	/	26.04	26.5	0.06	**0.07**	0.113	**0.13**	-0.12
661	1880	Right	Cheek	/	26.04	26.5	0.111	**0.12**	0.175	**0.19**	0.18
661	1880	Right	Tilt	/	26.04	26.5	0.089	**0.10**	0.156	**0.17**	-0.03

Note: the head SAR of GSM1900 is tested with GPRS (4Txslots) mode because of VoIP.

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Mode (number of timeslots)	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	GPRS (4)	Front	/	26.04	26.5	0.238	**0.26**	0.4	**0.44**	-0.08
810	1909.8	GPRS (4)	Rear	/	26.24	26.5	0.344	**0.37**	0.613	**0.65**	-0.18
661	1880	GPRS (4)	Rear	/	26.04	26.5	0.364	**0.40**	0.625	**0.69**	0.12
512	1850.2	GPRS (4)	Rear	Fig.4	26.08	26.5	0.369	**0.41**	0.64	**0.70**	-0.01
661	1880	GPRS (4)	Left	/	26.04	26.5	0.154	**0.17**	0.281	**0.31**	-0.07
661	1880	GPRS (4)	Bottom	/	26.04	26.5	0.155	**0.17**	0.272	**0.30**	0.14
512	1850.2	EGPRS (4)	Rear	/	26.07	26.5	0.352	**0.39**	0.618	**0.68**	0.15

Note1: 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 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9538	1907.6	Left	Cheek	/	23.27	24	0.183	**0.22**	0.282	**0.33**	0.17
9400	1880	Left	Cheek	Fig.5	23.38	24	0.19	**0.22**	0.295	**0.34**	-0.03
9262	1852.4	Left	Cheek	/	23.53	24	0.186	**0.21**	0.285	**0.32**	-0.13
9400	1880	Left	Tilt	/	23.38	24	0.137	**0.16**	0.217	**0.25**	-0.03
9400	1880	Right	Cheek	/	23.38	24	0.143	**0.16**	0.221	**0.25**	0.08
9400	1880	Right	Tilt	/	23.38	24	0.13	**0.15**	0.212	**0.24**	-0.19

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Front	/	23.38	24	0.216	**0.25**	0.333	**0.38**	0.13
9538	1907.6	Rear	Fig.6	23.27	24	0.316	**0.37**	0.532	**0.63**	-0.05
9400	1880	Rear	/	23.38	24	0.298	**0.34**	0.504	**0.58**	0.04
9262	1852.4	Rear	/	23.53	24	0.254	**0.28**	0.422	**0.47**	0.05

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

Table 14.1-7: SAR Values (WCDMA 1900 MHz Band - Hotspot)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9400	1880	Front	/	20.83	22	0.278	**0.36**	0.468	**0.61**	-0.18
9538	1907.6	Rear	/	20.82	22	0.407	**0.53**	0.705	**0.93**	-0.10
9400	1880	Rear	Fig.7	20.83	22	0.423	**0.55**	0.729	**0.95**	-0.04
9262	1852.4	Rear	/	20.8	22	0.407	**0.54**	0.704	**0.93**	-0.04
9400	1880	Left	/	20.83	22	0.136	**0.18**	0.247	**0.32**	0.10
9400	1880	Bottom	/	20.83	22	0.277	**0.36**	0.472	**0.62**	0.08

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

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1513	1752.6	Left	Cheek	/	23.96	24	0.191	**0.19**	0.288	**0.29**	0.08
1412	1732.4	Left	Cheek	/	23.95	24	0.157	**0.16**	0.241	**0.24**	0.17
1312	1712.4	Left	Cheek	**Fig**.8	23.86	24	0.2	**0.21**	0.301	**0.31**	-0.06
1412	1732.4	Left	Tilt	**/**	23.95	24	0.118	**0.12**	0.184	**0.19**	-0.05
1412	1732.4	Right	Cheek	/	23.95	24	0.139	**0.14**	0.217	**0.22**	0.16
1412	1732.4	Right	Tilt	/	23.95	24	0.107	**0.11**	0.166	**0.17**	-0.01

Table 14.1-9: SAR Values (WCDMA 1700 MHz Band – Body worn)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.5	Front	/	23.95	24	0.196	**0.20**	0.304	**0.31**	-0.15
1513	1752.6	Rear	/	23.96	24	0.248	**0.25**	0.372	**0.38**	0.03
1412	1732.5	Rear	/	23.95	24	0.249	**0.25**	0.376	**0.38**	-0.14
1312	1712.4	Rear	**Fig**.9	23.86	24	0.260	**0.27**	0.395	**0.41**	-0.2

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

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1412	1732.5	Front	/	20.91	22	0.268	**0.34**	0.419	**0.54**	0.07
1513	1752.6	Rear	/	20.9	22	0.413	**0.53**	0.637	**0.82**	-0.09
1412	1732.5	Rear	Fig.10	20.91	22	0.433	**0.56**	0.667	**0.86**	-0.07
1312	1712.4	Rear	/	20.93	22	0.428	**0.55**	0.655	**0.84**	-0.13
1412	1732.5	Left	/	20.91	22	0.238	**0.31**	0.432	**0.56**	0.04
1412	1732.5	Bottom	/	20.91	22	0.275	**0.35**	0.47	**0.60**	0.14

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

Table 14.1-11: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4183	836.6	Left	Cheek	/	23.06	24	0.174	**0.22**	0.228	**0.28**	0.17
4183	836.6	Left	Tilt	/	23.06	24	0.077	**0.10**	0.098	**0.12**	0.09
4132	826.4	Right	Cheek	Fig.11	22.99	24	0.248	**0.31**	0.324	**0.41**	0.03
4183	836.6	Right	Cheek	/	23.06	24	0.242	**0.30**	0.317	**0.39**	-0.02
4233	846.6	Right	Cheek	/	23.12	24	0.239	**0.29**	0.311	**0.38**	0.07
4183	836.6	Right	Tilt	/	23.06	24	0.123	**0.15**	0.157	**0.19**	-0.05

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4183	836.6	Front	/	23.06	24	0.204	**0.25**	0.333	**0.41**	0.19
4233	846.6	Rear	Fig.12	22.99	24	0.305	**0.38**	0.521	**0.66**	-0.02
4183	836.6	Rear	/	23.06	24	0.269	**0.33**	0.463	**0.57**	-0.17
4132	826.4	Rear	/	23.12	24	0.249	**0.30**	0.421	**0.52**	0.12
4183	836.6	Left	/	23.06	24	0.107	**0.13**	0.169	**0.21**	0.11
4183	836.6	Right	/	23.06	24	0.18	**0.22**	0.284	**0.35**	0.16
4183	836.6	Bottom	/	23.06	24	0.158	**0.20**	0.307	**0.38**	0.15

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

Table 14.1-13: SAR Values (LTE Band2 ANT1- Head)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
19100	1900	1RB_Mid	Left	Cheek	Fig.13	22.83	24.5	0.183	**0.27**	0.291	**0.43**	0.09
19100	1900	1RB_Mid	Left	Tilt	/	22.83	24.5	0.142	**0.21**	0.244	**0.36**	0.08
19100	1900	1RB_Mid	Right	Cheek	/	22.83	24.5	0.118	**0.17**	0.189	**0.28**	-0.12
19100	1900	1RB_Mid	Right	Tilt	/	22.83	24.5	0.137	**0.20**	0.227	**0.33**	0.07
19100	1900	50RB-Low	Left	Cheek	/	21.83	23.5	0.179	**0.26**	0.28	**0.41**	0.01
19100	1900	50RB-Low	Left	Tilt	/	21.83	23.5	0.101	**0.15**	0.163	**0.24**	0.12
19100	1900	50RB-Low	Right	Cheek	/	21.83	23.5	0.104	**0.15**	0.165	**0.24**	0.14
19100	1900	50RB-Low	Right	Tilt	/	21.83	23.5	0.111	**0.16**	0.19	**0.28**	0.19

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-14: SAR Values (LTE Band2 ANT1– Body worn)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
19100	1900	1RB-Mid Front	/	22.83	24.5	0.207	**0.30**	0.324	**0.48**	0.09
19100	1900	1RB-Mid Rear	Fig.14	22.83	24.5	0.255	**0.37**	0.439	**0.64**	-0.01
19100	1900	50RB-Low Front	/	21.83	23.5	0.169	**0.25**	0.265	**0.39**	-0.15
19100	1900	50RB-Low Rear	/	21.83	23.5	0.215	**0.32**	0.375	**0.55**	0.09

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-15: SAR Values (LTE Band2 ANT1 – Hotspot)

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
18700	1860	1RB-Low Front	/	21.1	22	0.235	**0.29**	0.385	**0.47**	0.02
18700	1860	1RB-Low Rear	Fig.15	21.1	22	0.351	**0.43**	0.603	**0.74**	-0.05
18700	1860	1RB-Low Left	/	21.1	22	0.16	**0.20**	0.285	**0.35**	-0.03
18700	1860	1RB-Low Bottom	/	21.1	22	0.263	**0.32**	0.444	**0.55**	-0.12
18700	1860	50RB-Mid Front	/	19.89	21	0.18	**0.23**	0.292	**0.38**	0.14
18700	1860	50RB-Mid Rear	/	19.89	21	0.28	**0.36**	0.462	**0.60**	-0.09
18700	1860	50RB-Mid Left	/	19.89	21	0.12	**0.15**	0.218	**0.28**	0.06

18700	1860	50RB-Mid Bottom	/	19.89	21	0.19	**0.25**	0.315	**0.41**	-0.15
18700	1860	1RB-Mid Front	Note3	18.47	20	0.086	**0.12**	0.13	**0.18**	-0.13
18700	1860	1RB-Mid Rear	Note3	18.47	20	0.143	**0.20**	0.244	**0.35**	0.04
18700	1860	1RB-Mid Left	Note3	18.47	20	0.067	**0.10**	0.116	**0.16**	0.12
18700	1860	1RB-Mid Bottom	Note3	18.47	20	0.094	**0.13**	0.154	**0.22**	0.10
19100	1900	50RB-Mid Front	Note3	18.46	20	0.083	**0.12**	0.127	**0.18**	0.18
19100	1900	50RB-Mid Rear	Note3	18.46	20	0.138	**0.20**	0.223	**0.32**	0.13
19100	1900	50RB-Mid Left	Note3	18.46	20	0.067	**0.10**	0.114	**0.16**	-0.02
19100	1900	50RB-Mid Bottom	Note3	18.46	20	0.111	**0.16**	0.181	**0.26**	-0.15

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

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

Table 14.1-16: SAR Values (LTE Band2 ANT3- Head)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
18700	1860	1RB_Mid	Left	Cheek	/	13.86	15	0.13	**0.17**	0.25	**0.33**	-0.11
18700	1860	1RB_Mid	Left	Tilt	/	13.86	15	0.153	**0.20**	0.302	**0.39**	0.05
18700	1860	1RB_Mid	Right	Cheek	/	13.86	15	0.121	**0.16**	0.228	**0.30**	0.09
18700	1860	1RB_Mid	Right	Tilt	Fig.16	13.86	15	0.195	**0.25**	0.436	**0.57**	0.08
18700	1860	50RB-Low	Left	Cheek	/	13.91	15	0.157	**0.20**	0.285	**0.37**	-0.11
18700	1860	50RB-Low	Left	Tilt	/	13.91	15	0.154	**0.20**	0.305	**0.39**	0.13
18700	1860	50RB-Low	Right	Cheek	/	13.91	15	0.156	**0.20**	0.33	**0.42**	0.09
18700	1860	50RB-Low	Right	Tilt	/	13.91	15	0.159	**0.20**	0.358	**0.46**	0.03

Note1: The LTE mode is QPSK_20MHz.

Note2: All the results are for ENDC only.

Table 14.1-17: SAR Values (LTE Band2 ANT3– Body worn)

Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
18700	1860	1RB-Low Front	/	22.38	24	0.186	**0.27**	0.328	**0.48**	0.12
18700	1860	1RB-Low Rear	Fig.17	22.38	24	0.202	**0.29**	0.352	**0.51**	-0.04
18700	1860	50RB-Low Front	/	21.4	23	0.14	**0.20**	0.247	**0.36**	-0.15
18700	1860	50RB-Low Rear	/	21.4	23	0.154	**0.22**	0.269	**0.39**	0.08

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

Note2: The LTE mode is QPSK_20MHz.

Note3: All the results are for ENDC only.

Table 14.1-18: SAR Values (LTE Band2 ANT3 – Hotspot)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
18700	1860	1RB-Low Front	/	18.6	20	0.142	**0.20**	0.266	**0.37**	-0.11
18700	1860	1RB-Low Rear	/	18.6	20	0.149	**0.21**	0.267	**0.37**	0.09
18700	1860	1RB-Low Left	/	18.6	20	0.037	**0.05**	0.063	**0.09**	-0.06
18700	1860	1RB-Low Top	Fig.18	18.6	20	0.208	**0.29**	0.418	**0.58**	-0.04
18700	1860	50RB-Low Front	/	18.59	20	0.136	**0.19**	0.257	**0.36**	0.03
18700	1860	50RB-Low Rear	/	18.59	20	0.141	**0.20**	0.256	**0.35**	-0.12
18700	1860	50RB-Low Left	/	18.59	20	0.035	**0.05**	0.06	**0.08**	-0.03
18700	1860	50RB-Low Top	/	18.59	20	0.198	**0.27**	0.394	**0.55**	0.07

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

Note2: The LTE mode is QPSK_10MHz.

Note3: All the results are for ENDC only.

Table 14.1-19: SAR Values (LTE Band7 - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
21350	2560	1RB_Mid	Left	Cheek	Fig.19	24.24	24.5	0.123	**0.13**	0.23	**0.24**	0.17
21350	2560	1RB_Mid	Left	Tilt	/	24.24	24.5	0.091	**0.10**	0.18	**0.19**	-0.16
21350	2560	1RB_Mid	Right	Cheek	/	24.24	24.5	0.109	**0.12**	0.218	**0.23**	-0.19
21350	2560	1RB_Mid	Right	Tilt	/	24.24	24.5	0.056	**0.06**	0.106	**0.11**	0.03
21350	2560	50RB-High	Left	Cheek	/	23.42	23.5	0.097	**0.10**	0.177	**0.18**	-0.02
21350	2560	50RB-High	Left	Tilt	/	23.42	23.5	0.062	**0.06**	0.12	**0.12**	-0.17
21350	2560	50RB-High	Right	Cheek	/	23.42	23.5	0.086	**0.09**	0.173	**0.18**	0.15
21350	2560	50RB-High	Right	Tilt	/	23.42	23.5	0.056	**0.06**	0.102	**0.10**	0.02

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-20: SAR Values (LTE Band7 – Body worn)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
21350	2560	1RB-Mid Front	/	24.24	24.5	0.258	**0.27**	0.520	**0.55**	-0.06
21350	2560	1RB-Mid Rear	Fig.20	24.24	24.5	0.296	**0.31**	0.589	**0.63**	-0.01
21350	2560	50RB-High Front	/	23.42	23.5	0.211	**0.21**	0.428	**0.44**	-0.19
21350	2560	50RB-High Rear	/	23.42	23.5	0.248	**0.25**	0.492	**0.50**	0.19

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-21: SAR Values (LTE Band7 – Hotspot)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
21350	2560	1RB-Mid Front	/	20.51	21	0.207	**0.23**	0.466	**0.52**	-0.14
21350	2560	1RB-Mid Rear	/	20.51	21	0.145	**0.16**	0.323	**0.36**	0.11
21350	2560	1RB-Mid Left	/	20.51	21	0.049	**0.05**	0.089	**0.10**	-0.19
21350	2560	1RB-Mid Bottom	/	20.51	21	0.437	**0.49**	0.975	**1.09**	-0.16
21100	2535	1RB-Mid Bottom	Fig.21	20.45	21	0.453	**0.51**	1.03	**1.17**	0.18
20850	2510	1RB-Mid Bottom	/	20.4	21	0.412	**0.47**	0.927	**1.06**	-0.12
21100	2535	100RB Bottom	/	19.27	20	0.381	**0.45**	0.845	**1.00**	-0.09
21350	2560	50RB-High Front	/	19.68	20	0.13	**0.14**	0.286	**0.31**	0.05
21350	2560	50RB-High Rear	/	19.68	20	0.116	**0.12**	0.257	**0.28**	0.03
21350	2560	50RB-High Left	/	19.68	20	0.021	**0.02**	0.04	**0.04**	0.13
21350	2560	50RB-High Bottom	/	19.68	20	0.383	**0.41**	0.852	**0.92**	0.19
21100	2535	50RB-High Bottom	/	19.55	20	0.378	**0.42**	0.838	**0.93**	-0.19
20850	2510	50RB-High Bottom	/	19.5	20	0.358	**0.40**	0.824	**0.92**	-0.14

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-22: SAR Values (LTE Band12 - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23060	704	1RB-Low	Left	Cheek	Fig.22	23.23	24.5	0.192	**0.26**	0.241	**0.32**	0.04
23060	704	1RB-Low	Left	Tilt	/	23.23	24.5	0.055	**0.07**	0.068	**0.09**	0.14
23060	704	1RB-Low	Right	Cheek	/	23.23	24.5	0.133	**0.18**	0.169	**0.23**	-0.19
23060	704	1RB-Low	Right	Tilt	/	23.23	24.5	0.114	**0.15**	0.142	**0.19**	-0.05
23060	704	25RB-Low	Left	Cheek	/	22.18	23.5	0.146	**0.20**	0.183	**0.25**	-0.07
23060	704	25RB-Low	Left	Tilt	/	22.18	23.5	0.077	**0.10**	0.088	**0.12**	-0.19
23060	704	25RB-Low	Right	Cheek	/	22.18	23.5	0.12	**0.16**	0.153	**0.21**	-0.13
23060	704	25RB-Low	Right	Tilt	/	22.18	23.5	0.099	**0.13**	0.126	**0.17**	0.10

Note1: The LTE mode is QPSK_10MHz.

Table 14.1-23: SAR Values (LTE Band12 – Body)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
23060	704	1RB-Low Front	/	23.23	24.5	0.145	**0.19**	0.195	**0.26**	0.01
23060	704	1RB-Low Rear	/	23.23	24.5	0.191	**0.26**	0.257	**0.34**	0.18
23060	704	1RB-Low Left	/	23.23	24.5	0.12	**0.16**	0.176	**0.24**	0.05
23060	704	1RB-Low Right	Fig.23	23.23	24.5	0.198	**0.27**	0.291	**0.39**	-0.20
23060	704	1RB-Low Bottom	/	23.23	24.5	0.068	**0.09**	0.143	**0.19**	0.19
23060	704	25RB-Low Front	/	22.18	23.5	0.12	**0.16**	0.161	**0.22**	0.07
23060	704	25RB-Low Rear	/	22.18	23.5	0.157	**0.21**	0.212	**0.29**	-0.02
23060	704	25RB-Low Left	/	22.18	23.5	0.099	**0.13**	0.145	**0.20**	0.03
23060	704	25RB-Low Right	/	22.18	23.5	0.163	**0.22**	0.24	**0.33**	-0.02
23060	704	25RB-Low Bottom	/	22.18	23.5	0.057	**0.08**	0.119	**0.16**	-0.12

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

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-24: SAR Values (LTE Band25 - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26140	1860	1RB-Mid	Left	Cheek	Fig.24	23.3	24.5	0.142	**0.19**	0.222	**0.29**	0.19
26140	1860	1RB-Mid	Left	Tilt	/	23.3	24.5	0.078	**0.10**	0.127	**0.17**	-0.19
26140	1860	1RB-Mid	Right	Cheek	/	23.3	24.5	0.053	**0.07**	0.086	**0.11**	0.08
26140	1860	1RB-Mid	Right	Tilt	/	23.3	24.5	0.057	**0.08**	0.096	**0.13**	0.11
26140	1860	50RB-Low	Left	Cheek	/	22.33	23.5	0.082	**0.11**	0.126	**0.16**	-0.11
26140	1860	50RB-Low	Left	Tilt	/	22.33	23.5	0.056	**0.07**	0.09	**0.12**	-0.14
26140	1860	50RB-Low	Right	Cheek	/	22.33	23.5	0.09	**0.12**	0.144	**0.19**	-0.02
26140	1860	50RB-Low	Right	Tilt	/	22.33	23.5	0.046	**0.06**	0.078	**0.10**	-0.02

Note1: The LTE mode is QPSK_20MHz.

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
26140	1860	1RB-Mid Front	/	23.3	24.5	0.166	**0.22**	0.266	**0.35**	-0.18
26140	1860	1RB-Mid Rear	Fig.25	23.3	24.5	0.229	**0.30**	0.395	**0.52**	0.04
26140	1860	50RB-Low Front	/	22.33	23.5	0.135	**0.18**	0.215	**0.28**	-0.17
26140	1860	50RB-Low Rear	/	22.33	23.5	0.181	**0.24**	0.313	**0.41**	-0.01

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

Note2: The LTE mode is QPSK_20MHz.

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

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
262590	1905	1RB-Mid Front	/	20.98	22	0.183	**0.23**	0.317	**0.40**	-0.08
262590	1905	1RB-Mid Rear	Fig.26	20.98	22	0.325	**0.41**	0.562	**0.71**	-0.04
262590	1905	1RB-Mid Left	/	20.98	22	0.099	**0.13**	0.183	**0.23**	-0.16
262590	1905	1RB-Mid Bottom	/	20.98	22	0.152	**0.19**	0.253	**0.32**	0.01
262590	1905	50RB-Low Front	/	20.2	21	0.18	**0.22**	0.299	**0.36**	0.10
262590	1905	50RB-Low Rear	/	20.2	21	0.242	**0.29**	0.419	**0.50**	0.06
262590	1905	50RB-Low Left	/	20.2	21	0.078	**0.09**	0.142	**0.17**	0.11
262590	1905	50RB-Low Bottom	/	20.2	21	0.131	**0.16**	0.208	**0.25**	0.12

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

Note2: The LTE mode is QPSK_20MHz.

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

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
26965	841.5	1RB-High	Left	Cheek	/	22.98	24.5	0.166	**0.24**	0.219	**0.31**	0.12
26965	841.5	1RB-High	Left	Tilt	/	22.98	24.5	0.089	**0.13**	0.112	**0.16**	0.09
26965	841.5	1RB-High	Right	Cheek	Fig.27	22.98	24.5	0.205	**0.29**	0.268	**0.38**	0.02
26965	841.5	1RB-High	Right	Tilt	/	22.98	24.5	0.084	**0.12**	0.107	**0.15**	-0.15
26965	841.5	36RB-Mid	Left	Cheek	/	21.96	23.5	0.118	**0.17**	0.154	**0.22**	-0.18
26965	841.5	36RB-Mid	Left	Tilt	/	21.96	23.5	0.06	**0.09**	0.076	**0.11**	0.19
26965	841.5	36RB-Mid	Right	Cheek	/	21.96	23.5	0.161	**0.23**	0.21	**0.30**	0.09
26965	841.5	36RB-Mid	Right	Tilt	/	21.96	23.5	0.086	**0.12**	0.109	**0.16**	-0.08

Note1: The LTE mode is QPSK_15MHz.

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
26965	841.5	1RB-Mid Front	/	22.98	24.5	0.186	**0.26**	0.291	**0.41**	0.11
26965	841.5	1RB-Mid Rear	Fig.28	22.98	24.5	0.248	**0.35**	0.417	**0.59**	-0.01
26965	841.5	1RB-Mid Left	/	22.98	24.5	0.097	**0.14**	0.146	**0.21**	-0.18
26965	841.5	1RB-Mid Right	/	22.98	24.5	0.155	**0.22**	0.232	**0.33**	-0.08
26965	841.5	1RB-Mid Bottom	/	22.98	24.5	0.141	**0.20**	0.26	**0.37**	-0.05
26965	841.5	36RB-Mid Front	/	21.96	23.5	0.148	**0.21**	0.231	**0.33**	-0.16
26965	841.5	36RB-Mid Rear	/	21.96	23.5	0.194	**0.28**	0.326	**0.46**	0.04
26965	841.5	36RB-Mid Left	/	21.96	23.5	0.076	**0.11**	0.115	**0.16**	0.11
26965	841.5	36RB-Mid Right	/	21.96	23.5	0.121	**0.17**	0.18	**0.26**	-0.10
26965	841.5	36RB-Mid Bottom	/	21.96	23.5	0.111	**0.16**	0.206	**0.29**	-0.05

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

Note2: The LTE mode is QPSK_15MHz.

Table 14.1-29: SAR Values (LTE Band41 PC3 - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
39750	2506	1RB-Mid	Left	Cheek	/	15.73	16	0.082	**0.09**	0.164	**0.17**	0.15
39750	2506	1RB-Mid	Left	Tilt	/	15.73	16	0.098	**0.10**	0.211	**0.22**	0.17
39750	2506	1RB-Mid	Right	Cheek	/	15.73	16	0.235	**0.25**	0.501	**0.53**	-0.09
39750	2506	1RB-Mid	Right	Tilt	Fig.29	15.73	16	0.236	**0.25**	0.582	**0.62**	0.02
39750	2506	50RB-Low	Left	Cheek	/	14.74	15	0.052	**0.06**	0.103	**0.11**	0.17
39750	2506	50RB-Low	Left	Tilt	/	14.74	15	0.088	**0.09**	0.196	**0.21**	-0.03
39750	2506	50RB-Low	Right	Cheek	/	14.74	15	0.154	**0.16**	0.311	**0.33**	0.14
39750	2506	50RB-Low	Right	Tilt	/	14.74	15	0.19	**0.20**	0.448	**0.48**	0.04
39750	2506	UL CA	Right	Tilt	/	14.85	16	0.167	**0.22**	0.415	**0.54**	0.09

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-30: SAR Values (LTE Band41 PC3– Body worn)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
40620	2593	1RB-Mid Front	Fig.30	23.78	24.50	0.208	**0.25**	0.385	**0.45**	-0.17
40620	2593	1RB-Mid Rear	/	23.78	24.50	0.172	**0.20**	0.342	**0.40**	0.13
40620	2593	50RB-Low Front	/	22.73	23.50	0.179	**0.21**	0.329	**0.39**	-0.17
40620	2593	50RB-Low Rear	/	22.73	23.50	0.146	**0.17**	0.289	**0.35**	-0.12
41490	2680	UL CA Front	/	22.75	24.50	0.138	**0.21**	0.256	**0.38**	0.06

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-31: SAR Values (LTE Band41 PC3 – Hotspot)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
41490	2680	1RB-Mid Front	/	18.88	19	0.118	**0.12**	0.223	**0.23**	0.12
41490	2680	1RB-Mid Rear	/	18.88	19	0.091	**0.09**	0.188	**0.19**	-0.13
41490	2680	1RB-Mid Left	/	18.88	19	0.088	**0.09**	0.178	**0.18**	0.04
41490	2680	1RB-Mid Top	Fig.31	18.88	19	0.105	**0.11**	0.265	**0.27**	0.04
41490	2680	50RB-High Front	/	17.88	18	0.092	**0.09**	0.173	**0.18**	-0.13
41490	2680	50RB-High Rear	/	17.88	18	0.075	**0.08**	0.153	**0.16**	0.10
41490	2680	50RB-High Left	/	17.88	18	0.066	**0.07**	0.137	**0.14**	-0.08
41490	2680	50RB-High Top	/	17.88	18	0.088	**0.09**	0.235	**0.24**	0.05
39750	2506	UL CA Top	/	18.54	19	0.081	**0.09**	0.227	**0.25**	-0.09

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-32: SAR Values (LTE Band41 PC2 - Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
39750	2506	1RB-Mid	Left	Cheek	/	18.77	19.5	0.104	**0.12**	0.222	**0.26**	0.16
39750	2506	1RB-Mid	Left	Tilt	/	18.77	19.5	0.138	**0.16**	0.305	**0.36**	0.13
39750	2506	1RB-Mid	Right	Cheek	/	18.77	19.5	0.213	**0.25**	0.466	**0.55**	0.13
41490	2680	1RB-Mid	Right	Tilt	/	18.68	19.5	0.262	**0.32**	0.627	**0.76**	0.19
41055	2636.5	1RB-Mid	Right	Tilt	/	18.54	19.5	0.316	**0.39**	0.766	**0.96**	-0.16
40620	2593	1RB-Mid	Right	Tilt	Fig.32	18.74	19.5	0.362	**0.43**	0.892	**1.06**	0.07
40185	2549.5	1RB-Mid	Right	Tilt	/	18.38	19.5	0.32	**0.41**	0.8	**1.04**	-0.09
39750	2506	1RB-Mid	Right	Tilt	/	18.77	19.5	0.314	**0.37**	0.776	**0.92**	0.19
40620	2593	1RB-Mid	Right	Tilt	/	17.67	18.5	0.285	**0.35**	0.701	**0.85**	-0.07
39750	2506	50RB-Low	Left	Cheek	/	17.77	18.5	0.072	**0.09**	0.165	**0.20**	0.15
39750	2506	50RB-Low	Left	Tilt	/	17.77	18.5	0.101	**0.12**	0.229	**0.27**	0.09
39750	2506	50RB-Low	Right	Cheek	/	17.77	18.5	0.213	**0.25**	0.475	**0.56**	0.07
39750	2506	50RB-Low	Right	Tilt	/	17.77	18.5	0.252	**0.30**	0.638	**0.75**	0.14
39750	2506	UL CA	Right	Tilt	/	17.9	19.5	0.285	**0.41**	0.701	**1.01**	0.06

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-33: SAR Values (LTE Band41 PC2– Body worn)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
41490	2680	1RB-High Front	Fig.33	26.61	27.50	0.183	**0.22**	0.327	**0.40**	-0.03
41490	2680	1RB-High Rear	/	26.61	27.50	0.116	**0.14**	0.223	**0.27**	-0.01
41490	2680	50RB-Mid Front	/	27.57	26.50	0.169	**0.13**	0.303	**0.24**	-0.12
41490	2680	50RB-Mid Rear	/	27.57	26.50	0.109	**0.09**	0.214	**0.17**	0.03
39750	2506	UL CA Front	/	26.04	27.50	0.152	**0.21**	0.275	**0.38**	-0.03

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-34: SAR Values (LTE Band41 PC2 – Hotspot)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
41490	2680	1RB-Mid Front	/	21.87	22.5	0.139	**0.16**	0.274	**0.32**	0.15
41490	2680	1RB-Mid Rear	/	21.87	22.5	0.102	**0.12**	0.216	**0.25**	0.03
41490	2680	1RB-Mid Left	/	21.87	22.5	0.104	**0.12**	0.219	**0.25**	-0.13
41490	2680	1RB-Mid Top	Fig.34	21.87	22.5	0.136	**0.16**	0.342	**0.40**	-0.08
41490	2680	50RB-High Front	/	20.87	21.5	0.108	**0.12**	0.211	**0.24**	0.19
41490	2680	50RB-High Rear	/	20.87	21.5	0.077	**0.09**	0.163	**0.19**	0.14
41490	2680	50RB-High Left	/	20.87	21.5	0.119	**0.14**	0.256	**0.30**	-0.15
41490	2680	50RB-High Top	/	20.87	21.5	0.097	**0.11**	0.259	**0.30**	0.07
39750	2506	UL CA Top	/	21.58	22.5	0.078	**0.10**	0.303	**0.37**	0.09

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

Note2: The LTE mode is QPSK_20MHz.

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132572	1770	1RB-Mid	Left	Cheek	Fig.35	23.86	24.5	0.158	**0.18**	0.24	**0.28**	0.02
132572	1770	1RB-Mid	Left	Tilt	/	23.86	24.5	0.146	**0.17**	0.22	**0.25**	-0.12
132572	1770	1RB-Mid	Right	Cheek	/	23.86	24.5	0.134	**0.16**	0.212	**0.25**	-0.06
132572	1770	1RB-Mid	Right	Tilt	/	23.86	24.5	0.086	**0.10**	0.14	**0.16**	0.03
132572	1770	50RB-Low	Left	Cheek	/	22.83	23.5	0.139	**0.16**	0.217	**0.25**	-0.12
132572	1770	50RB-Low	Left	Tilt	/	22.83	23.5	0.091	**0.11**	0.144	**0.17**	0.08
132572	1770	50RB-Low	Right	Cheek	/	22.83	23.5	0.115	**0.13**	0.183	**0.21**	-0.15
132572	1770	50RB-Low	Right	Tilt	/	22.83	23.5	0.07	**0.08**	0.111	**0.13**	-0.16

Note1: The LTE mode is QPSK_20MHz.

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
132572	1770	1RB-Mid Front	/	23.86	24.5	0.205	**0.24**	0.317	**0.37**	0.04
132572	1770	1RB-Mid Rear	Fig.36	23.86	24.5	0.278	**0.32**	0.425	**0.49**	0.03
132572	1770	50RB-Low Front	/	22.83	23.5	0.169	**0.20**	0.262	**0.31**	-0.14
132572	1770	50RB-Low Rear	/	22.83	23.5	0.229	**0.27**	0.351	**0.41**	0.06

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-37: SAR Values (LTE Band66 ANT1– Hotspot)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
132572	1770	1RB-Mid Front	Fig.37	20.9	22	0.304	**0.39**	0.477	**0.61**	-0.08
132572	1770	1RB-Mid Rear	/	20.9	22	0.277	**0.36**	0.432	**0.56**	-0.10
132572	1770	1RB-Mid Left	/	20.9	22	0.097	**0.12**	0.161	**0.21**	0.19
132572	1770	1RB-Mid Bottom	/	20.9	22	0.265	**0.34**	0.42	**0.54**	-0.02
132572	1770	50RB-Low Front	/	20.13	21	0.247	**0.30**	0.38	**0.46**	-0.02
132572	1770	50RB-Low Rear	/	20.13	21	0.255	**0.31**	0.38	**0.46**	0.11
132572	1770	50RB-Low Left	/	20.13	21	0.092	**0.11**	0.159	**0.19**	-0.12
132572	1770	50RB-Low Bottom	/	20.13	21	0.224	**0.27**	0.347	**0.42**	0.12
132322	1745	1RB-Mid Front	Note3	18.49	20	0.092	**0.13**	0.143	**0.20**	0.13
132322	1745	1RB-Mid Rear	Note3	18.49	20	0.137	**0.19**	0.209	**0.30**	0.02
132322	1745	1RB-Mid Left	Note3	18.49	20	0.083	**0.12**	0.14	**0.20**	-0.13
132322	1745	1RB-Mid Bottom	Note3	18.49	20	0.07	**0.10**	0.108	**0.15**	0.05
132322	1745	50RB-Mid Front	Note3	18.49	20	0.09	**0.13**	0.139	**0.20**	0.11
132322	1745	50RB-Mid Rear	Note3	18.49	20	0.132	**0.19**	0.2	**0.28**	-0.11
132322	1745	50RB-Mid Left	Note3	18.49	20	0.083	**0.12**	0.138	**0.20**	-0.04
132322	1745	50RB-Mid Bottom	Note3	18.49	20	0.074	**0.10**	0.117	**0.17**	-0.14

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

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

Table 14.1-38: SAR Values (LTE Band66 ANT3- Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
132322	1745	1RB-Mid	Left	Cheek	Note2	16.6	18	0.172	**0.24**	0.316	**0.44**	-0.12
132322	1745	1RB-Mid	Left	Tilt	Note2	16.6	18	0.207	**0.29**	0.403	**0.56**	0.11
132322	1745	1RB-Mid	Right	Cheek	Note2	16.6	18	0.221	**0.31**	0.434	**0.60**	-0.01
132322	1745	1RB-Mid	Right	Tilt	Note2/ Fig.38	16.6	18	0.249	**0.34**	0.543	**0.75**	0.04
132322	1745	50RB-Mid	Left	Cheek	Note2	16.55	18	0.185	**0.26**	0.345	**0.48**	0.04
132322	1745	50RB-Mid	Left	Tilt	Note2	16.55	18	0.213	**0.30**	0.414	**0.58**	-0.01
132322	1745	50RB-Mid	Right	Cheek	Note2	16.55	18	0.255	**0.36**	0.542	**0.76**	0.14
132322	1745	50RB-Mid	Right	Tilt	Note2	16.55	18	0.248	**0.35**	0.531	**0.74**	0.12
132322	1745	1RB-Mid	Left	Cheek	Note3	14.55	16	0.065	**0.09**	0.124	**0.17**	0.15
132322	1745	1RB-Mid	Left	Tilt	Note3	14.55	16	0.078	**0.11**	0.153	**0.21**	-0.17
132322	1745	1RB-Mid	Right	Cheek	Note3	14.55	16	0.075	**0.10**	0.149	**0.21**	0.15
132322	1745	1RB-Mid	Right	Tilt	Note3	14.55	16	0.087	**0.12**	0.185	**0.26**	0.17
132322	1745	50RB-Mid	Left	Cheek	Note3	14.55	16	0.067	**0.09**	0.13	**0.18**	0.10
132322	1745	50RB-Mid	Left	Tilt	Note3	14.55	16	0.075	**0.10**	0.15	**0.21**	-0.04
132322	1745	50RB-Mid	Right	Cheek	Note3	14.55	16	0.063	**0.09**	0.121	**0.17**	0.10
132322	1745	50RB-Mid	Right	Tilt	Note3	14.55	16	0.085	**0.12**	0.189	**0.26**	-0.07

Note1: The LTE mode is QPSK_20MHz.

Note2: The results are for cellular antenna transmit alone.

Note3: The results are for cellular antenna transmit with WIFI.

Note4: All the results are for ENDC only.

Table 14.1-39: SAR Values (LTE Band66 ANT3 – Body worn)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
132322	1745	1RB-Mid Front	Fig.39	22.53	24	0.123	**0.17**	0.21	**0.29**	-0.17
132322	1745	1RB-Mid Rear	/	22.53	24	0.121	**0.17**	0.201	**0.28**	0.18
132322	1745	50RB-Mid Front	/	21.54	23	0.098	**0.14**	0.166	**0.23**	0.11
132322	1745	50RB-Mid Rear	/	21.54	23	0.095	**0.13**	0.158	**0.22**	-0.13

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

Note2: The LTE mode is QPSK_20MHz.

Note3: All the results are for ENDC only.

Table 14.1-40 SAR Values (LTE Band66 ANT3 – Hotspot)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
132322	1745	1RB-Mid Front	/	20.52	22	0.133	**0.19**	0.238	**0.33**	-0.15
132322	1745	1RB-Mid Rear	/	20.52	22	0.134	**0.19**	0.222	**0.31**	0.11
132322	1745	1RB-Mid Left	/	20.52	22	0.04	**0.06**	0.065	**0.09**	-0.05
132322	1745	1RB-Mid Top	Fig.40	20.52	22	0.182	**0.26**	0.352	**0.49**	-0.02
132322	1745	50RB-Mid Front	/	20.51	22	0.131	**0.18**	0.227	**0.32**	-0.13
132322	1745	50RB-Mid Rear	/	20.51	22	0.134	**0.19**	0.22	**0.31**	-0.03
132322	1745	50RB-Mid Left	/	20.51	22	0.041	**0.06**	0.066	**0.09**	-0.16
132322	1745	50RB-Mid Top	/	20.51	22	0.179	**0.25**	0.34	**0.48**	-0.11

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

Note2: The LTE mode is QPSK_20MHz.

Note3: All the results are for ENDC only.

Table 14.1-41: SAR Values (LTE Band71- Head)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
133322	683	1RB-Mid	Left	Cheek	/	23.16	24.5	0.205	**0.28**	0.26	**0.35**	0.10
133322	683	1RB-Mid	Left	Tilt	/	23.16	24.5	0.107	**0.15**	0.133	**0.18**	0.03
133322	683	1RB-Mid	Right	Cheek	Fig.41	23.16	24.5	0.211	**0.29**	0.269	**0.37**	0.04
133322	683	1RB-Mid	Right	Tilt	/	23.16	24.5	0.185	**0.25**	0.235	**0.32**	-0.14
133322	683	50RB-Low	Left	Cheek	/	22.15	23.5	0.151	**0.21**	0.189	**0.26**	-0.03
133322	683	50RB-Low	Left	Tilt	/	22.15	23.5	0.161	**0.22**	0.2	**0.27**	0.06
133322	683	50RB-Low	Right	Cheek	/	22.15	23.5	0.183	**0.25**	0.236	**0.32**	0.07
133322	683	50RB-Low	Right	Tilt	/	22.15	23.5	0.142	**0.19**	0.177	**0.24**	-0.13

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-42 SAR Values (LTE Band71 – Body)

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		Mode	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
133322	683	1RB-Mid Front	/	23.16	24.5	0.175	**0.24**	0.237	**0.32**	0.11
133322	683	1RB-Mid Rear	/	23.16	24.5	0.24	**0.33**	0.323	**0.44**	-0.01
133322	683	1RB-Mid Left	/	23.16	24.5	0.177	**0.24**	0.262	**0.36**	0.19
133322	683	1RB-Mid Right	Fig.42	23.16	24.5	0.267	**0.36**	0.385	**0.52**	-0.04
133322	683	1RB-Mid Bottom	/	23.16	24.5	0.078	**0.11**	0.139	**0.19**	-0.01
133322	683	50RB-Low Front	/	22.15	23.5	0.139	**0.19**	0.187	**0.26**	0.17
133322	683	50RB-Low Rear	/	22.15	23.5	0.192	**0.26**	0.259	**0.35**	-0.15
133322	683	50RB-Low Left	/	22.15	23.5	0.14	**0.19**	0.208	**0.28**	0.00
133322	683	50RB-Low Right	/	22.15	23.5	0.212	**0.29**	0.306	**0.42**	0.01
133322	683	50RB-Low Bottom	/	22.15	23.5	0.058	**0.08**	0.106	**0.14**	-0.13

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

Note2: The LTE mode is QPSK_20MHz.

14.2 SAR results for 5G NR

Table 14.2-1: SAR Values (n25 – Head) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
374592	1882.5	Left	Cheek	Fig.43	22.41	24	0.138	**0.20**	0.211	**0.30**	0.05
374592	1882.5	Left	Tilt	/	22.41	24	0.098	**0.14**	0.151	**0.22**	0.01
374592	1882.5	Right	Cheek	/	22.41	24	0.105	**0.15**	0.159	**0.23**	-0.04
374592	1882.5	Right	Tilt	/	22.41	24	0.095	**0.14**	0.153	**0.22**	0.06

Table 14.2-2: SAR Values (n25 – Body worn) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		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									
374592	1882.5	Front	/	22.91	24.00	0.133	**0.17**	0.222	**0.29**	-0.09
374592	1882.5	Rear	Fig.44	22.91	24.00	0.202	**0.26**	0.344	**0.44**	0.06

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

Table 14.2-3: SAR Values (n25 – Hotspot) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		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									
376500	1882.5	Front	/	21.42	23	0.194	**0.28**	0.333	**0.48**	-0.04
376500	1882.5	Rear	Fig.45	21.42	23	0.307	**0.44**	0.552	**0.79**	-0.03
376500	1882.5	Left	/	21.42	23	0.141	**0.20**	0.266	**0.38**	0.12
376500	1882.5	Bottom	/	21.42	23	0.197	**0.28**	0.347	**0.50**	0.04
376500	1882.5	Front	Note2	19.35	21	0.121	**0.18**	0.193	**0.28**	-0.07
376500	1882.5	Rear	Note2	19.35	21	0.121	**0.18**	0.196	**0.29**	-0.17
376500	1882.5	Left	Note2	19.35	21	0.098	**0.14**	0.171	**0.25**	0.10
376500	1882.5	Bottom	Note2	19.35	21	0.128	**0.19**	0.212	**0.31**	0.08

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

Note2: The results are only for NSA.

Table 14.2-4: SAR Values (n41–Head) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
518598	2592.99	Left	Cheek	/	15.32	16	0.152	**0.18**	0.386	**0.45**	-0.11
518598	2592.99	Left	Tilt	/	15.32	16	0.126	**0.15**	0.293	**0.34**	-0.12
518598	2592.99	Right	Cheek	/	15.32	16	0.228	**0.27**	0.554	**0.65**	0.08
518598	2592.99	Right	Tilt	Fig.46	15.32	16	0.28	**0.33**	0.669	**0.78**	0.16

Table 14.2-5: SAR Values (n41–Body worn) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		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									
518598	2592.99	Front	Fig.47	26.45	27	0.349	**0.40**	0.671	**0.76**	-0.02
518598	2592.99	Rear	/	26.45	27	0.235	**0.27**	0.484	**0.55**	0.09

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

Table 14.2-6: SAR Values (n41–Hotspot) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		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									
518598	2592.99	Front	/	19.35	20	0.204	**0.24**	0.415	**0.48**	-0.09
518598	2592.99	Rear	/	19.35	20	0.163	**0.19**	0.346	**0.40**	0.08
518598	2592.99	Left	/	19.35	20	0.152	**0.18**	0.312	**0.36**	-0.11
518598	2592.99	Top	Fig.48	19.35	20	0.275	**0.32**	0.678	**0.79**	0.15
518598	2592.99	Front	Note2	17.33	18	0.121	**0.14**	0.235	**0.27**	0.06
518598	2592.99	Rear	Note2	17.33	18	0.095	**0.11**	0.204	**0.24**	-0.03
518598	2592.99	Left	Note2	17.33	18	0.086	**0.10**	0.17	**0.20**	-0.10
518598	2592.99	Top	Note2	17.33	18	0.167	**0.19**	0.414	**0.48**	0.06

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

Note2: The results are only for NSA.

Table 14.2-7: SAR Values (n66 – Head) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
349000	1745	Left	Cheek	Fig.49	22.56	24	0.091	**0.13**	0.137	**0.19**	0.04
349000	1745	Left	Tilt	/	22.56	24	0.058	**0.08**	0.093	**0.13**	-0.18
349000	1745	Right	Cheek	/	22.56	24	0.063	**0.09**	0.096	**0.13**	-0.13
349000	1745	Right	Tilt	/	22.56	24	0.067	**0.09**	0.107	**0.15**	0.11

Table 14.2-8: SAR Values (n66 – Body worn) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		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									
349000	1745	Front	/	22.56	24	0.135	**0.19**	0.204	**0.28**	-0.07
349000	1745	Rear	Fig.50	22.56	24	0.156	**0.22**	0.236	**0.33**	-0.02

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

Table 14.2-9: SAR Values (n66 –Hotspot) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		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									
349000	1745	Front	/	21.42	23	0.169	**0.24**	0.259	**0.37**	0.04
349000	1745	Rear	Fig.51	21.42	23	0.236	**0.34**	0.36	**0.52**	-0.02
349000	1745	Left	/	21.42	23	0.089	**0.13**	0.149	**0.21**	0.11
349000	1745	Bottom	/	21.42	23	0.153	**0.22**	0.252	**0.36**	-0.07
349000	1745	Front	Note2	19.5	21	0.11	**0.16**	0.171	**0.24**	-0.09
349000	1745	Rear	Note2	19.5	21	0.154	**0.22**	0.236	**0.33**	0.04
349000	1745	Left	Note2	19.5	21	0.059	**0.08**	0.097	**0.14**	-0.10
349000	1745	Bottom	Note2	19.5	21	0.099	**0.14**	0.163	**0.23**	-0.05

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

Note2: The results are only for NSA.

Table 14.2-10: SAR Values (n71–Head) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
134678	680.5	Left	Cheek	/	23.03	24	0.098	**0.12**	0.12	**0.15**	-0.12
134678	680.5	Left	Tilt	/	23.03	24	0.053	**0.07**	0.065	**0.08**	-0.14
134678	680.5	Right	Cheek	Fig.52	23.03	24	0.112	**0.14**	0.139	**0.17**	-0.01
134678	680.5	Right	Tilt	/	23.03	24	0.067	**0.08**	0.083	**0.10**	0.18

Table 14.2-11: SAR Values (n71-Body) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		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									
135164	680.5	Front	/	23.03	24	0.127	**0.16**	0.179	**0.22**	0.16
135164	680.5	Rear	/	23.03	24	0.19	**0.24**	0.245	**0.31**	0.04
135164	680.5	Left	/	23.03	24	0.123	**0.15**	0.183	**0.23**	0.10
135164	680.5	Right	Fig.53	23.03	24	0.188	**0.24**	0.269	**0.34**	0.06
135164	680.5	Bottom	/	23.03	24	0.051	**0.06**	0.104	**0.13**	-0.13

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

Table 14.2-12: SAR Values (n77–Head) – SA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
349000	1745	Left	Cheek	Note1	14.15	15	0.164	**0.20**	0.426	**0.52**	-0.08
349000	1745	Left	Tilt	Note1	14.15	15	0.149	**0.18**	0.397	**0.48**	0.17
349000	1745	Right	Cheek	Note1	14.15	15	0.074	**0.09**	0.193	**0.23**	0.17
349000	1745	Right	Tilt	Note1	14.15	15	0.086	**0.10**	0.232	**0.28**	-0.07
664666	3969.99	Left	Cheek	Note1	14.56	15	0.266	**0.29**	0.682	**0.75**	0.02
664666	3969.99	Left	Tilt	Note1/ Fig.54	14.56	15	0.316	**0.35**	0.857	**0.95**	0.04
661200	3918	Left	Tilt	Note1	14.54	15	0.29	**0.32**	0.784	**0.87**	0.10
657733	3866	Left	Tilt	Note1	14.5	15	0.256	**0.29**	0.695	**0.78**	-0.11
654267	3814	Left	Tilt	Note1	14.02	15	0.232	**0.29**	0.635	**0.80**	0.12
650800	3762	Left	Tilt	Note1	14.14	15	0.211	**0.26**	0.569	**0.69**	-0.09
647334	3710.01	Left	Tilt	Note1	14	15	0.202	**0.25**	0.543	**0.68**	-0.09
664666	3969.99	Right	Cheek	Note1	14.56	15	0.156	**0.17**	0.38	**0.42**	-0.04
664666	3969.99	Right	Tilt	Note1	14.56	15	0.187	**0.21**	0.462	**0.51**	-0.07
633334	3500.01	Left	Cheek	Note2	12.11	13	0.124	**0.15**	0.34	**0.42**	-0.12
633334	3500.01	Left	Tilt	Note2	12.11	13	0.12	**0.15**	0.35	**0.43**	-0.10
633334	3500.01	Right	Cheek	Note2	12.11	13	0.067	**0.08**	0.202	**0.25**	0.17
633334	3500.01	Right	Tilt	Note2	12.11	13	0.071	**0.09**	0.21	**0.26**	0.18
664666	3969.99	Left	Cheek	Note2	12.57	13	0.191	**0.21**	0.518	**0.57**	-0.03
664666	3969.99	Left	Tilt	Note2	12.57	13	0.195	**0.22**	0.526	**0.58**	0.09
664666	3969.99	Right	Cheek	Note2	12.57	13	0.111	**0.12**	0.294	**0.32**	0.09
664666	3969.99	Right	Tilt	Note2	12.57	13	0.126	**0.14**	0.333	**0.37**	-0.10

Note1: The results are only for WWAN transmit alone.

Note2: The results are only for WWAN transmit with WIFI.

Table 14.2-13: SAR Values (n77– Body worn) – SA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		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									
633334	3500.01	Front	/	26.29	27	0.3	**0.35**	0.641	**0.75**	0.05
664666	3969.99	Front	Fig.55	26.29	27	0.537	**0.63**	1.17	**1.38**	-0.06
661200	3918	Front	/	26.28	27	0.518	**0.61**	1.16	**1.37**	-0.09
657733	3866	Front	/	26.12	27	0.455	**0.56**	0.989	**1.21**	0.08
654267	3814	Front	/	25.64	27	0.405	**0.55**	0.869	**1.19**	0.15
650800	3762	Front	/	25.92	27	0.415	**0.53**	0.882	**1.13**	0.16
647334	3710.01	Front	/	26.16	27	0.378	**0.46**	0.816	**0.99**	0.16
664666	3969.99	Front	Note2	19.95	21	0.108	**0.14**	0.239	**0.30**	0.09
633334	3500.01	Rear 19mm	Note3	25.79	27	0.167	**0.22**	0.308	**0.41**	0.10
664666	3969.99	Rear 19mm	Note3	25.57	27	0.289	**0.40**	0.535	**0.74**	0.16
633334	3500.01	Rear	/	19.77	21	0.05	**0.07**	0.094	**0.12**	0.08
664666	3969.99	Rear	/	19.95	21	0.168	**0.21**	0.378	**0.48**	-0.08

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

Note2: The results are only for WWAN transmit with WIFI.

Note3: The distance between the EUT and the phantom bottom is 19mm by sensor. The detail information of sensor is in ANNEX I.

Table 14.2-14: SAR Values (n77 –Hotspot) – SA/NSA

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃										
Frequency		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									
633334	3500.01	Front	/	19.77	21	0.094	**0.12**	0.222	**0.29**	-0.05
633334	3500.01	Rear	/	19.77	21	0.125	**0.17**	0.301	**0.40**	-0.11
633334	3500.01	Left	/	19.77	21	0.018	**0.02**	0.041	**0.05**	0.13
633334	3500.01	Right	/	19.77	21	0.047	**0.06**	0.134	**0.18**	-0.06
633334	3500.01	Top	/	19.77	21	0.165	**0.22**	0.401	**0.53**	0.08
664666	3969.99	Front	/	19.95	21	0.278	**0.35**	0.607	**0.77**	0.03
664666	3969.99	Rear	/	19.95	21	0.285	**0.36**	0.623	**0.79**	-0.12
664666	3969.99	Left	/	19.95	21	0.034	**0.04**	0.064	**0.08**	0.03
664666	3969.99	Right	/	19.95	21	0.175	**0.22**	0.355	**0.45**	-0.11
664666	3969.99	Top	Fig.56	19.95	21	0.304	**0.39**	0.745	**0.95**	0.15
661200	3918	Top	/	19.73	21	0.23	**0.31**	0.562	**0.75**	0.03
657733	3866	Top	/	19.36	21	0.222	**0.32**	0.536	**0.78**	-0.06
654267	3814	Top	/	19.19	21	0.149	**0.23**	0.376	**0.57**	-0.15
650800	3762	Top	/	19.36	21	0.162	**0.24**	0.424	**0.62**	0.07
647334	3710.01	Top	/	19.69	21	0.161	**0.22**	0.428	**0.58**	-0.12

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

14.3 SAR Evaluation for WIFI 2.4G

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Head Evaluation

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃											
Frequency		**Side**	**Test Position**	**Note**	**Conducted Power (dBm)**	**Max. tune-up Power (dBm)**	**Measured SAR(1g) (W/kg)**	**Reported SAR(1g)(W/kg)**	**Measured SAR(10g) (W/kg)**	**Reported SAR(10g)(W/kg)**	**Power Drift (dB)**
Ch.	MHz										
11	2462	Left	Cheek	Note1	19.81	20	0.51	**0.53**	0.987	**1.03**	-0.12
6	2437	Left	Cheek	Note1	19.45	20	0.52	**0.59**	1.01	**1.15**	0.09
1	2412	Left	Cheek	Note1	19.06	20	0.46	**0.57**	0.893	**1.11**	-0.03
11	2462	Left	Tilt	Note1	19.81	20	0.46	**0.48**	1.04	**1.09**	0.12
6	2437	Left	Tilt	Note1/ Fig.57	19.45	20	0.509	**0.58**	1.09	**1.24**	-0.02
1	2412	Left	Tilt	Note1	19.06	20	0.478	**0.59**	0.923	**1.15**	-0.15
11	2462	Right	Cheek	Note1	19.81	20	0.26	**0.27**	0.463	**0.48**	-0.03
11	2462	Right	Tilt	Note1	19.81	20	0.228	**0.24**	0.449	**0.47**	0.07
11	2462	Left	Cheek	Note2	16.33	17	0.263	**0.31**	0.526	**0.61**	-0.08
11	2462	Left	Tilt	Note2	16.33	17	0.212	**0.25**	0.465	**0.54**	-0.11
11	2462	Right	Cheek	Note2	16.33	17	0.087	**0.10**	0.165	**0.19**	0.09
11	2462	Right	Tilt	Note2	16.33	17	0.08	**0.09**	0.159	**0.19**	-0.05

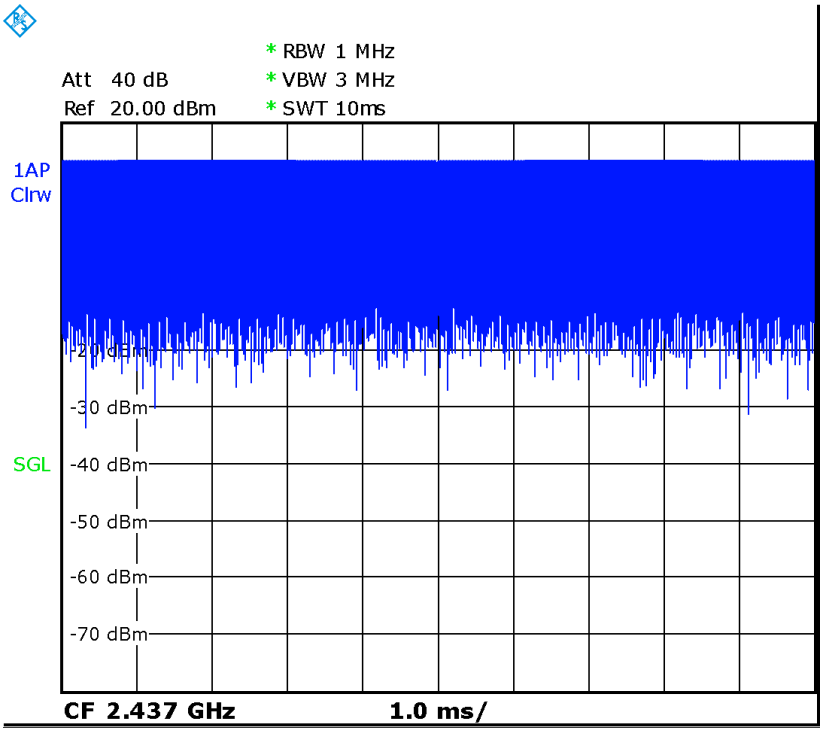
Note1: The results are for Wifi antenna transmit standalone.

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

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

Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃							
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.						
2437	6	Left	Tilt	100%	100%	**1.24**	**1.24**

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



Picture 14.3-1 Duty factor plot

Body Evaluation

Table 14.3-4: SAR Values (WLAN – Body worn)– 802.11b

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Test Position	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									
11	2462	Front	Note1/ Fig.58	21.41	21.5	0.132	**0.13**	0.235	**0.24**	0.11
11	2462	Rear	Note1	21.41	21.5	0.116	**0.12**	0.212	**0.22**	-0.09

Note1: The results are used for body worn mode, the distance between the EUT and the phantom bottom is 15mm.

Table 14.3-4: SAR Values (WLAN - Hotspot)– 802.11b

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC										
Frequency		Test Position	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									
11	2462	Front	Note1/ Fig.59	19.81	20	0.139	**0.15**	0.255	**0.27**	0.02
11	2462	Rear	Note1	19.81	20	0.12	**0.13**	0.236	**0.25**	0.06
11	2462	Right	Note1	19.81	20	0.118	**0.12**	0.225	**0.24**	0.02
11	2462	Top	Note1	19.81	20	0.081	**0.08**	0.152	**0.16**	-0.10
11	2462	Front	Note2	16.02	17	0.054	**0.07**	0.1	**0.13**	0.01
11	2462	Rear	Note2	16.02	17	0.044	**0.06**	0.095	**0.12**	0.03
11	2462	Right	Note2	16.02	17	0.043	**0.05**	0.087	**0.11**	0.03
11	2462	Top	Note2	16.02	17	0.028	**0.04**	0.059	**0.07**	0.13

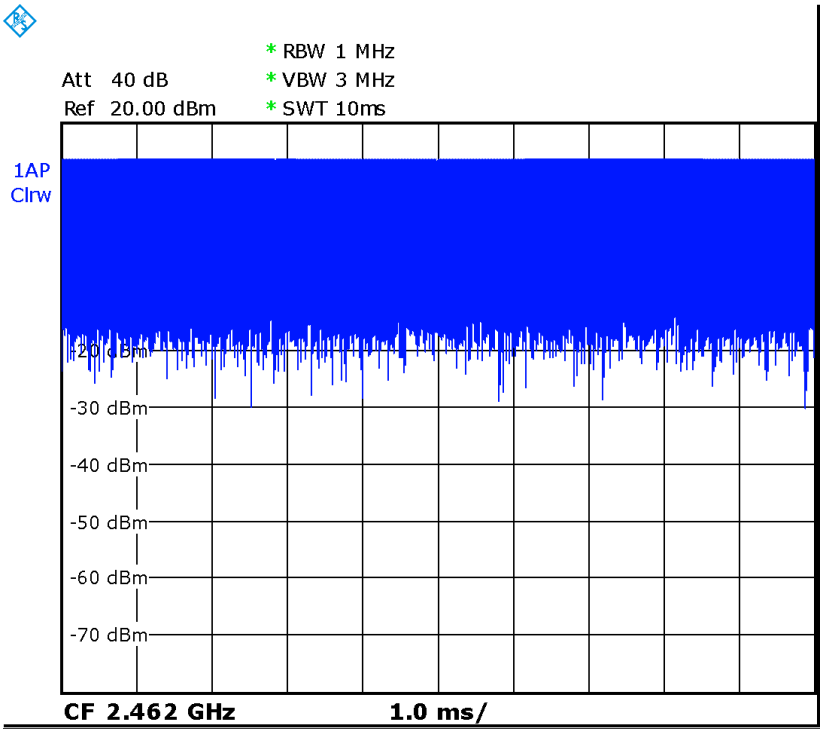
Note2: The results are used for WIFI transmit alone, the distance between the EUT and the phantom bottom is 10mm.

Note2: The results are used for WIFI transmit with WWAN, the distance between the EUT and the phantom bottom is 10mm.

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

Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC						
Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
Ch.	MHz					
11	2462	Front 15mm	100%	100%	**0.24**	**0.24**
11	2462	Rear 10mm	100%	100%	**0.27**	**0.27**

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



Picture 14.3-2 Duty factor plot

14.4 SAR Evaluation For WIFI 5G

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Table 14.4-1: 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										
58	5290	Left	Cheek	Note1	13.26	15	0.139	**0.21**	0.513	**0.77**	0.12
58	5290	Left	Tilt	Note1	13.26	15	0.179	**0.27**	0.655	**0.98**	0.18
58	5290	Right	Cheek	Note1	13.26	15	0.076	**0.11**	0.26	**0.39**	-0.14
58	5290	Right	Tilt	Note1	13.26	15	0.096	**0.14**	0.331	**0.49**	0.13
138	5690	Left	Cheek	Note1	13.93	15	0.183	**0.23**	0.711	**0.91**	0.07
138	5690	Left	Tilt	Note1/ Fig.60	13.93	15	0.224	**0.29**	0.891	**1.14**	0.02
106	5530	Left	Tilt	Note1	13.36	15	0.149	**0.22**	0.599	**0.87**	0.13
138	5690	Right	Cheek	Note1	13.93	15	0.095	**0.12**	0.34	**0.43**	0.15
138	5690	Right	Tilt	Note1	13.93	15	0.117	**0.15**	0.43	**0.55**	-0.02
155	5775	Left	Cheek	Note1	14.22	15	0.172	**0.21**	0.636	**0.76**	0.09
155	5775	Left	Tilt	Note1	14.22	15	0.203	**0.24**	0.802	**0.96**	0.01
155	5775	Right	Cheek	Note1	14.22	15	0.11	**0.13**	0.42	**0.50**	0.03
155	5775	Right	Tilt	Note1	14.22	15	0.136	**0.16**	0.537	**0.64**	-0.02
58	5290	Left	Cheek	Note2	11.43	13	0.092	**0.13**	0.332	**0.48**	0.04
58	5290	Left	Tilt	Note2	11.43	13	0.114	**0.16**	0.435	**0.62**	0.07
58	5290	Right	Cheek	Note2	11.43	13	0.05	**0.07**	0.181	**0.26**	0.14
58	5290	Right	Tilt	Note2	11.43	13	0.061	**0.09**	0.231	**0.33**	0.10
138	5690	Left	Cheek	Note2	11.95	13	0.119	**0.15**	0.475	**0.60**	0.09
138	5690	Left	Tilt	Note2	11.95	13	0.138	**0.18**	0.568	**0.72**	0.18
138	5690	Right	Cheek	Note2	11.95	13	0.059	**0.08**	0.225	**0.29**	0.00
138	5690	Right	Tilt	Note2	11.95	13	0.079	**0.10**	0.312	**0.40**	-0.07
155	5775	Left	Cheek	Note2	12.38	13	0.107	**0.12**	0.462	**0.53**	-0.11
155	5775	Left	Tilt	Note2	12.38	13	0.125	**0.14**	0.547	**0.63**	0.04

155	5775	Right	Cheek	Note2	12.38	13	0.056	**0.06**	0.213	**0.25**	0.02
155	5775	Right	Tilt	Note2	12.38	13	0.072	**0.08**	0.278	**0.32**	-0.15

Note1: The results are for WIFI transmit standalone.

Note2: The results are for WIFI transmit with WWAN.

Table 14.4-15: SAR Values (WLAN 5G – Body worn)

Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz									
52	5260	Front	/	18.88	20	0.071	**0.09**	0.187	**0.24**	-0.04
52	5260	Rear	/	18.88	20	0.205	**0.27**	0.559	**0.72**	-0.01
144	5720	Front	/	19.96	20	0.124	**0.13**	0.335	**0.34**	-0.07
144	5720	Rear	/	19.96	20	0.265	**0.27**	0.706	**0.71**	0.13
153	5765	Front	/	19.96	20	0.107	**0.11**	0.284	**0.29**	0.10
153	5765	Rear	Fig.61	19.96	20	0.297	**0.30**	0.795	**0.80**	0.10

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

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

Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Power Drift (dB)
Ch.	MHz									
58	5290	Front	/	13.45	15	0.038	**0.05**	0.118	**0.17**	0.06
58	5290	Rear	/	13.45	15	0.093	**0.13**	0.279	**0.40**	0.00
58	5290	Right	/	13.45	15	0.045	**0.06**	0.126	**0.18**	0.07
58	5290	Top	/	13.45	15	0.105	**0.15**	0.339	**0.48**	-0.10
138	5690	Front	/	13.93	15	0.056	**0.07**	0.17	**0.22**	0.09
138	5690	Rear	/	13.93	15	0.116	**0.15**	0.333	**0.43**	-0.11
138	5690	Right	/	13.93	15	0.053	**0.07**	0.144	**0.18**	0.07
138	5690	Top	Fig.62	13.93	15	0.13	**0.17**	0.385	**0.49**	0.01
155	5775	Front	/	14.22	15	0.06	**0.07**	0.193	**0.23**	-0.06
155	5775	Rear	/	14.22	15	0.118	**0.14**	0.372	**0.45**	0.13
155	5775	Right	/	14.22	15	0.059	**0.07**	0.159	**0.19**	-0.08
155	5775	Top	/	14.22	15	0.124	**0.15**	0.36	**0.43**	-0.12

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

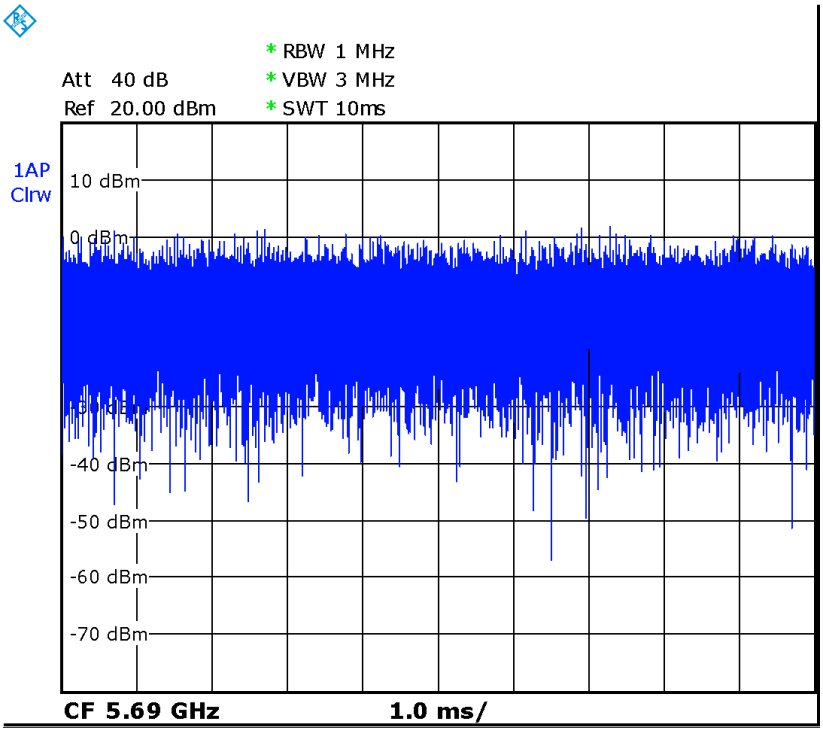
According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

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

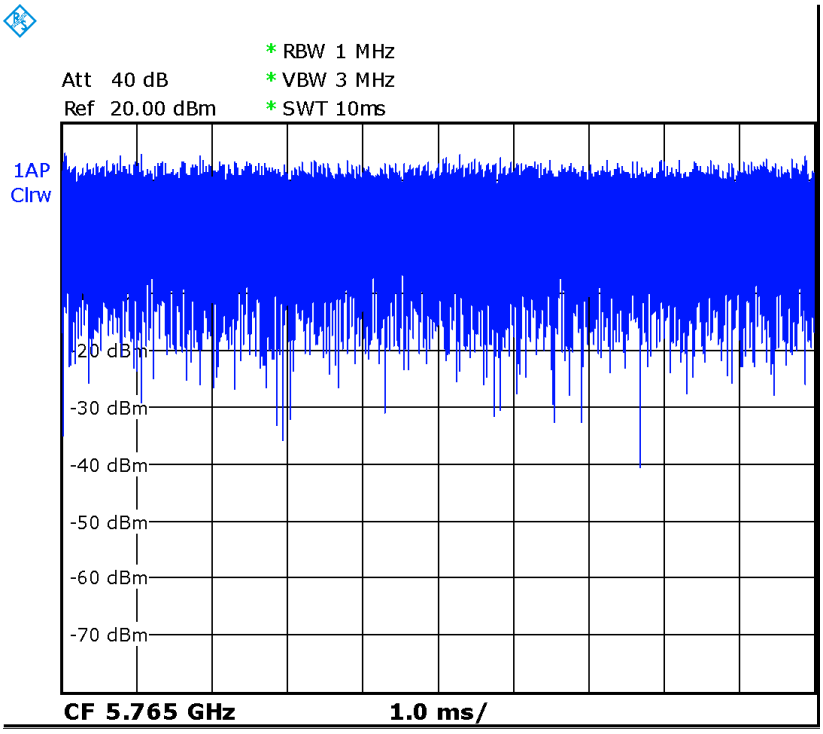
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
Ch.	MHz						
138	5690	Left	Tilt	100%	100%	**1.14**	**1.14**

Table 14.4-17: SAR Values (WLAN 5G - Body) (Scaled Reported SAR)

Frequency		Test Position	D (mm)	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
Ch.	MHz						
153	5765	Rear	15	100%	100%	**0.80**	**0.80**
138	5690	Top	10	100%	100%	**0.49**	**0.49**



Picture 14.4-1 The plot of duty factor for CH.138



Picture 14.4-2 The plot of duty factor for CH.153

14.5 SAR Evaluation For BT

Table 14.5-1: SAR Values (BT - 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										
39	2441	Left	Cheek	Fig.63	9.45	11	0.030	**0.04**	0.058	**0.08**	-0.15
39	2441	Left	Tilt	/	9.45	11	0.021	**0.03**	0.045	**0.06**	0.09
39	2441	Right	Cheek	/	9.45	11	0.016	**0.02**	0.023	**0.03**	0.06
39	2441	Right	Tilt	/	9.45	11	<0.01	**<0.01**	<0.01	**<0.01**	/

Table 14.5-2: SAR Values (BT - 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									
39	2441	Front	/	9.45	11	<0.01	**<0.01**	<0.01	**<0.01**	/
39	2441	Rear	Fig.64	9.45	11	0.00595	**0.01**	0.0121	**0.02**	-0.11
39	2441	Right	/	9.45	11	<0.01	**<0.01**	<0.01	**<0.01**	/
39	2441	Top	/	9.45	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 ≤ 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.

For this device, SAR is not required for 10-g extremity SAR because the scaled SAR is ⩽ 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; steps2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45W/kg (~ 10% from the 1-g SAR limit).

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

Mode	CH	Freq	Test Position	Original SAR(W/kg)	First Repeated SAR(W/kg)	The Ratio
LTE Band7	21100	2535	Bottom 10mm	1.03	1.01	1.02
LTE Band41 PC2	40620	2593	Right Tilt	0.892	0.873	1.02
N77	664666	3969.99	Front 15mm	1.17	1.14	1.03
WLAN2.4G	6	2437	Left Cheek	1.01	0.979	1.03
WLAN2.4G	6	2437	Left Tilt	1.09	1.06	1.03
WLAN5G	138	5690	Left Tilt	0.891	0.857	1.04
WLAN5G	138	5690	Top 10mm	0.808	0.785	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
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	N	1	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521

Combined standard uncertainty	$u_c^{'} = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					9.55	9.43	257
Expanded uncertainty (confidence interval of 95 %)	$u_e = 2u_c$					19.1	18.9	

16.2 Measurement Uncertainty for Normal SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	√3	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	√3	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	√3	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	√3	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	√3	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	√3	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	√3	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	√3	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	√3	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.8	R	√3	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	√3	1	1	3.9	3.9	∞
13	Post-processing	B	4.0	R	√3	1	1	2.3	2.3	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	√3	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	√3	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	√3	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	√3	0.6	0.49	1.7	1.4	∞

21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c^{'} = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						10.7	10.6	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						21.4	21.1	

16.3 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	7.0	R	$\sqrt{3}$	1	1	4.0	4.0	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞

20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c^{'} = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						10.4	10.3	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						20.8	20.6	

16.4 Measurement Uncertainty for Fast SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	14.0	R	$\sqrt{3}$	1	1	8.1	8.1	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5

17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c' = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						13.5	13.4	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						27.0	26.8	

17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46110673	January 14, 2022	One year
02	Power sensor	NRP110T	101139	January 13, 2022	One year
03	Power sensor	NRP110T	101159	January 13, 2022	One year
04	Signal Generator	E4438C	MY49071430	January 13, 2022	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 D3900V2	1024	June 21,2021	One year
18	Dipole Validation Kit	SPEAG D5GHzV2	1060	June 21,2021	One year

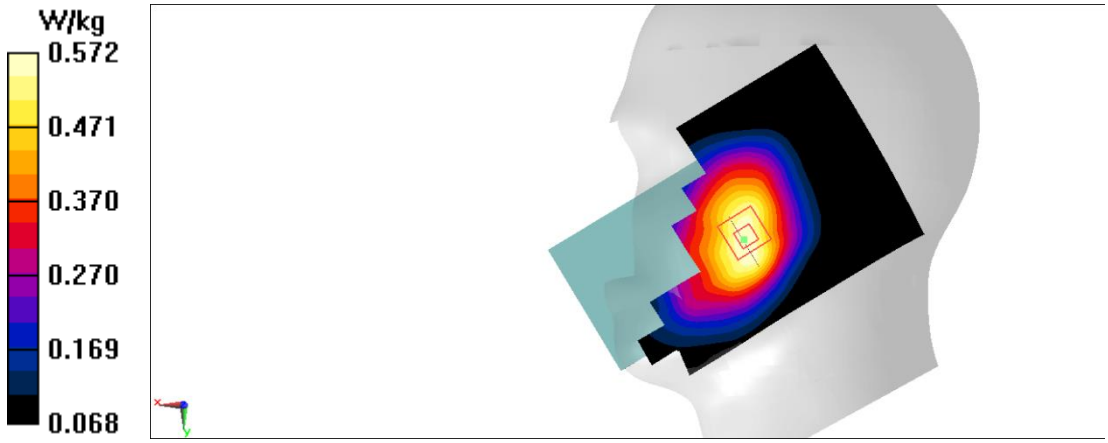
END OF REPORT BODY

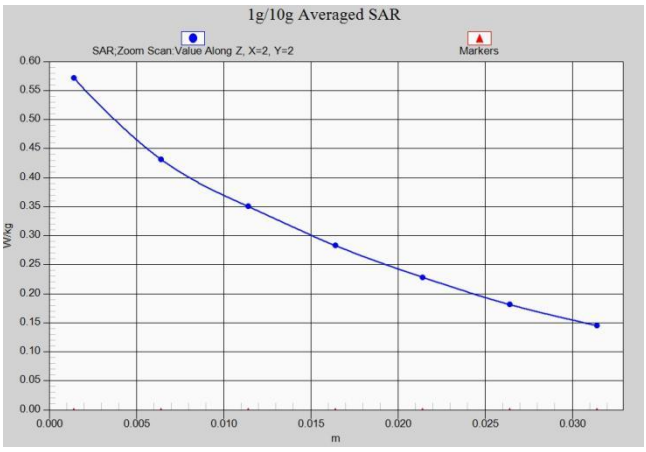
ANNEX A Graph Results

GSM850 Head
Date: 4/8/2022
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 848.8 MHz; σ = 0.966 S/m; ε_r = 42.938; ρ = 1000 kg/m^3
Ambient Temperature:22.9ºC Liquid Temperature: 22.5ºC
Communication System: GSM850 4TX 848.8 MHz Duty Cycle: 1:1.99986
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) = 0.572 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.211 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.630 W/kg
SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.359 W/kg
Maximum value of SAR (measured) = 0.572 W/kg

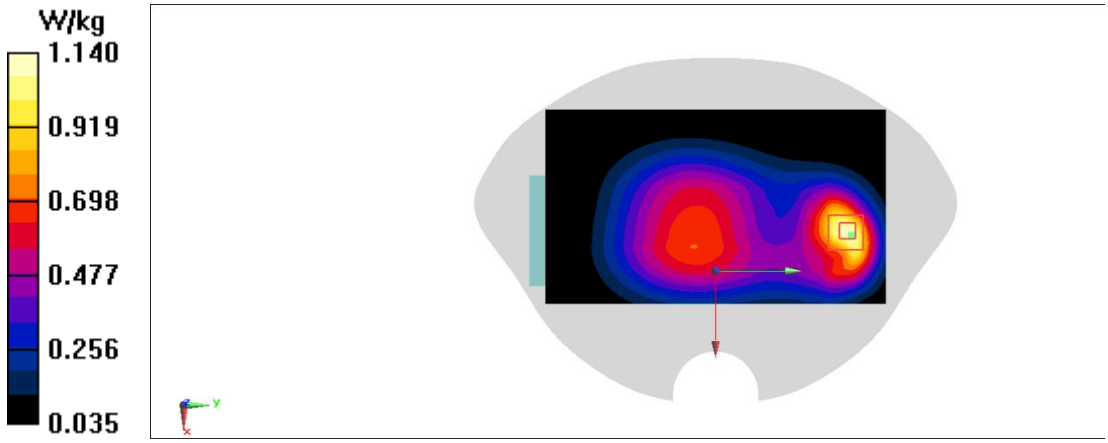


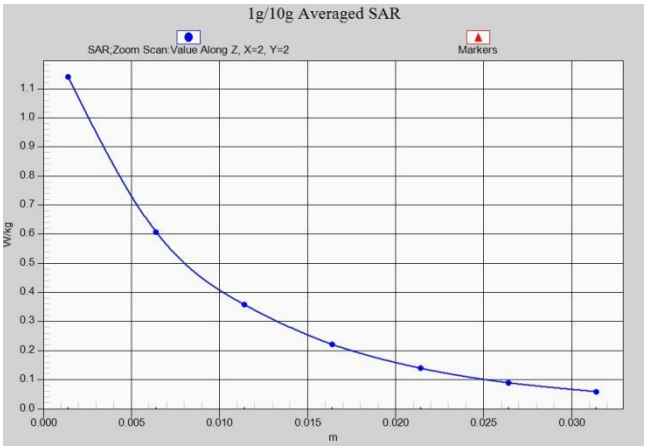


GSM850 Body
Date: 4/8/2022
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 848.8 MHz; σ = 0.966 S/m; ε_r = 42.938; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: GSM850 4TX 848.8 MHz Duty Cycle: 1:1.99986
Probe: EX3DV4 - SN7548 ConvF(10.36, 10.36, 10.36);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.12 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.99 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.764 W/kg; SAR(10 g) = 0.440 W/kg
Maximum value of SAR (measured) = 1.14 W/kg

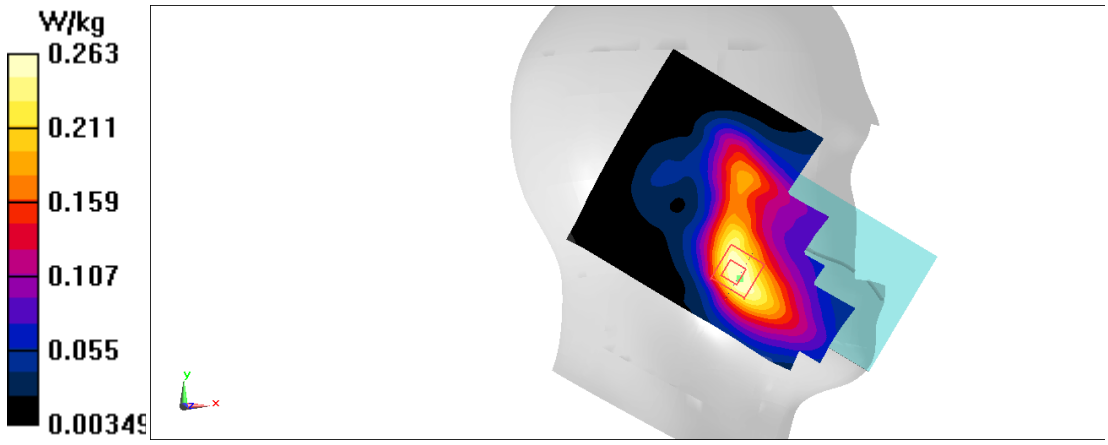


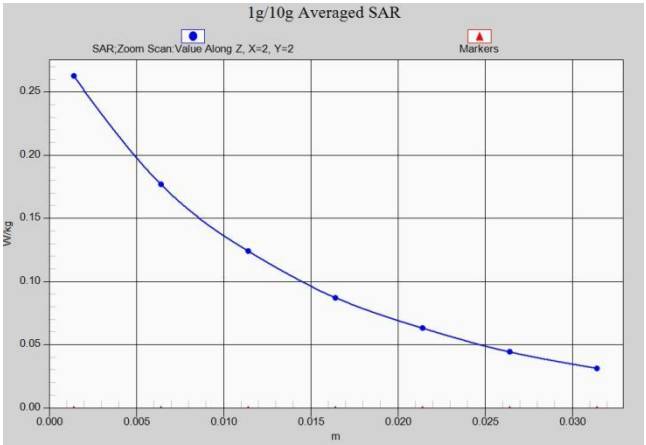


GSM1900 Head
Date: 4/14/2022
Electronics: DAE4 Sn1331
Medium:head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.466 S/m; εr = 40.86; ρ = 1000 kg/m3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: GSM1900 4TX 1880 MHz Duty Cycle: 1:1.99986
Probe: EX3DV4 - SN7548 ConvF(7.88, 7.88, 7.88);

Area Scan (101x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.269 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.058 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.303 W/kg
SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.130 W/kg
Maximum value of SAR (measured) = 0.263 W/kg

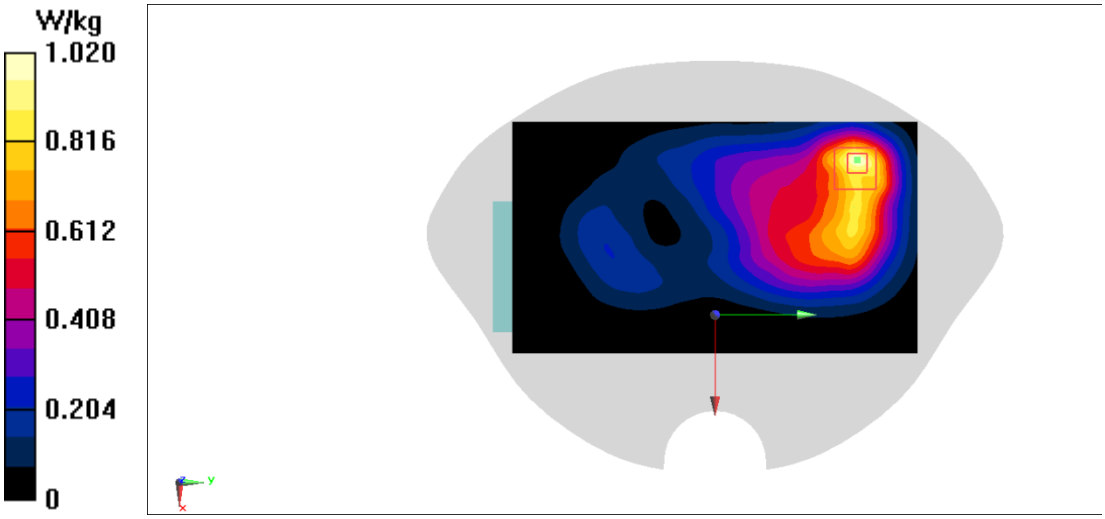


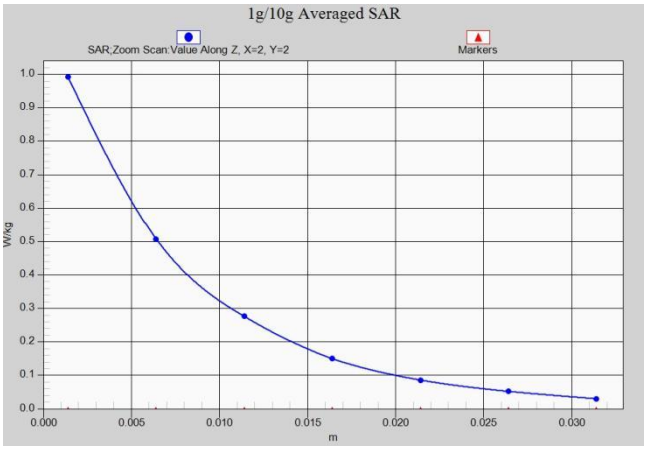


GSM1900 Body
Date: 4/14/2022
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1850.2 MHz; σ = 1.447 S/m; ε_r = 40.868; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: GSM1900 4TX 1850.2 MHz Duty Cycle: 1:1.99986
Probe: EX3DV4 - SN7548 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) = 1.02 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.75 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.369 W/kg
Maximum value of SAR (measured) = 0.992 W/kg

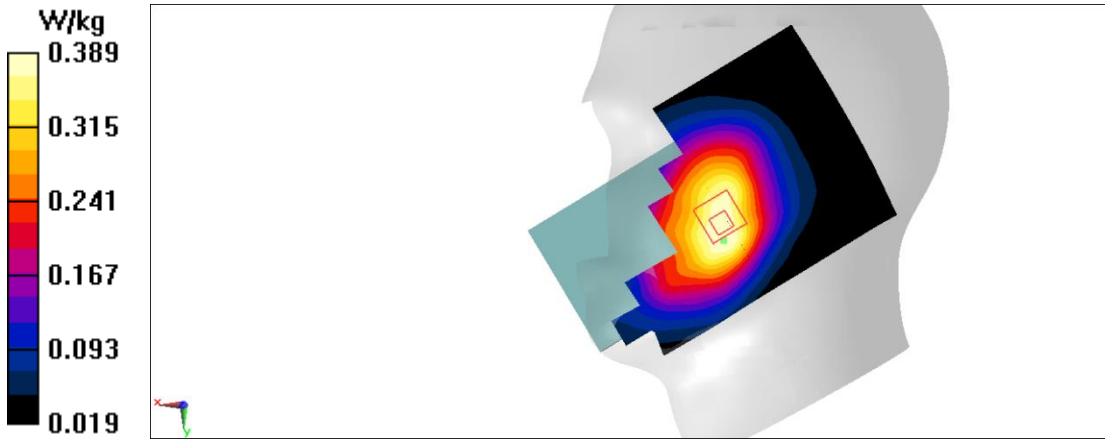


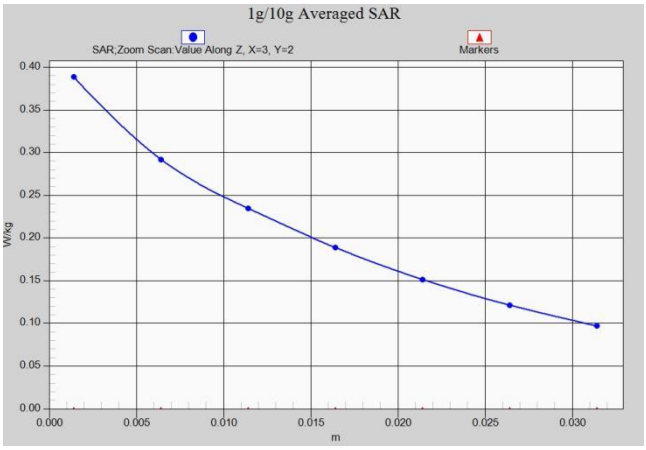


WCDMA850 Head
Date: 4/8/2022
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 846.6 MHz; σ = 1.447 S/m; ε_r = 40.868; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System:WCDMA850(B5) 846.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.88, 7.88, 7.88)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.395 W/kg

Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.119 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.432 W/kg
SAR(1 g) = 0.324 W/kg; SAR(10 g) = 0.248 W/kg
Maximum value of SAR (measured) = 0.389 W/kg

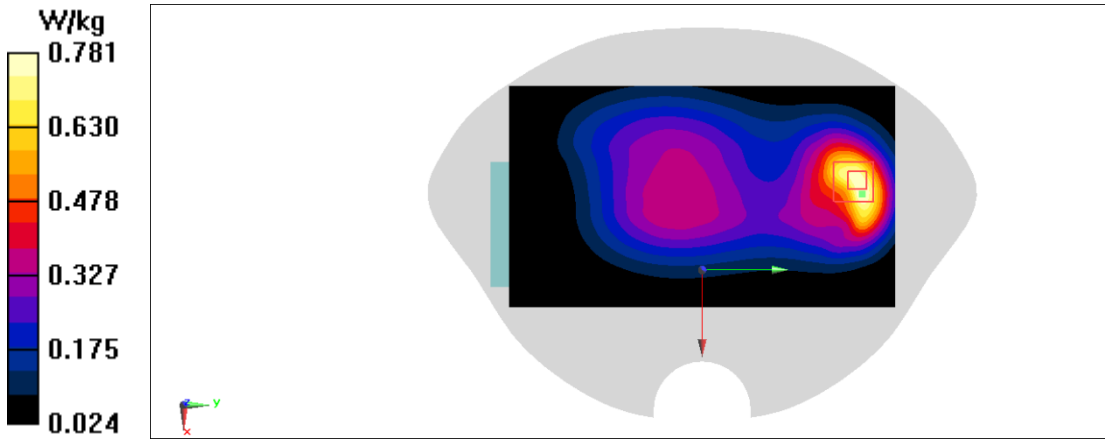


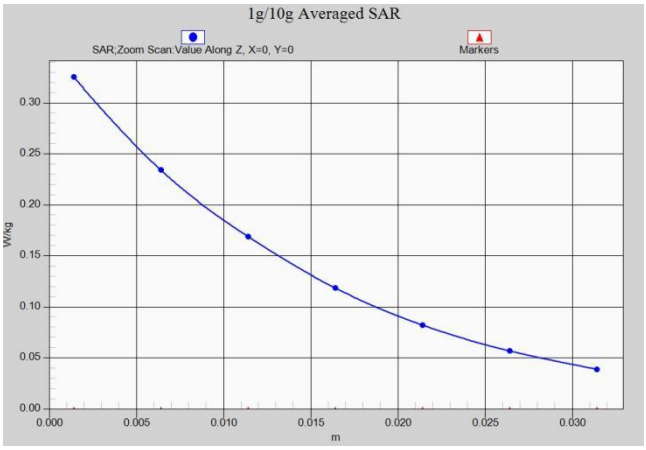


WCDMA850 Body
Date: 4/8/2022
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 846.6 MHz; σ = 0.964 S/m; ε_r = 42.944; ρ = 1000 kg/m^3
Ambient Temperature:22.9ºC Liquid Temperature: 22.5ºC
Communication System: WCDMA850(B5) 846.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(10.36, 10.36, 10.36);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.799 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.10 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.981 W/kg
SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.305 W/kg
Maximum value of SAR (measured) = 0.781 W/kg

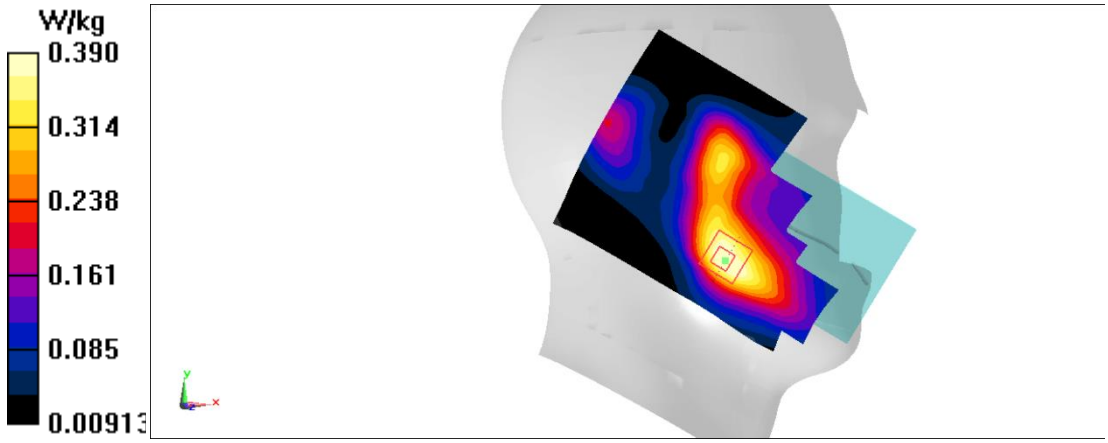


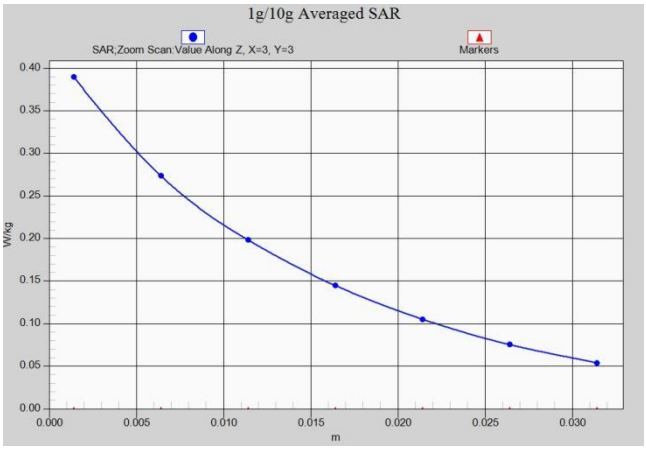


WCDMA1700 Head
Date: 4/9/2022
Electronics: DAE4 Sn1331
Medium: Head 1750MHz
Medium parameters used: f = 1712.4 MHz; σ = 1.359 S/m; ε_r = 41.109; ρ = 1000 kg/m^3
Ambient Temperature:22.9ºC Liquid Temperature: 22.5ºC
Communication System: WCDMA1700(B4) 1712.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(8.14, 8.14, 8.14);

Area Scan (101x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.408 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.978 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.437 W/kg
SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.200 W/kg
Maximum value of SAR (measured) = 0.390 W/kg

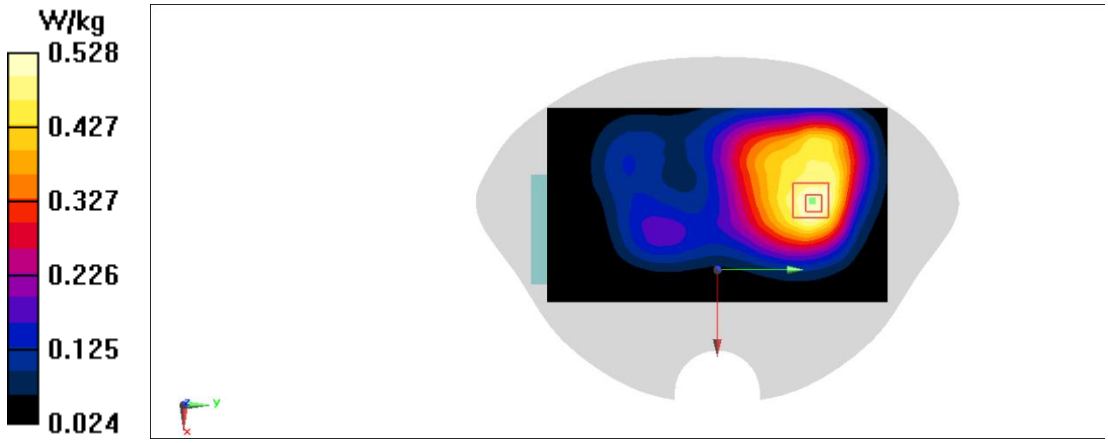


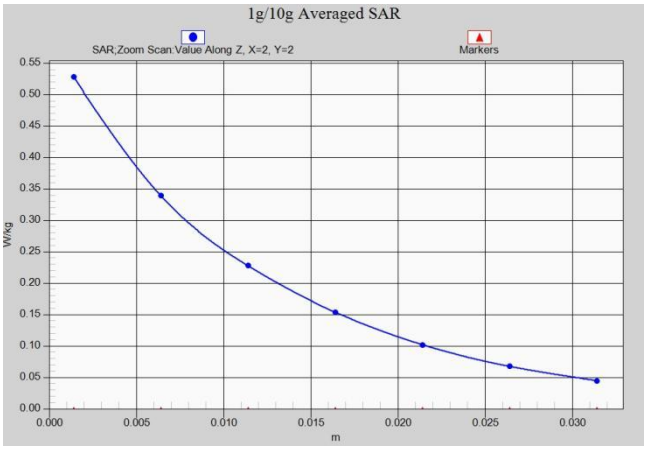


WCDMA1700 Body 15mm
Date: 4/9/2022
Electronics: DAE4 Sn1331
Medium: Head 1750MHz
Medium parameters used: f = 1712.4 MHz; σ = 1.359 S/m; ε_r = 41.109; ρ = 1000 kg/m^3
Ambient Temperature:22.9ºC Liquid Temperature: 22.5ºC
Communication System: WCDMA1700(B4) 1712.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 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) = 0.542 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.44 V/m; Power Drift = -0.20 dB
Peak SAR (extrapolated) = 0.607 W/kg
SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.260 W/kg
Maximum value of SAR (measured) = 0.528 W/kg

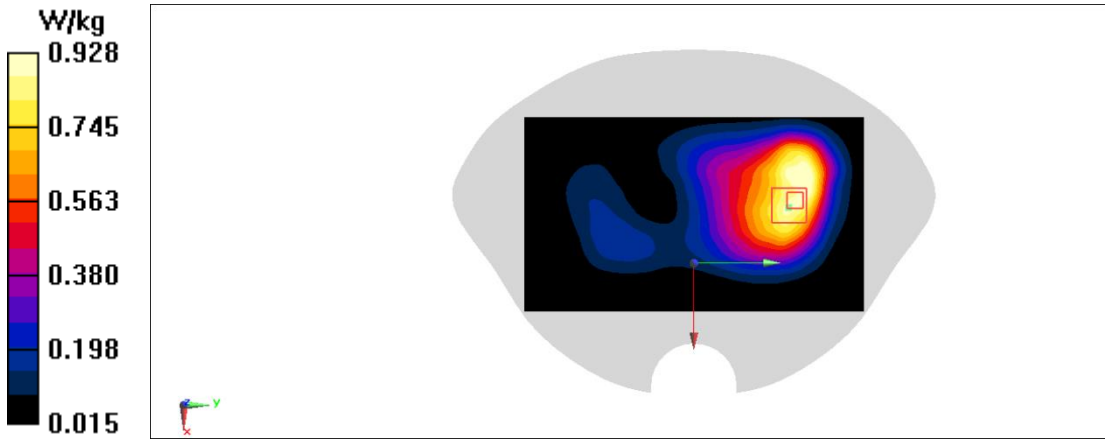


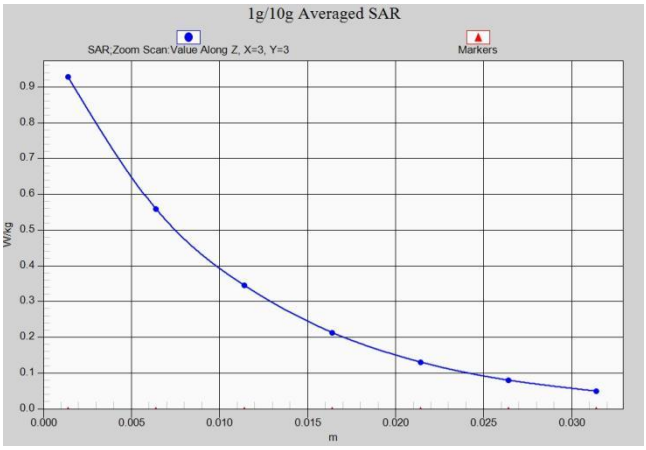


WCDMA1700 Body 10mm
Date: 4/9/2022
Electronics: DAE4 Sn1331
Medium: Head 1750MHz
Medium parameters used : f = 1732.4 MHz; σ = 1.369 S/m; ε_r = 41.103; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: WCDMA1700(B4) 1732.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 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) = 0.976 W/kg

Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.40 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.433 W/kg
Maximum value of SAR (measured) = 0.928 W/kg

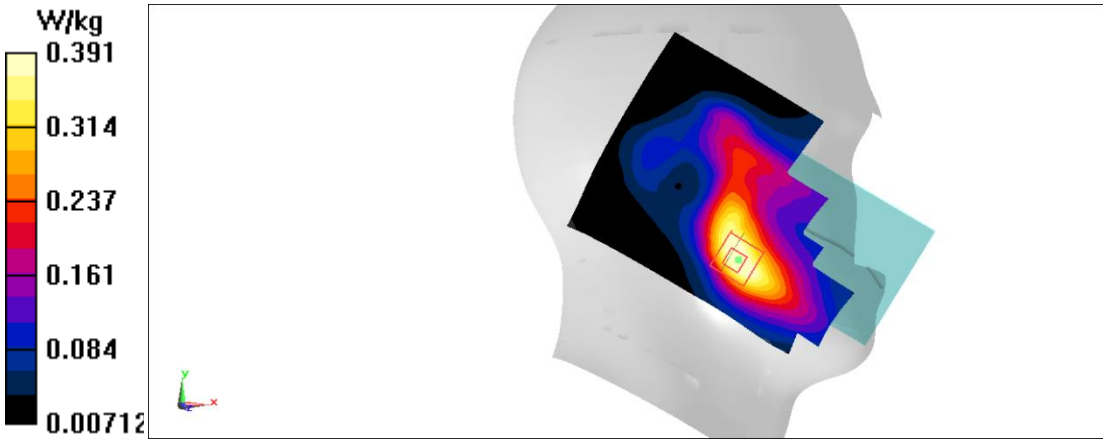


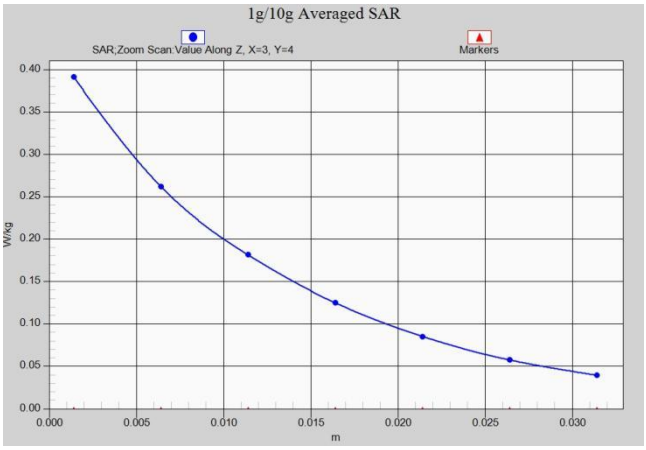


WCDMA1900 Head
Date: 4/14/2022
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.466 S/m; ε_r = 40.86; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: WCDMA1900(B2) 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.88, 7.88, 7.88);

Area Scan (101x171x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.412 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.812 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.449 W/kg
SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.190 W/kg
Maximum value of SAR (measured) = 0.391 W/kg

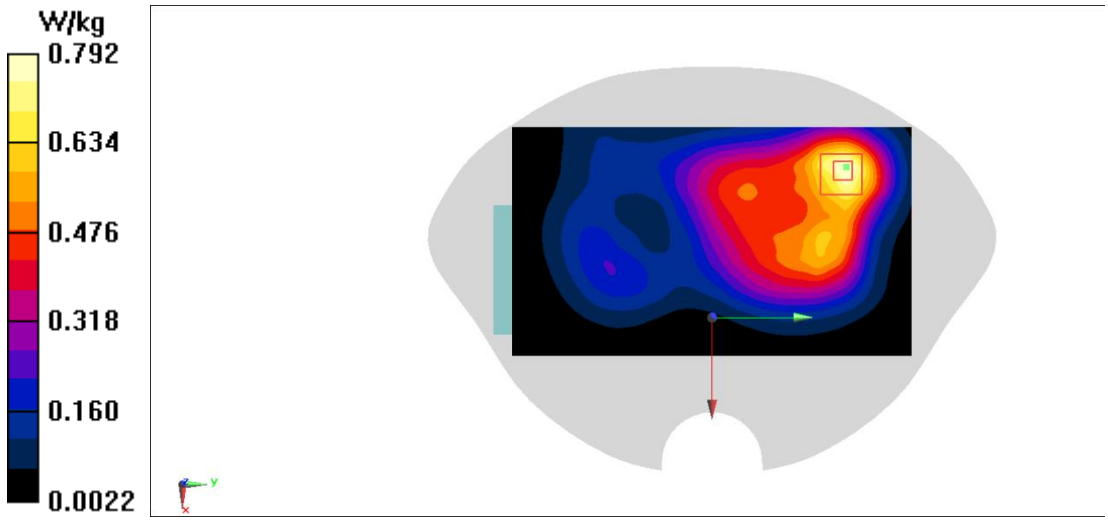


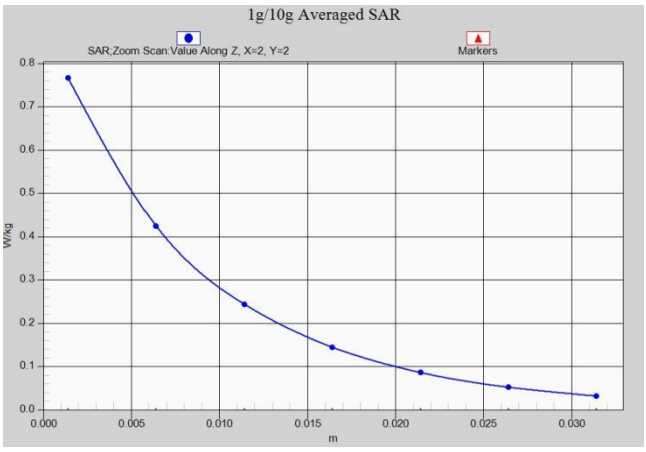


WCDMA1900 Body 15mm
Date: 4/14/2022
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1907.6 MHz; σ = 1.483 S/m; ε_r = 40.799; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: WCDMA1900(B2) 1907.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 - 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) = 0.792 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.23 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.932 W/kg
SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.316 W/kg
Maximum value of SAR (measured) = 0.767 W/kg

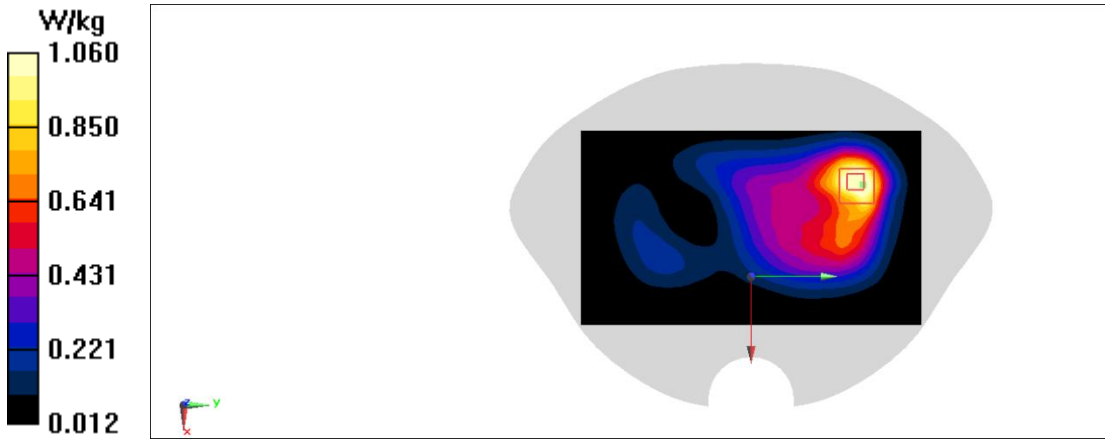


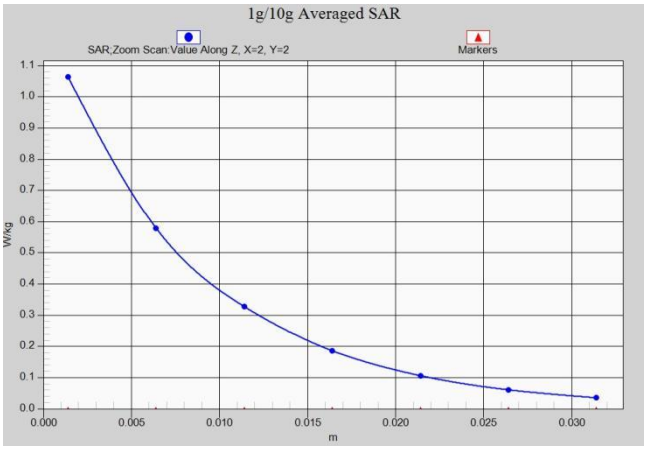


WCDMA1900 Body 10mm
Date: 4/14/2022
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used:f = 1880 MHz; σ = 1.466 S/m; ε_r = 40.86; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: WCDMA1900(B2) 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 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) = 1.20 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.60 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.729 W/kg; SAR(10 g) = 0.423 W/kg
Maximum value of SAR (measured) = 1.06 W/kg

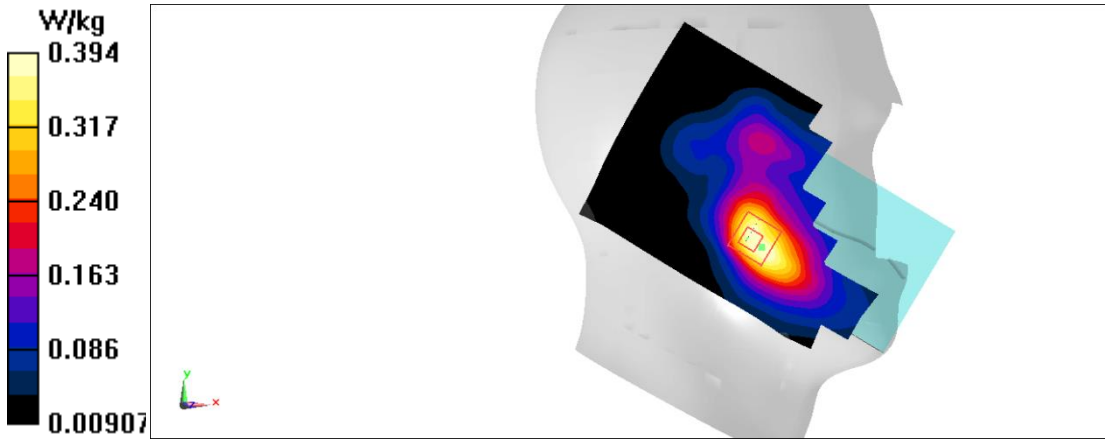


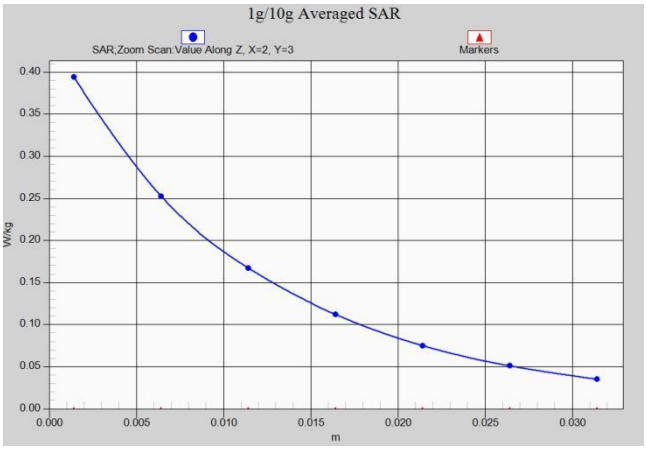


LTE Band2 ANT1 Head
Date: 4/14/2022
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.479 S/m; ε_r = 40.816; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band2 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.88, 7.88, 7.88);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.399 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.039 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.457 W/kg
SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.183 W/kg
Maximum value of SAR (measured) = 0.394 W/kg

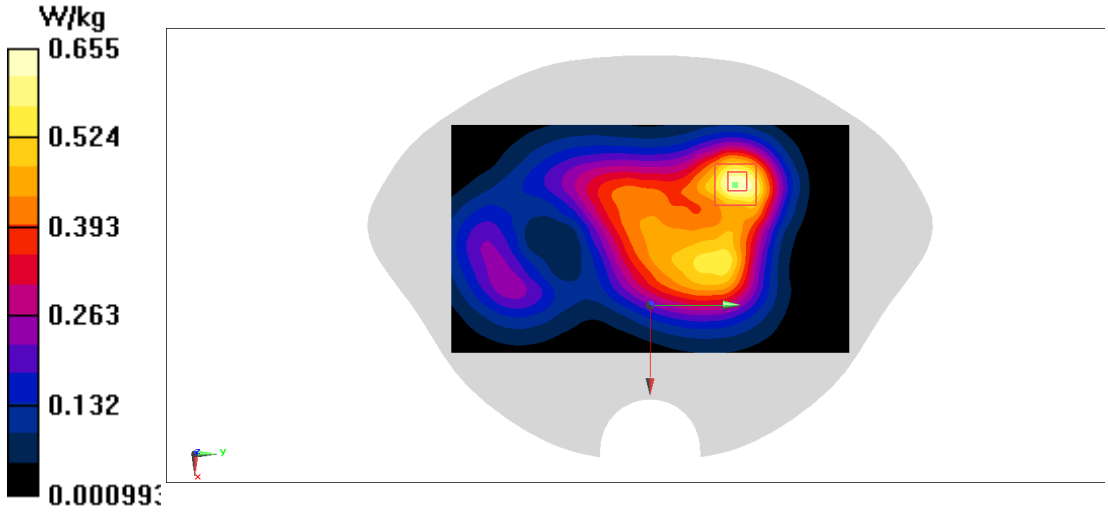


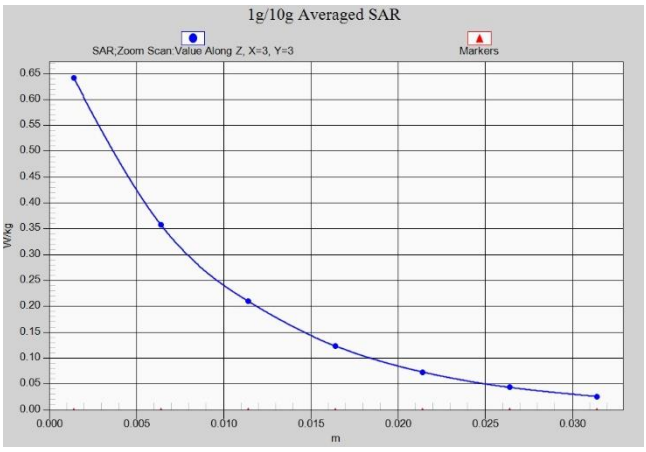


LTE Band2 ANT1 Body 15mm
Date: 4/14/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.527 S/m; ε_r = 41.415;ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band2 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 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) = 0.655 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.20 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.778 W/kg
SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.255 W/kg
Maximum value of SAR (measured) = 0.642 W/kg

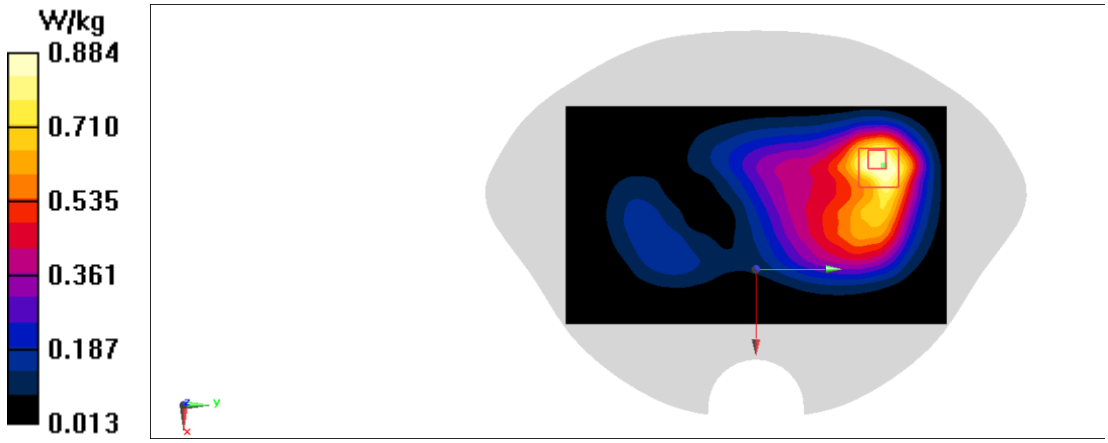


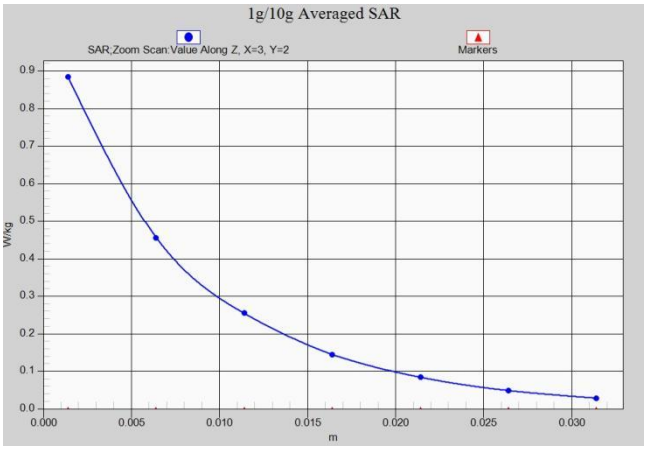


LTE Band2 ANT1 Body 10mm
Date: 4/14/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; σ = 1.452 S/m; ε_r = 40.867; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band2 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 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) = 0.943 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.00 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.351 W/kg
Maximum value of SAR (measured) = 0.884 W/kg

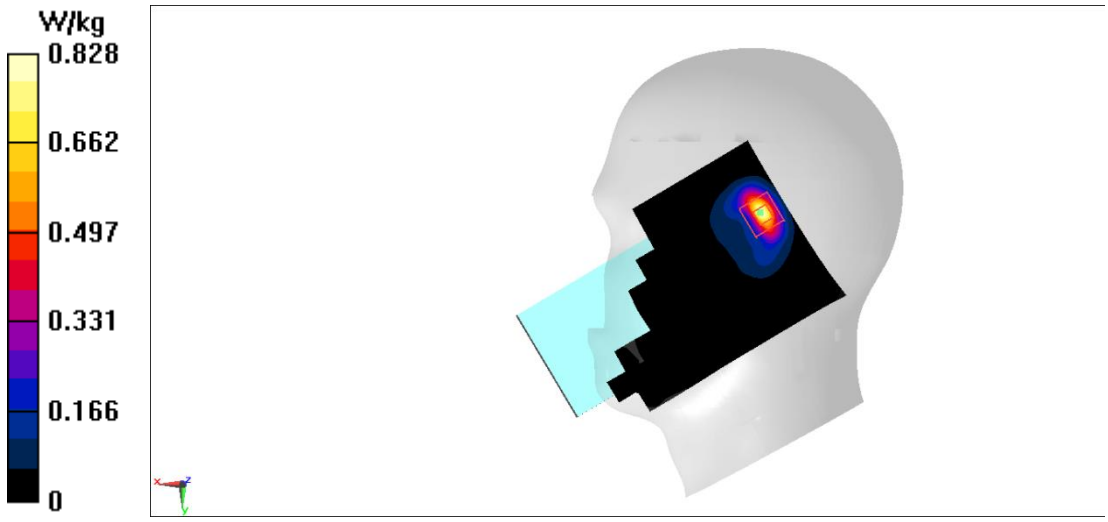


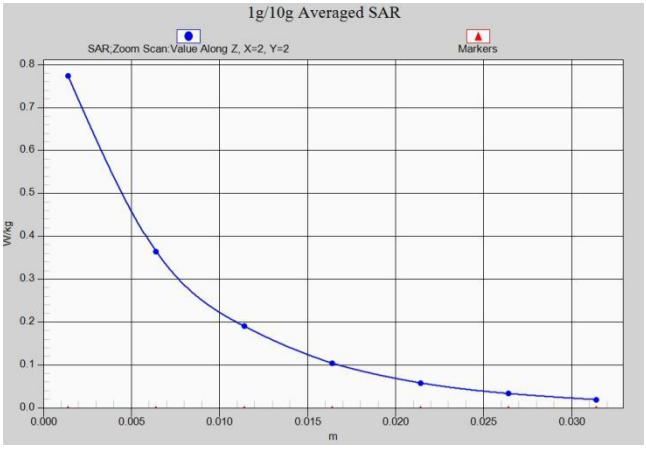


LTE Band2 ANT3 Head
Date: 4/14/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; σ = 1.474 S/m; ε_r = 42.079; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band2 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.88, 7.88, 7.88)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.828 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.75 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.923 W/kg
SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.195 W/kg
Maximum value of SAR (measured) = 0.774 W/kg

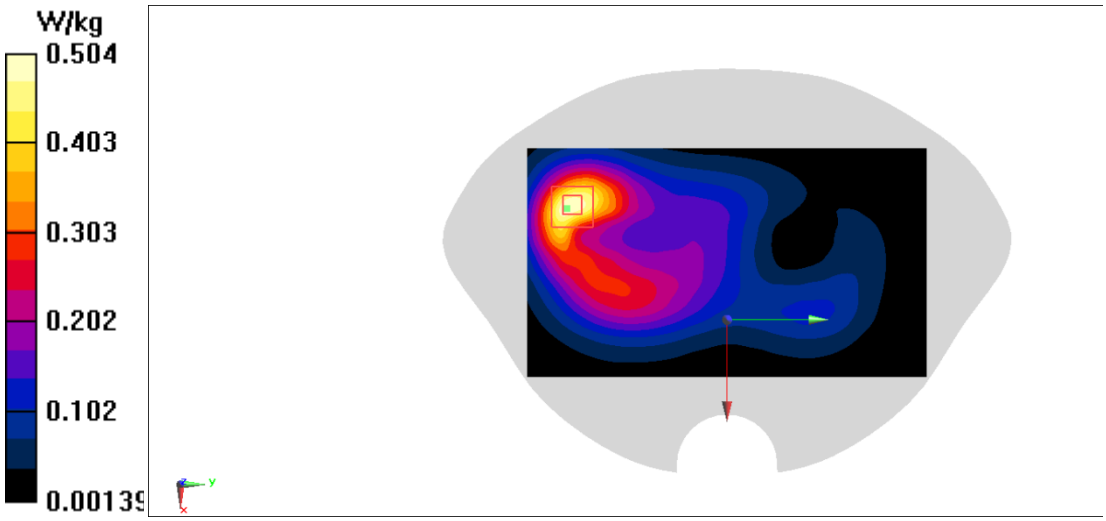


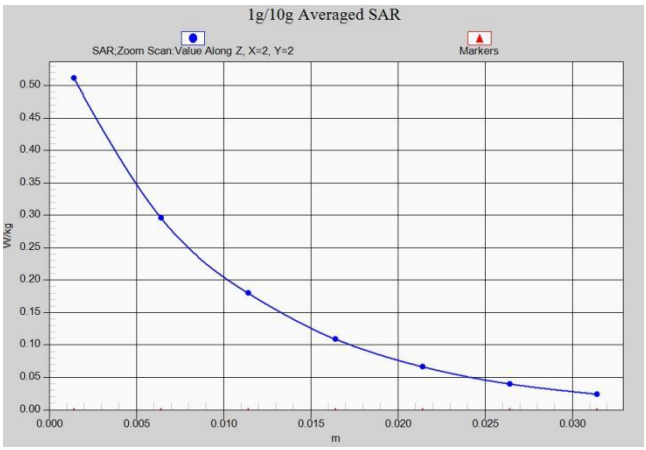


LTE Band2 ANT3 Body 15mm
Date: 4/14/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used:f = 1860 MHz; σ = 1.41 S/m; ε_r = 41.625; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band2 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 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) = 0.504 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.979 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.610 W/kg
SAR(1 g) = 0.352 W/kg; SAR(10 g) = 0.202 W/kg
Maximum value of SAR (measured) = 0.512 W/kg

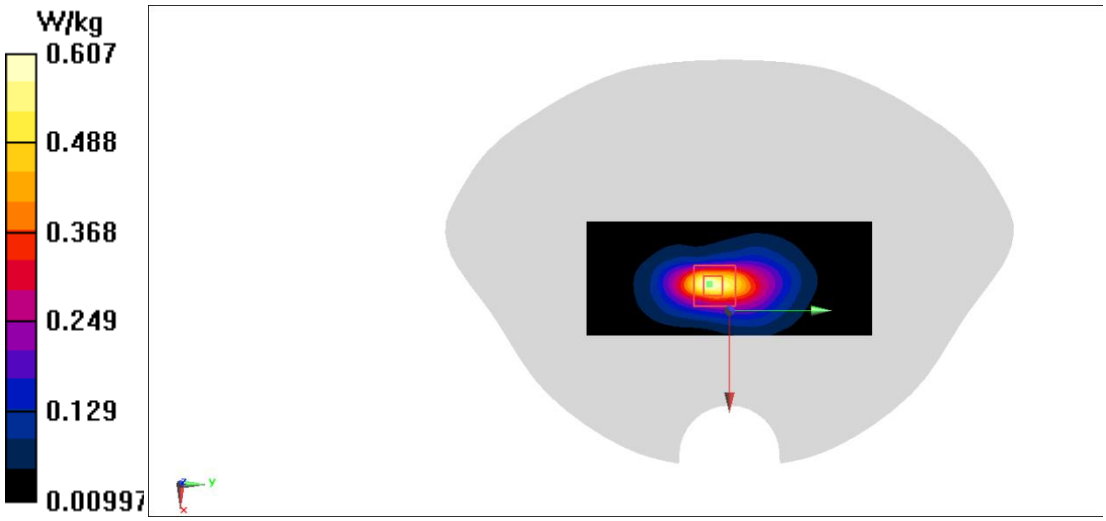


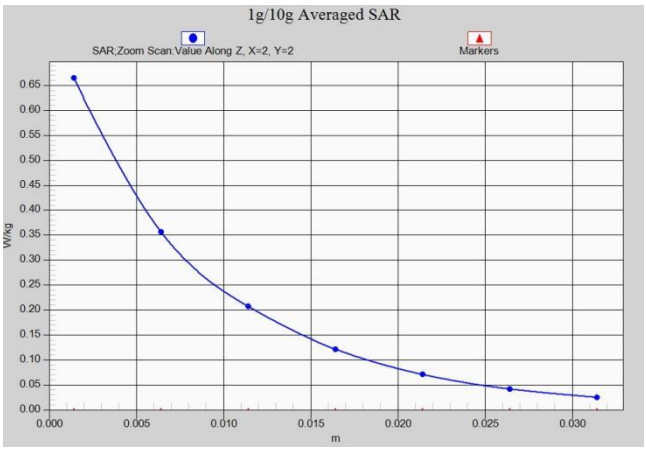


LTE Band2 ANT3 Body 10mm
Date: 4/14/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; σ = 1.487 S/m; ε_r = 42.223; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band2 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.88, 7.88, 7.88)

Area Scan (41x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.607 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.77 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.815 W/kg
SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.208 W/kg
Maximum value of SAR (measured) = 0.665 W/kg

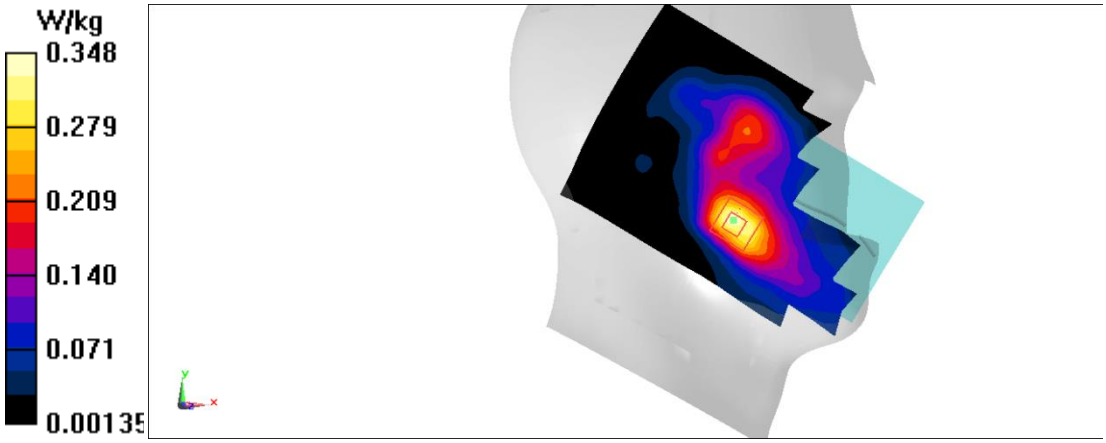


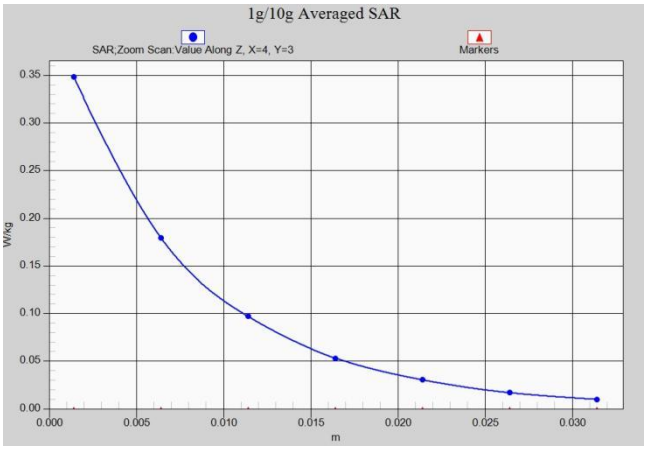


LTE Band7 Head
Date: 4/20/2022
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2560 MHz; σ = 1.93 S/m; ε_r = 40.038; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band7 2560 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.11, 7.11, 7.11);

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.340 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.737 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.431 W/kg
SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.123 W/kg
Maximum value of SAR (measured) = 0.348 W/kg

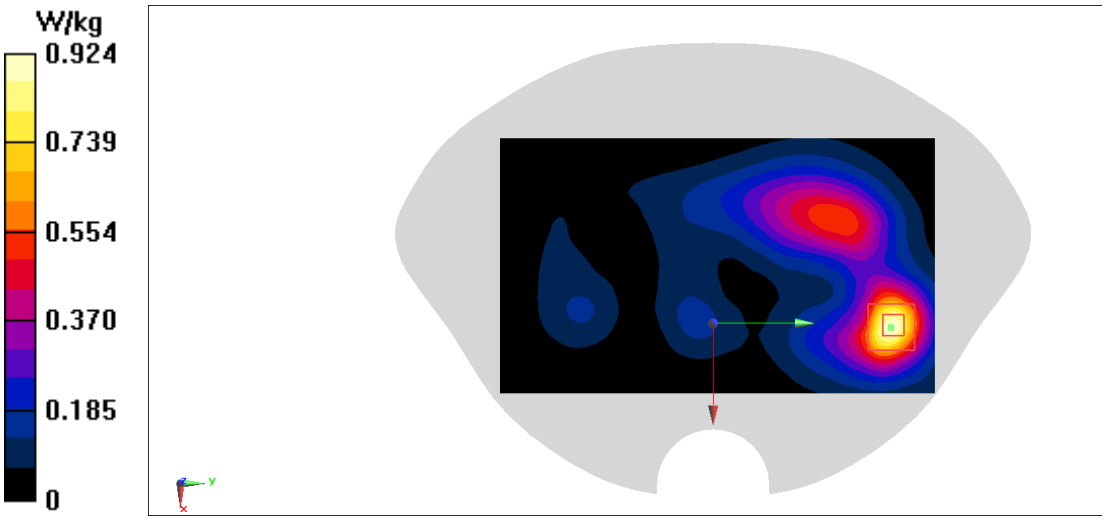


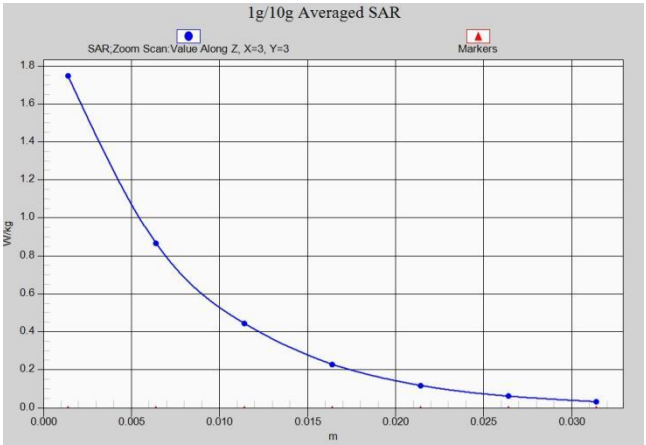


LTE Band7 Body 15mm
Date: 4/20/2022
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2560 MHz; σ = 1.93 S/m; ε_r = 40.038;ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band7 2560 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.11, 7.11, 7.11);

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.924 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.933 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.296 W/kg
Maximum value of SAR (measured) = 0.942 W/kg

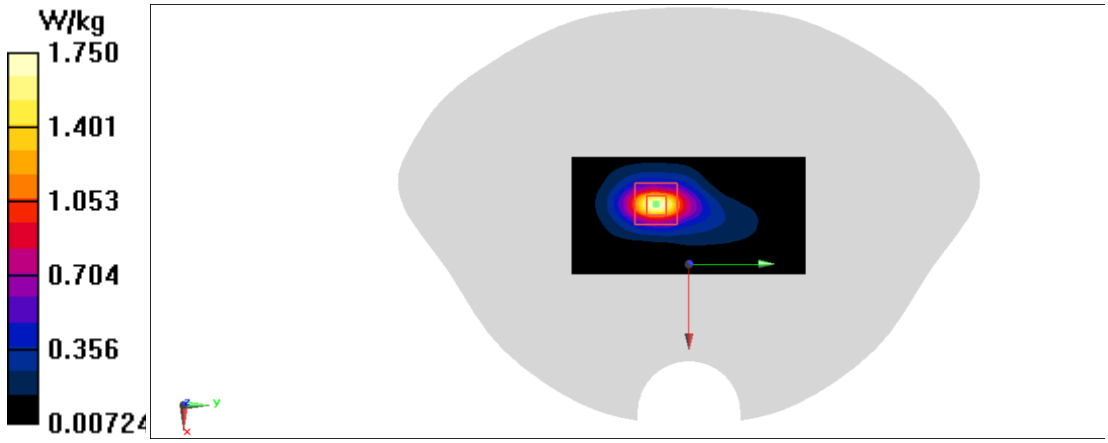


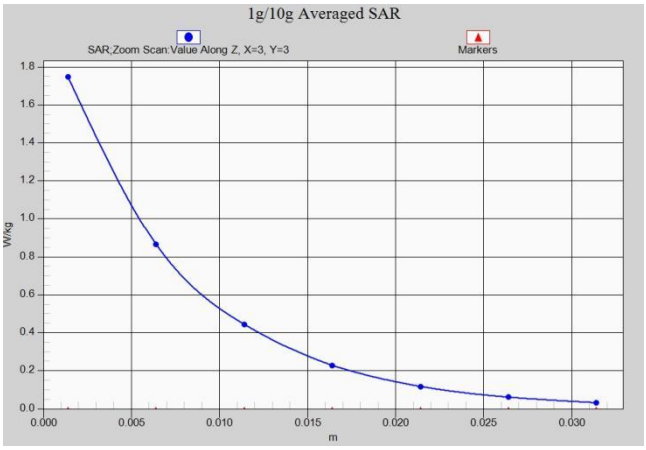


LTE Band7 Body 10mm
Date: 4/20/2022
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2535 MHz; σ = 1.913 S/m; ε_r = 40.073; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band7 2535 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.35, 7.35, 7.35);

Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.73 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.51 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 2.17 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.453 W/kg
Maximum value of SAR (measured) = 1.75 W/kg

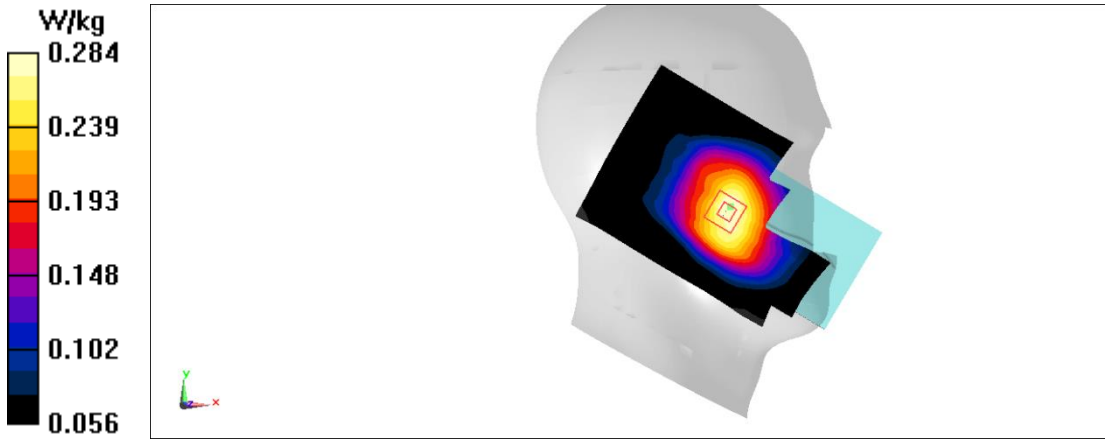


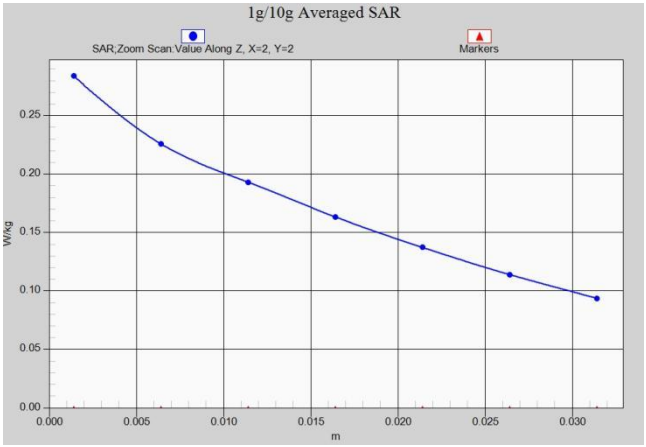


LTE Band12 Head
Date: 4/5/2022
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 704 MHz; σ = 0.916 S/m; ε_r = 43.273; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band12 704 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(10.36, 10.36, 10.36);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.287 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.676 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.309 W/kg
SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.192 W/kg
Maximum value of SAR (measured) = 0.284 W/kg

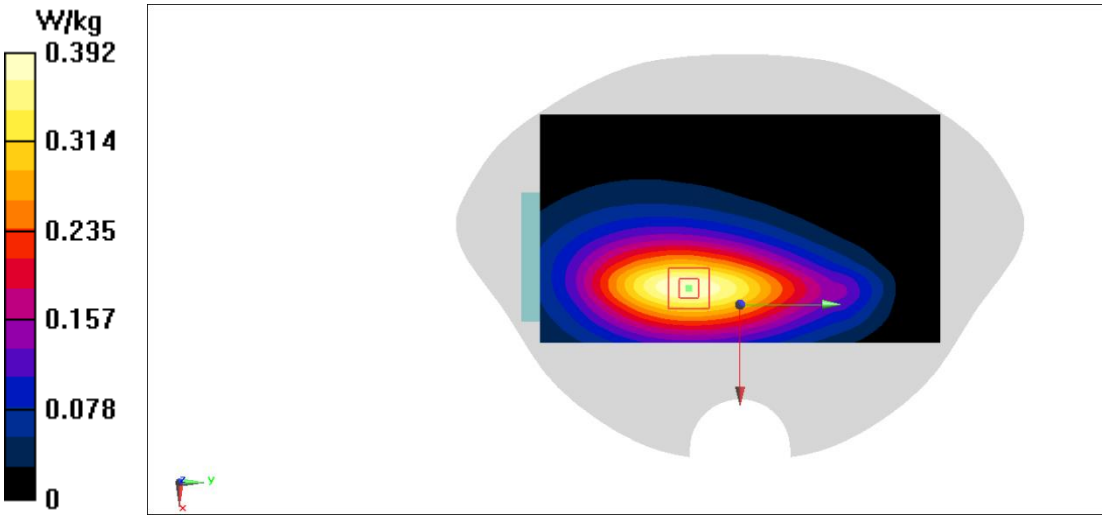


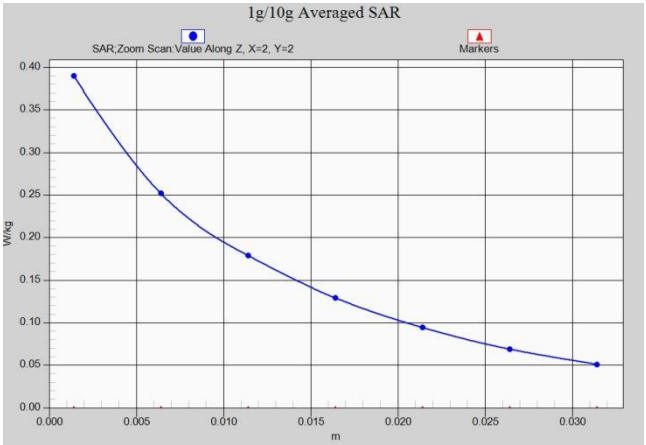


LTE Band12 Body
Date: 4/5/2022
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 704 MHz; σ = 0.916 S/m; ε_r = 43.273; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band12 704 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(10.36, 10.36, 10.36)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.392 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.53 V/m; Power Drift = -0.20 dB
Peak SAR (extrapolated) = 0.450 W/kg
SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.198 W/kg
Maximum value of SAR (measured) = 0.390 W/kg

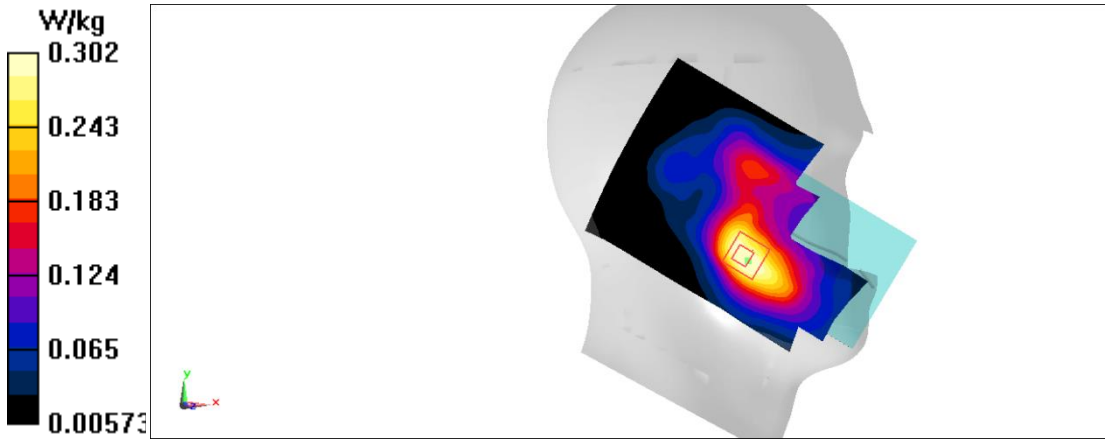


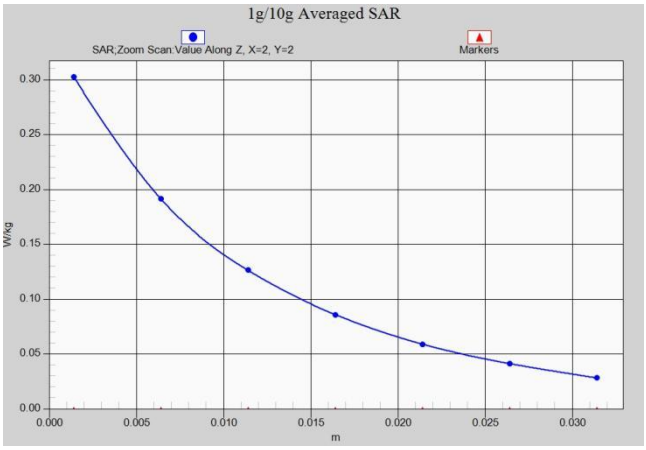


LTE Band25 Head
Date: 4/14/2022
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; σ = 1.452 S/m; ε_r = 40.867; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band25 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.88, 7.88, 7.88);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.322 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.192 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.348 W/kg
SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.142 W/kg
Maximum value of SAR (measured) = 0.302 W/kg

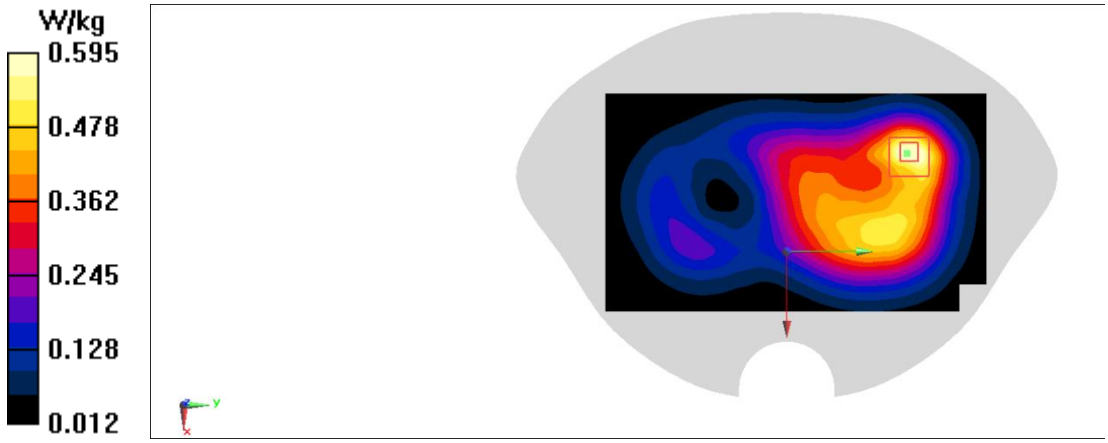


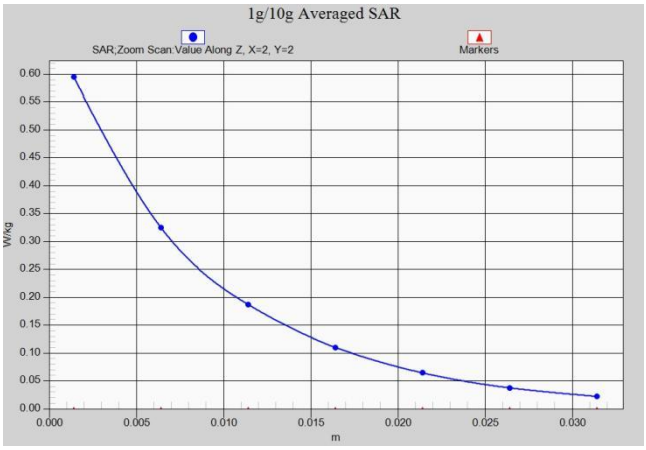


LTE Band25 Body
Date: 4/14/2022
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; σ = 1.452 S/m; ε_r = 40.867; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band25 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.88, 7.88, 7.88);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.613 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.62 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.714 W/kg
SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.229 W/kg
Maximum value of SAR (measured) = 0.595 W/kg

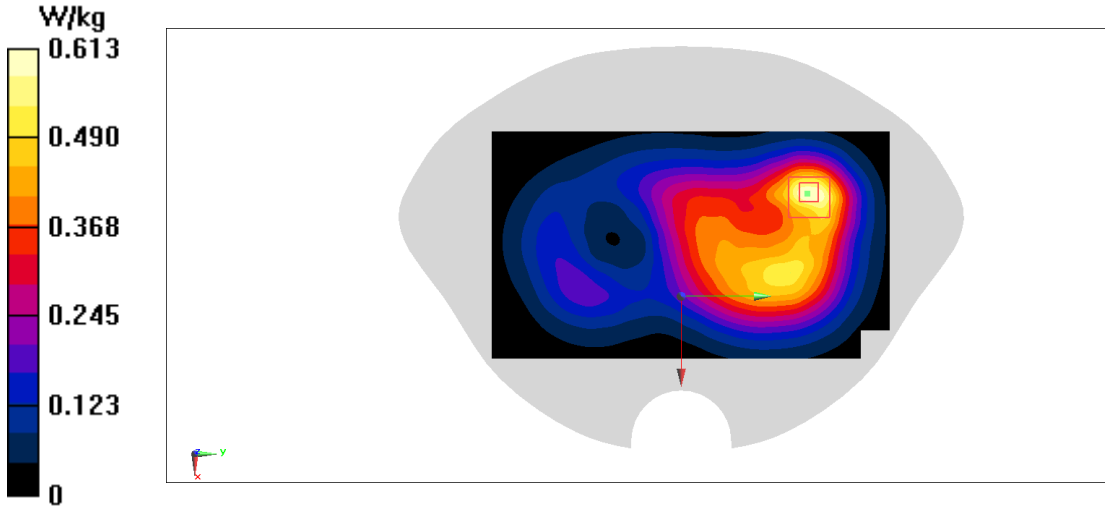


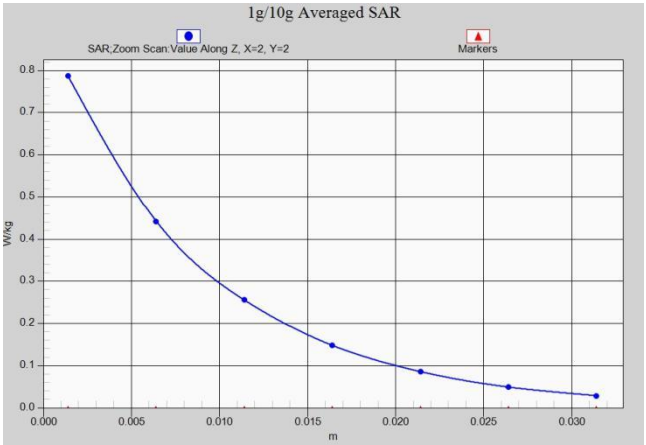


LTE Band25 Body 15mm
Date: 4/14/2022
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; σ = 1.452 S/m; ε_r = 40.867;ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band25 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 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) = 0.613 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.62 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.714 W/kg
SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.229 W/kg
Maximum value of SAR (measured) = 0.595 W/kg

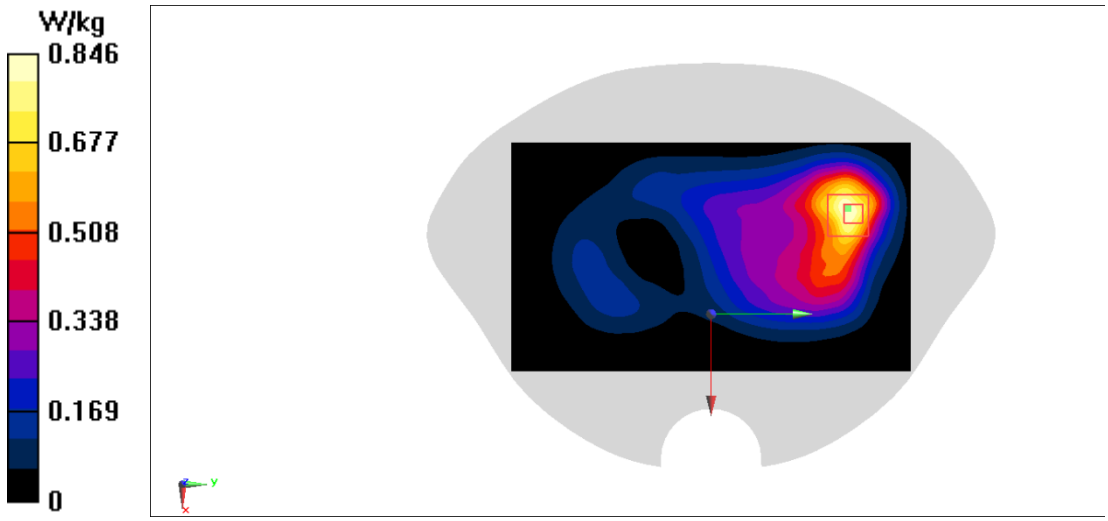


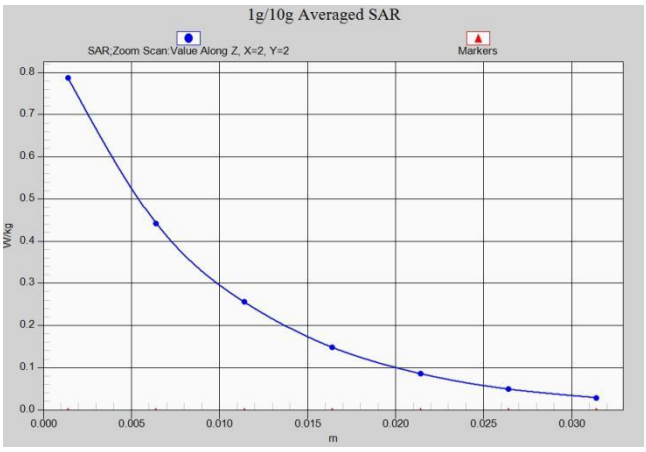


LTE Band25 Body 10mm
Date: 4/14/2022
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1905 MHz; σ = 1.482 S/m; ε_r = 40.804; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band25 1905 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 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) = 0.846 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.88 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.992 W/kg
SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.325 W/kg
Maximum value of SAR (measured) = 0.787 W/kg

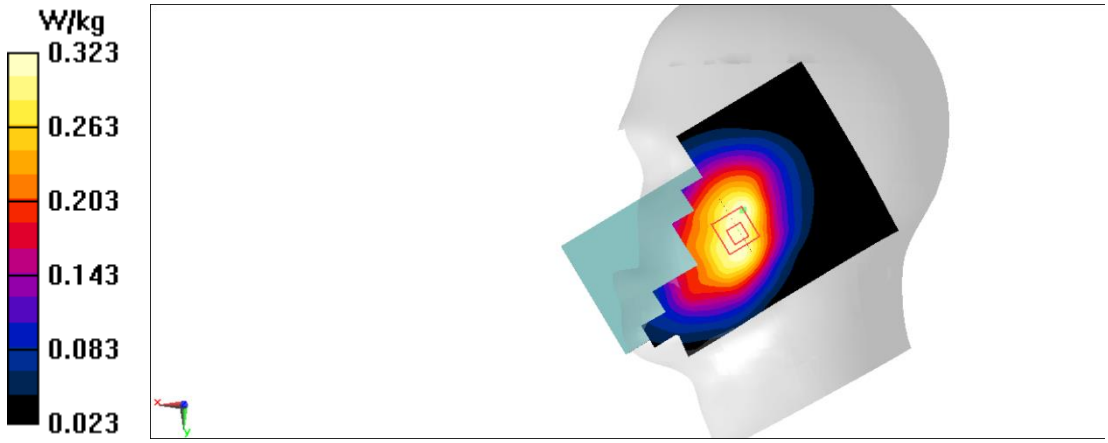


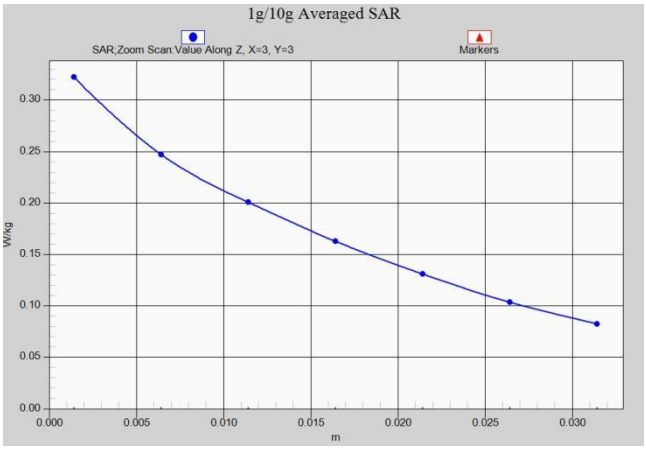


LTE Band26 Head
Date: 4/8/2022
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 841.5 MHz; σ = 0.962 S/m; ε_r = 42.952; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band26 841.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(7.88, 7.88, 7.88)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.324 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.943 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.355 W/kg
SAR(1 g) = 0.268 W/kg; SAR(10 g) = 0.205 W/kg
Maximum value of SAR (measured) = 0.323 W/kg

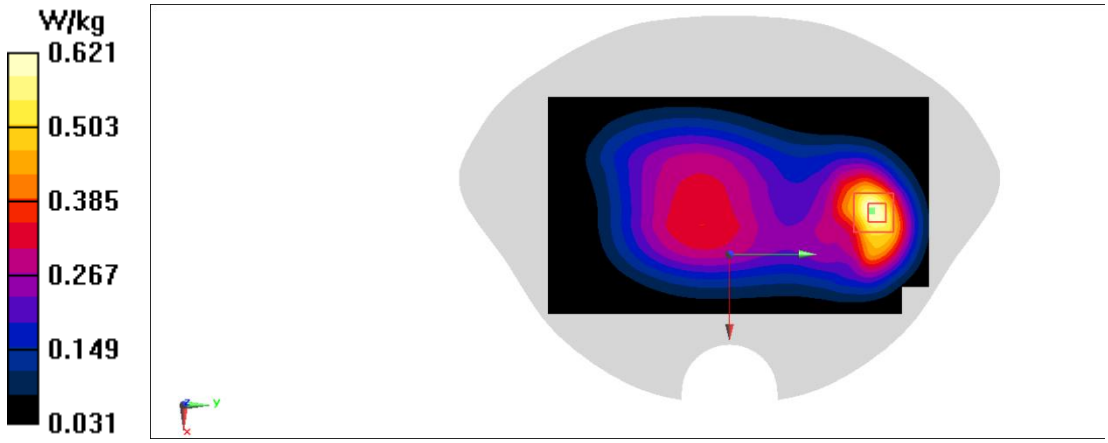


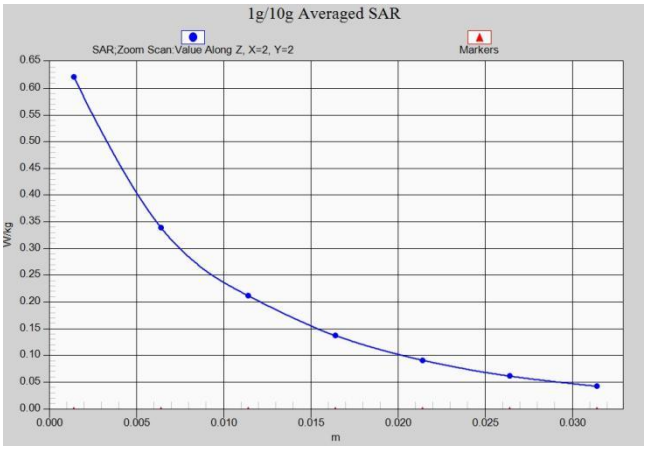


LTE Band26 Body
Date: 4/8/2022
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 841.5 MHz; σ = 0.962 S/m; ε_r = 42.952; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band26 841.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 ConvF(10.36, 10.36, 10.36);

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.638 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.53 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.768 W/kg
SAR(1 g) = 0.417 W/kg; SAR(10 g) = 0.248 W/kg
Maximum value of SAR (measured) = 0.621 W/kg

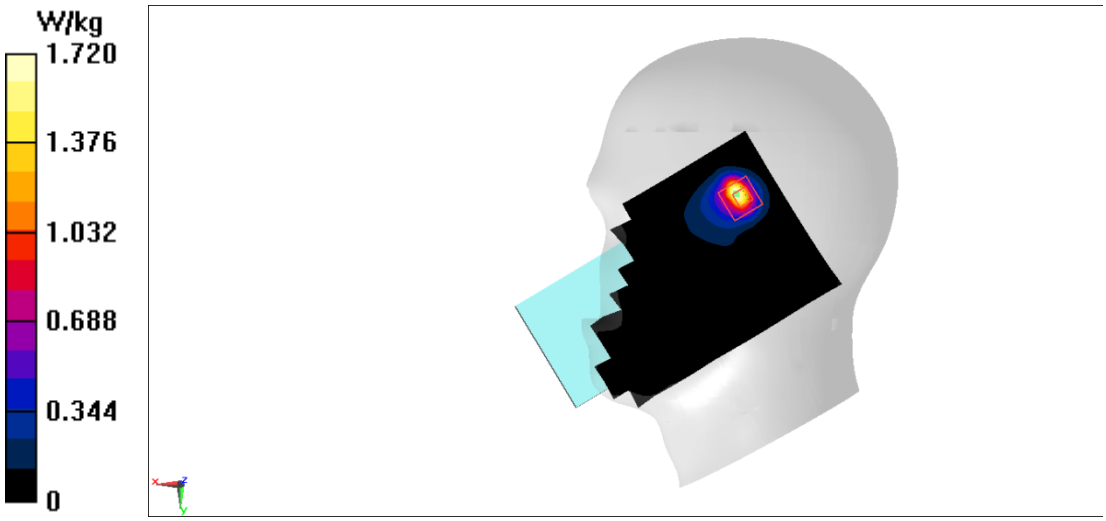


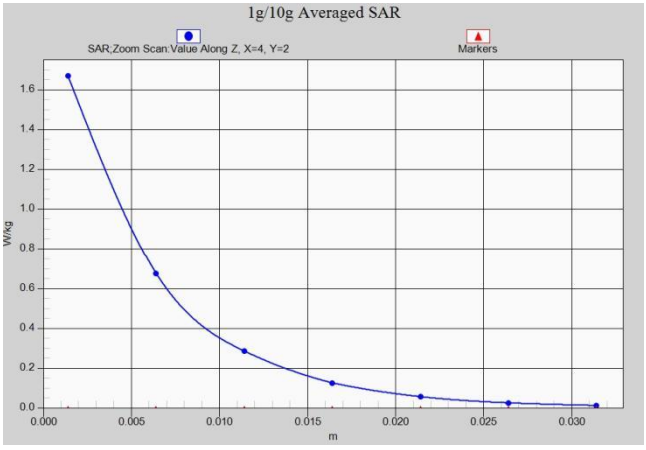


LTE Band41 PC2 Head
Date: 4/20/2022
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 2593 MHz; σ = 1.953 S/m; ε_r = 39.992; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band41 2593 MHz Duty Cycle: 1:1.5787
Probe: EX3DV4 - SN7548 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) = 1.72 W/kg

Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.371 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.33 W/kg
SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.362 W/kg
Maximum value of SAR (measured) = 1.67 W/kg

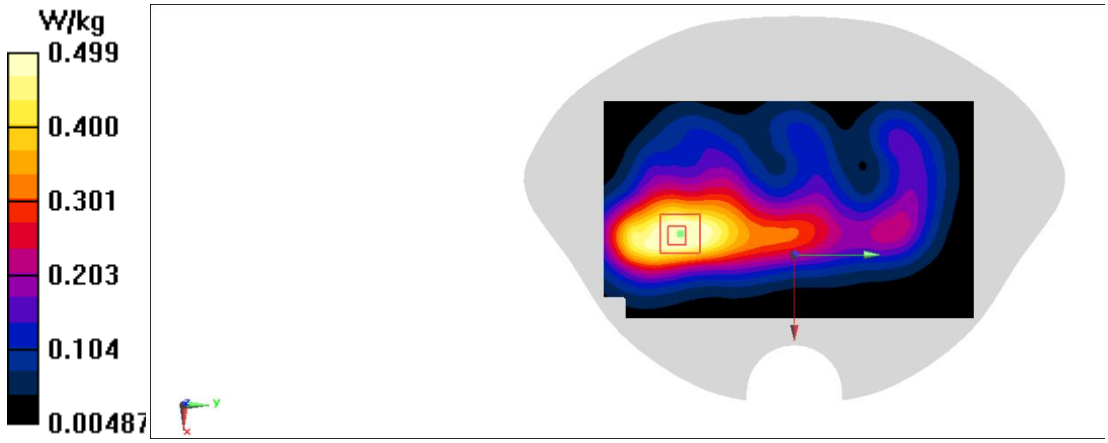


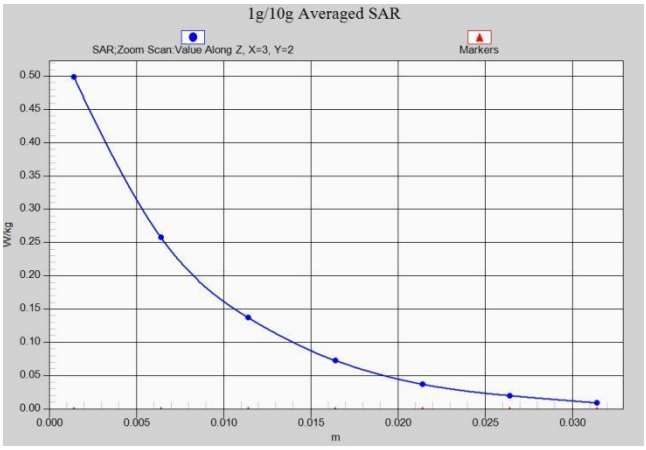


LTE Band41 PC2 Body 15mm
Date: 4/20/2022
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2680 MHz; σ = 2.019 S/m; ε_r = 39.863; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band41 2680 MHz Duty Cycle: 1:1.5787
Probe: EX3DV4 - 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) = 0.531 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.68 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.611 W/kg
SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.183 W/kg
Maximum value of SAR (measured) = 0.499 W/kg

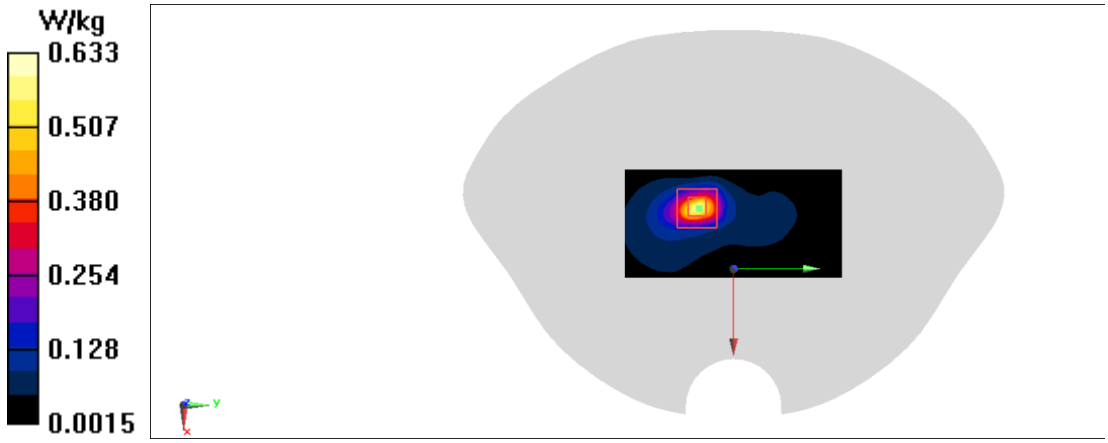


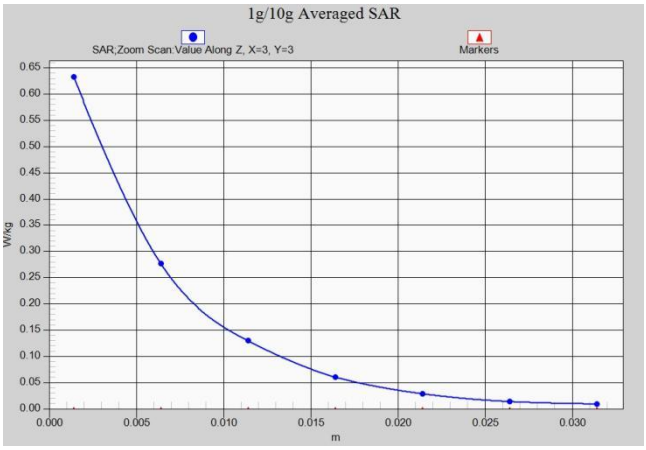


LTE Band41 PC2 Body 10mm
Date: 4/20/2022
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2680 MHz; σ = 2.019 S/m; ε_r = 39.863; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band41 2680 MHz Duty Cycle: 1:1.5787
Probe: EX3DV4 - SN7548 ConvF(7.11, 7.11, 7.11);

Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.591 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.867 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.818 W/kg
SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.136 W/kg
Maximum value of SAR (measured) = 0.633 W/kg

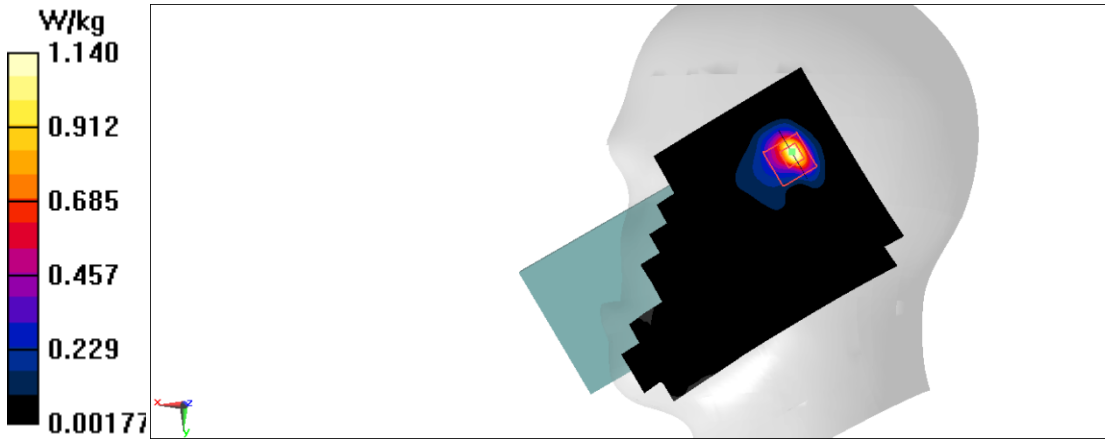


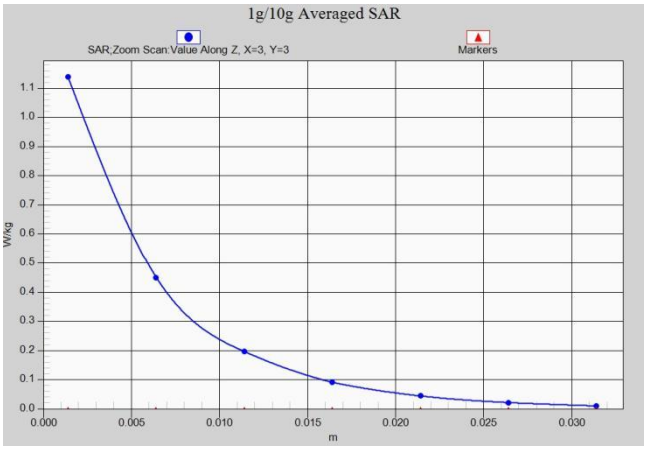


LTE Band41 PC3 Head
Date: 4/18/2022
Electronics: DAE4 Sn1331
Medium: head 2450 MHz
Medium parameters used: f = 2506 MHz; σ = 1.888 S/m; ε_r = 40.096; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band41 2506 MHz Duty Cycle: 1:1.5787
Probe: EX3DV4 - SN7548 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) = 1.23 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.930 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.52 W/kg
SAR(1 g) = 0.582 W/kg; SAR(10 g) = 0.236 W/kg
Maximum value of SAR (measured) = 1.14 W/kg

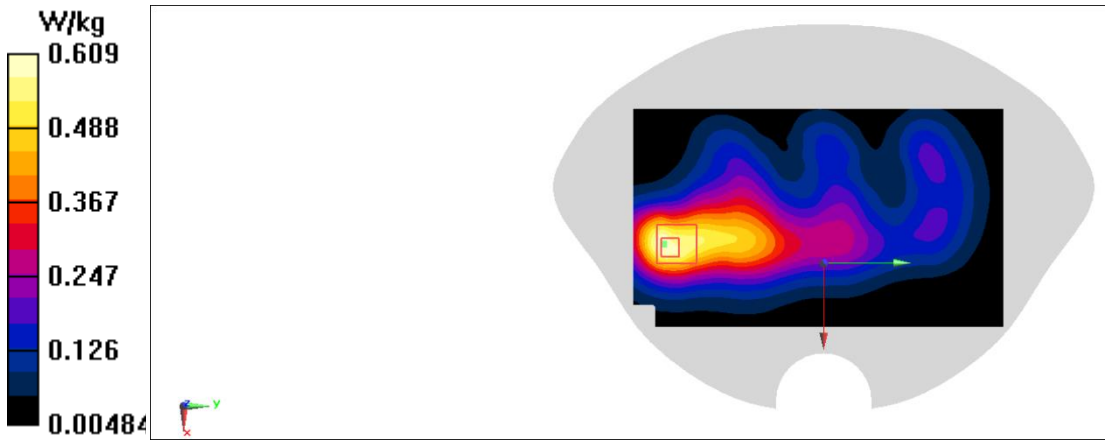


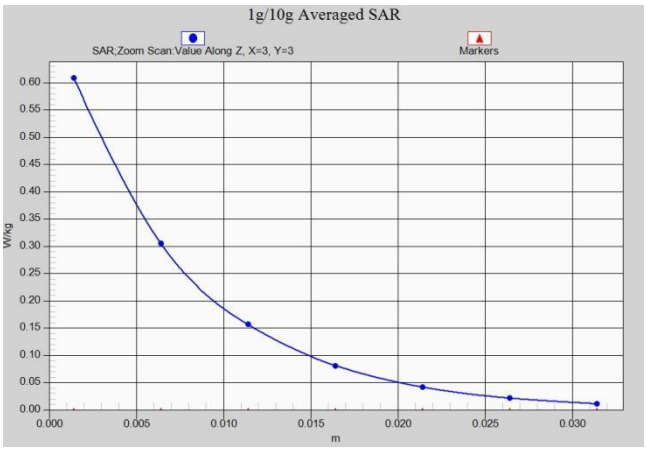


LTE Band41 PC3 Body 15mm
Date: 4/20/2022
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2593 MHz; σ = 1.953 S/m; ε_r = 39.992; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band41 2593 MHz Duty Cycle: 1:1.5787
Probe: EX3DV4 - 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) = 0.616 W/kg

Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.68 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.754 W/kg
SAR(1 g) = 0.385 W/kg; SAR(10 g) = 0.208 W/kg
Maximum value of SAR (measured) = 0.609 W/kg

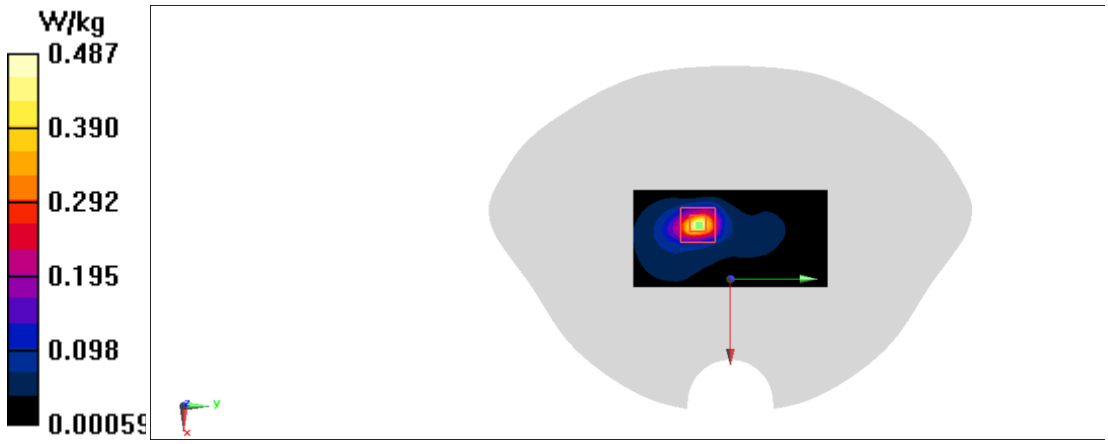


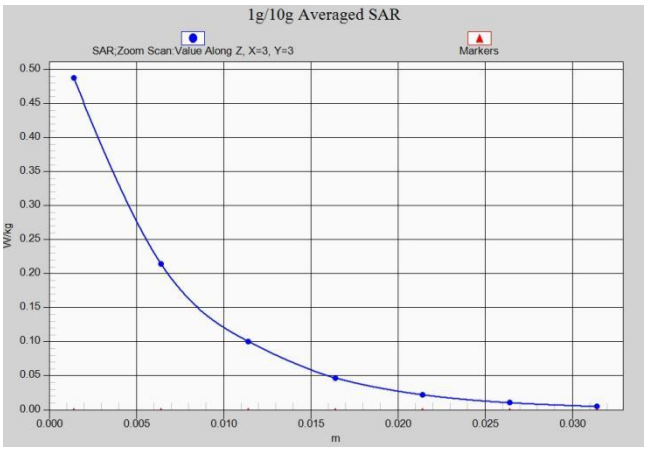


LTE Band41 PC3 Body 10mm
Date: 4/20/2022
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2680 MHz; σ = 2.019 S/m; ε_r = 39.863; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band41 2680 MHz Duty Cycle: 1:1.5787
Probe: EX3DV4 - SN7548 ConvF(7.11, 7.11, 7.11);

Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.462 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.477 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.628 W/kg
SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.105 W/kg
Maximum value of SAR (measured) = 0.487 W/kg

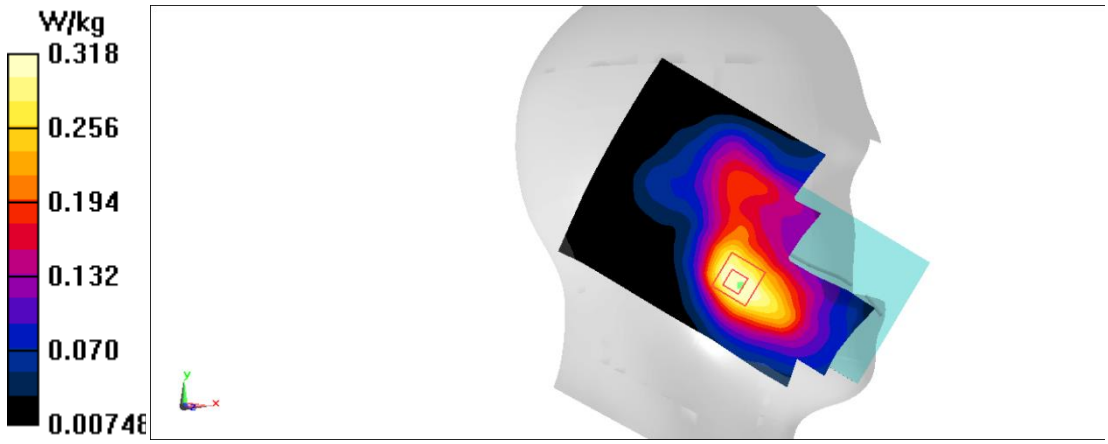


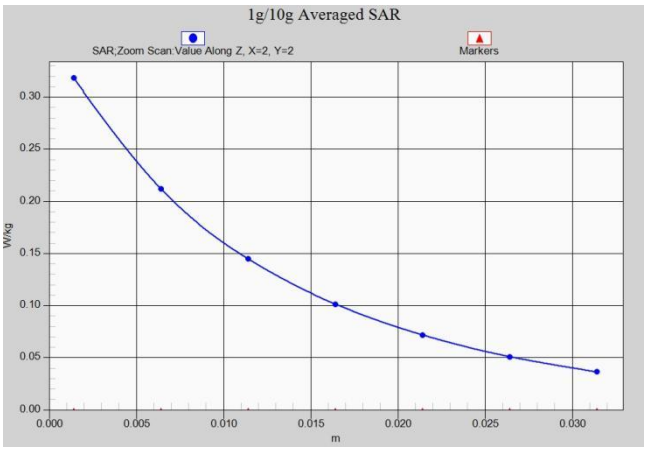


LTE Band66 ANT1 Head
Date: 4/9/2022
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1770 MHz; σ = 1.397 S/m; ε_r = 41.047; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band66 1770 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7548 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) = 0.340 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.341 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.364 W/kg
SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.158 W/kg
Maximum value of SAR (measured) = 0.318 W/kg





LTE Band66 ANT1 Body 15mm
Date: 4/9/2022
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1770 MHz; σ = 1.397 S/m; ε_r = 41.047; ρ = 1000 kg/m^3
Ambient Temperature:22.9°C Liquid Temperature: 22.5°C
Communication System: LTE Band66 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) = 0.584 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.676 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.674 W/kg
SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.278 W/kg
Maximum value of SAR (measured) = 0.578 W/kg