



TEST REPORT

No. 25B01N000571-001-SAR

For

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

Model Name: T513Z

With

Hardware Version: 04

Software Version: 9GS5

FCC ID: 2ACCJH193

Issued Date: 2025-04-21

Designation Number: CN1210

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 SAICT.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25B01N000571-001-SAR	Rev.0	1st edition	2025-04-21

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1. Summary of Test Report

1.1. Test Items

Description:	GSM/UMTS/LTE/NR Mobile phone
Model Name:	T513Z
Applicant's Name:	TCL Communication Ltd.
Manufacturer's Name:	TCL Communication Ltd.

1.2. Test Standards

ANSI C95.1:1992, IEEE Std 1528:2013

1.3. Test Result

Pass. Please refer to "12. Summary of Test Results"

1.4. Testing Location

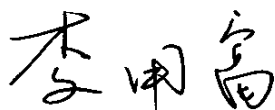
Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project Data

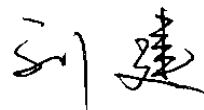
Testing Start Date: 2025-03-22

Testing End Date: 2025-04-14

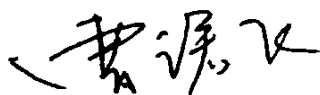
1.6. Signature



Li Yongfu
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Liu Jian
(Reviewed this test report)



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(Approved this test report)

2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for TCL Communication Ltd. GSM/UMTS/LTE/NR Mobile phone T513Z are as follows:

Table 2.1: Highest Reported SAR

Equipment Class	Frequency Bands	1g SAR (W/kg)			10g SAR (W/kg)
		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 15mm)	Extremity (Separation 0mm)
PCE	GSM 850	1.36	0.75	0.45	/
PCE	GSM 1900	1.02	0.64	0.27	/
PCE	WCDMA Band 2	0.48	0.44	0.28	/
PCE	WCDMA Band 4	0.81	0.36	0.33	/
PCE	WCDMA Band 5	0.73	0.40	0.21	/
PCE	LTE Band 7	0.64	0.93	0.41	/
PCE	LTE Band 12/17	0.56	0.25	0.22	/
PCE	LTE Band 13	0.76	0.37	0.23	/
PCE	LTE Band 14	0.79	0.41	0.27	/
PCE	LTE Band 25/2	0.51	0.63	0.32	/
PCE	LTE Band 26/5	0.73	0.40	0.19	/
PCE	LTE Band 30	0.79	0.72	0.56	/
PCE	LTE Band 41 PC3/38	0.51	0.86	0.62	/
PCE	LTE Band 41 PC2	0.75	1.19	0.79	/
CBE	LTE Band 48	0.90	0.42	0.30	/
PCE	LTE Band 66/4	0.71	0.45	0.34	/
PCE	LTE Band 71	0.42	0.31	0.24	/
PCE	NR n5	0.83	0.50	0.24	/
PCE	NR n25/n2	0.60	0.71	0.36	/
PCE	NR n30	0.66	0.63	0.45	/
PCE	NR n41/n38	0.62	0.59	0.33	/
CBE	NR n48	0.53	0.40	0.21	/
PCE	NR n66	0.72	0.46	0.28	/
PCE	NR n70	0.53	0.43	0.27	/
PCE	NR n71	0.49	0.36	0.28	/
PCE	NR n77 Part 27Q/n78	0.56	0.37	0.30	/
PCE	NR n77 Part 27O	0.46	0.39	0.23	/
DSS	Bluetooth	0.06	0.05	0.05	/
DTS	WLAN 2.4GHz	0.54	0.16	0.12	/
NII	WLAN 5GHz	0.89	0.37	0.60	1.88

Maximum Simultaneous Transmission SAR	1.59	1.59	1.59	/
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This device is in compliance with Specific Absorption Rate (SAR) for general population/ uncontrolled exposure limits (1.6 W/kg for Head/Body 1g SAR, 4.0 W/kg for Extremity 10g SAR) specified in ANSI C95.1:1992.

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)**, Head value is **1.36 W/kg (1g)**, Hotspot value is **1.19 W/kg (1g)**, Body-worn value is **0.79 W/kg (1g)** and Extremity SAR value is **1.88 W/kg (10g)**.

3. Client Information

3.1. Applicant Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact:	Ting Wang
Email:	ting.wang.hz@tcl.com
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3.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact:	Ting Wang
Email:	ting.wang.hz@tcl.com
Telephone:	+86 752 2639091

4. Equipment under Test (EUT) and Ancillary Equipment (AE)

4.1. About EUT

Description:	GSM/UMTS/LTE/NR Mobile phone
Model Name:	T513Z
Condition of EUT as received:	No obvious damage in appearance
Frequency Bands:	GSM 850/900/1800/1900, WCDMA Band 1/2/4/5/8, LTE Band 1/2/3/4/5/7/8/12/13/14/17/20/25/26/28/29/30/38/ 41/42/48/66/71, NR n2/n5/n25/n29/n30/n38/n41/n48/n66/n70/n71/n77/n78, Bluetooth, WLAN 2.4GHz/5GHz
Tested Tx Frequency:	824 – 849MHz (GSM 850)
	1850 – 1910MHz (GSM 1900)
	1850 – 1910MHz (WCDMA Band 2)
	1710 – 1755MHz (WCDMA Band 4)
	824 – 849MHz (WCDMA Band 5)
	1850 – 1910MHz (LTE Band 2)
	1710 – 1755MHz (LTE Band 4)
	824 – 849MHz (LTE Band 5)
	2500 – 2570MHz (LTE Band 7)
	799 – 716MHz (LTE Band 12)
	777 – 787MHz (LTE Band 13)
	788 – 798MHz (LTE Band 14)
	704 – 716MHz (LTE Band 17)
	1850 – 1915MHz (LTE Band 25)
	814 – 849MHz (LTE Band 26)
	2305 – 2315MHz (LTE Band 30)
	2570 – 2620MHz (LTE Band 38)
	2496 – 2690MHz (LTE Band 41)
	3550 – 3700MHz (LTE Band 48)
	1710 – 1780MHz (LTE Band 66)
	663 – 698MHz (LTE Band 71)
	1850 – 1910MHz (NR n2)
	824 – 849MHz (NR n5)
	1850 – 1915MHz (NR n25)
	2305 – 2315MHz (NR n30)
	2570 – 2620MHz (NR n38)
	2496 – 2690MHz (NR n41)
	3550 – 3700MHz (NR n48)
	1710 – 1780MHz (NR n66)
	1695 – 1710MHz (NR n70)

	663 – 698MHz (NR n71)
	3450 – 3550MHz, 3700 – 3980MHz (NR n77)
	3450 – 3550MHz (NR n78)
	2402 – 2480MHz (Bluetooth)
	2412 – 2462MHz (WLAN 2.4GHz)
	5150 – 5850MHz (WLAN 5GHz)
GPRS/EDGE Multislot Class:	12
GPRS Capability Class:	B
Dual Transfer Mode (DTM)	Not support
Test device Production information:	Production unit
Device type:	Portable device
Antenna type:	FPC antenna
Hotspot mode:	Support
Product Dimensions:	Long 167.79mm; Wide 76.90mm; Height 8.30mm; Overall Diagonal 184.59mm
Note: 1. This device WLAN 5GHz U-NII-2A and U-NII-2C don't support hotspot operation. 2. This device support the receiver detection mechanism, the main purpose is to minimize triggering associated with power reduction scenarios by receiver detection mechanisms and provide enhanced user experience. It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can determine proximity to head or body and set the relevant power level for 2G&3G&4G and WLAN antennas accordingly.	

*Since the information of samples in this report is provided by the client, the laboratory is not responsible for the authenticity of sample information.

4.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Receipt Date
UT01aa	016681000014554	04	9GS5	2025-03-17
UT02aa	016681000014315	04	9GS5	2025-03-17
UT03aa	016681000014737	04	9GS5	2025-03-19
UT04aa	016681000014927	04	9GS5	2025-03-19
UT05aa	016681000014349	04	9GS5	2025-03-19
UT07aa	016681000014703	04	9GS5	2025-04-01

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

Note: It is performed to test SAR with the UT03aa & UT04aa & UT05aa & UT07aa, and conducted power with the UT01aa & UT02aa.

4.3. Internal Identification of AE used during the test

AE ID*	Description	Model	Manufacturer
AE1	Battery	TLp049D7	VEKEN
AE2	Battery	TLp049C9	FENGHUA

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

Note: The device has two types of batteries. We perform the SAR measurement with AE1 battery and Spot check test with AE2 battery.

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

KDB 447498 D01 General RF Exposure Guidance v06 RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

KDB 648474 D04 Handset SAR v01r03 SAR Evaluation Considerations for Wireless Handsets.

KDB 941225 D01 SAR test for 3G devices v03r01 SAR Measurement Procedures for 3G Devices

KDB 941225 D05 SAR for LTE Devices v02r05 SAR Evaluation Considerations for LTE Devices

KDB 941225 D06 Hot Spot SAR v02r01 SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

KDB 248227 D01 802.11 Wi-Fi SAR v02r02 SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters.

KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04 SAR Measurement Requirements for 100 MHz to 6 GHz

KDB 865664 D02 RF Exposure Reporting v01r02 RF Exposure Compliance Reporting and Documentation Considerations

KDB 941225 D07 UMPC Mini Tablet v01r02 SAR Evaluation Procedures for UMPC Mini-Tablet Devices

KDB 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02: REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES

TCB workshop May 2017: RF Exposure Procedures

TCB workshop October 2018: RF Exposure Procedures

TCB workshop April 2019: RF Exposure Procedures

TCB workshop November 2019: RF Exposure Policy Updates

TCB workshop April 2020: RF Exposure Policies and Procedures - Status

TCB workshop October 2020: RF Exposure Procedures

TCB workshop April 2022: RF Exposure Procedures

6. Specific Absorption Rate (SAR)

6.1. Introduction

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

6.2. SAR Definition

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

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

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

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

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

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

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

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

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

7. Tissue Simulating Liquids

7.1. Targets for tissue simulating liquid

Table 7.1: Targets for tissue simulating liquid

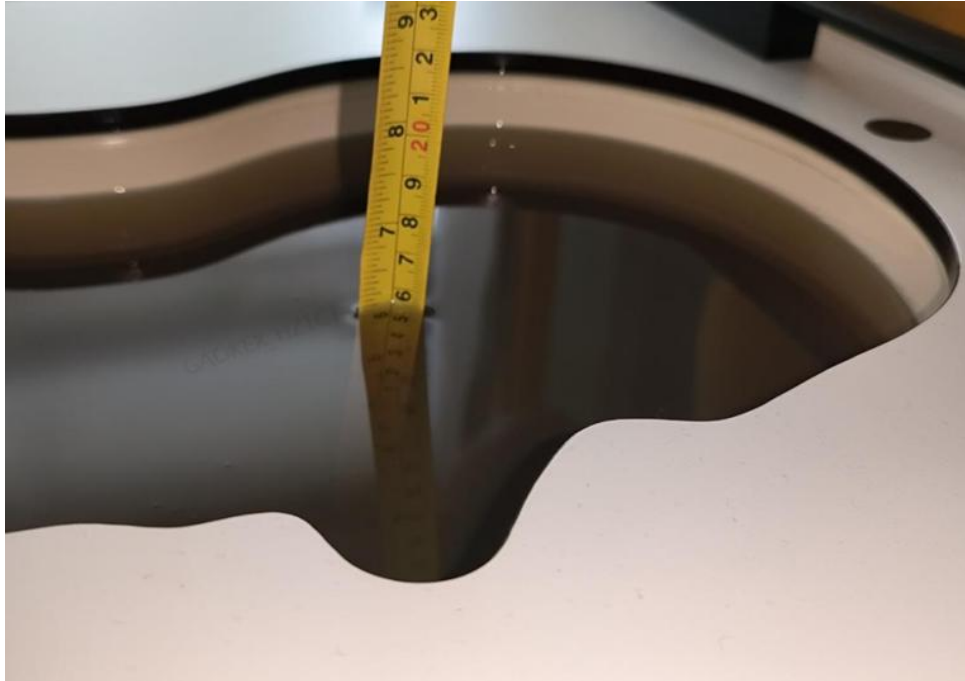
Frequency (MHz)	Liquid Type	Conductivity (σ)	$\pm 5\%$ Range	Permittivity (ϵ)	$\pm 5\%$ Range
750	Head	0.89	0.85~0.93	42.0	39.9~44.1
835	Head	0.90	0.86~0.95	41.5	39.4~43.6
1750	Head	1.37	1.30~1.44	40.1	38.1~42.1
1900	Head	1.40	1.33~1.47	40.0	38.0~42.0
2300	Head	1.67	1.57~1.75	39.5	37.5~41.4
2450	Head	1.80	1.71~1.89	39.2	37.2~41.2
2550	Head	1.91	1.81~2.01	39.1	37.1~41.0
3500	Head	2.91	2.77~3.05	37.9	36.0~39.8
3700	Head	3.12	2.97~3.27	37.7	35.8~39.5
3900	Head	3.32	3.16~3.48	37.5	35.7~39.3
5250	Head	4.71	4.47~4.95	35.9	34.1~37.7
5600	Head	5.07	4.82~5.32	35.5	33.8~37.3
5750	Head	5.22	4.96~5.48	35.4	33.6~37.1

7.2. Dielectric Performance

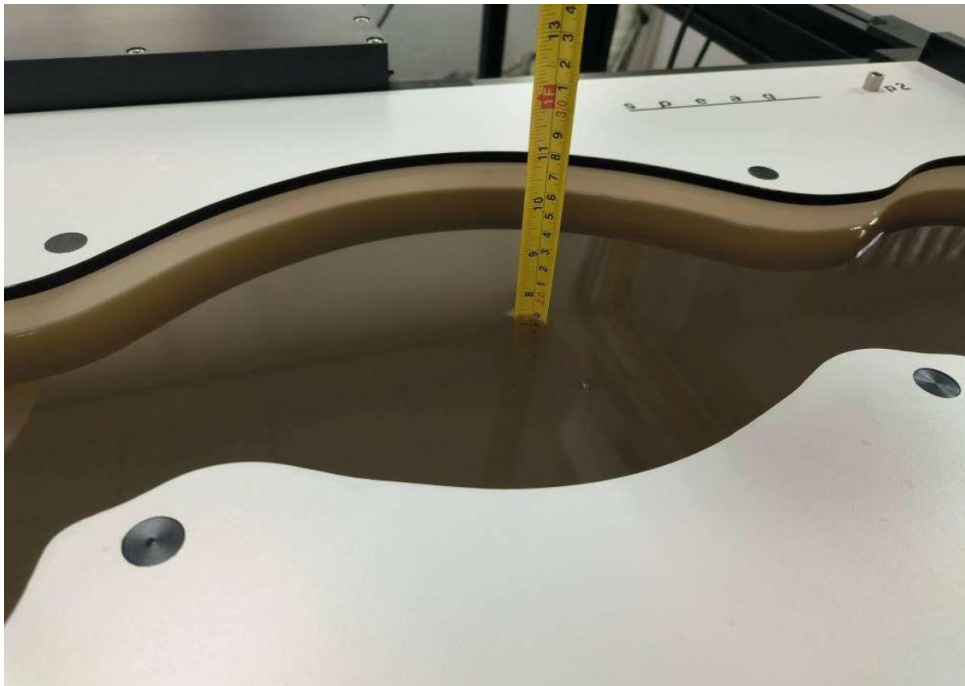
Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Frequency (MHz)	Conductivity σ (S/m)	Drift (%)	Permittivity ϵ	Drift (%)
2025-03-31	750	0.916	2.92	41.46	-1.29
2025-04-05	750	0.882	-0.90	42.72	1.71
2025-03-22	835	0.923	2.56	40.81	-1.66
2025-03-27	835	0.884	-1.78	42.12	1.49
2025-03-26	1750	1.375	0.36	39.49	-1.52
2025-04-01	1750	1.388	1.31	39.04	-2.64
2025-03-24	1900	1.418	1.29	39.06	-2.35
2025-04-09	1900	1.435	2.50	39.71	-0.72
2025-03-30	2300	1.689	1.14	38.57	-2.35
2025-04-03	2300	1.650	-1.20	39.88	0.96
2025-04-11	2450	1.844	2.44	38.75	-1.15
2025-03-25	2550	1.952	2.20	38.46	-1.64
2025-03-29	2550	1.938	1.47	38.20	-2.30
2025-04-14	2550	1.945	1.83	37.91	-3.04
2025-04-02	3500	2.967	1.96	37.31	-1.56
2025-04-10	3500	2.878	-1.10	38.46	1.48
2025-04-02	3700	3.056	-2.05	38.13	1.14
2025-04-10	3700	3.073	-1.51	38.75	2.79
2025-04-02	3900	3.384	1.93	36.52	-2.61
2025-04-12	5250	4.839	2.74	35.23	-1.87
2025-04-13	5600	5.176	2.09	34.68	-2.31
2025-04-13	5750	5.104	-2.22	36.02	1.75

Note: The liquid temperature is 22.0°C.



Picture 7.1 Liquid depth in the Head Phantom (0.6GHz - 7.5GHz)

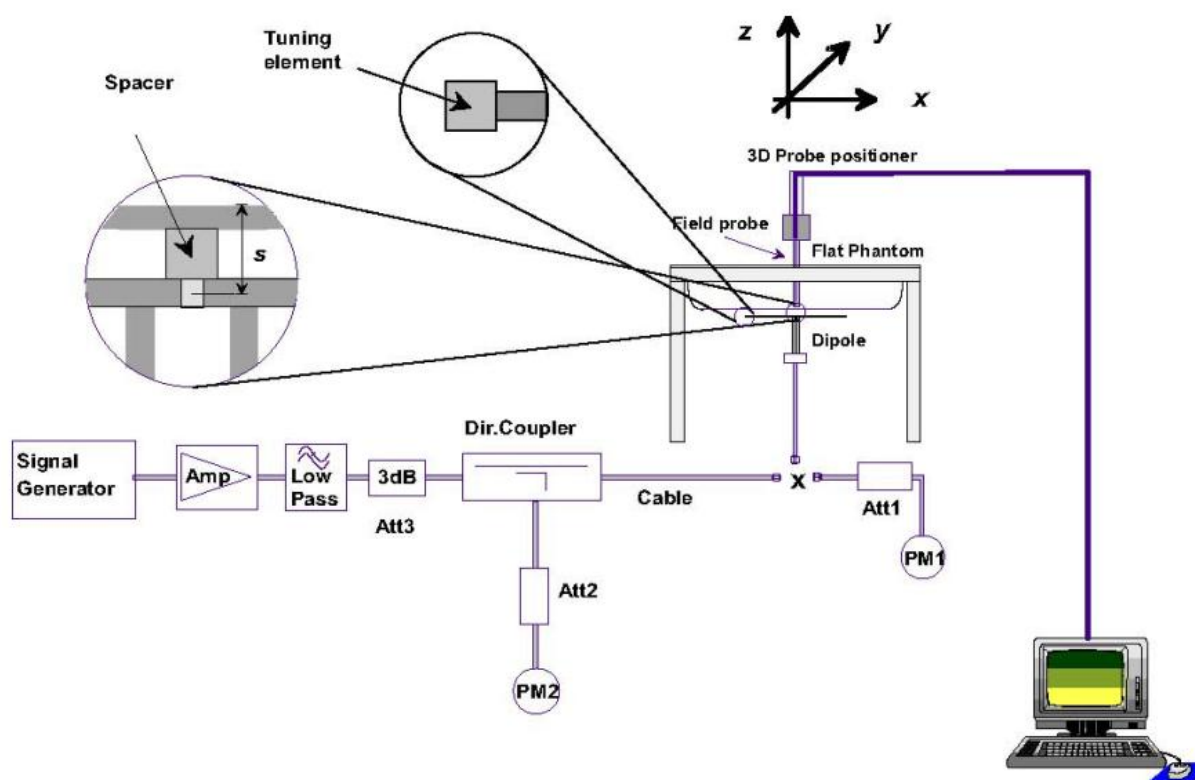


Picture 7.2 Liquid depth in the Flat Phantom (0.6GHz - 7.5GHz)

8. System Check

8.1. System Setup

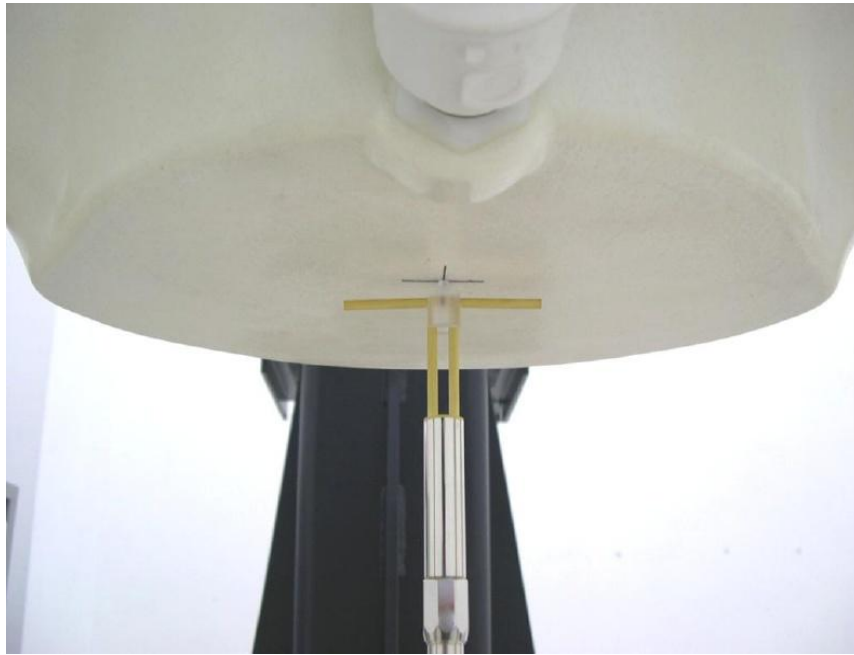
In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. 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

For the dipole below 6GHz, the output power on dipole port must be calibrated to 17 dBm (50mW) before dipole is connected.

For the dipole above 6GHz, the output power on dipole port must be calibrated to 14 dBm (25mW) before dipole is connected.



Picture 8.2 Photo of Dipole Setup

8.2. System Check

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.

Table 8.1: System Check of Head

Measurement Date	Frequency (MHz)	Target value (W/kg)		Measured value (W/kg)				Deviation (%)	
				/		Normalize to 1W			
		1 g	10 g	1 g	10 g	1 g	10 g	1 g	10 g
2025-03-31	750	8.48	5.62	0.440	0.289	8.80	5.78	3.77	2.85
2025-04-05	750	8.48	5.62	0.413	0.276	8.26	5.52	-2.59	-1.78
2025-03-22	835	9.59	6.40	0.499	0.327	9.98	6.54	4.07	2.19
2025-03-27	835	9.59	6.40	0.468	0.316	9.36	6.32	-2.40	-1.25
2025-03-26	1750	36.30	19.60	1.84	0.990	36.80	19.80	1.38	1.02
2025-04-01	1750	36.30	19.60	1.90	1.01	38.00	20.20	4.68	3.06
2025-03-24	1900	39.70	20.90	2.01	1.05	40.20	21.00	1.26	0.48
2025-04-09	1900	39.70	20.90	2.06	1.06	41.20	21.20	3.78	1.44
2025-03-30	2300	49.10	24.00	2.52	1.22	50.40	24.40	2.65	1.67
2025-04-03	2300	49.10	24.00	2.37	1.17	47.40	23.40	-3.46	-2.50
2025-04-11	2450	52.70	24.80	2.75	1.28	55.00	25.60	4.36	3.23
2025-03-25	2550	55.00	25.00	2.86	1.29	57.20	25.80	4.00	3.20
2025-03-29	2550	55.00	25.00	2.79	1.26	55.80	25.20	1.45	0.80
2025-04-14	2550	55.00	25.00	2.83	1.27	56.60	25.40	2.91	1.60
2025-04-02	3500	65.40	25.60	3.36	1.30	67.20	26.00	2.75	1.56
2025-04-10	3500	65.40	25.60	3.15	1.26	63.00	25.20	-3.67	-1.56
2025-04-02	3700	66.70	25.00	3.21	1.21	64.20	24.20	-3.75	-3.20
2025-04-10	3700	66.70	25.00	3.24	1.23	64.80	24.60	-2.85	-1.60
2025-04-02	3900	67.00	24.00	3.45	1.22	69.00	24.40	2.99	1.67
2025-04-12	5250	79.70	22.80	4.17	1.18	83.40	23.60	4.64	3.51
2025-04-13	5600	82.60	23.60	4.28	1.21	85.60	24.20	3.63	2.54
2025-04-13	5750	78.50	22.10	3.80	1.08	76.00	21.60	-3.18	-2.26

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.

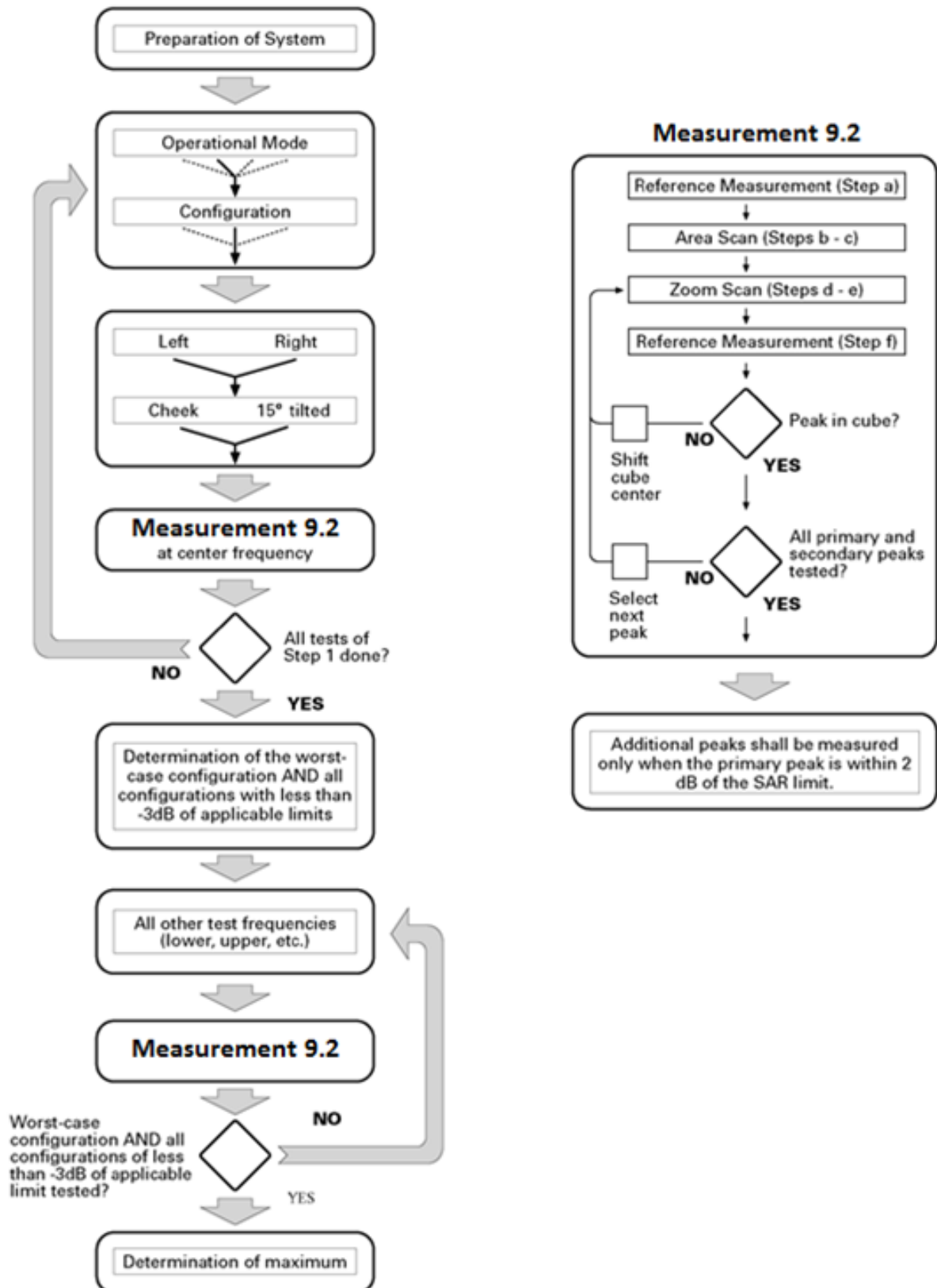
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the center of the transmit frequency band (f_c) for:

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

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

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

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



Picture 9.1 Block diagram of the tests to be performed

9.2. General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

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

9.3. WCDMA Measurement Procedures for SAR

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

For Release 5 HSDPA Data Devices:

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

For Release 6 HSPA Data Devices

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	12/15	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	4/15	56/75	4	1	3.0	2.0	17	71
5	15/15	15/15	64	15/15	24/15	30/15	134/15	4	1	1.0	0.0	21	81

9.4. SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Anristu MT8820C. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the Anristu MT8820C. 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

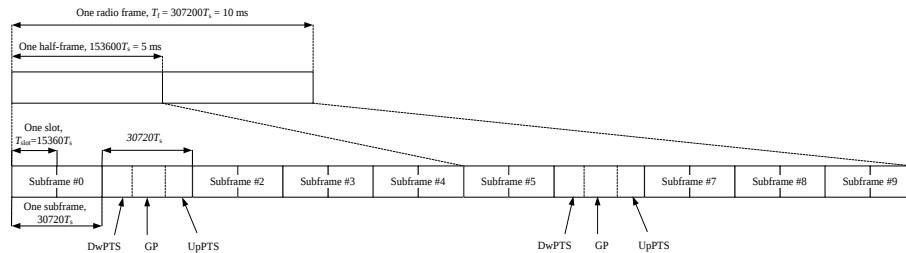
For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured 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.

9.5. LTE (TDD) Considerations

According to KDB 941225 D05 SAR for LTE Devices, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.



Frame structure type 2

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

Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

Calculated Duty Cycle

Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

Where:

$T_s = 1/(15000 \times 2048)$ seconds

9.6. Bluetooth & WLAN 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.

9.7. Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in Section 12 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

10. Conducted Output Power

Summary of power level – WWAN antenna

/	Receiver on (Head)	Receiver off + Hotspot on (Hotspot)	Receiver off + Hotspot off (Body-worn / Extremity)	$P_{\max}$
Stand-alone	Power Level A1	Power Level B1	Power Level C1	Full Power
ULCA&ENDC Mode	Power Level A2	Power Level B2	Power Level C2	

Summary of power level – Bluetooth/WLAN antenna

/	Receiver on (Head)	Receiver off + Hotspot on (Hotspot)	Receiver off + Hotspot off (Body-worn / Extremity)	$P_{\max}$
Stand-alone	Power Level D1	Power Level E1	Power Level F1	Full Power
WLAN/Bluetooth + WWAN	Power Level D2	Power Level E2	Power Level F2	

10.1. GSM Measurement result

Table 10.1: The conducted power measurement results for GSM/GPRS/EDGE

Ant.0 - GSM 850 Full Power, Power Level B1/C1

GSM 850 Speech	Conducted Power (dBm)			Tune up (dBm)	/			
	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)					
	32.07	32.30	32.27	33.5				
GPRS/EDGE 850 (GMSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)			Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
1 Txslot	32.06	32.33	32.23	33.5	-9.03	23.03	23.30	23.20
2 Txslots	31.59	31.86	31.78	33.0	-6.02	25.57	25.84	25.76
3 Txslots	30.20	30.53	30.45	31.5	-4.26	25.94	26.27	26.19
4 Txslots	29.47	29.81	29.64	30.0	-3.01	26.46	26.80	26.63
EDGE 850 (8PSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)			Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
1 Txslot	27.55	27.59	27.76	28.5	-9.03	18.52	18.56	18.73
2 Txslots	26.49	26.70	26.60	27.5	-6.02	20.47	20.68	20.58
3 Txslots	24.47	24.52	24.57	25.0	-4.26	20.21	20.26	20.31
4 Txslots	23.32	23.36	23.39	23.5	-3.01	20.31	20.35	20.38

Ant.0 - GSM 850 Power Level A1

GSM 850 Speech	Conducted Power (dBm)			Tune up (dBm)	/			
	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)					
	31.06	31.29	31.15	32.5				
GPRS/EDGE 850 (GMSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)			Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
1 Txslot	31.02	31.32	31.18	32.5	-9.03	21.99	22.29	22.15
2 Txslots	30.61	30.91	30.78	32.0	-6.02	24.59	24.89	24.76
3 Txslots	29.15	29.54	29.41	30.5	-4.26	24.89	25.28	25.15
4 Txslots	28.44	28.78	28.62	29.0	-3.01	25.43	25.77	25.61
EDGE 850 (8PSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)			Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
1 Txslot	27.57	27.62	27.71	28.5	-9.03	18.54	18.59	18.68
2 Txslots	26.54	26.66	26.64	27.5	-6.02	20.52	20.64	20.62
3 Txslots	24.52	24.57	24.57	25.0	-4.26	20.26	20.31	20.31
4 Txslots	23.27	23.36	23.41	23.5	-3.01	20.26	20.35	20.40

Ant.2 - GSM 1900 Full Power, Power Level B1/C1

GSM 1900 Speech	Conducted Power (dBm)			Tune up (dBm)	/			
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)					
	29.44	29.42	29.48	30.0				
GPRS/EDGE 1900 (GMSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)			Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)
1 Txslot	29.48	29.40	29.53	30.0	-9.03	20.45	20.37	20.50
2 Txslots	29.05	28.99	29.12	29.5	-6.02	23.03	22.97	23.10
3 Txslots	27.66	27.56	27.68	28.0	-4.26	23.40	23.30	23.42
4 Txslots	26.40	26.41	26.41	27.0	-3.01	23.39	23.40	23.40
EDGE 1900 (8PSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)			Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)
1 Txslot	26.24	26.18	26.28	27.0	-9.03	17.21	17.15	17.25
2 Txslots	25.08	24.94	25.10	26.0	-6.02	19.06	18.92	19.08
3 Txslots	22.92	22.77	22.84	23.8	-4.26	18.66	18.51	18.58
4 Txslots	21.58	21.47	21.52	22.5	-3.01	18.57	18.46	18.51

Ant.2 - GSM 1900 Power Level A1

GSM 1900 Speech	Conducted Power (dBm)			Tune up (dBm)	/			
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)					
	27.33	27.21	27.25	27.8				
GPRS/EDGE 1900 (GMSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)			Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)
1 Txslot	27.36	27.17	27.28	27.8	-9.03	18.33	18.14	18.25
2 Txslots	26.97	26.84	26.92	27.8	-6.02	20.95	20.82	20.90
3 Txslots	25.88	25.94	25.95	26.5	-4.26	21.62	21.68	21.69
4 Txslots	24.44	24.34	24.22	25.0	-3.01	21.43	21.33	21.21
EDGE 1900 (8PSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)			Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)
1 Txslot	26.33	26.21	26.31	27.0	-9.03	17.30	17.18	17.28
2 Txslots	25.20	25.17	25.08	26.0	-6.02	19.18	19.15	19.06
3 Txslots	22.88	22.92	22.83	23.8	-4.26	18.62	18.66	18.57
4 Txslots	21.71	21.58	21.56	22.5	-3.01	18.70	18.57	18.55

10.2. WCDMA Measurement result

Table 10.2: The conducted power measurement results WCDMA

Ant.2 - WCDMA Band 2 Full Power

WCDMA Band 2		Conducted Power (dBm)			Tune up (dBm)
		Ch. 9538 (1907.6MHz)	Ch. 9400 (1880.0MHz)	Ch. 9262 (1852.4MHz)	
RMC	12.2kbps RMC	23.08	22.96	22.91	24.0
HSUPA	Sub - Test 1	21.52	21.41	21.27	22.5
	Sub - Test 2	19.98	19.88	19.72	21.0
	Sub - Test 3	21.15	21.09	20.94	22.0
	Sub - Test 4	19.59	19.50	19.33	20.5
	Sub - Test 5	21.63	21.59	21.47	22.5
HSDPA	Sub - Test 1	22.08	22.02	21.89	23.0
	Sub - Test 2	21.91	21.84	21.73	23.0
	Sub - Test 3	21.65	21.58	21.47	22.5
	Sub - Test 4	21.61	21.45	21.41	22.5
DC-HSDPA	Sub - Test 1	21.99	21.87	21.79	23.0
	Sub - Test 2	21.96	21.87	21.75	23.0
	Sub - Test 3	21.65	21.52	21.43	22.5
	Sub - Test 4	21.54	21.50	21.38	22.5
HSPA+	16QAM	21.24	21.10	21.01	22.0

Ant.2 - WCDMA Band 2 Power Level A1

WCDMA Band 2		Conducted Power (dBm)			Tune up (dBm)
		Ch. 9538 (1907.6MHz)	Ch. 9400 (1880.0MHz)	Ch. 9262 (1852.4MHz)	
RMC	12.2kbps RMC	18.08	18.01	17.94	19.0
HSUPA	Sub - Test 1	16.18	16.14	16.02	17.0
	Sub - Test 2	16.16	16.02	15.96	17.0
	Sub - Test 3	16.31	16.22	16.15	17.0
	Sub - Test 4	16.29	16.19	16.08	17.0
	Sub - Test 5	16.46	16.31	16.23	17.0
HSDPA	Sub - Test 1	18.06	17.94	17.85	19.0
	Sub - Test 2	17.99	17.89	17.81	19.0
	Sub - Test 3	17.43	17.37	17.25	18.5
	Sub - Test 4	17.48	17.43	17.31	18.5
DC-HSDPA	Sub - Test 1	18.00	17.91	17.79	19.0
	Sub - Test 2	17.94	17.79	17.72	19.0
	Sub - Test 3	17.44	17.35	17.25	18.5
	Sub - Test 4	17.54	17.44	17.33	18.5
HSPA+	16QAM	17.30	17.25	17.09	18.0

Ant.2 - WCDMA Band 2 Power Level B1

WCDMA Band 2		Conducted Power (dBm)			Tune up (dBm)
		Ch. 9538 (1907.6MHz)	Ch. 9400 (1880.0MHz)	Ch. 9262 (1852.4MHz)	
RMC	12.2kbps RMC	20.13	19.94	19.92	21.0
HSUPA	Sub - Test 1	19.42	19.31	19.26	20.5
	Sub - Test 2	18.03	17.95	17.88	19.0
	Sub - Test 3	19.18	19.06	18.94	20.0
	Sub - Test 4	17.76	17.61	17.49	18.5
	Sub - Test 5	18.46	18.39	18.30	19.5
HSDPA	Sub - Test 1	19.89	19.79	19.70	21.0
	Sub - Test 2	19.86	19.79	19.70	21.0
	Sub - Test 3	19.46	19.38	19.24	20.5
	Sub - Test 4	19.49	19.35	19.30	20.5
DC-HSDPA	Sub - Test 1	19.98	19.85	19.73	21.0
	Sub - Test 2	19.90	19.77	19.67	21.0
	Sub - Test 3	19.49	19.37	19.28	20.5
	Sub - Test 4	19.36	19.26	19.18	20.5
HSPA+	16QAM	19.25	19.08	19.05	20.0

Ant.2 - WCDMA Band 2 Power Level C1

WCDMA Band 2		Conducted Power (dBm)			Tune up (dBm)
		Ch. 9538 (1907.6MHz)	Ch. 9400 (1880.0MHz)	Ch. 9262 (1852.4MHz)	
RMC	12.2kbps RMC	21.62	21.49	21.47	22.5
HSUPA	Sub - Test 1	20.43	20.40	20.27	21.5
	Sub - Test 2	18.99	18.86	18.82	20.0
	Sub - Test 3	20.20	20.06	19.99	21.0
	Sub - Test 4	18.55	18.46	18.34	19.5
	Sub - Test 5	20.68	20.56	20.50	21.5
HSDPA	Sub - Test 1	21.10	20.99	20.89	22.0
	Sub - Test 2	20.95	20.85	20.77	22.0
	Sub - Test 3	20.66	20.56	20.43	21.5
	Sub - Test 4	20.56	20.49	20.37	21.5
DC-HSDPA	Sub - Test 1	20.98	20.89	20.81	22.0
	Sub - Test 2	21.00	20.86	20.79	22.0
	Sub - Test 3	20.59	20.55	20.44	21.5
	Sub - Test 4	20.56	20.47	20.39	21.5
HSPA+	16QAM	20.19	20.12	19.99	21.0

Ant.2 - WCDMA Band 4 Full Power

WCDMA Band 4		Conducted Power (dBm)			Tune up (dBm)
		Ch. 1513 (1752.6MHz)	Ch. 1413 (1732.6MHz)	Ch. 1312 (1712.4MHz)	
RMC	12.2kbps RMC	22.88	22.97	22.84	24.0
HSUPA	Sub - Test 1	21.42	21.42	21.36	22.5
	Sub - Test 2	19.94	20.00	19.90	21.0
	Sub - Test 3	20.51	20.60	20.52	21.5
	Sub - Test 4	20.01	20.04	20.00	21.0
	Sub - Test 5	21.38	21.42	21.34	22.5
HSDPA	Sub - Test 1	22.04	22.08	21.98	23.0
	Sub - Test 2	22.01	22.05	21.97	23.0
	Sub - Test 3	21.56	21.53	21.48	22.5
	Sub - Test 4	21.41	21.50	21.43	22.5
DC-HSDPA	Sub - Test 1	22.07	22.10	22.02	23.0
	Sub - Test 2	22.04	22.03	21.96	23.0
	Sub - Test 3	21.48	21.55	21.49	22.5
	Sub - Test 4	21.48	21.51	21.39	22.5
HSPA+	16QAM	21.14	21.18	21.08	22.0

Ant.2 - WCDMA Band 4 Power Level A1

WCDMA Band 4		Conducted Power (dBm)			Tune up (dBm)
		Ch. 1513 (1752.6MHz)	Ch. 1413 (1732.6MHz)	Ch. 1312 (1712.4MHz)	
RMC	12.2kbps RMC	18.82	18.83	18.77	20.0
HSUPA	Sub - Test 1	16.94	16.99	16.91	18.0
	Sub - Test 2	17.01	17.02	17.00	18.0
	Sub - Test 3	16.84	16.90	16.80	18.0
	Sub - Test 4	17.09	17.09	17.05	18.0
	Sub - Test 5	18.49	18.56	18.42	19.8
HSDPA	Sub - Test 1	18.39	18.47	18.40	19.5
	Sub - Test 2	18.24	18.25	18.12	19.0
	Sub - Test 3	18.36	18.36	18.25	19.5
	Sub - Test 4	18.60	18.65	18.54	19.8
DC-HSDPA	Sub - Test 1	18.42	18.49	18.41	19.5
	Sub - Test 2	18.21	18.24	18.13	19.0
	Sub - Test 3	18.36	18.46	18.36	19.5
	Sub - Test 4	18.55	18.59	18.48	19.8
HSPA+	16QAM	18.10	18.11	18.03	19.0

Ant.2 - WCDMA Band 4 Power Level B1/C1

WCDMA Band 4		Conducted Power (dBm)			Tune up (dBm)
		Ch. 1513 (1752.6MHz)	Ch. 1413 (1732.6MHz)	Ch. 1312 (1712.4MHz)	
RMC	12.2kbps RMC	22.39	22.46	22.34	23.5
HSUPA	Sub - Test 1	20.02	20.05	19.98	21.0
	Sub - Test 2	19.91	19.99	19.85	21.0
	Sub - Test 3	20.06	20.09	19.95	21.0
	Sub - Test 4	19.99	20.07	19.91	21.0
	Sub - Test 5	21.08	21.18	21.06	22.0
HSDPA	Sub - Test 1	21.11	21.17	21.11	22.0
	Sub - Test 2	20.96	21.00	20.97	22.0
	Sub - Test 3	20.46	20.51	20.37	21.5
	Sub - Test 4	20.50	20.51	20.43	21.5
DC-HSDPA	Sub - Test 1	21.09	21.07	21.04	22.0
	Sub - Test 2	21.04	21.08	20.97	22.0
	Sub - Test 3	20.61	20.59	20.51	21.5
	Sub - Test 4	20.45	20.49	20.38	21.5
HSPA+	16QAM	21.11	21.18	21.06	22.0

Ant.0 - WCDMA Band 5 Full Power

WCDMA Band 5		Conducted Power (dBm)			Tune up (dBm)
		Ch. 4233 (846.6MHz)	Ch. 4183 (836.6MHz)	Ch. 4132 (826.4MHz)	
RMC	12.2kbps RMC	22.82	22.93	22.88	24.0
HSUPA	Sub - Test 1	20.20	20.29	20.26	21.5
	Sub - Test 2	19.31	19.43	19.38	20.5
	Sub - Test 3	20.28	20.36	20.29	21.5
	Sub - Test 4	19.32	19.44	19.40	20.5
	Sub - Test 5	21.29	21.37	21.31	22.5
HSDPA	Sub - Test 1	21.78	21.87	21.80	23.0
	Sub - Test 2	21.44	21.47	21.43	22.5
	Sub - Test 3	20.80	20.88	20.87	22.0
	Sub - Test 4	20.75	20.88	20.86	22.0
DC-HSDPA	Sub - Test 1	21.78	21.89	21.81	23.0
	Sub - Test 2	21.35	21.51	21.44	22.5
	Sub - Test 3	20.87	20.97	20.91	22.0
	Sub - Test 4	20.80	20.91	20.84	22.0
HSPA+	16QAM	20.87	20.93	20.91	22.0

Ant.0 - WCDMA Band 5 Power Level A1

WCDMA Band 5		Conducted Power (dBm)			Tune up (dBm)
		Ch. 4233 (846.6MHz)	Ch .4183 (836.6MHz)	Ch. 4132 (826.4MHz)	
RMC	12.2kbps RMC	21.12	21.24	21.22	22.5
HSUPA	Sub - Test 1	18.73	18.89	18.84	20.0
	Sub - Test 2	18.86	19.01	18.96	20.0
	Sub - Test 3	18.63	18.76	18.67	20.0
	Sub - Test 4	18.86	18.97	18.88	20.0
	Sub - Test 5	19.87	19.95	19.90	21.0
HSDPA	Sub - Test 1	20.74	20.88	20.85	22.0
	Sub - Test 2	20.82	20.93	20.85	22.0
	Sub - Test 3	20.33	20.42	20.41	21.5
	Sub - Test 4	20.36	20.43	20.45	21.5
DC-HSDPA	Sub - Test 1	20.75	20.87	20.80	22.0
	Sub - Test 2	20.81	20.92	20.85	22.0
	Sub - Test 3	20.34	20.40	20.41	21.5
	Sub - Test 4	20.36	20.44	20.45	21.5
HSPA+	16QAM	20.46	20.49	20.49	21.5

Ant.0 - WCDMA Band 5 Power Level B1/C1

WCDMA Band 5		Conducted Power (dBm)			Tune up (dBm)
		Ch. 4233 (846.6MHz)	Ch .4183 (836.6MHz)	Ch. 4132 (826.4MHz)	
RMC	12.2kbps RMC	22.27	22.39	22.34	23.5
HSUPA	Sub - Test 1	18.82	18.87	18.88	20.0
	Sub - Test 2	18.92	19.04	18.94	20.0
	Sub - Test 3	18.66	18.80	18.73	20.0
	Sub - Test 4	18.88	18.94	18.96	20.0
	Sub - Test 5	19.82	19.94	19.95	21.0
HSDPA	Sub - Test 1	21.74	21.87	21.86	23.0
	Sub - Test 2	21.41	21.50	21.44	22.5
	Sub - Test 3	20.79	20.89	20.84	22.0
	Sub - Test 4	20.75	20.87	20.86	22.0
DC-HSDPA	Sub - Test 1	21.80	21.87	21.85	23.0
	Sub - Test 2	21.43	21.47	21.45	22.5
	Sub - Test 3	20.83	20.93	20.84	22.0
	Sub - Test 4	20.76	20.90	20.87	22.0
HSPA+	16QAM	20.87	20.95	20.88	22.0

10.3. LTE Measurement result

According to April 2015 TCB workshop, SAR Test exclusion can be applied for testing overlapping LTE Bands as follows:

- a) The maximum out power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for SAR test exclusion.
- b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

LTE Band 2 (1850-1910MHz) is covered by LTE Band 25 (1850-1915MHz)

LTE Band 4 (1710-1755MHz) is covered by LTE Band 66 (1710-1780MHz)

LTE Band 5 (824-849MHz) is covered by LTE Band 26 (818-849MHz)

LTE Band 17 (704-716MHz) is covered by LTE Band 12 (799-716MHz)

LTE Band 38 (2570-2620MHz) is covered by LTE Band 41 (2496-2690MHz)

Ant.0 - LTE Band 13 Full Power, Power Level A1/B1/B2/C1/C2

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up	256QAM Tune-up
5MHz	1RB-High (24)	784.5	22.89	22.16	21.10	18.12	24.0	23.0	22.0	19.0
		782.0	22.95	22.21	21.08	18.11				
		779.5	22.96	22.23	21.08	18.19				
	1RB-Middle (12)	784.5	22.98	22.23	21.10	18.18				
		782.0	22.93	22.24	21.08	18.16				
		779.5	23.05	22.23	21.17	18.26				
	1RB-Low (0)	784.5	22.91	22.15	21.09	18.15				
		782.0	23.00	22.15	21.09	18.23				
		779.5	23.06	22.08	21.06	18.25				
	12RB-High (13)	784.5	21.92	20.94	20.03	18.14	23.0	22.0	21.0	19.0
		782.0	21.94	20.94	20.04	18.11				
		779.5	21.98	20.99	20.09	18.18				
	12RB-Middle (6)	784.5	21.93	20.97	20.04	18.17				
		782.0	21.93	20.94	20.05	18.10				
		779.5	21.95	20.94	20.07	18.15				
	12RB-Low (0)	784.5	21.93	20.95	20.04	18.11				
		782.0	21.94	20.93	20.05	18.11				
		779.5	21.88	20.90	20.03	18.07				
	25RB (0)	784.5	21.97	20.94	20.01	18.21				
		782.0	21.98	20.96	20.00	18.15				
		779.5	21.96	20.95	20.04	18.17				
10MHz	1RB-High (49)	782.0	22.96	22.19	21.09	18.15	24.0	23.0	22.0	19.0
	1RB-Middle (24)	782.0	22.96	22.24	21.07	18.12				
	1RB-Low (0)	782.0	23.01	22.13	21.14	18.23				
	25RB-High (25)	782.0	21.98	20.95	20.00	18.17	23.0	22.0	21.0	19.0
	25RB-Middle (12)	782.0	21.96	20.93	19.99	18.19				
	25RB-Low (0)	782.0	21.87	20.86	19.94	18.07				
	50RB (0)	782.0	21.90	20.90	19.95	18.13				

Ant.0 - LTE Band 13 Power Level A2

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up	256QAM Tune-up
5MHz	1RB-High (24)	784.5	19.63	19.88	19.82	18.07	21.0	21.0	21.0	19.0
		782.0	19.63	19.97	19.79	18.03				
		779.5	19.64	19.74	19.65	18.16				
	1RB-Middle (12)	784.5	19.61	19.93	19.80	18.13				
		782.0	19.65	19.96	19.74	18.14				
		779.5	19.66	19.76	19.68	18.23				
	1RB-Low (0)	784.5	19.65	19.93	19.75	18.13				
		782.0	19.65	19.97	19.81	18.21				
		779.5	19.68	19.72	19.70	18.21				
	12RB-High (13)	784.5	19.57	19.54	19.55	18.05	21.0	21.0	21.0	19.0
		782.0	19.55	19.61	19.69	18.03				
		779.5	19.60	19.56	19.61	18.14				
	12RB-Middle (6)	784.5	19.58	19.58	19.54	18.12				
		782.0	19.55	19.59	19.69	18.02				
		779.5	19.58	19.53	19.67	18.12				
	12RB-Low (0)	784.5	19.59	19.53	19.56	18.04				
		782.0	19.57	19.65	19.71	18.03				
		779.5	19.58	19.54	19.66	17.98				
	25RB (0)	784.5	19.57	19.56	19.64	18.16				
		782.0	19.56	19.59	19.65	18.11				
		779.5	19.57	19.56	19.65	18.13				
10MHz	1RB-High (49)	782.0	19.64	19.89	19.79	18.11	21.0	21.0	21.0	19.0
	1RB-Middle (24)	782.0	19.62	19.94	19.77	18.10				
	1RB-Low (0)	782.0	19.66	19.72	19.67	18.22				
	25RB-High (25)	782.0	19.59	19.54	19.56	18.10	21.0	21.0	21.0	19.0
	25RB-Middle (12)	782.0	19.56	19.63	19.69	18.12				
	25RB-Low (0)	782.0	19.57	19.56	19.64	18.00				
	50RB (0)	782.0	19.60	19.60	19.65	18.11				

Ant.0 - LTE Band 14 Full Power, Power Level A1/B1/B2/C1/C2

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	16QAM	256QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up	256QAM Tune-up
5MHz	1RB-High (24)	795.5	23.13	22.48	21.33	18.26	24.0	23.0	22.0	19.0
		793.0	23.24	22.47	21.35	18.40				
		790.5	23.30	22.54	21.43	18.45				
	1RB-Middle (12)	795.5	23.21	22.49	21.42	18.33				
		793.0	23.35	22.60	21.51	18.53				
		790.5	23.28	22.57	21.43	18.43				
	1RB-Low (0)	795.5	23.30	22.57	21.40	18.46				
		793.0	23.27	22.45	21.39	18.41				
		790.5	23.26	22.51	21.40	18.39				
	12RB-High (13)	795.5	22.15	21.20	20.34	18.27	23.0	22.0	21.0	19.0
		793.0	22.24	21.26	20.36	18.39				
		790.5	22.25	21.24	20.37	18.40				
	12RB-Middle (6)	795.5	22.21	21.23	20.36	18.35				
		793.0	22.28	21.28	20.37	18.41				
		790.5	22.24	21.26	20.40	18.43				
	12RB-Low (0)	795.5	22.28	21.31	20.38	18.47				
		793.0	22.26	21.27	20.39	18.39				
		790.5	22.25	21.25	20.37	18.37				
	25RB (0)	795.5	22.26	21.23	20.30	18.42				
		793.0	22.28	21.28	20.31	18.46				
		790.5	22.28	21.26	20.32	18.45				
10MHz	1RB-High (49)	793.0	23.23	22.51	21.31	18.35	24.0	23.0	22.0	19.0
	1RB-Middle (24)	793.0	23.24	22.56	21.44	18.37				
	1RB-Low (0)	793.0	23.20	22.50	21.40	18.38				
	25RB-High (25)	793.0	22.20	21.18	20.25	18.34	23.0	22.0	21.0	19.0
	25RB-Middle (12)	793.0	22.22	21.25	20.32	18.39				
	25RB-Low (0)	793.0	22.17	21.27	20.33	18.29				
	50RB (0)	793.0	22.22	21.22	20.30	18.37				

Ant.6 - LTE Band 30 Full Power

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	16QAM	256QAM	QPSK Tune-up	16QAM Tune-up	16QAM Tune-up	256QAM Tune-up
5MHz	1RB-High (24)	2312.5	23.27	22.58	21.54	17.97	24.0	23.0	22.0	19.0
		2310.0	23.43	22.58	21.60	17.84				
		2307.5	23.50	22.65	21.60	17.70				
	1RB-Middle (12)	2312.5	23.44	22.64	21.61	17.94				
		2310.0	23.58	22.71	21.73	17.90				
		2307.5	23.39	22.66	21.53	17.94				
	1RB-Low (0)	2312.5	23.48	22.66	21.64	17.94				
		2310.0	23.38	22.59	21.55	18.03				
		2307.5	23.26	22.54	21.40	17.81				
	12RB-High (13)	2312.5	22.37	21.40	20.47	17.95	23.0	22.0	21.0	19.0
		2310.0	22.45	21.46	20.56	17.94				
		2307.5	22.47	21.48	20.53	17.77				
	12RB-Middle (6)	2312.5	22.39	21.44	20.50	17.98				
		2310.0	22.44	21.51	20.55	17.91				
		2307.5	22.36	21.37	20.43	17.83				
	12RB-Low (0)	2312.5	22.43	21.49	20.55	17.87				
		2310.0	22.43	21.43	20.53	17.90				
		2307.5	22.34	21.34	20.42	18.01				
	25RB (0)	2312.5	22.43	21.45	20.45	17.84				
		2310.0	22.49	21.45	20.50	17.93				
		2307.5	22.41	21.39	20.43	17.95				
10MHz	1RB-High (49)	2310.0	23.30	22.59	21.48	17.93	24.0	23.0	22.0	19.0
	1RB-Middle (24)	2310.0	23.49	22.76	21.58	18.05				
	1RB-Low (0)	2310.0	23.22	22.49	21.32	17.81				
	25RB-High (25)	2310.0	22.41	21.41	20.41	18.01	23.0	22.0	21.0	19.0
	25RB-Middle (12)	2310.0	22.40	21.40	20.43	18.03				
	25RB-Low (0)	2310.0	22.38	21.37	20.39	17.99				
	50RB (0)	2310.0	22.39	21.40	20.41	17.88				

Ant.6 - LTE Band 30 Power Level A1

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up	256QAM Tune-up
5MHz	1RB-High (24)	2312.5	17.80	18.30	17.92	17.96	19.0	19.0	19.0	19.0
		2310.0	17.86	18.37	17.83	17.86				
		2307.5	17.87	18.24	17.66	17.66				
	1RB-Middle (12)	2312.5	17.87	18.30	17.89	17.91				
		2310.0	17.92	18.28	17.90	17.93				
		2307.5	17.80	18.21	17.90	17.92				
	1RB-Low (0)	2312.5	17.90	18.19	17.91	17.90				
		2310.0	17.78	18.21	17.93	18.00				
		2307.5	17.67	18.10	17.77	17.78				
	12RB-High (13)	2312.5	17.85	17.87	17.90	17.93	19.0	19.0	19.0	19.0
		2310.0	17.90	17.95	17.90	17.96				
		2307.5	17.86	17.90	17.82	17.81				
	12RB-Middle (6)	2312.5	17.86	17.91	17.91	17.94				
		2310.0	17.92	17.97	17.88	17.90				
		2307.5	17.82	17.83	17.85	17.86				
	12RB-Low (0)	2312.5	17.92	17.93	17.88	17.88				
		2310.0	17.89	17.94	17.83	17.89				
		2307.5	17.81	17.81	18.02	18.04				
	25RB (0)	2312.5	17.92	17.88	17.76	17.82				
		2310.0	17.93	17.90	17.93	17.96				
		2307.5	17.86	17.82	17.96	17.96				
10MHz	1RB-High (49)	2310.0	17.87	18.34	17.92	17.91	19.0	19.0	19.0	19.0
	1RB-Middle (24)	2310.0	18.02	18.28	18.00	18.02				
	1RB-Low (0)	2310.0	17.80	18.17	17.81	17.85				
	25RB-High (25)	2310.0	17.92	17.88	17.92	17.97	19.0	19.0	19.0	19.0
	25RB-Middle (12)	2310.0	17.93	17.90	17.97	18.02				
	25RB-Low (0)	2310.0	17.91	17.87	17.93	17.98				
	50RB (0)	2310.0	17.92	17.89	17.87	17.89				

Ant.6 - LTE Band 30 Power Level B1/C1

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	16QAM	256QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up	256QAM Tune-up
5MHz	1RB-High (24)	2312.5	18.80	19.13	19.13	17.98	20.0	20.0	20.0	19.0
		2310.0	18.88	19.20	19.20	17.81				
		2307.5	18.90	19.34	19.34	17.69				
	1RB-Middle (12)	2312.5	18.85	19.32	19.32	17.91				
		2310.0	18.98	19.39	19.39	17.89				
		2307.5	18.83	19.19	19.19	17.91				
	1RB-Low (0)	2312.5	18.96	19.24	19.24	17.89				
		2310.0	18.83	19.14	19.14	17.91				
		2307.5	18.68	19.08	19.08	17.77				
	12RB-High (13)	2312.5	18.81	18.86	18.86	17.94	20.0	20.0	20.0	19.0
		2310.0	18.92	18.94	18.94	17.92				
		2307.5	18.87	18.91	18.91	17.82				
	12RB-Middle (6)	2312.5	18.91	18.93	18.93	17.87				
		2310.0	18.95	18.96	18.96	17.90				
		2307.5	18.84	18.86	18.86	17.84				
	12RB-Low (0)	2312.5	18.93	18.98	18.98	17.91				
		2310.0	18.90	18.92	18.92	17.82				
		2307.5	18.82	18.82	18.82	18.02				
	25RB (0)	2312.5	18.92	18.90	18.90	17.74	20.0	20.0	20.0	19.0
		2310.0	18.93	18.93	18.93	17.95				
		2307.5	18.87	18.84	18.84	18.00				
10MHz	1RB-High (49)	2310.0	18.88	19.09	19.09	17.90	20.0	20.0	20.0	19.0
	1RB-Middle (24)	2310.0	18.99	19.20	19.20	18.01				
	1RB-Low (0)	2310.0	18.79	19.10	19.10	17.78				
	25RB-High (25)	2310.0	18.92	18.86	18.86	17.90	20.0	20.0	20.0	19.0
	25RB-Middle (12)	2310.0	18.93	18.90	18.90	17.93				
	25RB-Low (0)	2310.0	18.86	18.84	18.84	17.95				
	50RB (0)	2310.0	18.91	18.91	18.91	17.89				

Ant.6 - LTE Band 30 Power Level B2

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	16QAM	256QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up	256QAM Tune-up
5MHz	1RB-High (24)	2312.5	14.43	14.27	14.27	14.11	15.0	15.0	15.0	15.0
		2310.0	14.51	14.27	14.27	14.22				
		2307.5	14.47	14.47	14.47	14.27				
	1RB-Middle (12)	2312.5	14.45	14.45	14.45	14.21				
		2310.0	14.55	14.51	14.51	14.30				
		2307.5	14.42	14.31	14.31	14.18				
	1RB-Low (0)	2312.5	14.58	14.32	14.32	14.45				
		2310.0	14.43	14.24	14.24	14.24				
		2307.5	14.31	14.17	14.17	14.03				
	12RB-High (13)	2312.5	14.38	14.04	14.04	14.11	15.0	15.0	15.0	15.0
		2310.0	14.51	14.06	14.06	14.06				
		2307.5	14.51	14.00	14.00	14.09				
	12RB-Middle (6)	2312.5	14.51	14.06	14.06	14.09				
		2310.0	14.56	14.09	14.09	14.17				
		2307.5	14.41	13.96	13.96	14.09				
	12RB-Low (0)	2312.5	14.55	14.10	14.10	14.13				
		2310.0	14.52	14.00	14.00	14.05				
		2307.5	14.45	14.08	14.08	14.10				
	25RB (0)	2312.5	14.56	14.03	14.03	14.03	15.0	15.0	15.0	15.0
		2310.0	14.50	14.04	14.04	14.10				
		2307.5	14.47	14.14	14.14	14.26				
10MHz	1RB-High (49)	2310.0	14.44	14.23	14.23	14.05	15.0	15.0	15.0	15.0
	1RB-Middle (24)	2310.0	14.46	14.29	14.29	14.30				
	1RB-Low (0)	2310.0	14.42	14.19	14.19	14.13				
	25RB-High (25)	2310.0	14.35	14.18	14.18	14.06	15.0	15.0	15.0	15.0
	25RB-Middle (12)	2310.0	14.36	14.24	14.24	14.27				
	25RB-Low (0)	2310.0	14.32	14.20	14.20	14.22				
	50RB (0)	2310.0	14.50	14.28	14.28	14.20				

Ant.6 - LTE Band 30 Power Level C2

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up	256QAM Tune-up
5MHz	1RB-High (24)	2312.5	17.43	17.25	17.12	17.15	18.0	18.0	18.0	18.0
		2310.0	17.48	17.25	17.25	17.22				
		2307.5	17.44	17.43	17.32	17.36				
	1RB-Middle (12)	2312.5	17.44	17.47	17.21	17.23				
		2310.0	17.52	17.54	17.32	17.33				
		2307.5	17.41	17.31	17.11	17.10				
	1RB-Low (0)	2312.5	17.58	17.35	17.39	17.43				
		2310.0	17.43	17.27	17.16	17.16				
		2307.5	17.31	17.14	17.10	17.12				
	12RB-High (13)	2312.5	17.37	17.02	17.02	16.98	18.0	18.0	18.0	18.0
		2310.0	17.50	17.05	17.05	17.08				
		2307.5	17.53	17.08	17.00	16.99				
		2312.5	17.50	17.03	17.01	17.00				
		2310.0	17.54	17.09	17.11	17.10				
		2307.5	17.37	17.20	17.02	17.01				
	12RB-Middle (6)	2312.5	17.51	17.08	17.12	17.14				
		2310.0	17.54	17.05	17.02	17.04				
		2307.5	17.41	17.06	17.03	17.04				
	12RB-Low (0)	2312.5	17.52	17.04	17.00	17.02				
		2310.0	17.49	17.07	17.07	17.07				
		2307.5	17.51	17.13	17.18	17.14				
10MHz	1RB-High (49)	2310.0	17.40	17.25	17.04	17.05	18.0	18.0	18.0	18.0
	1RB-Middle (24)	2310.0	17.48	17.30	17.21	17.21				
	1RB-Low (0)	2310.0	17.39	17.18	17.11	17.14				
	25RB-High (25)	2310.0	17.34	17.21	17.14	17.17	18.0	18.0	18.0	18.0
	25RB-Middle (12)	2310.0	17.41	17.21	17.22	17.20				
	25RB-Low (0)	2310.0	17.29	17.16	17.22	17.20				
	50RB (0)	2310.0	17.48	17.28	17.18	17.22				
		2310.0	17.48	17.28	17.18	17.22				

The device supports Inter-band and Intra-band uplink LTE Carrier Aggregation. The conducted power measurement results of Intra-band uplink CA are provided as follow.

Configure		Power Level	CA List	PCC						SCC						Power	
				LTE	BW	UL	Mod.	UL#	UL	LTE	BW	UL	Mod.	UL#	UL	With CA	Without CA
				Band	(MHz)	Freq.		RB	Offset	Band	(MHz)	Freq.		RB	Offset	Tx. Power (dBm)	Tx. Power (dBm)
						(MHz)						(MHz)					
Intra-Band	Contiguous	A1	CA_12B	Band 12	10M	704.0	QPSK	1	49	Band 12	5M	711.2	QPSK	1	0	22.88	22.95
		B1	CA_12B	Band 12	10M	704.0	QPSK	1	49	Band 12	5M	711.2	QPSK	1	0	22.88	22.95
		C1	CA_12B	Band 12	10M	704.0	QPSK	1	49	Band 12	5M	711.2	QPSK	1	0	22.88	22.95
		A1	CA_41C	Band 41 PC3	20M	2593.0	QPSK	1	0	Band 41 PC3	20M	2612.8	QPSK	1	99	16.92	16.98
		B1	CA_41C	Band 41 PC3	20M	2593.0	QPSK	1	0	Band 41 PC3	20M	2612.8	QPSK	1	99	18.74	18.82
		C1	CA_41C	Band 41 PC3	20M	2593.0	QPSK	1	0	Band 41 PC3	20M	2612.8	QPSK	1	99	18.74	18.82
		A1	CA_41B	Band 41 PC3	10M	2593.0	QPSK	1	0	Band 41 PC3	10M	2602.9	QPSK	1	99	16.88	16.92
		B1	CA_41B	Band 41 PC3	10M	2593.0	QPSK	1	0	Band 41 PC3	10M	2602.9	QPSK	1	99	18.81	18.88
		C1	CA_41B	Band 41 PC3	10M	2593.0	QPSK	1	0	Band 41 PC3	10M	2602.9	QPSK	1	99	18.81	18.88
		A1	CA_48C	Band 48	20M	3690.0	QPSK	1	0	Band 48	20M	3670.2	QPSK	1	99	19.59	19.66
		B1	CA_48C	Band 48	20M	3690.0	QPSK	1	0	Band 48	20M	3670.2	QPSK	1	99	18.54	18.62
		C1	CA_48C	Band 48	20M	3690.0	QPSK	1	0	Band 48	20M	3670.2	QPSK	1	99	19.59	19.66
		A1	CA_48B	Band 48	10M	3695.0	QPSK	1	0	Band 48	10M	3685.1	QPSK	1	99	19.60	19.69
		B1	CA_48B	Band 48	10M	3695.0	QPSK	1	0	Band 48	10M	3685.1	QPSK	1	99	18.21	18.28
		C1	CA_48B	Band 48	10M	3695.0	QPSK	1	0	Band 48	10M	3685.1	QPSK	1	99	19.60	19.69
		A1	CA_66C	Band 66	20M	1745.0	QPSK	1	0	Band 66	20M	1764.8	QPSK	1	99	18.35	18.41
		B1	CA_66C	Band 66	20M	1745.0	QPSK	1	0	Band 66	20M	1764.8	QPSK	1	99	20.33	20.37
		C1	CA_66C	Band 66	20M	1745.0	QPSK	1	0	Band 66	20M	1764.8	QPSK	1	99	21.30	21.41
		A1	CA_66B	Band 66	10M	1745.0	QPSK	1	0	Band 66	10M	1754.9	QPSK	1	0	18.42	18.47
		B1	CA_66B	Band 66	10M	1745.0	QPSK	1	0	Band 66	10M	1754.9	QPSK	1	0	20.39	20.44
		C1	CA_66B	Band 66	10M	1745.0	QPSK	1	0	Band 66	10M	1754.9	QPSK	1	0	21.34	21.42

10.4. FR1 NR Measurement result

According to April 2015 TCB workshop, SAR Test exclusion can be applied for testing overlapping LTE Bands as follows:

- a) The maximum out power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for SAR test exclusion.
- b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

NR n2 (1850-1910MHz) is covered by NR n25 (1850-1915MHz)

NR n38 (2570-2620MHz) is covered by NR n41 (2496-2690MHz)

NR n78 (3450-3550MHz) is covered by NR n77 Part 27Q (3450-3550MHz)

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/-2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specification in Table 6.2.3-1 of the 3GPP TS138.521-1.

Table 6.2.3-1: Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		0.5 ²		0 ²
	QPSK	≤ 1	0	
	16 QAM	≤ 2	≤ 1	
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3	≤ 1.5	
	16 QAM	≤ 3	≤ 2	
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		
NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.				
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE <i>powerBoostPi2BPSK</i> is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.				

Note: For this device, NR n41 and NR n77 support PC3 and PC2 mode with 100% duty cycle, so we choose high power PC2 mode to measure conducted power and SAR testing.

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01"

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signaling label	Requirements (subclause)	NR Band	Channel Bandwidth (MHz)	Resources Blocks (NRB)	A-MPR (dB)
NS_01		Table 5.3.2-1	5,10,15,20,25,30,40,50,60,80,90,100	Table 5.3.2-1	N/A

The conducted power value in NR band (TDD) need to be dynamically adjusted with the uplink duty cycle. The dynamic adjusted process is as below:

ANT4 - n41 PC2

n41 PC2 - Power Level A1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
26	1%-10%	25.5	-10	15.5
26	11%-20%	22.5	-7	15.5
26	21%-30%	20.5	-5.2	15.3
26	31%-40%	19.5	-4	15.5
26	41%-50%	18.5	-3	15.5
26	51%-60%	17.5	-2.2	15.3
26	61%-70%	17	-1.5	15.5
26	71%-80%	16.5	-1	15.5
26	81%-90%	16	-0.5	15.5
26	91%-100%	16	0	16

n41 PC2 - Power Level C1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
26	1%-10%	26	-10	16
26	11%-20%	24	-7	17
26	21%-30%	22	-5.2	16.8
26	31%-40%	21	-4	17
26	41%-50%	20	-3	17
26	51%-60%	19	-2.2	16.8
26	61%-70%	18.5	-1.5	17
26	71%-80%	18	-1	17
26	81%-90%	17.5	-0.5	17
26	91%-100%	17.5	0	17.5

n41 PC2 - Power Level B1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
26	1%-10%	26	-10	16
26	11%-20%	23	-7	16
26	21%-30%	21	-5.2	15.8
26	31%-40%	20	-4	16
26	41%-50%	19	-3	16
26	51%-60%	18	-2.2	15.8
26	61%-70%	17.5	-1.5	16
26	71%-80%	16.5	-1	15.5
26	81%-90%	17.5	-0.5	17
26	91%-100%	16.5	0	16.5

ANT2 - n48 PC3

n48 PC3 - Power Level A1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
23	1%-10%	23	-10	16.5
23	11%-20%	23	-7	16.5
23	21%-30%	21.5	-5.2	16.3
23	31%-40%	20.5	-4	16.5
23	41%-50%	19.5	-3	16.5
23	51%-60%	18.5	-2.2	16.3
23	61%-70%	18	-1.5	16.5
23	71%-80%	17.5	-1	16.5
23	81%-90%	17	-0.5	16.5
23	91%-100%	17	0	17

n48 PC3 - Power Level C1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
23	1%-10%	23	-10	18.5
23	11%-20%	23	-7	18.5
23	21%-30%	23	-5.2	18.3
23	31%-40%	22.5	-4	18.5
23	41%-50%	21.5	-3	18.5
23	51%-60%	20.5	-2.2	18.3
23	61%-70%	20	-1.5	18.5
23	71%-80%	19.5	-1	18.5
23	81%-90%	19	-0.5	18.5
23	91%-100%	19	0	19

n48 PC3 - Power Level B1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
23	1%-10%	23	-10	17.5
23	11%-20%	23	-7	17.5
23	21%-30%	22.5	-5.2	17.3
23	31%-40%	21.5	-4	17.5
23	41%-50%	20.5	-3	17.5
23	51%-60%	19.5	-2.2	17.3
23	61%-70%	19	-1.5	17.5
23	71%-80%	18.5	-1	17.5
23	81%-90%	18	-0.5	17.5
23	91%-100%	18	0	18

ANT2 - n77 PC2

n77 PC2 - Power Level A1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
26	1%-10%	26	-10	16
26	11%-20%	23.5	-7	16.5
26	21%-30%	21.5	-5.2	16.3
26	31%-40%	20.5	-4	16.5
26	41%-50%	19.5	-3	16.5
26	51%-60%	18.5	-2.2	16.3
26	61%-70%	18	-1.5	16.5
26	71%-80%	17.5	-1	16.5
26	81%-90%	17	-0.5	16.5
26	91%-100%	17	0	17

n77 PC2 - Power Level C1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
26	1%-10%	26	-10	16
26	11%-20%	25.5	-7	18.5
26	21%-30%	23.5	-5.2	18.3
26	31%-40%	22.5	-4	18.5
26	41%-50%	21.5	-3	18.5
26	51%-60%	20.5	-2.2	18.3
26	61%-70%	20	-1.5	18.5
26	71%-80%	19.5	-1	18.5
26	81%-90%	19	-0.5	18.5
26	91%-100%	19	0	19

n77 PC2 - Power Level B1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
26	1%-10%	26	-10	16
26	11%-20%	24.5	-7	17.5
26	21%-30%	22.5	-5.2	17.3
26	31%-40%	21.5	-4	17.5
26	41%-50%	20.5	-3	17.5
26	51%-60%	19.5	-2.2	17.3
26	61%-70%	19	-1.5	17.5
26	71%-80%	18.5	-1	17.5
26	81%-90%	18	-0.5	17.5
26	91%-100%	18	0	18

ANT2 - n78 PC3

n78 PC3 - Power Level A1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
23	1%-10%	23	-10	13
23	11%-20%	23.5	-7	16.5
23	21%-30%	21.5	-5.2	16.3
23	31%-40%	20.5	-4	16.5
23	41%-50%	19.5	-3	16.5
23	51%-60%	18.5	-2.2	16.3
23	61%-70%	18	-1.5	16.5
23	71%-80%	17.5	-1	16.5
23	81%-90%	17	-0.5	16.5
23	91%-100%	17	0	17

n78 PC3 - Power Level C1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
23	1%-10%	23	-10	13
23	11%-20%	23	-7	16
23	21%-30%	23	-5.2	17.8
23	31%-40%	22.5	-4	18.5
23	41%-50%	21.5	-3	18.5
23	51%-60%	20.5	-2.2	18.3
23	61%-70%	20	-1.5	18.5
23	71%-80%	19.5	-1	18.5
23	81%-90%	19	-0.5	18.5
23	91%-100%	19	0	19

n78 PC3 - Power Level B1				
Maxpower	Duty cycle	TX power	Calculation - 10*log (Duty cycle)	Time Average Power (dBm)
23	1%-10%	23	-10	13
23	11%-20%	23	-7	16
23	21%-30%	22.5	-5.2	17.3
23	31%-40%	21.5	-4	17.5
23	41%-50%	20.5	-3	17.5
23	51%-60%	19.5	-2.2	17.3
23	61%-70%	19	-1.5	17.5
23	71%-80%	18.5	-1	17.5
23	81%-90%	18	-0.5	17.5
23	91%-100%	18	0	18

Table 10.4: The conducted Power measurement results for NR
Ant.2 - NR n2 Full Power (Tune-up: 24.0)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	22.73
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	22.72
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	22.77
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	22.62
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	22.87
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	22.35
15	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1880.0	376000	22.58
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	21.62
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	20.14
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	18.13
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	21.07
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	20.53
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	19.02
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	16.06
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	21.72
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	21.38
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	22.62
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	22.33
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	21.61
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	22.72
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	22.80

Ant.2 - NR n2 Power Level A2 (Tune-up: 17.0)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	15.89
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	15.81
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	15.89
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	15.91
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	15.93
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	15.88
15	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1880.0	376000	15.90
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	15.91
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	15.85
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	15.87
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	15.89
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	15.80
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	15.86
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	15.91
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	15.83
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	15.91
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	15.84
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	15.85
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	15.79
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	15.81
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	15.83

Ant.2 - NR n2 Power Level B2 (Tune-up: 21.0)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	19.85
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	19.87
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	19.81
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	19.83
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	19.88
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	19.79
15	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1880.0	376000	19.79
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	19.81
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	19.78
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	18.15
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	19.76
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	19.87
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	19.11
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	16.09
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	19.81
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	19.84
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	19.85
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	19.84
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	19.79
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	19.78
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	19.74

Ant.2 - NR n2 Power Level C2 (Tune-up: 22.0)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	21.03
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	21.07
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	21.00
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	21.04
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	21.11
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	21.07
15	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1880.0	376000	21.02
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	20.57
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	20.12
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	18.18
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	21.10
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	20.44
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	19.11
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	16.18
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	20.70
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	20.82
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	21.02
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	20.99
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	21.04
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	21.07
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	20.98

Ant.1 - NR n2 Full Power, Power Level A2 (Tune-up: 24.0)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	22.73
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	22.72
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	22.77
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	22.62
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	22.87
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	22.35
15	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1880.0	376000	22.58
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	21.62
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	20.14
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	18.13
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	21.07
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	20.53
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	19.02
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	16.06
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	21.72
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	21.38
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	22.62
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	22.33
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	21.61
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	22.72
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	22.80

Ant.1 - NR n2 Power Level B2 (Tune-up: 20.0)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	18.73
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	18.72
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	18.77
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	18.80
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	18.91
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	18.42
15	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1880.0	376000	18.58
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	18.66
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	18.54
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	18.10
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	18.55
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	18.53
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	18.55
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	16.08
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	18.77
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	18.80
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	18.72
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	18.83
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	18.64
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	18.78
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	18.84

Ant.1 - NR n2 Power Level C2 (Tune-up: 22.0)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	20.91
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	20.89
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	20.98
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	20.94
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	21.02
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	20.59
15	50	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	1880.0	376000	20.95
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	20.99
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	20.06
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	18.11
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	20.99
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	20.59
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	18.99
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	16.03
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	20.98
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	20.91
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	20.98
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	20.92
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	20.93
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	20.94
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	20.98

Ant.0 - NR n5 Full Power, Power Level B1/B2/C1/C2 (Tune-up: 24.0)

NR n5							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	22.90
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	22.78
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	22.80
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839.0	167800	22.89
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	22.92
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834.0	166800	22.88
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	836.5	167300	22.88
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	836.5	167300	21.90
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	836.5	167300	20.45
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	836.5	167300	18.49
15	20	CP-OFDM QPSK	Inner_Full	50@25	836.5	167300	21.39
15	20	CP-OFDM 16QAM	Inner_Full	50@25	836.5	167300	20.83
15	20	CP-OFDM 64QAM	Inner_Full	50@25	836.5	167300	19.36
15	20	CP-OFDM 256QAM	Inner_Full	50@25	836.5	167300	16.36
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	836.5	167300	21.95
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	167300	21.88
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	836.5	167300	22.88
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	22.83
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	836.5	167300	21.90
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	836.5	167300	22.90
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	836.5	167300	22.78

Ant.0 - NR n5 Power Level A1 (Tune-up: 23.0)

NR n5							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	21.79
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	21.74
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	21.77
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839.0	167800	21.77
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	21.88
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834.0	166800	21.81
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	836.5	167300	21.87
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	836.5	167300	21.77
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	836.5	167300	20.44
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	836.5	167300	18.55
15	20	CP-OFDM QPSK	Inner_Full	50@25	836.5	167300	21.47
15	20	CP-OFDM 16QAM	Inner_Full	50@25	836.5	167300	20.81
15	20	CP-OFDM 64QAM	Inner_Full	50@25	836.5	167300	19.34
15	20	CP-OFDM 256QAM	Inner_Full	50@25	836.5	167300	16.41
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	836.5	167300	21.87
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	167300	21.81
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	836.5	167300	21.75
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	21.86
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	836.5	167300	21.79
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	836.5	167300	21.83
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	836.5	167300	21.77

Ant.0 - NR n5 Power Level A2 (Tune-up: 21.0)

NR n5							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	19.71
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	19.74
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	19.77
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839.0	167800	19.76
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	19.83
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834.0	166800	19.80
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	836.5	167300	19.71
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	836.5	167300	19.68
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	836.5	167300	19.75
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	836.5	167300	18.55
15	20	CP-OFDM QPSK	Inner_Full	50@25	836.5	167300	19.78
15	20	CP-OFDM 16QAM	Inner_Full	50@25	836.5	167300	19.68
15	20	CP-OFDM 64QAM	Inner_Full	50@25	836.5	167300	19.42
15	20	CP-OFDM 256QAM	Inner_Full	50@25	836.5	167300	16.41
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	836.5	167300	19.75
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	167300	19.70
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	836.5	167300	19.74
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	19.74
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	836.5	167300	19.73
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	836.5	167300	19.68
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	836.5	167300	19.68

Ant.2 - NR n25 Full Power (Tune-up: 24.0)

NR n25							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	382500	22.70
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	22.78
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	22.70
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1892.5	378500	22.78
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1882.5	376500	22.81
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1872.5	374500	22.66
15	45	DFT-s-OFDM PI/2 BPSK	Inner_Full	120@60	1882.5	376500	22.76
15	45	DFT-s-OFDM 16QAM	Inner_Full	120@60	1882.5	376500	21.77
15	45	DFT-s-OFDM 64QAM	Inner_Full	120@60	1882.5	376500	20.34
15	45	DFT-s-OFDM 256QAM	Inner_Full	120@60	1882.5	376500	19.76
15	45	CP-OFDM QPSK	Inner_Full	121@60	1882.5	376500	21.23
15	45	CP-OFDM 16QAM	Inner_Full	121@60	1882.5	376500	20.76
15	45	CP-OFDM 64QAM	Inner_Full	121@60	1882.5	376500	19.19
15	45	CP-OFDM 256QAM	Inner_Full	121@60	1882.5	376500	17.71
15	45	DFT-s-OFDM QPSK	Edge_Full_Right	2@240	1882.5	376500	21.97
15	45	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1882.5	376500	21.38
15	45	DFT-s-OFDM QPSK	Inner_1RB_Right	1@240	1882.5	376500	22.76
15	45	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1882.5	376500	22.26
15	45	DFT-s-OFDM QPSK	Outer_Full	240@0	1882.5	376500	21.74
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1882.5	376500	22.69
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1882.5	376500	22.80
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	22.66
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1882.5	376500	22.74
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1882.5	376500	22.78
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1882.5	376500	22.75
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1882.5	376500	22.66

Ant.2 - NR n25 Power Level A1 (Tune-up: 19.0)

NR n25							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	382500	17.81
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	17.74
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	17.80
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1892.5	378500	17.84
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1882.5	376500	17.88
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1872.5	374500	17.69
15	45	DFT-s-OFDM PI/2 BPSK	Inner_Full	120@60	1882.5	376500	17.79
15	45	DFT-s-OFDM 16QAM	Inner_Full	120@60	1882.5	376500	17.86
15	45	DFT-s-OFDM 64QAM	Inner_Full	120@60	1882.5	376500	17.76
15	45	DFT-s-OFDM 256QAM	Inner_Full	120@60	1882.5	376500	17.86
15	45	CP-OFDM QPSK	Inner_Full	121@60	1882.5	376500	17.87
15	45	CP-OFDM 16QAM	Inner_Full	121@60	1882.5	376500	17.78
15	45	CP-OFDM 64QAM	Inner_Full	121@60	1882.5	376500	17.82
15	45	CP-OFDM 256QAM	Inner_Full	121@60	1882.5	376500	17.67
15	45	DFT-s-OFDM QPSK	Edge_Full_Right	2@240	1882.5	376500	17.85
15	45	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1882.5	376500	17.76
15	45	DFT-s-OFDM QPSK	Inner_1RB_Right	1@240	1882.5	376500	17.75
15	45	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1882.5	376500	17.87
15	45	DFT-s-OFDM QPSK	Outer_Full	240@0	1882.5	376500	17.74
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1882.5	376500	17.77
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1882.5	376500	17.85
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	17.80
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1882.5	376500	17.81
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1882.5	376500	17.83
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1882.5	376500	17.82
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1882.5	376500	17.77

Ant.2 - NR n25 Power Level B1 (Tune-up: 22.0)

NR n25							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	382500	20.78
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	20.83
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	20.73
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1892.5	378500	20.84
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1882.5	376500	20.85
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1872.5	374500	20.71
15	45	DFT-s-OFDM PI/2 BPSK	Inner_Full	120@60	1882.5	376500	20.84
15	45	DFT-s-OFDM 16QAM	Inner_Full	120@60	1882.5	376500	20.81
15	45	DFT-s-OFDM 64QAM	Inner_Full	120@60	1882.5	376500	20.18
15	45	DFT-s-OFDM 256QAM	Inner_Full	120@60	1882.5	376500	18.07
15	45	CP-OFDM QPSK	Inner_Full	121@60	1882.5	376500	20.83
15	45	CP-OFDM 16QAM	Inner_Full	121@60	1882.5	376500	20.44
15	45	CP-OFDM 64QAM	Inner_Full	121@60	1882.5	376500	18.94
15	45	CP-OFDM 256QAM	Inner_Full	121@60	1882.5	376500	17.70
15	45	DFT-s-OFDM QPSK	Edge_Full_Right	2@240	1882.5	376500	20.73
15	45	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1882.5	376500	20.80
15	45	DFT-s-OFDM QPSK	Inner_1RB_Right	1@240	1882.5	376500	20.74
15	45	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1882.5	376500	20.77
15	45	DFT-s-OFDM QPSK	Outer_Full	240@0	1882.5	376500	20.76
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1882.5	376500	20.84
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1882.5	376500	20.78
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	20.84
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1882.5	376500	20.71
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1882.5	376500	20.76
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1882.5	376500	20.78
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1882.5	376500	20.76

Ant.2 - NR n25 Power Level C1 (Tune-up: 23.0)

NR n25							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	382500	21.81
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1882.5	376500	21.78
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	21.84
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1892.5	378500	21.83
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1882.5	376500	22.12
15	45	DFT-s-OFDM QPSK	Inner_Full	120@60	1872.5	374500	21.80
15	45	DFT-s-OFDM PI/2 BPSK	Inner_Full	120@60	1882.5	376500	21.87
15	45	DFT-s-OFDM 16QAM	Inner_Full	120@60	1882.5	376500	21.64
15	45	DFT-s-OFDM 64QAM	Inner_Full	120@60	1882.5	376500	20.13
15	45	DFT-s-OFDM 256QAM	Inner_Full	120@60	1882.5	376500	18.05
15	45	CP-OFDM QPSK	Inner_Full	121@60	1882.5	376500	21.04
15	45	CP-OFDM 16QAM	Inner_Full	121@60	1882.5	376500	20.51
15	45	CP-OFDM 64QAM	Inner_Full	121@60	1882.5	376500	18.94
15	45	CP-OFDM 256QAM	Inner_Full	121@60	1882.5	376500	17.75
15	45	DFT-s-OFDM QPSK	Edge_Full_Right	2@240	1882.5	376500	21.76
15	45	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1882.5	376500	21.46
15	45	DFT-s-OFDM QPSK	Inner_1RB_Right	1@240	1882.5	376500	21.78
15	45	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1882.5	376500	21.88
15	45	DFT-s-OFDM QPSK	Outer_Full	240@0	1882.5	376500	21.80
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1882.5	376500	21.84
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1882.5	376500	21.84
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1882.5	376500	21.79
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1882.5	376500	21.89
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1882.5	376500	21.87
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1882.5	376500	21.84
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1882.5	376500	21.83

Ant.6 - NR n30 Full Power (Tune-up: 24.0)

NR n30							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2312.5	462500	23.14
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2310.0	462000	23.11
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2307.5	461500	23.20
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2310.0	462000	23.26
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	2310.0	462000	23.24
15	10	DFT-s-OFDM 16QAM	Inner_Full	25@12	2310.0	462000	22.27
15	10	DFT-s-OFDM 64QAM	Inner_Full	25@12	2310.0	462000	20.83
15	10	DFT-s-OFDM 256QAM	Inner_Full	25@12	2310.0	462000	18.93
15	10	CP-OFDM QPSK	Inner_Full	26@13	2310.0	462000	21.76
15	10	CP-OFDM 16QAM	Inner_Full	26@13	2310.0	462000	21.43
15	10	CP-OFDM 64QAM	Inner_Full	26@13	2310.0	462000	19.82
15	10	CP-OFDM 256QAM	Inner_Full	26@13	2310.0	462000	16.83
15	10	DFT-s-OFDM QPSK	Edge_Full_Right	2@50	2310.0	462000	22.38
15	10	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2310.0	462000	22.30
15	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1@50	2310.0	462000	23.19
15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2310.0	462000	23.14
15	10	DFT-s-OFDM QPSK	Outer_Full	50@0	2310.0	462000	22.31

Ant.6 - NR n30 Power Level A1 (Tune-up: 18.5)

NR n30							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2312.5	462500	17.70
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2310.0	462000	17.64
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2307.5	461500	17.73
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2310.0	462000	17.79
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	2310.0	462000	17.70
15	10	DFT-s-OFDM 16QAM	Inner_Full	25@12	2310.0	462000	17.76
15	10	DFT-s-OFDM 64QAM	Inner_Full	25@12	2310.0	462000	17.64
15	10	DFT-s-OFDM 256QAM	Inner_Full	25@12	2310.0	462000	17.70
15	10	CP-OFDM QPSK	Inner_Full	26@13	2310.0	462000	17.76
15	10	CP-OFDM 16QAM	Inner_Full	26@13	2310.0	462000	17.68
15	10	CP-OFDM 64QAM	Inner_Full	26@13	2310.0	462000	17.72
15	10	CP-OFDM 256QAM	Inner_Full	26@13	2310.0	462000	16.84
15	10	DFT-s-OFDM QPSK	Edge_Full_Right	2@50	2310.0	462000	17.73
15	10	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2310.0	462000	17.78
15	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1@50	2310.0	462000	17.64
15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2310.0	462000	17.76
15	10	DFT-s-OFDM QPSK	Outer_Full	50@0	2310.0	462000	17.64

Ant.6 - NR n30 Power Level B1/C1 (Tune-up: 19.5)

NR n30							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2312.5	462500	18.79
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2310.0	462000	18.75
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2307.5	461500	18.72
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2310.0	462000	18.82
15	10	DFT-s-OFDM PI/2 BPSK	Inner_Full	25@12	2310.0	462000	18.73
15	10	DFT-s-OFDM 16QAM	Inner_Full	25@12	2310.0	462000	18.77
15	10	DFT-s-OFDM 64QAM	Inner_Full	25@12	2310.0	462000	18.81
15	10	DFT-s-OFDM 256QAM	Inner_Full	25@12	2310.0	462000	18.74
15	10	CP-OFDM QPSK	Inner_Full	26@13	2310.0	462000	18.81
15	10	CP-OFDM 16QAM	Inner_Full	26@13	2310.0	462000	18.76
15	10	CP-OFDM 64QAM	Inner_Full	26@13	2310.0	462000	18.74
15	10	CP-OFDM 256QAM	Inner_Full	26@13	2310.0	462000	16.86
15	10	DFT-s-OFDM QPSK	Edge_Full_Right	2@50	2310.0	462000	18.73
15	10	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2310.0	462000	18.78
15	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1@50	2310.0	462000	18.69
15	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2310.0	462000	18.71
15	10	DFT-s-OFDM QPSK	Outer_Full	50@0	2310.0	462000	18.73

Ant.4 - NR n41 PC2 Full Power (Tune-up: 27.0)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	26.07
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	26.02
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	26.00
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	26.02
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	26.08
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	25.63
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	2592.99	518598	26.01
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	24.99
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	23.37
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	21.40
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	24.51
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	24.09
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	22.35
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	19.36
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	22.60
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	21.94
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	26.02
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	25.54
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	24.97
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	26.01
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	26.02
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2592.99	518598	25.97
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	25.97
30	35	DFT-s-OFDM QPSK	Inner_Full	45@22	2592.99	518598	25.93
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	25.93
30	45	DFT-s-OFDM QPSK	Inner_Full	54@271	2592.99	518598	26.00
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	26.00
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	26.01
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	2592.99	518598	26.06
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	26.04
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	25.93

Ant.4 - NR n41 PC2 Power Level A1/A2 (Tune-up: 17.0)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	15.95
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	15.98
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	15.93
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	15.95
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	16.02
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	15.68
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	2592.99	518598	15.97
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	15.96
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	15.92
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	15.98
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	15.98
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	15.96
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	15.90
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	15.93
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	15.97
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	15.92
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	16.00
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	15.87
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	15.91
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	15.93
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	15.87
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2592.99	518598	15.94
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	15.97
30	35	DFT-s-OFDM QPSK	Inner_Full	45@22	2592.99	518598	15.96
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	15.98
30	45	DFT-s-OFDM QPSK	Inner_Full	54@271	2592.99	518598	15.88
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	15.99
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	15.97
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	2592.99	518598	16.00
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	15.97
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	15.93

Ant.4 - NR n41 PC2 Power Level B1/B2 (Tune-up: 17.5)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	16.48
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	16.52
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	16.46
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	16.52
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	16.57
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	16.49
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	2592.99	518598	16.45
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	16.52
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	16.46
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	16.46
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	16.55
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	16.45
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	16.55
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	16.45
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	16.53
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	16.55
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	16.48
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	16.44
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	16.56
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	16.43
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	16.53
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2592.99	518598	16.42
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	16.43
30	35	DFT-s-OFDM QPSK	Inner_Full	45@22	2592.99	518598	16.54
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	16.48
30	45	DFT-s-OFDM QPSK	Inner_Full	54@271	2592.99	518598	16.50
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	16.53
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	16.44
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	2592.99	518598	16.52
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	16.44
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	16.49

Ant.4 - NR n41 PC2 Power Level C1/C2 (Tune-up: 18.5)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	17.55
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	17.61
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	17.51
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	17.58
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	17.62
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	17.50
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	2592.99	518598	17.53
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	17.55
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	17.58
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	17.50
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	17.56
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	17.58
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	17.54
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	17.55
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	17.53
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	17.52
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	17.58
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	17.47
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	17.50
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	17.54
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	17.58
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2592.99	518598	17.60
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	17.53
30	35	DFT-s-OFDM QPSK	Inner_Full	45@22	2592.99	518598	17.47
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	17.54
30	45	DFT-s-OFDM QPSK	Inner_Full	54@271	2592.99	518598	17.51
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	17.57
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	17.58
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	2592.99	518598	17.49
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	17.49
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	17.48

Ant.2 - NR n48 Full Power (Tune-up: 24.5)

NR n48							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3694.98	646332	23.41
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3624.99	641666	23.53
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3555.00	637000	23.52
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3649.98	643332	23.36
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3624.99	641666	23.55
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3600.00	640000	23.39
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	3624.99	641666	23.42
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3624.99	641666	22.37
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3624.99	641666	20.87
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3624.99	641666	18.88
30	100	CP-OFDM QPSK	Inner_Full	137@68	3624.99	641666	21.82
30	100	CP-OFDM 16QAM	Inner_Full	137@68	3624.99	641666	21.35
30	100	CP-OFDM 64QAM	Inner_Full	137@68	3624.99	641666	19.82
30	100	CP-OFDM 256QAM	Inner_Full	137@68	3624.99	641666	16.94
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3624.99	641666	22.69
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3624.99	641666	22.46
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3624.99	641666	23.51
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3624.99	641666	23.42
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3624.99	641666	22.47
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3624.99	641666	23.51
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3624.99	641666	23.52
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3624.99	641666	23.50
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3624.99	641666	23.40
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3624.99	641666	23.42
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3624.99	641666	23.46
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3624.99	641666	23.44
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3624.99	641666	23.52
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3624.99	641666	23.40

Ant.2 - NR n48 Power Level A1 (Tune-up: 18.0)

NR n48							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3694.98	646332	17.56
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3624.99	641666	17.52
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3555.00	637000	17.47
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3649.98	643332	17.42
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3624.99	641666	17.57
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3600.00	640000	17.46
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	3624.99	641666	17.44
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3624.99	641666	17.43
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3624.99	641666	17.43
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3624.99	641666	17.49
30	100	CP-OFDM QPSK	Inner_Full	137@68	3624.99	641666	17.46
30	100	CP-OFDM 16QAM	Inner_Full	137@68	3624.99	641666	17.56
30	100	CP-OFDM 64QAM	Inner_Full	137@68	3624.99	641666	17.47
30	100	CP-OFDM 256QAM	Inner_Full	137@68	3624.99	641666	16.96
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3624.99	641666	17.49
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3624.99	641666	17.45
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3624.99	641666	17.56
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3624.99	641666	17.45
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3624.99	641666	17.48
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3624.99	641666	17.52
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3624.99	641666	17.53
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3624.99	641666	17.51
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3624.99	641666	17.42
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3624.99	641666	17.56
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3624.99	641666	17.50
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3624.99	641666	17.55
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3624.99	641666	17.44
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3624.99	641666	17.43

Ant.2 - NR n48 Power Level B1 (Tune-up: 19.0)

NR n48							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3694.98	646332	18.39
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3624.99	641666	18.46
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3555.00	637000	18.39
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3649.98	643332	18.48
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3624.99	641666	18.52
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3600.00	640000	18.42
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	3624.99	641666	18.38
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3624.99	641666	18.46
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3624.99	641666	18.50
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3624.99	641666	18.45
30	100	CP-OFDM QPSK	Inner_Full	137@68	3624.99	641666	18.43
30	100	CP-OFDM 16QAM	Inner_Full	137@68	3624.99	641666	18.45
30	100	CP-OFDM 64QAM	Inner_Full	137@68	3624.99	641666	18.41
30	100	CP-OFDM 256QAM	Inner_Full	137@68	3624.99	641666	16.91
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3624.99	641666	18.42
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3624.99	641666	18.43
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3624.99	641666	18.39
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3624.99	641666	18.51
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3624.99	641666	18.47
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3624.99	641666	18.44
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3624.99	641666	18.49
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3624.99	641666	18.41
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3624.99	641666	18.43
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3624.99	641666	18.42
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3624.99	641666	18.50
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3624.99	641666	18.40
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3624.99	641666	18.39
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3624.99	641666	18.40

Ant.2 - NR n48 Power Level C1 (Tune-up: 20.0)

NR n48							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3694.98	646332	19.51
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3624.99	641666	19.52
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3555.00	637000	19.55
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3649.98	643332	19.50
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3624.99	641666	19.59
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3600.00	640000	19.48
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	3624.99	641666	19.48
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3624.99	641666	19.58
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3624.99	641666	19.48
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3624.99	641666	18.96
30	100	CP-OFDM QPSK	Inner_Full	137@68	3624.99	641666	19.45
30	100	CP-OFDM 16QAM	Inner_Full	137@68	3624.99	641666	19.57
30	100	CP-OFDM 64QAM	Inner_Full	137@68	3624.99	641666	19.55
30	100	CP-OFDM 256QAM	Inner_Full	137@68	3624.99	641666	16.92
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3624.99	641666	19.48
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3624.99	641666	19.58
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3624.99	641666	19.52
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3624.99	641666	19.46
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3624.99	641666	19.46
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3624.99	641666	19.52
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3624.99	641666	19.53
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3624.99	641666	19.56
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3624.99	641666	19.54
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3624.99	641666	19.55
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3624.99	641666	19.56
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3624.99	641666	19.47
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3624.99	641666	19.54
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3624.99	641666	19.49

Ant.2 - NR n66 Full Power (Tune-up: 24.0)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	23.29
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	23.16
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	23.17
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	23.23
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	23.31
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	23.30
15	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	1745.0	349000	23.28
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	22.30
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.88
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.83
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	21.78
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	21.26
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	19.77
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	16.75
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	22.20
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	22.26
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	23.12
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	23.17
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	22.28
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	23.28
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	23.18
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	23.28
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1745.0	349000	23.25
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	23.17
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1745.0	349000	23.29

Ant.2 - NR n66 Power Level A1 (Tune-up: 20.0)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	19.05
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	19.12
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	19.08
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	19.11
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	19.19
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	19.15
15	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	1745.0	349000	19.04
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	19.10
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	19.11
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.87
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	19.15
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	19.17
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	19.16
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	16.70
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	19.13
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	19.10
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	19.16
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	19.16
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	19.10
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	19.18
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	19.10
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	19.08
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1745.0	349000	19.12
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	19.10
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1745.0	349000	19.14

Ant.2 - NR n66 Power Level A2 (Tune-up: 18.0)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	17.10
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	17.17
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	17.13
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	17.16
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	17.21
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	17.19
15	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	1745.0	349000	17.18
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	17.07
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	17.20
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	17.11
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	17.06
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	17.06
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	17.19
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	16.67
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	17.10
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	17.11
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	17.16
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	17.16
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	17.15
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	17.08
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	17.12
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	17.13
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1745.0	349000	17.16
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	17.14
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1745.0	349000	17.14

Ant.2 - NR n66 Power Level B1 (Tune-up: 22.0)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	21.25
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	21.24
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	21.33
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	21.25
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	21.34
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	21.31
15	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	1745.0	349000	21.20
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	21.24
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.87
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.91
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	21.21
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	21.19
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	19.69
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	16.68
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	21.32
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	21.28
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	21.22
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	21.27
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	21.28
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	21.29
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	21.24
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	21.20
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1745.0	349000	21.21
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	21.32
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1745.0	349000	21.23

Ant.2 - NR n66 Power Level C1 (Tune-up: 23.0)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	22.13
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	22.23
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	22.21
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	22.20
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	22.28
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	22.24
15	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	1745.0	349000	22.16
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	22.21
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.84
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.86
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	21.82
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	21.33
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	19.75
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	16.69
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	22.13
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	22.21
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	22.22
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	22.26
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	22.24
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	22.24
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	22.27
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	22.24
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1745.0	349000	22.22
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	22.21
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1745.0	349000	22.23

Ant.1 - NR n66 Full Power, Power Level A2 (Tune-up: 24.0)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	22.17
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	22.19
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	22.22
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	22.18
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	22.27
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	21.91
15	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	1745.0	349000	22.23
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	21.27
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	19.78
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	17.73
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	20.69
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	20.17
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	18.68
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	15.61
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	21.26
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	20.64
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	22.17
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	21.54
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	21.13
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	22.19
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	22.22
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	22.25
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1745.0	349000	22.23
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	22.20
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1745.0	349000	22.24

Ant.1 - NR n66 Power Level B2 (Tune-up: 20.0)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	18.14
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	18.15
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	18.07
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	18.36
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	18.48
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	18.42
15	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	1745.0	349000	18.03
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	18.07
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	18.11
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	17.81
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	18.04
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	18.17
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	18.08
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	15.57
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	18.06
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	18.05
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	18.05
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	18.04
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	18.16
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	18.03
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	18.17
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	18.14
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1745.0	349000	18.12
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	18.13
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1745.0	349000	18.08

Ant.1 - NR n66 Power Level C2 (Tune-up: 22.0)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	20.28
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	20.21
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	20.20
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	20.22
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	20.29
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	20.14
15	40	DFT-s-OFDM PI/2 BPSK	Inner_Full	108@54	1745.0	349000	20.21
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	20.28
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	19.78
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	17.80
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	20.17
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	20.19
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	18.59
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	15.68
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	20.24
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	20.22
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	20.26
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	20.21
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	20.23
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	20.24
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	20.20
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	20.26
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	1745.0	349000	20.19
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	20.21
15	35	DFT-s-OFDM QPSK	Inner_Full	90@45	1745.0	349000	20.19

Ant.2 - NR n70 Full Power (Tune-up: 23.5)

NR n70							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1707.5	341500	22.43
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1702.5	340500	22.47
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1697.5	339500	22.46
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1702.5	340500	22.51
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1702.5	340500	22.49
15	15	DFT-s-OFDM 16QAM	Inner_Full	36@18	1702.5	340500	21.47
15	15	DFT-s-OFDM 64QAM	Inner_Full	36@18	1702.5	340500	20.02
15	15	DFT-s-OFDM 256QAM	Inner_Full	36@18	1702.5	340500	18.01
15	15	CP-OFDM QPSK	Inner_Full	39@19	1702.5	340500	20.98
15	15	CP-OFDM 16QAM	Inner_Full	39@19	1702.5	340500	20.50
15	15	CP-OFDM 64QAM	Inner_Full	39@19	1702.5	340500	18.91
15	15	CP-OFDM 256QAM	Inner_Full	39@19	1702.5	340500	16.09
15	15	DFT-s-OFDM QPSK	Edge_Full_Right	2@77	1702.5	340500	21.61
15	15	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1702.5	340500	21.50
15	15	DFT-s-OFDM QPSK	Inner_1RB_Right	1@77	1702.5	340500	22.48
15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1702.5	340500	22.38
15	15	DFT-s-OFDM QPSK	Outer_Full	75@0	1702.5	340500	21.48
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1702.5	340500	22.49

Ant.2 - NR n70 Power Level A1 (Tune-up: 20.0)

NR n70							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1707.5	341500	18.95
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1702.5	340500	18.91
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1697.5	339500	19.04
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1702.5	340500	19.06
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1702.5	340500	19.03
15	15	DFT-s-OFDM 16QAM	Inner_Full	36@18	1702.5	340500	18.92
15	15	DFT-s-OFDM 64QAM	Inner_Full	36@18	1702.5	340500	19.01
15	15	DFT-s-OFDM 256QAM	Inner_Full	36@18	1702.5	340500	17.99
15	15	CP-OFDM QPSK	Inner_Full	39@19	1702.5	340500	19.00
15	15	CP-OFDM 16QAM	Inner_Full	39@19	1702.5	340500	18.99
15	15	CP-OFDM 64QAM	Inner_Full	39@19	1702.5	340500	18.82
15	15	CP-OFDM 256QAM	Inner_Full	39@19	1702.5	340500	16.03
15	15	DFT-s-OFDM QPSK	Edge_Full_Right	2@77	1702.5	340500	19.01
15	15	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1702.5	340500	18.98
15	15	DFT-s-OFDM QPSK	Inner_1RB_Right	1@77	1702.5	340500	18.92
15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1702.5	340500	18.92
15	15	DFT-s-OFDM QPSK	Outer_Full	75@0	1702.5	340500	19.05
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1702.5	340500	19.04

Ant.2 - NR n70 Power Level B1 (Tune-up: 22.0)

NR n70							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1707.5	341500	20.92
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1702.5	340500	20.91
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1697.5	339500	20.99
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1702.5	340500	21.02
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1702.5	340500	20.98
15	15	DFT-s-OFDM 16QAM	Inner_Full	36@18	1702.5	340500	20.95
15	15	DFT-s-OFDM 64QAM	Inner_Full	36@18	1702.5	340500	20.04
15	15	DFT-s-OFDM 256QAM	Inner_Full	36@18	1702.5	340500	17.94
15	15	CP-OFDM QPSK	Inner_Full	39@19	1702.5	340500	21.00
15	15	CP-OFDM 16QAM	Inner_Full	39@19	1702.5	340500	20.45
15	15	CP-OFDM 64QAM	Inner_Full	39@19	1702.5	340500	18.86
15	15	CP-OFDM 256QAM	Inner_Full	39@19	1702.5	340500	16.07
15	15	DFT-s-OFDM QPSK	Edge_Full_Right	2@77	1702.5	340500	20.88
15	15	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1702.5	340500	20.94
15	15	DFT-s-OFDM QPSK	Inner_1RB_Right	1@77	1702.5	340500	20.99
15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1702.5	340500	20.91
15	15	DFT-s-OFDM QPSK	Outer_Full	75@0	1702.5	340500	20.98
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1702.5	340500	21.00

Ant.2 - NR n70 Power Level C1 (Tune-up: 23.0)

NR n70							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1707.5	341500	22.03
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1702.5	340500	21.94
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1697.5	339500	21.98
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1702.5	340500	22.09
15	15	DFT-s-OFDM PI/2 BPSK	Inner_Full	36@18	1702.5	340500	22.05
15	15	DFT-s-OFDM 16QAM	Inner_Full	36@18	1702.5	340500	21.44
15	15	DFT-s-OFDM 64QAM	Inner_Full	36@18	1702.5	340500	19.99
15	15	DFT-s-OFDM 256QAM	Inner_Full	36@18	1702.5	340500	18.07
15	15	CP-OFDM QPSK	Inner_Full	39@19	1702.5	340500	21.04
15	15	CP-OFDM 16QAM	Inner_Full	39@19	1702.5	340500	20.51
15	15	CP-OFDM 64QAM	Inner_Full	39@19	1702.5	340500	18.95
15	15	CP-OFDM 256QAM	Inner_Full	39@19	1702.5	340500	16.17
15	15	DFT-s-OFDM QPSK	Edge_Full_Right	2@77	1702.5	340500	21.55
15	15	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1702.5	340500	21.51
15	15	DFT-s-OFDM QPSK	Inner_1RB_Right	1@77	1702.5	340500	21.95
15	15	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1702.5	340500	22.07
15	15	DFT-s-OFDM QPSK	Outer_Full	75@0	1702.5	340500	21.41
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1702.5	340500	22.05

Ant.0 - NR n71 Full Power, Power Level B1/B2/C1/C2 (Tune-up: 24.0)

NR n71							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	695.5	139100	22.77
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	680.5	136100	22.78
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	665.5	133100	22.87
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	688.0	137600	22.84
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	680.5	136100	22.89
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	673.0	134600	22.80
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	680.5	136100	22.85
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	680.5	136100	21.86
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	680.5	136100	20.45
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	680.5	136100	18.46
15	20	CP-OFDM QPSK	Inner_Full	50@25	680.5	136100	21.34
15	20	CP-OFDM 16QAM	Inner_Full	50@25	680.5	136100	20.85
15	20	CP-OFDM 64QAM	Inner_Full	50@25	680.5	136100	19.34
15	20	CP-OFDM 256QAM	Inner_Full	50@25	680.5	136100	16.38
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	680.5	136100	21.85
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	680.5	136100	21.78
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	680.5	136100	22.77
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	680.5	136100	22.73
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	680.5	136100	21.87
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	680.5	136100	22.76
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	680.5	136100	22.82

Ant.0 - NR n71 Power Level A1 (Tune-up: 23.0)

NR n71							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	695.5	139100	21.73
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	680.5	136100	21.82
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	665.5	133100	21.81
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	688.0	137600	21.75
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	680.5	136100	21.83
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	673.0	134600	21.70
15	20	DFT-s-OFDM PI/2 BPSK	Inner_Full	50@25	680.5	136100	21.79
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	680.5	136100	21.74
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	680.5	136100	20.41
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	680.5	136100	18.47
15	20	CP-OFDM QPSK	Inner_Full	50@25	680.5	136100	21.30
15	20	CP-OFDM 16QAM	Inner_Full	50@25	680.5	136100	20.80
15	20	CP-OFDM 64QAM	Inner_Full	50@25	680.5	136100	19.27
15	20	CP-OFDM 256QAM	Inner_Full	50@25	680.5	136100	16.43
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	680.5	136100	21.68
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	680.5	136100	21.80
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	680.5	136100	21.70
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	680.5	136100	21.82
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	680.5	136100	21.79
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	680.5	136100	21.69
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	680.5	136100	21.78

Ant.2 - NR n77-Part 27Q PC2 Full Power (Tune-up: 27.7)

NR n77-Part 27Q							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3545.00	636333	26.32
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3500.01	633334	26.45
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3455.02	630335	26.43
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	26.47
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	3500.01	633334	26.46
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	25.42
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	23.86
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	21.89
30	100	CP-OFDM QPSK	Inner_Full	135@67	3500.01	633334	24.82
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	24.40
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	22.82
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	19.83
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3500.01	633334	23.11
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	22.63
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3500.01	633334	26.39
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	25.98
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3500.01	633334	26.43
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3500.01	633334	26.34
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	26.45
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3500.01	633334	26.43
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	26.44
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	26.33
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	26.42
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3500.01	633334	26.33
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	26.36
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	26.37

Ant.2 - NR n77-Part 27Q PC2 Power Level A1/A2 (Tune-up: 18.0)

NR n77-Part 27Q							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3545.00	636333	17.31
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3500.01	633334	17.41
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3455.02	630335	17.31
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	17.45
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	3500.01	633334	17.40
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	17.38
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	17.43
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	17.42
30	100	CP-OFDM QPSK	Inner_Full	135@67	3500.01	633334	17.31
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	17.36
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	17.37
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	17.39
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3500.01	633334	17.32
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	17.35
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3500.01	633334	17.32
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	17.40
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3500.01	633334	17.34
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3500.01	633334	17.35
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	17.35
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3500.01	633334	17.39
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	17.36
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	17.30
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	17.37
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3500.01	633334	17.32
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	17.40
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	17.34

Ant.2 - NR n77-Part 27Q PC2 Power Level B1/B2 (Tune-up: 19.0)

NR n77-Part 27Q							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3545.00	636333	18.36
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3500.01	633334	18.24
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3455.02	630335	18.28
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	18.39
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	3500.01	633334	18.33
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	18.26
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	18.24
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	18.29
30	100	CP-OFDM QPSK	Inner_Full	135@67	3500.01	633334	18.37
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	18.35
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	18.31
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	18.36
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3500.01	633334	18.26
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	18.30
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3500.01	633334	18.35
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	18.36
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3500.01	633334	18.28
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3500.01	633334	18.27
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	18.36
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3500.01	633334	18.26
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	18.26
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	18.34
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	18.24
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3500.01	633334	18.30
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	18.26
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	18.27

Ant.2 - NR n77-Part 27Q PC2 Power Level C1/C2 (Tune-up: 20.0)

NR n77-Part 27Q							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3545.00	636333	19.29
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3500.01	633334	19.37
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3455.02	630335	19.36
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	19.42
30	100	DFT-s-OFDM PI/2 BPSK	Inner_Full	135@67	3500.01	633334	19.40
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	19.35
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	19.38
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	19.36
30	100	CP-OFDM QPSK	Inner_Full	135@67	3500.01	633334	19.38
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3500.01	633334	19.28
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3500.01	633334	19.35
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3500.01	633334	19.33
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3500.01	633334	19.34
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	19.36
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3500.01	633334	19.27
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	19.28
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3500.01	633334	19.31
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3500.01	633334	19.30
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	19.39
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3500.01	633334	19.29
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	19.34
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	19.28
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	19.29
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3500.01	633334	19.27
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	19.28
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	19.41

Ant.2 - NR n77-Part 270 PC2 Full Power (Tune-up: 27.7)

NR n77-Part 270							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3975.02	665000	26.90
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3840.00	656000	26.92
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3715.01	647667	26.86
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.00	662000	26.23
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3840.00	656000	26.94
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.00	650000	26.51
30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3840.00	656000	26.92
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3840.00	656000	25.85
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3840.00	656000	24.34
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3840.00	656000	22.37
30	100	CP-OFDM QPSK	Inner_Full	135@67	3840.00	656000	25.30
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3840.00	656000	24.85
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3840.00	656000	23.29
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3840.00	656000	20.30
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3840.00	656000	22.99
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3840.00	656000	23.38
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3840.00	656000	26.41
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3840.00	656000	26.82
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3840.00	656000	25.79
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3840.00	656000	26.89
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3840.00	656000	26.89
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3840.00	656000	26.91
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3840.00	656000	26.88
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3840.00	656000	26.92
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3840.00	656000	26.91
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3840.00	656000	26.89
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3840.00	656000	26.86
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3840.00	656000	26.79

Ant.2 - NR n77-Part 270 PC2 Power Level A1/A2 (Tune-up: 18.0)

NR n77-Part 270							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3975.02	665000	17.67
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3840.00	656000	17.63
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3715.01	647667	17.68
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.00	662000	17.40
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3840.00	656000	17.76
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.00	650000	17.53
30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3840.00	656000	17.72
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3840.00	656000	17.68
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3840.00	656000	17.71
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3840.00	656000	17.62
30	100	CP-OFDM QPSK	Inner_Full	135@67	3840.00	656000	17.73
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3840.00	656000	17.66
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3840.00	656000	17.74
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3840.00	656000	17.70
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3840.00	656000	17.72
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3840.00	656000	17.75
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3840.00	656000	17.70
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3840.00	656000	17.73
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3840.00	656000	17.61
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3840.00	656000	17.75
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3840.00	656000	17.73
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3840.00	656000	17.61
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3840.00	656000	17.68
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3840.00	656000	17.66
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3840.00	656000	17.68
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3840.00	656000	17.73
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3840.00	656000	17.71
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3840.00	656000	17.69

Ant.2 - NR n77-Part 270 PC2 Power Level B1/B2 (Tune-up: 19.0)

NR n77-Part 270							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3975.02	665000	18.69
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3840.00	656000	18.77
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3715.01	647667	18.64
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.00	662000	18.66
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3840.00	656000	18.78
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.00	650000	18.71
30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3840.00	656000	18.73
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3840.00	656000	18.69
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3840.00	656000	18.66
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3840.00	656000	18.73
30	100	CP-OFDM QPSK	Inner_Full	135@67	3840.00	656000	18.64
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3840.00	656000	18.63
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3840.00	656000	18.72
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3840.00	656000	18.63
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3840.00	656000	18.66
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3840.00	656000	18.67
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3840.00	656000	18.74
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3840.00	656000	18.71
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3840.00	656000	18.75
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3840.00	656000	18.76
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3840.00	656000	18.71
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3840.00	656000	18.66
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3840.00	656000	18.73
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3840.00	656000	18.63
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3840.00	656000	18.63
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3840.00	656000	18.67
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3840.00	656000	18.75
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3840.00	656000	18.64

Ant.2 - NR n77-Part 270 PC2 Power Level C1/C2 (Tune-up: 20.0)

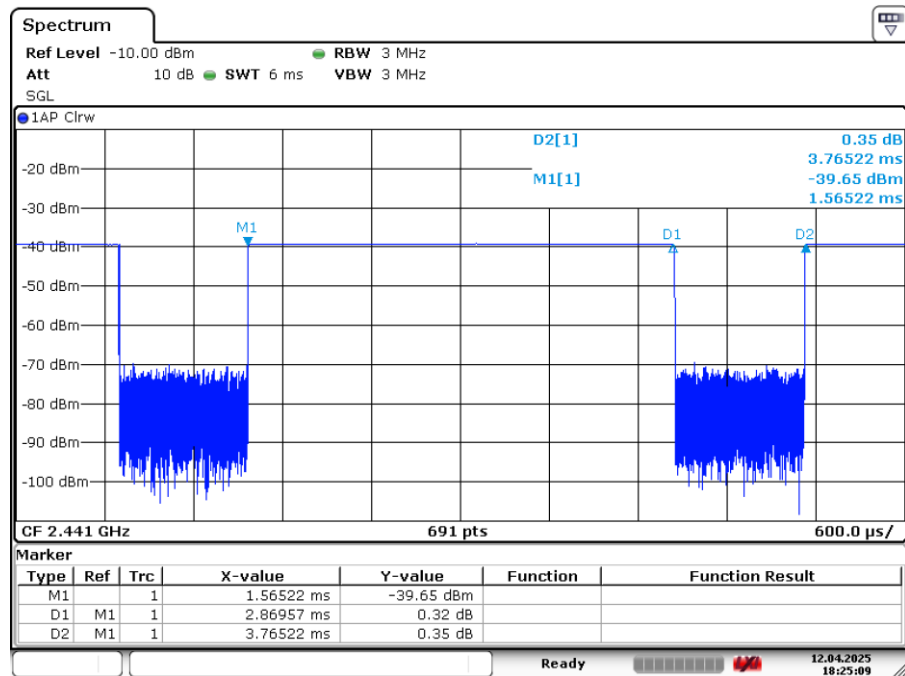
NR n77-Part 270							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3975.02	665000	19.68
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3840.00	656000	19.79
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3715.01	647667	19.82
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.00	662000	19.59
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3840.00	656000	19.83
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.00	650000	19.74
30	100	DFT-s-OFDM PI/2 BPSK1	Inner_Full	135@67	3840.00	656000	19.80
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	3840.00	656000	19.72
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	3840.00	656000	19.72
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	3840.00	656000	19.72
30	100	CP-OFDM QPSK	Inner_Full	135@67	3840.00	656000	19.80
30	100	CP-OFDM 16QAM	Inner_Full	135@67	3840.00	656000	19.69
30	100	CP-OFDM 64QAM	Inner_Full	135@67	3840.00	656000	19.71
30	100	CP-OFDM 256QAM	Inner_Full	135@67	3840.00	656000	19.80
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	3840.00	656000	19.69
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3840.00	656000	19.80
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	3840.00	656000	19.79
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3840.00	656000	19.69
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	3840.00	656000	19.74
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3840.00	656000	19.82
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3840.00	656000	19.72
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	3840.00	656000	19.68
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3840.00	656000	19.69
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3840.00	656000	19.70
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3840.00	656000	19.69
30	70	DFT-s-OFDM QPSK	Inner_Full	90@45	3840.00	656000	19.70
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3840.00	656000	19.68
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3840.00	656000	19.82

10.5. Bluetooth and WLAN Measurement result

Table 10.5: The conducted Power measurement results for Bluetooth
Ant.7 - Bluetooth Full Power, Power Level D1/D2/E1/E2/F1/F2

Mode	Channel	Frequency [MHz]	Averaged Power [dBm]	Tune up [dBm]
GFSK	0	2402.0	7.69	9.50
	39	2441.0	7.18	8.50
	78	2480.0	6.63	8.50
EDR2M-4_DQPSK	0	2402.0	6.61	8.00
	39	2441.0	6.25	8.00
	78	2480.0	6.18	8.00
EDR3M-8DPSK	0	2402.0	6.18	8.00
	39	2441.0	6.21	8.00
	78	2480.0	6.13	8.00
BLE 1M	0	2402.0	0.32	1.00
	19	2440.0	0.68	1.00
	39	2480.0	-0.04	1.00
BLE 2M	1	2404.0	0.12	1.00
	19	2440.0	0.30	1.00
	38	2478.0	-0.71	1.00

Duty factor plot



Date: 12.APR.2025 18:25:09

$$\text{Duty cycle} = \text{on time} / \text{total time} = (2.86957 / 3.76522) * 100\% = 76.21\%$$

Table 10.6: The conducted Power measurement results for WLAN 2.4GHz
Ant.7 - WLAN 2.4GHz Power Level D1

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	14.64	14.54	14.99	16.5
802.11g	13.65	13.53	13.65	15.5
802.11n(20MHz)	13.68	13.56	13.59	15.5
/	Ch.3 (2422MHz)	Ch.6 (2437MHz)	Ch.9 (2452MHz)	/
802.11n(40MHz)	13.58	13.54	13.61	15.5

Ant.7 - WLAN 2.4GHz Power Level D2

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	9.68	9.56	10.05	11.5
802.11g	9.12	9.17	9.66	11.0
802.11n(20MHz)	9.05	9.15	9.61	11.0
/	Ch.3 (2422MHz)	Ch.6 (2437MHz)	Ch.9 (2452MHz)	/
802.11n(40MHz)	8.13	8.16	8.26	10.0

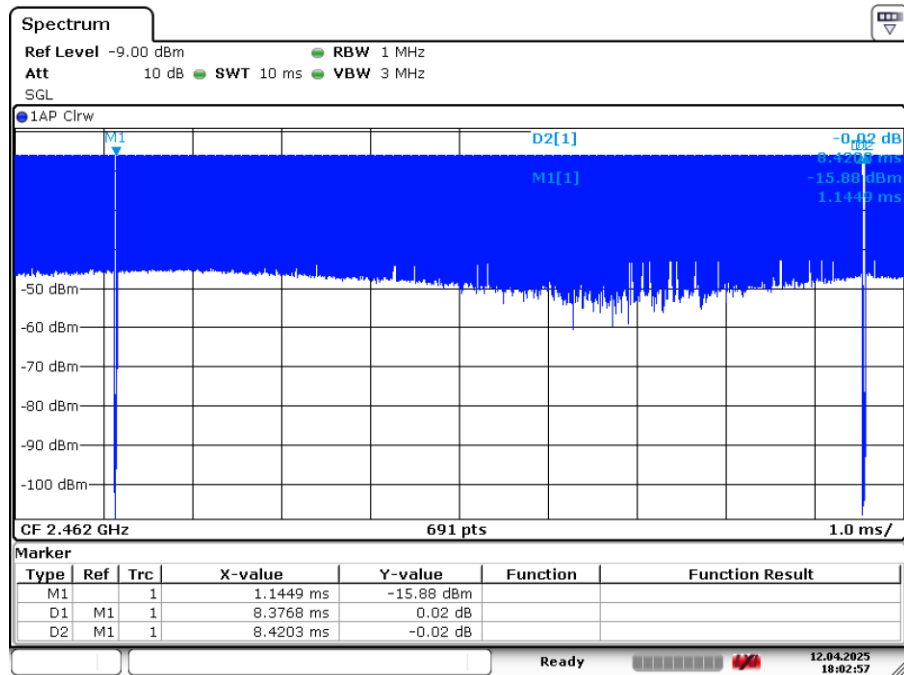
Ant.7 - WLAN 2.4GHz Power Level E1/E2

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	13.92	13.89	14.33	15.8
802.11g	13.06	13.09	13.77	14.8
802.11n(20MHz)	13.13	12.96	13.62	14.5
/	Ch.3 (2422MHz)	Ch.6 (2437MHz)	Ch.9 (2452MHz)	/
802.11n(40MHz)	11.64	11.73	11.78	13.5

Ant.7 - WLAN 2.4GHz Full Power, Power Level F1/F2

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	17.38	17.04	18.03	18.5
802.11g	17.45	17.19	18.08	18.5
802.11n(20MHz)	17.35	17.10	18.05	18.5
/	Ch.3 (2422MHz)	Ch.6 (2437MHz)	Ch.9 (2452MHz)	/
802.11n(40MHz)	15.77	15.65	16.45	17.5

Duty factor plot



Date: 12 APR 2025 18:02:58

$$\text{Duty cycle} = \text{on time} / \text{total time} = (8.3768 / 8.4203) * 100\% = 99.48\%$$

Table 10.7: The conducted Power measurement results for WLAN 5GHz
Ant.7 - WLAN 5GHz Power Level D1

Averaged Power (dBm)								
Mode	802.11a	802.11n-20MHz	802.11ac-20MHz	Mode	802.11n-40MHz	802.11ac-40MHz	Mode	802.11ac-80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	15.5	13.5	13.5	/	13.5	13.5	/	12.0
36(5180MHz)	14.06	11.87	11.93	38(5190MHz)	11.90	11.89	42(5210MHz)	10.04
40(5200MHz)	14.12	11.92	11.98	46(5230MHz)	12.02	11.97	/	/
44(5220MHz)	14.16	11.98	11.97	/	/	/	/	/
48(5240MHz)	14.22	12.01	12.05	/	/	/	/	/
<U-NII-2A>								
Tune up	15.5	13.5	13.5	/	13.5	13.5	/	12.0
52(5260MHz)	14.27	12.07	12.08	54(5270MHz)	12.08	12.05	58(5290MHz)	10.21
56(5280MHz)	14.41	12.04	12.04	62(5310MHz)	12.14	12.15	/	/
60(5300MHz)	14.38	12.11	12.06	/	/	/	/	/
64(5320MHz)	14.28	12.08	12.09	/	/	/	/	/
<U-NII-2C>								
Tune up	15.5	13.5	13.5	/	13.5	13.5	/	12.0
100(5500MHz)	14.33	12.15	12.18	102(5510MHz)	12.18	12.16	106(5530MHz)	10.25
116(5580MHz)	14.32	12.02	12.12	110(5550MHz)	12.13	12.13	122(5610MHz)	10.18
124(5620MHz)	14.27	11.97	12.04	126(5630MHz)	11.95	12.02	138(5690MHz)	10.11
132(5660MHz)	14.18	11.98	12.02	134(5670MHz)	11.97	11.96	/	/
140(5700MHz)	14.17	11.93	11.99	142(5710MHz)	11.91	11.92	/	/
144(5720MHz)	14.12	11.78	11.88	/	/	/	/	/
<U-NII-3>								
Tune up	15.5	13.5	13.5	/	13.5	13.5	/	12.0
149(5745MHz)	14.61	12.43	12.43	151(5755MHz)	12.45	12.49	155(5775MHz)	10.65
157(5785MHz)	14.81	12.46	12.45	159(5795MHz)	12.57	12.54	/	/
165(5825MHz)	14.78	12.54	12.57	/	/	/	/	/

Ant.7 - WLAN 5GHz Power Level D2

Averaged Power (dBm)								
Mode	802.11a	802.11n-20MHz	802.11ac-20MHz	Mode	802.11n-40MHz	802.11ac-40MHz	Mode	802.11ac-80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	11.0	8.0	8.0	/	8.0	8.0	/	8.0
36(5180MHz)	9.54	6.32	6.43	38(5190MHz)	6.39	6.34	42(5210MHz)	6.57
40(5200MHz)	9.66	6.41	6.49	46(5230MHz)	6.56	6.48	/	/
44(5220MHz)	9.65	6.45	6.47	/	/	/	/	/
48(5240MHz)	9.72	6.49	6.51	/	/	/	/	/
<U-NII-2A>								
Tune up	11.0	8.0	8.0	/	8.0	8.0	/	8.0
52(5260MHz)	9.73	6.59	6.53	54(5270MHz)	6.58	6.58	58(5290MHz)	6.68
56(5280MHz)	9.91	6.49	6.54	62(5310MHz)	6.69	6.61	/	/
60(5300MHz)	9.89	6.65	6.53	/	/	/	/	/
64(5320MHz)	9.75	6.56	6.61	/	/	/	/	/
<U-NII-2C>								
Tune up	11.0	8.0	8.0	/	8.0	8.0	/	8.0
100(5500MHz)	9.85	6.67	6.65	102(5510MHz)	6.64	6.63	106(5530MHz)	6.75
116(5580MHz)	9.84	6.51	6.67	110(5550MHz)	6.68	6.66	122(5610MHz)	6.65
124(5620MHz)	9.81	6.43	6.56	126(5630MHz)	6.48	6.49	138(5690MHz)	6.60
132(5660MHz)	9.71	6.52	6.53	134(5670MHz)	6.48	6.42	/	/
140(5700MHz)	9.66	6.42	6.53	142(5710MHz)	6.45	6.42	/	/
144(5720MHz)	9.59	6.30	6.42	/	/	/	/	/
<U-NII-3>								
Tune up	11.0	8.0	8.0	/	8.0	8.0	/	8.0
149(5745MHz)	10.12	6.88	6.91	151(5755MHz)	6.95	6.97	155(5775MHz)	7.12
157(5785MHz)	10.28	6.98	6.99	159(5795MHz)	7.09	7.04	/	/
165(5825MHz)	10.25	7.07	7.09	/	/	/	/	/

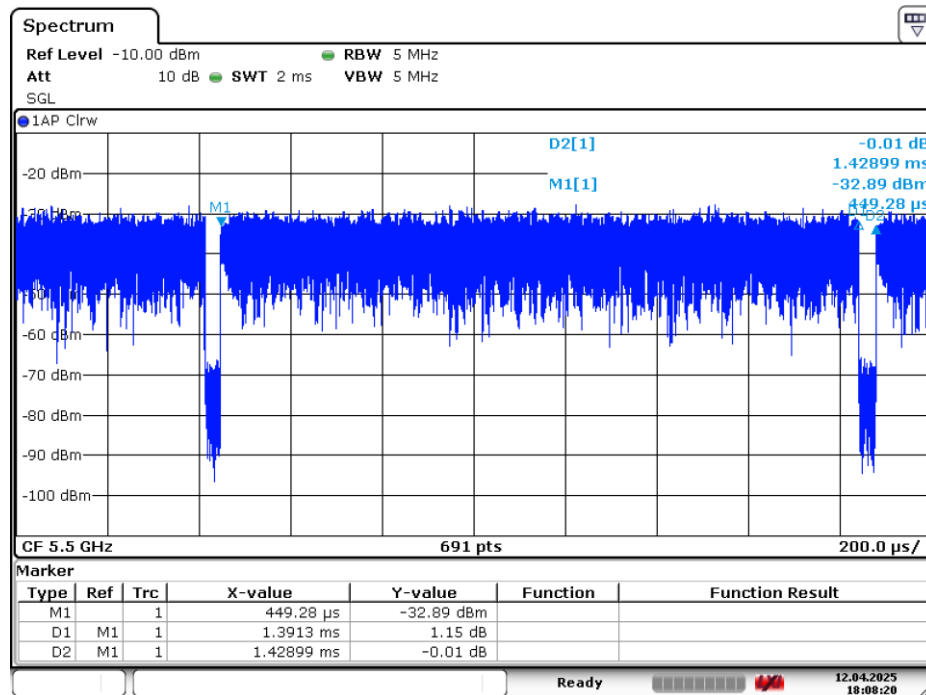
Ant.7 - WLAN 5GHz Power Level E1/E2

Averaged Power (dBm)								
Mode	802.11a	802.11n-20MHz	802.11ac-20MHz	Mode	802.11n-40MHz	802.11ac-40MHz	Mode	802.11ac-80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	14.5	12.0	12.0	/	11.0	11.0	/	11.5
36(5180MHz)	13.06	10.37	10.43	38(5190MHz)	9.45	9.39	42(5210MHz)	9.99
40(5200MHz)	13.20	10.44	10.45	46(5230MHz)	9.51	9.51	/	/
44(5220MHz)	13.26	10.43	10.52	/	/	/	/	/
48(5240MHz)	13.23	10.54	10.57	/	/	/	/	/
<U-NII-3>								
Tune up	14.5	11.4	12.0	/	11.0	11.0	/	11.5
149(5745MHz)	13.62	10.88	10.93	151(5755MHz)	9.95	10.04	155(5775MHz)	10.16
157(5785MHz)	13.82	11.01	10.96	159(5795MHz)	10.04	10.09	/	/
165(5825MHz)	13.80	11.04	11.09	/	/	/	/	/

Ant.2 - WLAN 5GHz Full Power, Power Level F1/F2

Averaged Power (dBm)								
Mode	802.11a	802.11n-20MHz	802.11ac-20MHz	Mode	802.11n-40MHz	802.11ac-40MHz	Mode	802.11ac-80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	19.0	19.0	18.0	/	18.0	17.0	/	16.0
36(5180MHz)	18.52	18.41	17.11	38(5190MHz)	16.72	15.86	42(5210MHz)	15.03
40(5200MHz)	18.57	18.46	17.07	46(5230MHz)	16.78	15.94	/	/
44(5220MHz)	18.63	18.55	17.15	/	/	/	/	/
48(5240MHz)	18.58	18.52	17.18	/	/	/	/	/
<U-NII-2A>								
Tune up	19.0	19.0	18.0	/	18.0	17.0	/	16.0
52(5260MHz)	18.68	18.58	17.15	54(5270MHz)	16.81	15.91	58(5290MHz)	14.83
56(5280MHz)	18.71	18.15	17.25	62(5310MHz)	16.87	16.03	/	/
60(5300MHz)	18.66	18.18	17.27	/	/	/	/	/
64(5320MHz)	18.63	18.26	17.21	/	/	/	/	/
<U-NII-2C>								
Tune up	19.0	19.0	18.0	/	18.0	17.0	/	16.0
100(5500MHz)	18.68	18.63	17.18	102(5510MHz)	16.93	15.90	106(5530MHz)	15.05
116(5580MHz)	18.51	18.05	17.11	110(5550MHz)	16.78	15.96	122(5610MHz)	14.87
124(5620MHz)	18.45	18.03	17.00	126(5630MHz)	16.87	15.86	138(5690MHz)	14.74
132(5660MHz)	18.48	17.95	17.05	134(5670MHz)	16.56	15.78	/	/
140(5700MHz)	18.61	17.97	17.09	142(5710MHz)	16.64	15.83	/	/
144(5720MHz)	18.37	17.93	16.96	/	/	/	/	/
<U-NII-3>								
Tune up	19.0	19.0	18.0	/	18.0	17.0	/	16.0
149(5745MHz)	18.88	18.39	17.44	151(5755MHz)	17.03	16.31	155(5775MHz)	15.15
157(5785MHz)	18.92	18.47	17.51	159(5795MHz)	16.96	16.25	/	/
165(5825MHz)	18.81	18.35	17.35	/	/	/	/	/

Duty factor plot

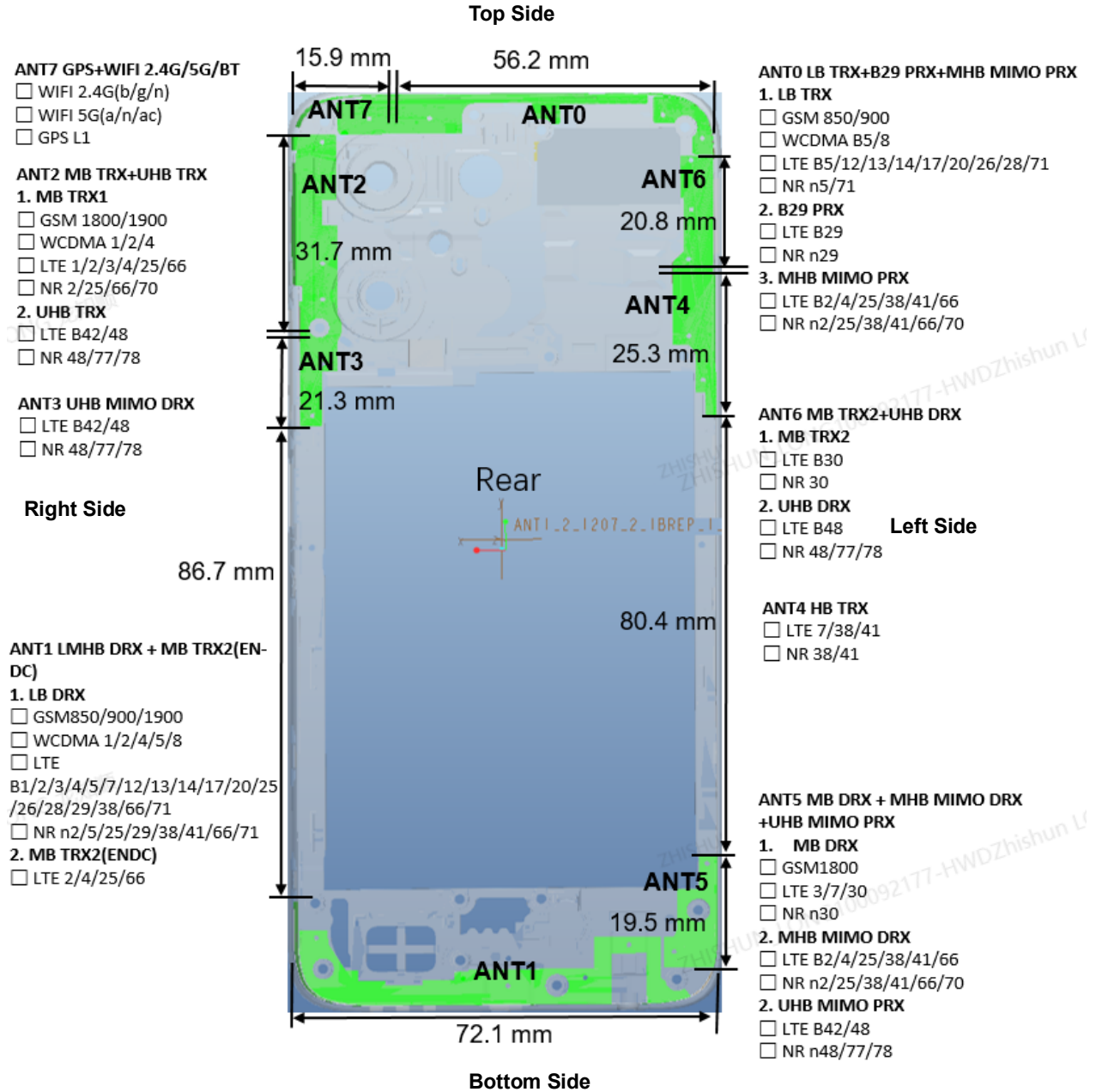


Date: 12.APR.2025 18:08:20

$$\text{Duty cycle} = \text{on time} / \text{total time} = (1.3913 / 1.42899) * 100\% = 97.36\%$$

11. Simultaneous TX SAR Considerations

11.1. Transmit Antenna Position and Size



Picture 11.1 Antenna Locations (Back View)

UL CA Bands list:

Band	LTE TX Band	LTE TX Ant.	LTE TX Band	LTE TX Ant.
CA_2A-4A	B2	ANT1	B4	ANT2
CA_2A-5A	B2	ANT2	B5	ANT0
CA_2A-12A	B2	ANT2	B12	ANT0
CA_2A-13A	B2	ANT2	B13	ANT0
CA_2A-48A	B2	ANT1	B48	ANT2
CA_2A-66A	B2	ANT1	B66	ANT2
CA_12A-66A	B12	ANT0	B66	ANT2
CA_4A-7A	B4	ANT1	B7	ANT4
CA_4A-5A	B4	ANT2	B5	ANT0
CA_4A-12A	B4	ANT2	B12	ANT0
CA_4A-13A	B4	ANT2	B13	ANT0
CA_4A-17A	B4	ANT2	B17	ANT0
CA_5A-66A	B5	ANT0	B66	ANT2
CA_13A-66A	B13	ANT0	B66	ANT2
CA_48A-66A	B48	ANT2	B66	ANT1
CA_7A-66A	B7	ANT4	B66	ANT1

UL ENDC Bands list:

Band	LTE TX Band	LTE TX Ant.	NR TX Band	NR TX Ant.
DC_2A_n5A	B2	ANT2	n5	ANT0
DC_2A_n41A	B2	ANT1	n41	ANT4
DC_2A_n66A	B2	ANT1	n66	ANT2
DC_2A_n71A	B2	ANT1	n71	ANT0
DC_2A_n77A	B2	ANT1	n77	ANT2
DC_2A_n78A	B2	ANT1	n78	ANT2
DC_5A_n2A	B5	ANT0	n2	ANT2
DC_5A_n66A	B5	ANT0	n66	ANT2
DC_5A_n77A	B5	ANT0	n77	ANT2
DC_13A_n2A	B13	ANT0	n2	ANT2
DC_13A_n66A	B13	ANT0	n66	ANT2
DC_13A_n77A	B13	ANT0	n77	ANT2
DC_48A_n5A	B48	ANT2	n5	ANT0
DC_48A_n2A	B48	ANT2	n2	ANT1
DC_66A_n2A	B66	ANT1	n2	ANT2
DC_66A_n5A	B66	ANT1	n5	ANT0
DC_66A_n41A	B66	ANT1	n41	ANT4
DC_66A_n71A	B66	ANT1	n71	ANT0
DC_66A_n77A	B66	ANT1	n77	ANT2
DC_66A_n78A	B66	ANT1	n78	ANT2
DC_5A_n78A	B5	ANT0	n78	ANT2

DC_7A_n66A	B7	ANT4	n66	ANT1
DC_7A_n77A	B7	ANT4	n77	ANT2
DC_7A_n78A	B7	ANT4	n78	ANT2
DC_7A_n71A	B7	ANT4	n71	ANT0
DC_30A_n5A	B30	ANT6	n5	ANT0
DC_12A_n66A	B12	ANT0	n66	ANT2
DC_14A_n66A	B14	ANT0	n66	ANT2
DC_30A_n66A	B30	ANT6	n66	ANT1
DC_66A_n66A	B66	ANT1	n66	ANT2
DC_2A_n2A	B2	ANT1	n2	ANT2
DC_12A_n2A	B12	ANT0	n2	ANT2
DC_14A_n2A	B14	ANT0	n2	ANT2
DC_30A_n2A	B30	ANT6	n2	ANT1
DC_30A_n77A	B30	ANT6	n77	ANT2
DC_12A_n77A	B12	ANT0	n77	ANT2
DC_14A_n77A	B14	ANT0	n77	ANT2
DC_4A_n78A	B4	ANT1	n78	ANT2
DC_71A_n66A	B77	ANT0	n66	ANT1
DC_48A_n66A	B48	ANT2	n66	ANT1

11.2. SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 25mm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Antenna	Front	Rear	Left Side	Right Side	Top Side	Bottom Side
0	Yes	Yes	Yes	Yes	Yes	No
1	Yes	Yes	Yes	Yes	No	Yes
2	Yes	Yes	No	Yes	Yes	No
4	Yes	Yes	Yes	No	Yes	No
6	Yes	Yes	Yes	No	Yes	No
7	Yes	Yes	No	Yes	Yes	No

11.3. Evaluation of Simultaneous

No.	Simultaneous Transmission Configuration
1	WLAN 5GHz + Bluetooth
2	WWAN + WLAN 2.4GHz
3	WWAN + WLAN 5GHz
4	WWAN + Bluetooth
5	WWAN + WLAN 5GHz + Bluetooth

Table 11.1: The sum of SAR values for ULCA

CA_2A-4A		LTE B2	LTE B4(B66)	MAX
Head	Left Cheek	0.26	0.59	0.85
	Left Tilt	0.16	0.25	0.41
	Right Cheek	0.20	0.31	0.51
	Right Tilt	0.19	0.26	0.45
Body	Front	0.24	0.29	0.53
	Rear	0.47	0.00	0.47
	Left	0.09	0.00	0.09
	Right	0.21	0.34	0.55
	Top	0.00	0.35	0.35
Body-worn	Bottom	0.60	0.00	0.60
	Front	0.23	0.25	0.48
Body-worn	Rear	0.48	0.38	0.86

CA_2A-5A		LTE B2	LTE B5	MAX
Head	Left Cheek	0.51	0.47	0.98
	Left Tilt	0.19	0.36	0.55
	Right Cheek	0.26	0.49	0.75
	Right Tilt	0.22	0.39	0.61
Body	Front	0.27	0.26	0.53
	Rear	0.63	0.36	0.99
	Left	0.00	0.27	0.27
	Right	0.39	0.23	0.62
	Top	0.28	0.32	0.60
Body-worn	Bottom	0.00	0.00	0.00
	Front	0.20	0.08	0.28
Body-worn	Rear	0.32	0.17	0.49

CA_2A-12A		LTE B2	LTE B12	MAX
Head	Left Cheek	0.51	0.56	1.07
	Left Tilt	0.19	0.42	0.61
	Right Cheek	0.26	0.55	0.81
	Right Tilt	0.22	0.48	0.70
Body	Front	0.27	0.16	0.43
	Rear	0.63	0.17	0.80
	Left	0.00	0.25	0.25
	Right	0.39	0.15	0.54
	Top	0.28	0.21	0.49
Body-worn	Bottom	0.00	0.00	0.00
	Front	0.20	0.17	0.37
Body-worn	Rear	0.32	0.22	0.54

CA_2A-13A		LTE B2	LTE B13	MAX
Head	Left Cheek	0.51	0.37	0.88
	Left Tilt	0.19	0.28	0.47
	Right Cheek	0.26	0.36	0.62
	Right Tilt	0.22	0.25	0.47
Body	Front	0.27	0.23	0.50
	Rear	0.63	0.23	0.86
	Left	0.00	0.26	0.26
	Right	0.39	0.13	0.52
	Top	0.28	0.34	0.62
Body-worn	Bottom	0.00	0.00	0.00
	Front	0.20	0.20	0.40
Body-worn	Rear	0.32	0.23	0.55
CA_2A-48A		LTE B2	LTE B48	MAX
Head	Left Cheek	0.26	0.90	1.16
	Left Tilt	0.16	0.44	0.60
	Right Cheek	0.20	0.25	0.45
	Right Tilt	0.19	0.22	0.41
Body	Front	0.24	0.16	0.40
	Rear	0.47	0.00	0.47
	Left	0.09	0.00	0.09
	Right	0.21	0.00	0.21
	Top	0.00	0.08	0.08
Body-worn	Bottom	0.60	0.00	0.60
	Front	0.23	0.12	0.35
Body-worn	Rear	0.48	0.30	0.78
CA_2A-66A		LTE B2	LTE B66	MAX
Head	Left Cheek	0.26	0.59	0.85
	Left Tilt	0.16	0.25	0.41
	Right Cheek	0.20	0.31	0.51
	Right Tilt	0.19	0.26	0.45
Body	Front	0.24	0.29	0.53
	Rear	0.47	0.00	0.47
	Left	0.09	0.00	0.09
	Right	0.21	0.34	0.55
	Top	0.00	0.35	0.35
Body-worn	Bottom	0.60	0.00	0.60
	Front	0.23	0.25	0.48
Body-worn	Rear	0.48	0.38	0.86
CA_12A-66A		LTE B12	LTE B66	MAX
Head	Left Cheek	0.56	0.59	1.15
	Left Tilt	0.42	0.25	0.67
	Right Cheek	0.55	0.31	0.86
	Right Tilt	0.48	0.26	0.74
Body	Front	0.16	0.29	0.45
	Rear	0.17	0.00	0.17
	Left	0.25	0.00	0.25
	Right	0.15	0.34	0.49
	Top	0.21	0.35	0.56
Body-worn	Bottom	0.00	0.00	0.00
	Front	0.17	0.25	0.42
Body-worn	Rear	0.22	0.38	0.60
CA_4A-7A		LTE B4(B66)	LTE B7	MAX
Head	Left Cheek	0.16	0.26	0.42
	Left Tilt	0.08	0.15	0.23
	Right Cheek	0.11	0.64	0.75
	Right Tilt	0.09	0.22	0.31
Body	Front	0.23	0.20	0.43
	Rear	0.55	0.48	1.03
	Left	0.00	0.27	0.27
	Right	0.14	0.00	0.14
	Top	0.00	0.05	0.05
Body-worn	Bottom	0.71	0.00	0.71
	Front	0.25	0.13	0.38
Body-worn	Rear	0.58	0.27	0.85
CA_4A-5A		LTE B4(B66)	LTE B5	MAX
Head	Left Cheek	0.59	0.47	1.06
	Left Tilt	0.25	0.36	0.61
	Right Cheek	0.31	0.49	0.80
	Right Tilt	0.26	0.39	0.65
Body	Front	0.29	0.26	0.55
	Rear	0.00	0.36	0.36
	Left	0.00	0.27	0.27
	Right	0.34	0.23	0.57
	Top	0.35	0.32	0.67
Body-worn	Bottom	0.00	0.00	0.00
	Front	0.25	0.08	0.33
Body-worn	Rear	0.38	0.17	0.55
CA_4A-13A		LTE B4(B66)	LTE B13	MAX
Head	Left Cheek	0.59	0.37	0.96
	Left Tilt	0.25	0.28	0.53
	Right Cheek	0.31	0.36	0.67
	Right Tilt	0.26	0.25	0.51
Body	Front	0.29	0.23	0.52
	Rear	0.00	0.23	0.23
	Left	0.00	0.26	0.26
	Right	0.34	0.13	0.47
	Top	0.35	0.34	0.69
Body-worn	Bottom	0.00	0.00	0.00
	Front	0.25	0.20	0.45
Body-worn	Rear	0.38	0.23	0.61
CA_4A-17A		LTE B4(B66)	LTE B17(B12)	MAX
Head	Left Cheek	0.59	0.56	1.15
	Left Tilt	0.25	0.42	0.67
	Right Cheek	0.31	0.55	0.86
	Right Tilt	0.26	0.48	0.74
Body	Front	0.29	0.16	0.45
	Rear	0.00	0.17	0.17
	Left	0.00	0.25	0.25
	Right	0.34	0.15	0.49
	Top	0.35	0.21	0.56
Body-worn	Bottom	0.00	0.00	0.00
	Front	0.25	0.17	0.42
Body-worn	Rear	0.38	0.22	0.60
CA_5A-66A		LTE B5	LTE B66	MAX
Head	Left Cheek	0.47	0.59	1.06
	Left Tilt	0.36	0.25	0.61
	Right Cheek	0.49	0.31	0.80
	Right Tilt	0.39	0.26	0.65
Body	Front	0.26	0.29	0.55
	Rear	0.36	0.00	0.36
	Left	0.27	0.00	0.27
	Right	0.23	0.34	0.57
	Top	0.32	0.35	0.67
Body-worn	Bottom	0.00	0.00	0.00
	Front	0.08	0.25	0.33
Body-worn	Rear	0.17	0.38	0.55
CA_13A-66A		LTE B13	LTE B66	MAX
Head	Left Cheek	0.37	0.59	0.96
	Left Tilt	0.28	0.25	0.53
	Right Cheek	0.36	0.31	0.67
	Right Tilt	0.25	0.26	0.51
Body	Front	0.23	0.29	0.52
	Rear	0.23	0.00	0.23
	Left	0.26	0.00	0.26
	Right	0.13	0.34	0.47
	Top	0.34	0.35	0.69
Body-worn	Bottom	0.00	0.00	0.00
	Front	0.20	0.25	0.45
Body-worn	Rear	0.23	0.38	0.61
CA_48A-66A		LTE B48	LTE B66	MAX
Head	Left Cheek	0.90	0.16	1.06
	Left Tilt	0.44	0.08	0.52
	Right Cheek	0.25	0.11	0.36
	Right Tilt	0.22	0.09	0.31
Body	Front	0.16	0.23	0.39
	Rear	0.00	0.55	0.55
	Left	0.00	0.00	0.00
	Right	0.00	0.14	0.14
	Top	0.08	0.00	0.08
Body-worn	Bottom	0.00	0.71	0.71
	Front	0.12	0.25	0.37
Body-worn	Rear	0.30	0.58	0.88
CA_7A-66A		LTE B7	LTE B66	MAX
Head	Left Cheek	0.26	0.16	0.42
	Left Tilt	0.15	0.08	0.23
	Right Cheek	0.64	0.11	0.75
	Right Tilt	0.22	0.09	0.31
Body	Front	0.20	0.23	0.43
	Rear	0.48	0.55	1.03
	Left	0.27	0.00	0.27
	Right	0.00	0.14	0.14
	Top	0.05	0.00	0.05
Body-worn	Bottom	0.00	0.71	0.71
	Front	0.13	0.25	0.38
Body-worn	Rear	0.27	0.58	0.85

Table 11.3: Maximum Simultaneous Transmission SAR

<i>I</i>	Position	Sum (W/kg)
Highest reported SAR value for Head	Left Cheek (DC_14A_n77A + WLAN 5GHz + Bluetooth)	1.59
	Left Cheek (DC_14A_n77A + Bluetooth)	1.41
Highest reported SAR value for Hotspot	Rear Side (LTE B41/ DC_7A_n66A + WLAN 5GHz + Bluetooth)	1.59
	Rear Side (LTE B41/ DC_7A_n66A + Bluetooth)	1.24
Highest reported SAR value for Body-worn	Rear Side (DC_7A_n66A + WLAN 5GHz + Bluetooth)	1.59
	Rear Side (DC_7A_n66A + Bluetooth)	0.99

Note: The test positions of above tables are for the worse case that has been evaluated.

Conclusion:

According to the above tables, the sum of reported SAR values is less than limit. So the simultaneous transmission SAR with volume scans is not required.

12. Summary of Test Results

According to the client's decision rule in the test registration form, which is "based on the measurement results as the basis of the conformity statement", the test conclusion of this report meets the limit requirements.

The calculated SAR is obtained by the following formula:

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

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

P_{Measured} is the measured power in chapter 10.

General Note:

1. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, 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, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

a. WLAN 5GHz U-NII-2A and U-NII-2C tested the product specific 10g SAR since it has no hotspot mode.

b. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.

2. The device support dual SIMs, SIM1 was used for the all configuration SAR testing and SIM2 test the worst case SAR of SIM1.

3. B2 (Battery): TLp049C9 - FENGHUA

Duty Cycle

Mode	Duty Cycle
GPRS	1:2 / 1:2.67
WCDMA	1:1
FDD_LTE	1:1
TDD_LTE	1:1.58 / 1:2.31
FR1 NR	1:1
Bluetooth	1:1.31
WLAN 2.4GHz	1:1.01
WLAN 5GHz	1:1.03

12.1. Testing Environment

Temperature:	18°C~25°C
Relative humidity:	30%~70%
Ambient noise & Reflection:	< 0.012 W/kg

12.2. Test Results

Table 12.1: GSM 850 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	A1	Head	GSM 850	190	836.6	GPRS(4TX)	Left Cheek	0mm	\	\	28.78	29.00	0.901	0.95	0.605	0.64	0.11
0	A1	Head	GSM 850	190	836.6	GPRS(4TX)	Left Tilt	0mm	\	\	28.78	29.00	0.778	0.82	0.482	0.51	0.12
0	A1	Head	GSM 850	190	836.6	GPRS(4TX)	Right Cheek	0mm	\	\	28.78	29.00	1.220	1.28	0.751	0.79	0.13
0	A1	Head	GSM 850	190	836.6	GPRS(4TX)	Right Tilt	0mm	\	\	28.78	29.00	1.110	1.17	0.648	0.68	-0.07
0	A1	Head	GSM 850	251	848.8	GPRS(4TX)	Left Cheek	0mm	\	\	28.44	29.00	0.832	0.95	0.534	0.61	0.06
0	A1	Head	GSM 850	128	824.2	GPRS(4TX)	Left Cheek	0mm	\	\	28.62	29.00	0.818	0.89	0.516	0.56	0.05
0	A1	Head	GSM 850	251	848.8	GPRS(4TX)	Left Tilt	0mm	\	\	28.44	29.00	0.711	0.81	0.429	0.49	-0.11
0	A1	Head	GSM 850	128	824.2	GPRS(4TX)	Left Tilt	0mm	\	\	28.62	29.00	0.695	0.76	0.408	0.45	-0.15
0	A1	Head	GSM 850	251	848.8	GPRS(4TX)	Right Cheek	0mm	\	\	28.44	29.00	1.100	1.25	0.683	0.78	-0.16
0	A1	Head	GSM 850	128	824.2	GPRS(4TX)	Right Cheek	0mm	\	\	28.62	29.00	1.160	1.27	0.737	0.80	0.10
0	A1	Head	GSM 850	251	848.8	GPRS(4TX)	Right Tilt	0mm	\	\	28.44	29.00	1.020	1.16	0.600	0.68	0.08
0	A1	Head	GSM 850	128	824.2	GPRS(4TX)	Right Tilt	0mm	\	\	28.62	29.00	0.998	1.09	0.583	0.64	-0.04
0	A1	Head	GSM 850	190	836.6	GPRS(4TX)	Right Cheek	0mm	SIM2	\	28.78	29.00	1.200	1.26	0.742	0.78	-0.05
0	A1	Head	GSM 850	190	836.6	GPRS(4TX)	Right Cheek	0mm	\	1	28.78	29.00	1.290	1.36	0.751	0.79	0.13
0	B1	Hotspot	GSM 850	190	836.6	GPRS(4TX)	Front	10mm	\	\	29.81	30.00	0.500	0.52	0.318	0.33	-0.11
0	B1	Hotspot	GSM 850	190	836.6	GPRS(4TX)	Rear	10mm	\	2	29.81	30.00	0.720	0.75	0.461	0.48	0.16
0	B1	Hotspot	GSM 850	190	836.6	GPRS(4TX)	Left	10mm	\	\	29.81	30.00	0.292	0.31	0.213	0.22	0.10
0	B1	Hotspot	GSM 850	190	836.6	GPRS(4TX)	Right	10mm	\	\	29.81	30.00	0.177	0.18	0.128	0.13	-0.01
0	B1	Hotspot	GSM 850	190	836.6	GPRS(4TX)	Top	10mm	\	\	29.81	30.00	0.615	0.64	0.349	0.36	-0.03
0	C1	Body-Worn	GSM 850	190	836.6	GPRS(4TX)	Front	15mm	\	\	29.81	30.00	0.317	0.33	0.203	0.21	-0.18
0	C1	Body-Worn	GSM 850	190	836.6	GPRS(4TX)	Rear	15mm	\	\	29.81	30.00	0.433	0.45	0.275	0.29	-0.09

Table 12.2: GSM 1900 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1	Head	GSM 1900	512	1850.2	GPRS(3TX)	Left Cheek	0mm	\	3	25.95	26.50	0.898	1.02	0.518	0.59	-0.12
2	A1	Head	GSM 1900	512	1850.2	GPRS(3TX)	Left Tilt	0mm	\	\	25.95	26.50	0.366	0.42	0.219	0.25	0.08
2	A1	Head	GSM 1900	512	1850.2	GPRS(3TX)	Right Cheek	0mm	\	\	25.95	26.50	0.466	0.53	0.291	0.33	-0.01
2	A1	Head	GSM 1900	512	1850.2	GPRS(3TX)	Right Tilt	0mm	\	\	25.95	26.50	0.421	0.48	0.254	0.29	0.07
2	A1	Head	GSM 1900	810	1909.8	GPRS(3TX)	Left Cheek	0mm	\	\	25.88	26.50	0.746	0.86	0.442	0.51	0.07
2	A1	Head	GSM 1900	661	1880.0	GPRS(3TX)	Left Cheek	0mm	\	\	25.94	26.50	0.829	0.94	0.492	0.56	0.18
2	B1	Hotspot	GSM 1900	512	1850.2	GPRS(3TX)	Front	10mm	\	\	27.68	28.00	0.310	0.33	0.199	0.21	-0.03
2	B1	Hotspot	GSM 1900	512	1850.2	GPRS(3TX)	Rear	10mm	\	4	27.68	28.00	0.590	0.64	0.321	0.35	0.13
2	B1	Hotspot	GSM 1900	512	1850.2	GPRS(3TX)	Right	10mm	\	\	27.68	28.00	0.380	0.41	0.201	0.22	0.16
2	B1	Hotspot	GSM 1900	512	1850.2	GPRS(3TX)	Top	10mm	\	\	27.68	28.00	0.302	0.33	0.179	0.19	0.01
2	C1	Body-Worn	GSM 1900	512	1850.2	GPRS(3TX)	Front	15mm	\	\	27.68	28.00	0.171	0.18	0.104	0.11	0.13
2	C1	Body-Worn	GSM 1900	512	1850.2	GPRS(3TX)	Rear	15mm	\	\	27.68	28.00	0.255	0.27	0.151	0.16	-0.17

Table 12.3: WCDMA Band 2 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1	Head	WCDMA Band 2	9538	1907.6	RMC	Left Cheek	0mm	\	5	18.08	19.00	0.388	0.48	0.219	0.27	0.05
2	A1	Head	WCDMA Band 2	9538	1907.6	RMC	Left Tilt	0mm	\	\	18.08	19.00	0.134	0.17	0.082	0.10	0.12
2	A1	Head	WCDMA Band 2	9538	1907.6	RMC	Right Cheek	0mm	\	\	18.08	19.00	0.172	0.21	0.114	0.14	0.04
2	A1	Head	WCDMA Band 2	9538	1907.6	RMC	Right Tilt	0mm	\	\	18.08	19.00	0.149	0.18	0.091	0.11	0.09
2	B1	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Front	10mm	\	\	20.13	21.00	0.136	0.17	0.086	0.11	0.08
2	B1	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Rear	10mm	\	6	20.13	21.00	0.361	0.44	0.195	0.24	-0.01
2	B1	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Right	10mm	\	\	20.13	21.00	0.213	0.26	0.112	0.14	0.05
2	B1	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Top	10mm	\	\	20.13	21.00	0.112	0.14	0.063	0.08	0.12
2	C1	Body-Worn	WCDMA Band 2	9538	1907.6	RMC	Front	15mm	\	\	21.62	22.50	0.111	0.14	0.071	0.09	0.09
2	C1	Body-Worn	WCDMA Band 2	9538	1907.6	RMC	Rear	15mm	\	\	21.62	22.50	0.227	0.28	0.131	0.16	-0.12

Table 12.4: WCDMA Band 4 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1	Head	WCDMA Band 4	1413	1732.6	RMC	Left Cheek	0mm	\	7	18.83	20.00	0.620	0.81	0.318	0.42	-0.13
2	A1	Head	WCDMA Band 4	1413	1732.6	RMC	Left Tilt	0mm	\	\	18.83	20.00	0.247	0.32	0.134	0.18	0.01
2	A1	Head	WCDMA Band 4	1413	1732.6	RMC	Right Cheek	0mm	\	\	18.83	20.00	0.273	0.36	0.158	0.21	0.11
2	A1	Head	WCDMA Band 4	1413	1732.6	RMC	Right Tilt	0mm	\	\	18.83	20.00	0.230	0.30	0.126	0.16	-0.12
2	A1	Head	WCDMA Band 4	1513	1752.6	RMC	Left Cheek	0mm	\	\	18.82	20.00	0.619	0.81	0.323	0.42	-0.18
2	A1	Head	WCDMA Band 4	1312	1712.4	RMC	Left Cheek	0mm	\	\	18.77	20.00	0.499	0.66	0.259	0.34	-0.08
2	B1	Hotspot	WCDMA Band 4	1413	1732.6	RMC	Front	10mm	\	\	22.46	23.50	0.172	0.22	0.046	0.06	0.00
2	B1	Hotspot	WCDMA Band 4	1413	1732.6	RMC	Rear	10mm	\	8	22.46	23.50	0.287	0.36	0.074	0.09	0.09
2	B1	Hotspot	WCDMA Band 4	1413	1732.6	RMC	Right	10mm	\	\	22.46	23.50	0.210	0.27	0.052	0.07	-0.01
2	B1	Hotspot	WCDMA Band 4	1413	1732.6	RMC	Top	10mm	\	\	22.46	23.50	0.178	0.23	0.044	0.06	-0.17
2	C1	Body-Worn	WCDMA Band 4	1413	1732.6	RMC	Front	15mm	\	\	22.46	23.50	0.188	0.24	0.128	0.16	-0.16
2	C1	Body-Worn	WCDMA Band 4	1413	1732.6	RMC	Rear	15mm	\	\	22.46	23.50	0.258	0.33	0.175	0.22	0.01

Table 12.5: WCDMA Band 5 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	A1	Head	WCDMA Band 5	4183	836.6	RMC	Left Cheek	0mm	\	\	21.24	22.50	0.406	0.54	0.274	0.37	-0.15
0	A1	Head	WCDMA Band 5	4183	836.6	RMC	Left Tilt	0mm	\	\	21.24	22.50	0.336	0.45	0.212	0.28	-0.02
0	A1	Head	WCDMA Band 5	4183	836.6	RMC	Right Cheek	0mm	\	9	21.24	22.50	0.544	0.73	0.332	0.44	0.17
0	A1	Head	WCDMA Band 5	4183	836.6	RMC	Right Tilt	0mm	\	\	21.24	22.50	0.438	0.59	0.259	0.35	-0.13
0	B1	Hotspot	WCDMA Band 5	4183	836.6	RMC	Front	10mm	\	\	22.39	23.50	0.191	0.25	0.112	0.14	0.02
0	B1	Hotspot	WCDMA Band 5	4183	836.6	RMC	Rear	10mm	\	\	22.39	23.50	0.293	0.38	0.177	0.23	0.03
0	B1	Hotspot	WCDMA Band 5	4183	836.6	RMC	Left	10mm	\	\	22.39	23.50	0.118	0.15	0.081	0.10	-0.06
0	B1	Hotspot	WCDMA Band 5	4183	836.6	RMC	Right	10mm	\	\	22.39	23.50	0.076	0.10	0.052	0.07	-0.03
0	B1	Hotspot	WCDMA Band 5	4183	836.6	RMC	Top	10mm	\	10	22.39	23.50	0.307	0.40	0.165	0.21	-0.19
0	C1	Body-Worn	WCDMA Band 5	4183	836.6	RMC	Front	15mm	\	\	22.39	23.50	0.128	0.17	0.092	0.12	0.05
0	C1	Body-Worn	WCDMA Band 5	4183	836.6	RMC	Rear	15mm	\	\	22.39	23.50	0.160	0.21	0.101	0.13	-0.01

Table 12.6: LTE Band 2 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
1	A2	Head	LTE Band 2	18700	1860.0	1RB50	Left Cheek	0mm	\	11	22.73	24.00	0.194	0.26	0.129	0.17	-0.03
1	A2	Head	LTE Band 2	18700	1860.0	50RB25	Left Cheek	0mm	\	\	21.69	23.00	0.154	0.21	0.102	0.14	0.14
1	A2	Head	LTE Band 2	18700	1860.0	1RB50	Left Tilt	0mm	\	\	22.73	24.00	0.123	0.16	0.082	0.11	-0.06
1	A2	Head	LTE Band 2	18700	1860.0	50RB25	Left Tilt	0mm	\	\	21.69	23.00	0.094	0.13	0.061	0.08	-0.08
1	A2	Head	LTE Band 2	18700	1860.0	1RB50	Right Cheek	0mm	\	\	22.73	24.00	0.146	0.20	0.099	0.13	-0.11
1	A2	Head	LTE Band 2	18700	1860.0	50RB25	Right Cheek	0mm	\	\	21.69	23.00	0.120	0.16	0.081	0.11	0.07
1	A2	Head	LTE Band 2	18700	1860.0	1RB50	Right Tilt	0mm	\	\	22.73	24.00	0.139	0.19	0.092	0.12	0.06
1	A2	Head	LTE Band 2	18700	1860.0	50RB25	Right Tilt	0mm	\	\	21.69	23.00	0.103	0.14	0.070	0.09	0.16
1	B2	Hotspot	LTE Band 2	18700	1860.0	1RB50	Front	10mm	\	\	18.80	20.00	0.176	0.23	0.109	0.14	0.13
1	B2	Hotspot	LTE Band 2	18700	1860.0	50RB25	Front	10mm	\	\	18.71	20.00	0.182	0.24	0.108	0.15	0.13
1	B2	Hotspot	LTE Band 2	18700	1860.0	1RB50	Rear	10mm	\	\	18.80	20.00	0.330	0.44	0.194	0.26	-0.16
1	B2	Hotspot	LTE Band 2	18700	1860.0	50RB25	Rear	10mm	\	\	18.71	20.00	0.347	0.47	0.201	0.27	-0.12
1	B2	Hotspot	LTE Band 2	18700	1860.0	1RB50	Left	10mm	\	\	18.80	20.00	0.050	0.07	0.030	0.04	-0.12
1	B2	Hotspot	LTE Band 2	18700	1860.0	50RB25	Left	10mm	\	\	18.71	20.00	0.066	0.09	0.036	0.05	0.13
1	B2	Hotspot	LTE Band 2	18700	1860.0	1RB50	Right	10mm	\	\	18.80	20.00	0.159	0.21	0.086	0.11	0.06
1	B2	Hotspot	LTE Band 2	18700	1860.0	50RB25	Right	10mm	\	\	18.71	20.00	0.146	0.20	0.080	0.11	-0.09
1	B2	Hotspot	LTE Band 2	18700	1860.0	1RB50	Bottom	10mm	\	\	18.80	20.00	0.407	0.54	0.223	0.29	0.09
1	B2	Hotspot	LTE Band 2	18700	1860.0	50RB25	Bottom	10mm	\	12	18.71	20.00	0.443	0.60	0.259	0.35	-0.13
1	C2	Body-Worn	LTE Band 2	18700	1860.0	1RB50	Front	15mm	\	\	20.83	22.00	0.169	0.22	0.104	0.14	-0.03
1	C2	Body-Worn	LTE Band 2	18700	1860.0	50RB25	Front	15mm	\	\	20.74	22.00	0.172	0.23	0.107	0.14	-0.17
1	C2	Body-Worn	LTE Band 2	18700	1860.0	1RB50	Rear	15mm	\	\	20.83	22.00	0.294	0.38	0.177	0.23	0.11
1	C2	Body-Worn	LTE Band 2	18700	1860.0	50RB25	Rear	15mm	\	\	20.74	22.00	0.356	0.48	0.227	0.30	0.08

Table 12.7: LTE Band 5 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	A2	Head	LTE Band 5	20600	844.0	1RB49	Left Cheek	0mm	\	\	20.86	21.00	0.454	0.47	0.264	0.27	-0.11
0	A2	Head	LTE Band 5	20450	829.0	25RB25	Left Cheek	0mm	\	\	20.82	21.00	0.437	0.46	0.255	0.27	-0.18
0	A2	Head	LTE Band 5	20600	844.0	1RB49	Left Tilt	0mm	\	\	20.86	21.00	0.344	0.36	0.183	0.19	-0.05
0	A2	Head	LTE Band 5	20450	829.0	25RB25	Left Tilt	0mm	\	\	20.82	21.00	0.326	0.34	0.174	0.18	-0.18
0	A2	Head	LTE Band 5	20600	844.0	1RB49	Right Cheek	0mm	\	13	20.86	21.00	0.470	0.49	0.278	0.29	-0.05
0	A2	Head	LTE Band 5	20450	829.0	25RB25	Right Cheek	0mm	\	\	20.82	21.00	0.454	0.47	0.268	0.28	-0.12
0	A2	Head	LTE Band 5	20600	844.0	1RB49	Right Tilt	0mm	\	\	20.86	21.00	0.377	0.39	0.210	0.22	0.01
0	A2	Head	LTE Band 5	20450	829.0	25RB25	Right Tilt	0mm	\	\	20.82	21.00	0.361	0.38	0.199	0.21	-0.13
0	B2	Hotspot	LTE Band 5	20600	844.0	1RB49	Front	10mm	\	\	23.25	24.00	0.217	0.26	0.116	0.14	-0.08
0	B2	Hotspot	LTE Band 5	20450	829.0	25RB25	Front	10mm	\	\	22.21	23.00	0.219	0.26	0.073	0.09	-0.13
0	B2	Hotspot	LTE Band 5	20600	844.0	1RB49	Rear	10mm	\	14	23.25	24.00	0.303	0.36	0.229	0.27	0.06
0	B2	Hotspot	LTE Band 5	20450	829.0	25RB25	Rear	10mm	\	\	22.21	23.00	0.200	0.24	0.186	0.22	0.08
0	B2	Hotspot	LTE Band 5	20600	844.0	1RB49	Left	10mm	\	\	23.25	24.00	0.223	0.27	0.104	0.12	-0.03
0	B2	Hotspot	LTE Band 5	20450	829.0	25RB25	Left	10mm	\	\	22.21	23.00	0.121	0.15	0.140	0.17	0.02
0	B2	Hotspot	LTE Band 5	20600	844.0	1RB49	Right	10mm	\	\	23.25	24.00	0.196	0.23	0.020	0.02	0.05
0	B2	Hotspot	LTE Band 5	20450	829.0	25RB25	Right	10mm	\	\	22.21	23.00	0.070	0.08	0.003	0.00	-0.01
0	B2	Hotspot	LTE Band 5	20600	844.0	1RB49	Top	10mm	\	\	23.25	24.00	0.265	0.31	0.094	0.11	0.06
0	B2	Hotspot	LTE Band 5	20450	829.0	25RB25	Top	10mm	\	\	22.21	23.00	0.267	0.32	0.094	0.11	-0.09
0	C2	Body-Worn	LTE Band 5	20600	844.0	1RB49	Front	15mm	\	\	23.25	24.00	0.071	0.08	0.082	0.10	0.13
0	C2	Body-Worn	LTE Band 5	20450	829.0	25RB25	Front	15mm	\	\	22.21	23.00	0.069	0.08	0.099	0.12	0.06
0	C2	Body-Worn	LTE Band 5	20600	844.0	1RB49	Rear	15mm	\	\	23.25	24.00	0.143	0.17	0.080	0.10	-0.09
0	C2	Body-Worn	LTE Band 5	20450	829.0	25RB25	Rear	15mm	\	\	22.21	23.00	0.123	0.15	0.059	0.07	0.02

Table 12.8: LTE Band 7 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
4	A1	Head	LTE Band 7	21350	2560.0	1RB99	Left Cheek	0mm	\	\	16.15	17.50	0.188	0.26	0.099	0.14	-0.07
4	A1	Head	LTE Band 7	21350	2560.0	50RB50	Left Cheek	0mm	\	\	16.07	17.50	0.188	0.26	0.099	0.14	0.10
4	A1	Head	LTE Band 7	21350	2560.0	1RB99	Left Tilt	0mm	\	\	16.15	17.50	0.106	0.14	0.055	0.07	0.06
4	A1	Head	LTE Band 7	21350	2560.0	50RB50	Left Tilt	0mm	\	\	16.07	17.50	0.108	0.15	0.055	0.08	0.03
4	A1	Head	LTE Band 7	21350	2560.0	1RB99	Right Cheek	0mm	\	15	16.15	17.50	0.468	0.64	0.218	0.30	0.19
4	A1	Head	LTE Band 7	21350	2560.0	50RB50	Right Cheek	0mm	\	\	16.07	17.50	0.464	0.64	0.216	0.30	0.08
4	A1	Head	LTE Band 7	21350	2560.0	1RB99	Right Tilt	0mm	\	\	16.15	17.50	0.164	0.22	0.083	0.11	-0.07
4	A1	Head	LTE Band 7	21350	2560.0	50RB50	Right Tilt	0mm	\	\	16.07	17.50	0.161	0.22	0.082	0.11	0.16
4	B1	Hotspot	LTE Band 7	21350	2560.0	1RB99	Front	10mm	\	\	17.66	18.50	0.305	0.37	0.159	0.19	0.18
4	B1	Hotspot	LTE Band 7	21350	2560.0	50RB50	Front	10mm	\	\	17.58	18.50	0.306	0.38	0.158	0.20	-0.05
4	B1	Hotspot	LTE Band 7	21350	2560.0	1RB99	Rear	10mm	\	\	17.66	18.50	0.726	0.88	0.353	0.43	-0.15
4	B1	Hotspot	LTE Band 7	21350	2560.0	50RB50	Rear	10mm	\	\	17.58	18.50	0.724	0.89	0.351	0.43	0.16
4	B1	Hotspot	LTE Band 7	21350	2560.0	1RB99	Left	10mm	\	\	17.66	18.50	0.406	0.49	0.208	0.25	0.01
4	B1	Hotspot	LTE Band 7	21350	2560.0	50RB50	Left	10mm	\	\	17.58	18.50	0.412	0.51	0.209	0.26	0.00
4	B1	Hotspot	LTE Band 7	21350	2560.0	1RB99	Top	10mm	\	\	17.66	18.50	0.075	0.09	0.042	0.05	-0.08
4	B1	Hotspot	LTE Band 7	21350	2560.0	50RB50	Top	10mm	\	\	17.58	18.50	0.074	0.09	0.039	0.05	0.19
4	B1	Hotspot	LTE Band 7	21100	2535.0	1RB99	Rear	10mm	\	\	17.34	18.50	0.651	0.85	0.309	0.40	0.00
4	B1	Hotspot	LTE Band 7	20850	2510.0	1RB99	Rear	10mm	\	\	17.17	18.50	0.533	0.72	0.256	0.35	0.01
4	B1	Hotspot	LTE Band 7	21100	2535.0	50RB50	Rear	10mm	\	\	17.29	18.50	0.619	0.82	0.294	0.39	0.10
4	B1	Hotspot	LTE Band 7	20850	2510.0	50RB50	Rear	10mm	\	\	17.27	18.50	0.536	0.71	0.256	0.34	-0.03
4	B1	Hotspot	LTE Band 7	21350	2560.0	100RB	Rear	10mm	\	16	17.51	18.50	0.738	0.93	0.348	0.44	-0.11
4	B2	Hotspot	LTE Band 7	21350	2560.0	1RB99	Front	10mm	\	\	15.96	17.00	0.158	0.20	0.082	0.10	0.15
4	B2	Hotspot	LTE Band 7	21350	2560.0	50RB50	Front	10mm	\	\	15.93	17.00	0.158	0.20	0.081	0.10	-0.01
4	B2	Hotspot	LTE Band 7	21350	2560.0	1RB99	Rear	10mm	\	\	15.96	17.00	0.375	0.48	0.181	0.23	-0.02
4	B2	Hotspot	LTE Band 7	21350	2560.0	50RB50	Rear	10mm	\	\	15.93	17.00	0.374	0.48	0.180	0.23	0.13
4	B2	Hotspot	LTE Band 7	21350	2560.0	1RB99	Left	10mm	\	\	15.96	17.00	0.210	0.27	0.107	0.14	0.15
4	B2	Hotspot	LTE Band 7	21350	2560.0	50RB50	Left	10mm	\	\	15.93	17.00	0.213	0.27	0.107	0.14	-0.13
4	B2	Hotspot	LTE Band 7	21350	2560.0	1RB99	Top	10mm	\	\	15.96	17.00	0.039	0.05	0.022	0.03	0.03
4	B2	Hotspot	LTE Band 7	21350	2560.0	50RB50	Top	10mm	\	\	15.93	17.00	0.038	0.05	0.020	0.03	0.03
4	C1	Body-Worn	LTE Band 7	21350	2560.0	1RB99	Front	15mm	\	\	19.04	19.50	0.182	0.20	0.092	0.10	0.18
4	C1	Body-Worn	LTE Band 7	21350	2560.0	50RB50	Front	15mm	\	\	18.97	19.50	0.179	0.20	0.091	0.10	0.13
4	C1	Body-Worn	LTE Band 7	21350	2560.0	1RB99	Rear	15mm	\	\	19.04	19.50	0.372	0.41	0.194	0.22	-0.15
4	C1	Body-Worn	LTE Band 7	21350	2560.0	50RB50	Rear	15mm	\	\	18.97	19.50	0.346	0.39	0.172	0.19	0.15
4	C2	Body-Worn	LTE Band 7	21350	2560.0	1RB99	Front	15mm	\	\	16.96	18.00	0.102	0.13	0.052	0.07	0.16
4	C2	Body-Worn	LTE Band 7	21350	2560.0	50RB50	Front	15mm	\	\	16.93	18.00	0.101	0.13	0.052	0.07	0.14
4	C2	Body-Worn	LTE Band 7	21350	2560.0	1RB99	Rear	15mm	\	\	16.96	18.00	0.209	0.27	0.110	0.14	-0.12
4	C2	Body-Worn	LTE Band 7	21350	2560.0	50RB50	Rear	15mm	\	\	16.93	18.00	0.194	0.25	0.098	0.12	0.00

Table 12.9: LTE Band 12 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	A1	Head	LTE Band 12	23060	704.0	1RB49	Left Cheek	0mm	\	17	22.95	24.00	0.439	0.56	0.264	0.34	-0.01
0	A1	Head	LTE Band 12	23060	704.0	25RB25	Left Cheek	0mm	\	\	21.90	23.00	0.382	0.49	0.252	0.32	0.07
0	A1	Head	LTE Band 12	23060	704.0	1RB49	Left Tilt	0mm	\	\	22.95	24.00	0.332	0.42	0.197	0.25	0.01
0	A1	Head	LTE Band 12	23060	704.0	25RB25	Left Tilt	0mm	\	\	21.90	23.00	0.258	0.33	0.153	0.20	0.14
0	A1	Head	LTE Band 12	23060	704.0	1RB49	Right Cheek	0mm	\	\	22.95	24.00	0.432	0.55	0.309	0.39	0.10
0	A1	Head	LTE Band 12	23060	704.0	25RB25	Right Cheek	0mm	\	\	21.90	23.00	0.428	0.55	0.277	0.36	0.04
0	A1	Head	LTE Band 12	23060	704.0	1RB49	Right Tilt	0mm	\	\	22.95	24.00	0.374	0.48	0.252	0.32	0.01
0	A1	Head	LTE Band 12	23060	704.0	25RB25	Right Tilt	0mm	\	\	21.90	23.00	0.369	0.48	0.199	0.26	0.08
0	A1	Head	LTE Band 12	23060	704.0	ULCA	Left Cheek	0mm	CA_12B	\	22.88	24.00	0.418	0.54	0.255	0.33	0.07
0	B1/B2	Hotspot	LTE Band 12	23060	704.0	1RB49	Front	10mm	\	\	22.95	24.00	0.127	0.16	0.099	0.13	0.09
0	B1/B2	Hotspot	LTE Band 12	23060	704.0	25RB25	Front	10mm	\	\	21.90	23.00	0.101	0.13	0.078	0.10	0.19
0	B1/B2	Hotspot	LTE Band 12	23060	704.0	1RB49	Rear	10mm	\	\	22.95	24.00	0.188	0.24	0.119	0.15	-0.03
0	B1/B2	Hotspot	LTE Band 12	23060	704.0	25RB25	Rear	10mm	\	\	21.90	23.00	0.145	0.19	0.092	0.12	-0.15
0	B1/B2	Hotspot	LTE Band 12	23060	704.0	1RB49	Left	10mm	\	18	22.95	24.00	0.200	0.25	0.144	0.18	-0.03
0	B1/B2	Hotspot	LTE Band 12	23060	704.0	25RB25	Left	10mm	\	\	21.90	23.00	0.163	0.21	0.116	0.15	-0.10
0	B1/B2	Hotspot	LTE Band 12	23060	704.0	1RB49	Right	10mm	\	\	22.95	24.00	0.117	0.15	0.083	0.11	-0.17
0	B1/B2	Hotspot	LTE Band 12	23060	704.0	25RB25	Right	10mm	\	\	21.90	23.00	0.095	0.12	0.067	0.09	-0.03
0	B1/B2	Hotspot	LTE Band 12	23060	704.0	1RB49	Top	10mm	\	\	22.95	24.00	0.163	0.21	0.090	0.11	-0.07
0	B1/B2	Hotspot	LTE Band 12	23060	704.0	25RB25	Top	10mm	\	\	21.90	23.00	0.133	0.17	0.073	0.09	0.09
0	B1	Hotspot	LTE Band 12	23060	704.0	ULCA	Left	10mm	CA_12B	\	22.88	24.00	0.187	0.24	0.135	0.17	0.12
0	C1/C2	Body-Worn	LTE Band 12	23060	704.0	1RB49	Front	15mm	\	\	22.95	24.00	0.136	0.17	0.099	0.13	0.16
0	C1/C2	Body-Worn	LTE Band 12	23060	704.0	25RB25	Front	15mm	\	\	21.90	23.00	0.109	0.14	0.080	0.10	-0.11
0	C1/C2	Body-Worn	LTE Band 12	23060	704.0	1RB49	Rear	15mm	\	\	22.95	24.00	0.174	0.22	0.137	0.17	-0.19
0	C1/C2	Body-Worn	LTE Band 12	23060	704.0	25RB25	Rear	15mm	\	\	21.90	23.00	0.128	0.16	0.092	0.12	-0.14
0	C1	Body-Worn	LTE Band 12	23060	704.0	ULCA	Rear	15mm	CA_12B	\	22.88	24.00	0.159	0.21	0.123	0.16	0.08

Note: SAR for LTE Band 17 is covered by LTE Band 12 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

Table 12.10: LTE Band 13 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	A1	Head	LTE Band 13	23230	782.0	1RB0	Left Cheek	0mm	\	19	23.01	24.00	0.607	0.76	0.362	0.45	0.09
0	A1	Head	LTE Band 13	23230	782.0	25RB12	Left Cheek	0mm	\	\	21.98	23.00	0.503	0.64	0.299	0.38	-0.03
0	A1	Head	LTE Band 13	23230	782.0	1RB0	Left Tilt	0mm	\	\	23.01	24.00	0.458	0.58	0.269	0.34	0.08
0	A1	Head	LTE Band 13	23230	782.0	25RB12	Left Tilt	0mm	\	\	21.98	23.00	0.372	0.47	0.220	0.28	0.11
0	A1	Head	LTE Band 13	23230	782.0	1RB0	Right Cheek	0mm	\	\	23.01	24.00	0.605	0.76	0.380	0.48	0.04
0	A1	Head	LTE Band 13	23230	782.0	25RB12	Right Cheek	0mm	\	\	21.98	23.00	0.511	0.65	0.300	0.38	-0.04
0	A1	Head	LTE Band 13	23230	782.0	1RB0	Right Tilt	0mm	\	\	23.01	24.00	0.421	0.53	0.285	0.36	0.05
0	A1	Head	LTE Band 13	23230	782.0	25RB12	Right Tilt	0mm	\	\	21.98	23.00	0.385	0.49	0.233	0.29	0.06
0	A2	Head	LTE Band 13	23230	782.0	1RB0	Left Cheek	0mm	\	\	19.66	21.00	0.269	0.37	0.161	0.22	0.18
0	A2	Head	LTE Band 13	23230	782.0	25RB12	Left Cheek	0mm	\	\	19.59	21.00	0.223	0.31	0.133	0.18	0.04
0	A2	Head	LTE Band 13	23230	782.0	1RB0	Left Tilt	0mm	\	\	19.66	21.00	0.203	0.28	0.120	0.16	-0.13
0	A2	Head	LTE Band 13	23230	782.0	25RB12	Left Tilt	0mm	\	\	19.59	21.00	0.165	0.23	0.098	0.14	0.18
0	A2	Head	LTE Band 13	23230	782.0	1RB0	Right Cheek	0mm	\	\	19.66	21.00	0.268	0.36	0.169	0.23	-0.05
0	A2	Head	LTE Band 13	23230	782.0	25RB12	Right Cheek	0mm	\	\	19.59	21.00	0.226	0.31	0.133	0.18	-0.07
0	A2	Head	LTE Band 13	23230	782.0	1RB0	Right Tilt	0mm	\	\	19.66	21.00	0.187	0.25	0.127	0.17	-0.14
0	A2	Head	LTE Band 13	23230	782.0	25RB12	Right Tilt	0mm	\	\	19.59	21.00	0.171	0.24	0.104	0.14	-0.14
0	B1/B2	Hotspot	LTE Band 13	23230	782.0	1RB0	Front	10mm	\	\	23.01	24.00	0.180	0.23	0.110	0.14	0.14
0	B1/B2	Hotspot	LTE Band 13	23230	782.0	25RB12	Front	10mm	\	\	21.98	23.00	0.147	0.19	0.090	0.11	-0.05
0	B1/B2	Hotspot	LTE Band 13	23230	782.0	1RB0	Rear	10mm	\	20	23.01	24.00	0.294	0.37	0.178	0.22	-0.05
0	B1/B2	Hotspot	LTE Band 13	23230	782.0	25RB12	Rear	10mm	\	\	21.98	23.00	0.226	0.29	0.137	0.17	-0.18
0	B1/B2	Hotspot	LTE Band 13	23230	782.0	1RB0	Left	10mm	\	\	23.01	24.00	0.210	0.26	0.144	0.18	0.01
0	B1/B2	Hotspot	LTE Band 13	23230	782.0	25RB12	Left	10mm	\	\	21.98	23.00	0.161	0.20	0.111	0.14	0.04
0	B1/B2	Hotspot	LTE Band 13	23230	782.0	1RB0	Right	10mm	\	\	23.01	24.00	0.101	0.13	0.070	0.09	0.10
0	B1/B2	Hotspot	LTE Band 13	23230	782.0	25RB12	Right	10mm	\	\	21.98	23.00	0.079	0.10	0.054	0.07	-0.19
0	B1/B2	Hotspot	LTE Band 13	23230	782.0	1RB0	Top	10mm	\	\	23.01	24.00	0.273	0.34	0.146	0.18	0.02
0	B1/B2	Hotspot	LTE Band 13	23230	782.0	25RB12	Top	10mm	\	\	21.98	23.00	0.218	0.28	0.115	0.15	0.16
0	C1/C2	Body-Worn	LTE Band 13	23230	782.0	1RB0	Front	15mm	\	\	23.01	24.00	0.160	0.20	0.117	0.15	-0.01
0	C1/C2	Body-Worn	LTE Band 13	23230	782.0	25RB12	Front	15mm	\	\	21.98	23.00	0.110	0.14	0.080	0.10	-0.06
0	C1/C2	Body-Worn	LTE Band 13	23230	782.0	1RB0	Rear	15mm	\	\	23.01	24.00	0.186	0.23	0.147	0.18	-0.05
0	C1/C2	Body-Worn	LTE Band 13	23230	782.0	25RB12	Rear	15mm	\	\	21.98	23.00	0.135	0.17	0.097	0.12	0.05

Table 12.11: LTE Band 14 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	A1	Head	LTE Band 14	23330	793.0	1RB24	Left Cheek	0mm	\	21	23.24	24.00	0.665	0.79	0.392	0.47	0.18
0	A1	Head	LTE Band 14	23330	793.0	25RB12	Left Cheek	0mm	\	\	22.22	23.00	0.523	0.63	0.309	0.37	0.01
0	A1	Head	LTE Band 14	23330	793.0	1RB24	Left Tilt	0mm	\	\	23.24	24.00	0.518	0.62	0.286	0.34	-0.02
0	A1	Head	LTE Band 14	23330	793.0	25RB12	Left Tilt	0mm	\	\	22.22	23.00	0.407	0.49	0.225	0.27	0.07
0	A1	Head	LTE Band 14	23330	793.0	1RB24	Right Cheek	0mm	\	\	23.24	24.00	0.662	0.79	0.402	0.48	-0.19
0	A1	Head	LTE Band 14	23330	793.0	25RB12	Right Cheek	0mm	\	\	22.22	23.00	0.520	0.62	0.316	0.38	0.12
0	A1	Head	LTE Band 14	23330	793.0	1RB24	Right Tilt	0mm	\	\	23.24	24.00	0.582	0.69	0.332	0.40	-0.01
0	A1	Head	LTE Band 14	23330	793.0	25RB12	Right Tilt	0mm	\	\	22.22	23.00	0.457	0.55	0.261	0.31	0.19
0	B1/B2	Hotspot	LTE Band 14	23330	793.0	1RB24	Front	10mm	\	\	23.24	24.00	0.197	0.23	0.116	0.14	0.11
0	B1/B2	Hotspot	LTE Band 14	23330	793.0	25RB12	Front	10mm	\	\	22.22	23.00	0.150	0.18	0.090	0.11	-0.03
0	B1/B2	Hotspot	LTE Band 14	23330	793.0	1RB24	Rear	10mm	\	22	23.24	24.00	0.340	0.41	0.204	0.24	0.09
0	B1/B2	Hotspot	LTE Band 14	23330	793.0	25RB12	Rear	10mm	\	\	22.22	23.00	0.250	0.30	0.143	0.17	-0.06
0	B1/B2	Hotspot	LTE Band 14	23330	793.0	1RB24	Left	10mm	\	\	23.24	24.00	0.253	0.30	0.168	0.20	-0.14
0	B1/B2	Hotspot	LTE Band 14	23330	793.0	25RB12	Left	10mm	\	\	22.22	23.00	0.195	0.23	0.130	0.16	0.09
0	B1/B2	Hotspot	LTE Band 14	23330	793.0	1RB24	Right	10mm	\	\	23.24	24.00	0.112	0.13	0.074	0.09	0.19
0	B1/B2	Hotspot	LTE Band 14	23330	793.0	25RB12	Right	10mm	\	\	22.22	23.00	0.089	0.11	0.059	0.07	-0.12
0	B1/B2	Hotspot	LTE Band 14	23330	793.0	1RB24	Top	10mm	\	\	23.24	24.00	0.331	0.39	0.177	0.21	-0.05
0	B1/B2	Hotspot	LTE Band 14	23330	793.0	25RB12	Top	10mm	\	\	22.22	23.00	0.267	0.32	0.138	0.17	-0.14
0	C1/C2	Body-Worn	LTE Band 14	23330	793.0	1RB24	Front	15mm	\	\	23.24	24.00	0.169	0.20	0.123	0.15	-0.09
0	C1/C2	Body-Worn	LTE Band 14	23330	793.0	25RB12	Front	15mm	\	\	22.22	23.00	0.132	0.16	0.096	0.11	0.11
0	C1/C2	Body-Worn	LTE Band 14	23330	793.0	1RB24	Rear	15mm	\	\	23.24	24.00	0.228	0.27	0.180	0.21	-0.01
0	C1/C2	Body-Worn	LTE Band 14	23330	793.0	25RB12	Rear	15mm	\	\	22.22	23.00	0.171	0.20	0.123	0.15	0.10

Table 12.12: LTE Band 25 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1	Head	LTE Band 25	26140	1860.0	1RB0	Left Cheek	0mm	\	23	17.49	18.50	0.403	0.51	0.227	0.29	-0.19
2	A1	Head	LTE Band 25	26140	1860.0	50RB50	Left Cheek	0mm	\	\	17.51	18.50	0.396	0.50	0.228	0.29	-0.14
2	A1	Head	LTE Band 25	26140	1860.0	1RB0	Left Tilt	0mm	\	\	17.49	18.50	0.153	0.19	0.093	0.12	0.02
2	A1	Head	LTE Band 25	26140	1860.0	50RB50	Left Tilt	0mm	\	\	17.51	18.50	0.148	0.19	0.089	0.11	0.05
2	A1	Head	LTE Band 25	26140	1860.0	1RB0	Right Cheek	0mm	\	\	17.49	18.50	0.205	0.26	0.136	0.17	0.02
2	A1	Head	LTE Band 25	26140	1860.0	50RB50	Right Cheek	0mm	\	\	17.51	18.50	0.189	0.24	0.125	0.16	-0.10
2	A1	Head	LTE Band 25	26140	1860.0	1RB0	Right Tilt	0mm	\	\	17.49	18.50	0.175	0.22	0.107	0.14	-0.10
2	A1	Head	LTE Band 25	26140	1860.0	50RB50	Right Tilt	0mm	\	\	17.51	18.50	0.165	0.21	0.100	0.13	0.16
2	B1	Hotspot	LTE Band 25	26140	1860.0	1RB0	Front	10mm	\	\	20.48	21.50	0.213	0.27	0.138	0.17	-0.11
2	B1	Hotspot	LTE Band 25	26140	1860.0	50RB50	Front	10mm	\	\	20.50	21.50	0.201	0.25	0.132	0.17	-0.19
2	B1	Hotspot	LTE Band 25	26140	1860.0	1RB0	Rear	10mm	\	\	20.48	21.50	0.492	0.62	0.264	0.33	0.13
2	B1	Hotspot	LTE Band 25	26140	1860.0	50RB50	Rear	10mm	\	24	20.50	21.50	0.501	0.63	0.268	0.34	0.12
2	B1	Hotspot	LTE Band 25	26140	1860.0	1RB0	Right	10mm	\	\	20.48	21.50	0.294	0.37	0.158	0.20	0.05
2	B1	Hotspot	LTE Band 25	26140	1860.0	50RB50	Right	10mm	\	\	20.50	21.50	0.306	0.39	0.166	0.21	0.05
2	B1	Hotspot	LTE Band 25	26140	1860.0	1RB0	Top	10mm	\	\	20.48	21.50	0.213	0.27	0.124	0.16	0.06
2	B1	Hotspot	LTE Band 25	26140	1860.0	50RB50	Top	10mm	\	\	20.50	21.50	0.225	0.28	0.130	0.16	0.07
2	C1	Body-Worn	LTE Band 25	26140	1860.0	1RB0	Front	15mm	\	\	21.55	22.50	0.157	0.20	0.106	0.13	0.03
2	C1	Body-Worn	LTE Band 25	26140	1860.0	50RB50	Front	15mm	\	\	21.55	22.50	0.147	0.18	0.100	0.12	-0.07
2	C1	Body-Worn	LTE Band 25	26140	1860.0	1RB0	Rear	15mm	\	\	21.55	22.50	0.249	0.31	0.151	0.19	0.03
2	C1	Body-Worn	LTE Band 25	26140	1860.0	50RB50	Rear	15mm	\	\	21.55	22.50	0.258	0.32	0.152	0.19	-0.17

Note: SAR for LTE Band 2 is covered by LTE Band 25 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

Table 12.13: LTE Band 26 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	A1	Head	LTE Band 26	26775	822.5	1RB74	Left Cheek	0mm	\	\	22.33	23.00	0.606	0.71	0.363	0.42	-0.12
0	A1	Head	LTE Band 26	26775	822.5	36RB38	Left Cheek	0mm	\	\	22.17	23.00	0.583	0.71	0.350	0.42	0.08
0	A1	Head	LTE Band 26	26775	822.5	1RB74	Left Tilt	0mm	\	\	22.33	23.00	0.459	0.54	0.252	0.29	-0.17
0	A1	Head	LTE Band 26	26775	822.5	36RB38	Left Tilt	0mm	\	\	22.17	23.00	0.435	0.53	0.239	0.29	-0.02
0	A1	Head	LTE Band 26	26775	822.5	1RB74	Right Cheek	0mm	\	25	22.33	23.00	0.627	0.73	0.382	0.45	-0.07
0	A1	Head	LTE Band 26	26775	822.5	36RB38	Right Cheek	0mm	\	\	22.17	23.00	0.606	0.73	0.368	0.45	-0.08
0	A1	Head	LTE Band 26	26775	822.5	1RB74	Right Tilt	0mm	\	\	22.33	23.00	0.503	0.59	0.288	0.34	0.16
0	A1	Head	LTE Band 26	26775	822.5	36RB38	Right Tilt	0mm	\	\	22.17	23.00	0.482	0.58	0.274	0.33	0.10
0	B1	Hotspot	LTE Band 26	26775	822.5	1RB74	Front	10mm	\	\	23.29	24.00	0.217	0.26	0.126	0.15	0.02
0	B1	Hotspot	LTE Band 26	26775	822.5	36RB38	Front	10mm	\	\	22.19	23.00	0.159	0.19	0.093	0.11	0.13
0	B1	Hotspot	LTE Band 26	26775	822.5	1RB74	Rear	10mm	\	26	23.29	24.00	0.343	0.40	0.209	0.25	0.14
0	B1	Hotspot	LTE Band 26	26775	822.5	36RB38	Rear	10mm	\	\	22.19	23.00	0.230	0.28	0.136	0.16	-0.16
0	B1	Hotspot	LTE Band 26	26775	822.5	1RB74	Left	10mm	\	\	23.29	24.00	0.203	0.24	0.134	0.16	0.08
0	B1	Hotspot	LTE Band 26	26775	822.5	36RB38	Left	10mm	\	\	22.19	23.00	0.151	0.18	0.100	0.12	0.17
0	B1	Hotspot	LTE Band 26	26775	822.5	1RB74	Right	10mm	\	\	23.29	24.00	0.106	0.12	0.070	0.08	-0.12
0	B1	Hotspot	LTE Band 26	26775	822.5	36RB38	Right	10mm	\	\	22.19	23.00	0.080	0.10	0.053	0.06	0.06
0	B1	Hotspot	LTE Band 26	26775	822.5	1RB74	Top	10mm	\	\	23.29	24.00	0.285	0.34	0.144	0.17	0.16
0	B1	Hotspot	LTE Band 26	26775	822.5	36RB38	Top	10mm	\	\	22.19	23.00	0.207	0.25	0.104	0.13	-0.02
0	C1	Body-Worn	LTE Band 26	26775	822.5	1RB74	Front	15mm	\	\	23.29	24.00	0.141	0.17	0.102	0.12	-0.11
0	C1	Body-Worn	LTE Band 26	26775	822.5	36RB38	Front	15mm	\	\	22.19	23.00	0.109	0.13	0.079	0.09	0.16
0	C1	Body-Worn	LTE Band 26	26775	822.5	1RB74	Rear	15mm	\	\	23.29	24.00	0.158	0.19	0.100	0.12	0.18
0	C1	Body-Worn	LTE Band 26	26775	822.5	36RB38	Rear	15mm	\	\	22.19	23.00	0.123	0.15	0.089	0.11	-0.05

Note: SAR for LTE Band 5 is covered by LTE Band 26 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

Table 12.14: LTE Band 30 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
6	A1	Head	LTE Band 30	27710	2310.0	1RB24	Left Cheek	0mm	\	\	18.02	19.00	0.059	0.07	0.035	0.04	0.09
6	A1	Head	LTE Band 30	27710	2310.0	25RB12	Left Cheek	0mm	\	\	17.93	19.00	0.059	0.08	0.035	0.05	-0.04
6	A1	Head	LTE Band 30	27710	2310.0	1RB24	Left Tilt	0mm	\	\	18.02	19.00	0.043	0.05	0.023	0.03	-0.02
6	A1	Head	LTE Band 30	27710	2310.0	25RB12	Left Tilt	0mm	\	\	17.93	19.00	0.042	0.05	0.023	0.03	0.02
6	A1	Head	LTE Band 30	27710	2310.0	1RB24	Right Cheek	0mm	\	27	18.02	19.00	0.627	0.79	0.334	0.42	-0.14
6	A1	Head	LTE Band 30	27710	2310.0	25RB12	Right Cheek	0mm	\	\	17.93	19.00	0.610	0.78	0.331	0.42	-0.07
6	A1	Head	LTE Band 30	27710	2310.0	1RB24	Right Tilt	0mm	\	\	18.02	19.00	0.314	0.39	0.171	0.21	-0.07
6	A1	Head	LTE Band 30	27710	2310.0	25RB12	Right Tilt	0mm	\	\	17.93	19.00	0.314	0.40	0.172	0.22	-0.02
6	B1	Hotspot	LTE Band 30	27710	2310.0	1RB24	Front	10mm	\	\	18.99	20.00	0.201	0.25	0.116	0.15	0.13
6	B1	Hotspot	LTE Band 30	27710	2310.0	25RB12	Front	10mm	\	\	18.93	20.00	0.195	0.25	0.114	0.15	-0.13
6	B1	Hotspot	LTE Band 30	27710	2310.0	1RB24	Rear	10mm	\	28	18.99	20.00	0.571	0.72	0.290	0.37	0.03
6	B1	Hotspot	LTE Band 30	27710	2310.0	25RB12	Rear	10mm	\	\	18.93	20.00	0.563	0.72	0.288	0.37	0.03
6	B1	Hotspot	LTE Band 30	27710	2310.0	1RB24	Left	10mm	\	\	18.99	20.00	0.250	0.32	0.137	0.17	0.16
6	B1	Hotspot	LTE Band 30	27710	2310.0	25RB12	Left	10mm	\	\	18.93	20.00	0.253	0.32	0.140	0.18	0.07
6	B1	Hotspot	LTE Band 30	27710	2310.0	1RB24	Top	10mm	\	\	18.99	20.00	0.138	0.17	0.076	0.10	-0.02
6	B1	Hotspot	LTE Band 30	27710	2310.0	25RB12	Top	10mm	\	\	18.93	20.00	0.136	0.17	0.075	0.10	0.11
6	B2	Hotspot	LTE Band 30	27710	2310.0	1RB24	Front	10mm	\	\	14.46	15.00	0.087	0.10	0.050	0.06	0.14
6	B2	Hotspot	LTE Band 30	27710	2310.0	25RB12	Front	10mm	\	\	14.36	15.00	0.084	0.10	0.049	0.06	-0.19
6	B2	Hotspot	LTE Band 30	27710	2310.0	1RB24	Rear	10mm	\	\	14.46	15.00	0.246	0.28	0.124	0.14	0.16
6	B2	Hotspot	LTE Band 30	27710	2310.0	25RB12	Rear	10mm	\	\	14.36	15.00	0.243	0.28	0.123	0.14	0.08
6	B2	Hotspot	LTE Band 30	27710	2310.0	1RB24	Left	10mm	\	\	14.46	15.00	0.108	0.12	0.059	0.07	0.15
6	B2	Hotspot	LTE Band 30	27710	2310.0	25RB12	Left	10mm	\	\	14.36	15.00	0.109	0.13	0.060	0.07	-0.12
6	B2	Hotspot	LTE Band 30	27710	2310.0	1RB24	Top	10mm	\	\	14.46	15.00	0.060	0.07	0.033	0.04	-0.09
6	B2	Hotspot	LTE Band 30	27710	2310.0	25RB12	Top	10mm	\	\	14.36	15.00	0.059	0.07	0.032	0.04	0.19
6	C1	Body-Worn	LTE Band 30	27710	2310.0	1RB24	Front	15mm	\	\	18.99	20.00	0.166	0.21	0.098	0.12	0.05
6	C1	Body-Worn	LTE Band 30	27710	2310.0	25RB12	Front	15mm	\	\	18.93	20.00	0.145	0.19	0.085	0.11	0.11
6	C1	Body-Worn	LTE Band 30	27710	2310.0	1RB24	Rear	15mm	\	\	18.99	20.00	0.446	0.56	0.212	0.27	0.02
6	C1	Body-Worn	LTE Band 30	27710	2310.0	25RB12	Rear	15mm	\	\	18.93	20.00	0.415	0.53	0.193	0.25	0.08
6	C2	Body-Worn	LTE Band 30	27710	2310.0	1RB24	Front	15mm	\	\	17.48	18.00	0.097	0.11	0.058	0.07	0.08
6	C2	Body-Worn	LTE Band 30	27710	2310.0	25RB12	Front	15mm	\	\	17.41	18.00	0.096	0.11	0.057	0.06	-0.13
6	C2	Body-Worn	LTE Band 30	27710	2310.0	1RB24	Rear	15mm	\	\	17.48	18.00	0.226	0.25	0.123	0.14	0.15
6	C2	Body-Worn	LTE Band 30	27710	2310.0	25RB12	Rear	15mm	\	\	17.41	18.00	0.218	0.25	0.118	0.14	0.19

Table 12.15: LTE Band 41 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
4	A1	Head	LTE Band 41 PC3	40620	2593.0	1RB50	Left Cheek	0mm	\	\	16.98	18.00	0.153	0.19	0.083	0.10	-0.06
4	A1	Head	LTE Band 41 PC3	40620	2593.0	50RB25	Left Cheek	0mm	\	\	16.93	18.00	0.150	0.19	0.082	0.10	0.08
4	A1	Head	LTE Band 41 PC3	40620	2593.0	1RB50	Left Tilt	0mm	\	\	16.98	18.00	0.104	0.13	0.053	0.07	-0.05
4	A1	Head	LTE Band 41 PC3	40620	2593.0	50RB25	Left Tilt	0mm	\	\	16.93	18.00	0.103	0.13	0.052	0.07	-0.04
4	A1	Head	LTE Band 41 PC3	40620	2593.0	1RB50	Right Cheek	0mm	\	\	16.98	18.00	0.402	0.51	0.189	0.24	0.02
4	A1	Head	LTE Band 41 PC3	40620	2593.0	50RB25	Right Cheek	0mm	\	\	16.93	18.00	0.389	0.50	0.182	0.23	-0.12
4	A1	Head	LTE Band 41 PC3	40620	2593.0	1RB50	Right Tilt	0mm	\	\	16.98	18.00	0.141	0.18	0.072	0.09	0.00
4	A1	Head	LTE Band 41 PC3	40620	2593.0	50RB25	Right Tilt	0mm	\	\	16.93	18.00	0.140	0.18	0.072	0.09	-0.08
4	A1	Head	LTE Band 41 PC3	40620	2593.0	ULCA	Right Cheek	0mm	CA_41C	\	16.92	18.00	0.386	0.49	0.178	0.23	0.08
4	A1	Head	LTE Band 41 PC3	40620	2593.0	ULCA	Right Cheek	0mm	CA_41B	\	16.88	18.00	0.374	0.48	0.171	0.22	-0.11
4	A1	Head	LTE Band 41 PC2	40620	2593.0	1RB50	Right Cheek	0mm	\	29	19.94	21.00	0.586	0.75	0.278	0.35	-0.02
4	B1	Hotspot	LTE Band 41 PC3	40620	2593.0	1RB50	Front	10mm	\	\	18.82	20.00	0.395	0.52	0.134	0.18	-0.02
4	B1	Hotspot	LTE Band 41 PC3	40620	2593.0	50RB25	Front	10mm	\	\	18.88	20.00	0.390	0.50	0.134	0.17	0.01
4	B1	Hotspot	LTE Band 41 PC3	40620	2593.0	1RB50	Rear	10mm	\	\	18.82	20.00	0.650	0.85	0.229	0.30	-0.10
4	B1	Hotspot	LTE Band 41 PC3	40620	2593.0	50RB25	Rear	10mm	\	\	18.88	20.00	0.665	0.86	0.230	0.30	-0.06
4	B1	Hotspot	LTE Band 41 PC3	40620	2593.0	1RB50	Left	10mm	\	\	18.82	20.00	0.443	0.58	0.150	0.20	-0.11
4	B1	Hotspot	LTE Band 41 PC3	40620	2593.0	50RB25	Left	10mm	\	\	18.88	20.00	0.448	0.58	0.152	0.20	0.01
4	B1	Hotspot	LTE Band 41 PC3	40620	2593.0	1RB50	Top	10mm	\	\	18.82	20.00	0.080	0.10	0.032	0.04	0.00
4	B1	Hotspot	LTE Band 41 PC3	40620	2593.0	50RB25	Top	10mm	\	\	18.88	20.00	0.078	0.10	0.032	0.04	0.13
4	B1	Hotspot	LTE Band 41 PC3	41490	2680.0	1RB50	Rear	10mm	\	\	18.81	20.00	0.472	0.62	0.228	0.30	-0.06
4	B1	Hotspot	LTE Band 41 PC3	41055	2635.5	1RB50	Rear	10mm	\	\	18.56	20.00	0.578	0.81	0.277	0.39	0.07
4	B1	Hotspot	LTE Band 41 PC3	40185	2549.5	1RB50	Rear	10mm	\	\	18.34	20.00	0.590	0.86	0.294	0.43	-0.15
4	B1	Hotspot	LTE Band 41 PC3	39750	2506.0	1RB50	Rear	10mm	\	\	18.35	20.00	0.456	0.67	0.223	0.33	-0.09
4	B1	Hotspot	LTE Band 41 PC3	41490	2680.0	50RB25	Rear	10mm	\	\	18.84	20.00	0.476	0.62	0.226	0.30	0.16
4	B1	Hotspot	LTE Band 41 PC3	41055	2635.5	50RB25	Rear	10mm	\	\	18.62	20.00	0.581	0.80	0.277	0.38	-0.13
4	B1	Hotspot	LTE Band 41 PC3	40185	2549.5	50RB25	Rear	10mm	\	\	18.45	20.00	0.602	0.86	0.293	0.42	0.08
4	B1	Hotspot	LTE Band 41 PC3	39750	2506.0	50RB25	Rear	10mm	\	\	18.42	20.00	0.468	0.67	0.228	0.33	0.13
4	B1	Hotspot	LTE Band 41 PC3	41490	2680.0	100RB	Rear	10mm	\	\	18.83	20.00	0.475	0.62	0.224	0.29	-0.15
4	B1	Hotspot	LTE Band 41 PC3	40620	2593.0	ULCA	Rear	10mm	CA_41C	\	18.74	20.00	0.635	0.85	0.220	0.29	0.06
4	B1	Hotspot	LTE Band 41 PC3	40620	2593.0	ULCA	Rear	10mm	CA_41B	\	18.81	20.00	0.622	0.82	0.204	0.27	0.03
4	B1	Hotspot	LTE Band 41 PC2	40620	2593.0	50RB25	Rear	10mm	\	30	21.71	23.00	0.885	1.19	0.410	0.55	0.15
4	B1	Hotspot	LTE Band 41 PC2	40620	2593.0	50RB25	Rear	10mm	SIM2	\	21.71	23.00	0.870	1.17	0.399	0.54	-0.08
4	B1	Hotspot	LTE Band 41 PC2	40620	2593.0	50RB25	Rear	10mm	B2	\	21.71	23.00	0.759	1.02	0.366	0.49	0.10
4	C1	Body-Worn	LTE Band 41 PC3	40620	2593.0	1RB50	Front	15mm	\	\	18.82	20.00	0.208	0.27	0.115	0.15	0.15
4	C1	Body-Worn	LTE Band 41 PC3	40620	2593.0	50RB25	Front	15mm	\	\	18.88	20.00	0.204	0.26	0.114	0.15	-0.05
4	C1	Body-Worn	LTE Band 41 PC3	40620	2593.0	1RB50	Rear	15mm	\	\	18.82	20.00	0.473	0.62	0.247	0.32	0.09
4	C1	Body-Worn	LTE Band 41 PC3	40620	2593.0	50RB25	Rear	15mm	\	\	18.88	20.00	0.472	0.61	0.246	0.32	0.04
4	C1	Body-Worn	LTE Band 41 PC3	40620	2593.0	ULCA	Rear	15mm	CA_41C	\	18.74	20.00	0.455	0.61	0.239	0.32	0.07
4	C1	Body-Worn	LTE Band 41 PC3	40620	2593.0	ULCA	Rear	15mm	CA_41B	\	18.81	20.00	0.441	0.58	0.224	0.29	0.12
4	C1	Body-Worn	LTE Band 41 PC2	40620	2593.0	1RB50	Rear	15mm	\	\	21.66	23.00	0.577	0.79	0.311	0.42	0.02
4	C1	Body-Worn	LTE Band 41 PC2	40620	2593.0	1RB50	Rear	15mm	SIM2	\	21.66	23.00	0.562	0.77	0.280	0.38	0.06
4	C1	Body-Worn	LTE Band 41 PC2	40620	2593.0	1RB50	Rear	15mm	B2	\	21.66	23.00	0.431	0.59	0.228	0.31	0.12

Note: SAR for LTE Band 38 is covered by LTE Band 41 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

Table 12.16: LTE Band 48 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1	Head	LTE Band 48	56640	3690.0	1RB0	Left Cheek	0mm	\	\	19.66	21.00	0.599	0.82	0.271	0.37	-0.04
2	A1	Head	LTE Band 48	56640	3690.0	50RB0	Left Cheek	0mm	\	\	19.74	21.00	0.547	0.73	0.250	0.33	-0.10
2	A1	Head	LTE Band 48	56640	3690.0	1RB0	Left Tilt	0mm	\	\	19.66	21.00	0.322	0.44	0.146	0.20	-0.12
2	A1	Head	LTE Band 48	56640	3690.0	50RB0	Left Tilt	0mm	\	\	19.74	21.00	0.315	0.42	0.143	0.19	-0.14
2	A1	Head	LTE Band 48	56640	3690.0	1RB0	Right Cheek	0mm	\	\	19.66	21.00	0.187	0.25	0.091	0.12	0.13
2	A1	Head	LTE Band 48	56640	3690.0	50RB0	Right Cheek	0mm	\	\	19.74	21.00	0.185	0.25	0.090	0.12	-0.03
2	A1	Head	LTE Band 48	56640	3690.0	1RB0	Right Tilt	0mm	\	\	19.66	21.00	0.161	0.22	0.079	0.11	0.16
2	A1	Head	LTE Band 48	56640	3690.0	50RB0	Right Tilt	0mm	\	\	19.74	21.00	0.158	0.21	0.077	0.10	0.08
2	A1	Head	LTE Band 48	56207	3646.7	1RB0	Left Cheek	0mm	\	31	19.30	21.00	0.606	0.90	0.277	0.41	-0.02
2	A1	Head	LTE Band 48	55773	3603.3	1RB0	Left Cheek	0mm	\	\	19.31	21.00	0.584	0.86	0.267	0.39	0.00
2	A1	Head	LTE Band 48	55340	3560.0	1RB0	Left Cheek	0mm	\	\	19.65	21.00	0.555	0.76	0.255	0.35	0.02
2	A1	Head	LTE Band 48	56640	3690.0	100RB	Left Cheek	0mm	\	\	19.72	21.00	0.576	0.77	0.262	0.35	-0.10
2	A1	Head	LTE Band 48	56640	3690.0	ULCA	Left Cheek	0mm	CA_48C	\	19.59	21.00	0.567	0.78	0.249	0.34	-0.05
2	A1	Head	LTE Band 48	56690	3695.0	ULCA	Left Cheek	0mm	CA_48B	\	19.60	21.00	0.585	0.81	0.261	0.36	0.14
2	B1/B2	Hotspot	LTE Band 48	56640	3690.0	1RB0	Front	10mm	\	\	18.62	19.50	0.129	0.16	0.063	0.08	0.00
2	B1/B2	Hotspot	LTE Band 48	56640	3690.0	50RB0	Front	10mm	\	\	18.49	19.50	0.125	0.16	0.062	0.08	-0.19
2	B1/B2	Hotspot	LTE Band 48	56640	3690.0	1RB0	Rear	10mm	\	\	18.62	19.50	0.328	0.40	0.142	0.17	0.04
2	B1/B2	Hotspot	LTE Band 48	56640	3690.0	50RB0	Rear	10mm	\	32	18.49	19.50	0.329	0.42	0.142	0.18	0.05
2	B1/B2	Hotspot	LTE Band 48	56640	3690.0	1RB0	Left	10mm	\	\	18.62	19.50	0.025	0.03	0.010	0.01	-0.04
2	B1/B2	Hotspot	LTE Band 48	56640	3690.0	50RB0	Left	10mm	\	\	18.49	19.50	0.037	0.05	0.013	0.02	-0.19
2	B1/B2	Hotspot	LTE Band 48	56640	3690.0	1RB0	Top	10mm	\	\	18.62	19.50	0.049	0.06	0.023	0.03	-0.09

Table 12.17: LTE Band 66 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1	Head	LTE Band 66	132322	1745.0	1RB0	Left Cheek	0mm	\	\	18.41	19.50	0.546	0.70	0.326	0.42	-0.05
2	A1	Head	LTE Band 66	132322	1745.0	50RB0	Left Cheek	0mm	\	33	18.46	19.50	0.557	0.71	0.332	0.42	-0.04
2	A1	Head	LTE Band 66	132322	1745.0	1RB0	Left Tilt	0mm	\	\	18.41	19.50	0.229	0.29	0.146	0.19	0.02
2	A1	Head	LTE Band 66	132322	1745.0	50RB0	Left Tilt	0mm	\	\	18.46	19.50	0.234	0.30	0.150	0.19	0.11
2	A1	Head	LTE Band 66	132322	1745.0	1RB0	Right Cheek	0mm	\	\	18.41	19.50	0.283	0.36	0.187	0.24	-0.01
2	A1	Head	LTE Band 66	132322	1745.0	50RB0	Right Cheek	0mm	\	\	18.46	19.50	0.285	0.36	0.194	0.25	0.09
2	A1	Head	LTE Band 66	132322	1745.0	1RB0	Right Tilt	0mm	\	\	18.41	19.50	0.242	0.31	0.151	0.19	-0.02
2	A1	Head	LTE Band 66	132322	1745.0	50RB0	Right Tilt	0mm	\	\	18.46	19.50	0.248	0.32	0.156	0.20	-0.08
2	A1	Head	LTE Band 66	132322	1745.0	ULCA	Left Cheek	0mm	CA_66C	\	18.35	19.50	0.528	0.69	0.306	0.40	0.02
2	A1	Head	LTE Band 66	132322	1745.0	ULCA	Left Cheek	0mm	CA_66B	\	18.42	19.50	0.537	0.69	0.319	0.41	0.11
2	A2	Head	LTE Band 66	132322	1745.0	1RB0	Left Cheek	0mm	\	\	16.74	18.00	0.442	0.59	0.261	0.35	0.09
2	A2	Head	LTE Band 66	132322	1745.0	50RB0	Left Cheek	0mm	\	\	16.81	18.00	0.451	0.59	0.266	0.35	0.01
2	A2	Head	LTE Band 66	132322	1745.0	1RB0	Left Tilt	0mm	\	\	16.74	18.00	0.185	0.25	0.117	0.16	-0.15
2	A2	Head	LTE Band 66	132322	1745.0	50RB0	Left Tilt	0mm	\	\	16.81	18.00	0.189	0.25	0.120	0.16	-0.18
2	A2	Head	LTE Band 66	132322	1745.0	1RB0	Right Cheek	0mm	\	\	16.74	18.00	0.229	0.31	0.150	0.20	0.12
2	A2	Head	LTE Band 66	132322	1745.0	50RB0	Right Cheek	0mm	\	\	16.81	18.00	0.231	0.30	0.155	0.20	-0.01
2	A2	Head	LTE Band 66	132322	1745.0	1RB0	Right Tilt	0mm	\	\	16.74	18.00	0.196	0.26	0.121	0.16	0.00
2	A2	Head	LTE Band 66	132322	1745.0	50RB0	Right Tilt	0mm	\	\	16.81	18.00	0.201	0.26	0.125	0.16	0.04
2	B1	Hotspot	LTE Band 66	132322	1745.0	1RB0	Front	10mm	\	\	20.37	21.50	0.198	0.26	0.134	0.17	-0.02
2	B1	Hotspot	LTE Band 66	132322	1745.0	50RB0	Front	10mm	\	\	20.35	21.50	0.200	0.26	0.135	0.18	-0.18
2	B1	Hotspot	LTE Band 66	132322	1745.0	1RB0	Rear	10mm	\	\	20.37	21.50	0.335	0.43	0.201	0.26	-0.15
2	B1	Hotspot	LTE Band 66	132322	1745.0	50RB0	Rear	10mm	\	\	20.35	21.50	0.342	0.45	0.203	0.26	-0.09
2	B1	Hotspot	LTE Band 66	132322	1745.0	1RB0	Right	10mm	\	\	20.37	21.50	0.232	0.30	0.142	0.18	0.17
2	B1	Hotspot	LTE Band 66	132322	1745.0	50RB0	Right	10mm	\	\	20.35	21.50	0.230	0.30	0.140	0.18	0.11
2	B1	Hotspot	LTE Band 66	132322	1745.0	1RB0	Top	10mm	\	\	20.37	21.50	0.243	0.32	0.147	0.19	0.01
2	B1	Hotspot	LTE Band 66	132322	1745.0	50RB0	Top	10mm	\	\	20.35	21.50	0.233	0.30	0.142	0.19	-0.10
2	B1	Hotspot	LTE Band 66	132322	1745.0	ULCA	Rear	10mm	CA_66C	\	20.33	21.50	0.307	0.40	0.185	0.24	0.09
2	B1	Hotspot	LTE Band 66	132322	1745.0	ULCA	Rear	10mm	CA_66B	\	20.39	21.50	0.320	0.41	0.194	0.25	0.02
2	C1	Body-Worn	LTE Band 66	132322	1745.0	1RB0	Front	15mm	\	\	21.41	22.50	0.174	0.22	0.120	0.15	0.01
2	C1	Body-Worn	LTE Band 66	132322	1745.0	50RB0	Front	15mm	\	\	21.38	22.50	0.174	0.23	0.122	0.16	0.16
2	C1	Body-Worn	LTE Band 66	132322	1745.0	1RB0	Rear	15mm	\	\	21.41	22.50	0.260	0.33	0.175	0.22	0.11
2	C1	Body-Worn	LTE Band 66	132322	1745.0	50RB0	Rear	15mm	\	\	21.38	22.50	0.264	0.34	0.179	0.23	-0.07
2	C1	Body-Worn	LTE Band 66	132322	1745.0	ULCA	Rear	15mm	CA_66C	\	21.30	22.50	0.244	0.32	0.168	0.22	-0.03
2	C1	Body-Worn	LTE Band 66	132322	1745.0	ULCA	Rear	15mm	CA_66B	\	21.34	22.50	0.225	0.29	0.157	0.21	0.06
1	A2	Head	LTE Band 66	132572	1770.0	1RB50	Left Cheek	0mm	\	\	22.46	24.00	0.114	0.16	0.075	0.11	-0.19
1	A2	Head	LTE Band 66	132572	1770.0	50RB50	Left Cheek	0mm	\	\	21.44	23.00	0.086	0.12	0.053	0.08	-0.11
1	A2	Head	LTE Band 66	132572	1770.0	1RB50	Left Tilt	0mm	\	\	22.46	24.00	0.057	0.08	0.034	0.05	-0.16
1	A2	Head	LTE Band 66	132572	1770.0	50RB50	Left Tilt	0mm	\	\	21.44	23.00	0.048	0.07	0.029	0.04	-0.17
1	A2	Head	LTE Band 66	132572	1770.0	1RB50	Right Cheek	0mm	\	\	22.46	24.00	0.070	0.10	0.046	0.07	0.17
1	A2	Head	LTE Band 66	132572	1770.0	50RB50	Right Cheek	0mm	\	\	21.44	23.00	0.076	0.11	0.048	0.07	-0.05
1	A2	Head	LTE Band 66	132572	1770.0	1RB50	Right Tilt	0mm	\	\	22.46	24.00	0.061	0.09	0.039	0.06	0.12
1	A2	Head	LTE Band 66	132572	1770.0	50RB50	Right Tilt	0mm	\	\	21.44	23.00	0.054	0.08	0.035	0.05	0.01
1	B2	Hotspot	LTE Band 66	132572	1770.0	1RB50	Front	10mm	\	\	18.66	20.00	0.165	0.22	0.100	0.14	0.05
1	B2	Hotspot	LTE Band 66	132572	1770.0	50RB50	Front	10mm	\	\	18.65	20.00	0.166	0.23	0.100	0.14	0.10
1	B2	Hotspot	LTE Band 66	132572	1770.0	1RB50	Rear	10mm	\	\	18.66	20.00	0.405	0.55	0.232	0.32	0.05
1	B2	Hotspot	LTE Band 66	132572	1770.0	50RB50	Rear	10mm	\	\	18.65	20.00	0.405	0.55	0.230	0.31	-0.18
1	B2	Hotspot	LTE Band 66	132572	1770.0	1RB50	Left	10mm	\	\	18.66	20.00	<0.01	<0.01	<0.01	<0.01	\
1	B2	Hotspot	LTE Band 66	132572	1770.0	50RB50	Left	10mm	\	\	18.65	20.00	<0.01	<0.01	<0.01	<0.01	\
1	B2	Hotspot	LTE Band 66	132572	1770.0	1RB50	Right	10mm	\	\	18.66	20.00	0.086	0.12	0.046	0.06	0.06
1	B2	Hotspot	LTE Band 66	132572	1770.0	50RB50	Right	10mm	\	\	18.65	20.00	0.103	0.14	0.056	0.08	-0.06
1	B2	Hotspot	LTE Band 66	132572	1770.0	1RB50	Bottom	10mm	\	\	18.66	20.00	0.491	0.67	0.269	0.37	-0.04
1	B2	Hotspot	LTE Band 66	132572	1770.0	50RB50	Bottom	10mm	\	34	18.65	20.00	0.517	0.71	0.305	0.42	0.02
1	C2	Body-Worn	LTE Band 66	132572	1770.0	1RB50	Front	15mm	\	\	20.68	22.00	0.185	0.25	0.123	0.17	-0.04
1	C2	Body-Worn	LTE Band 66	132572	1770.0	50RB50	Front	15mm	\	\	20.64	22.00	0.182	0.25	0.120	0.16	0.10
1	C2	Body-Worn	LTE Band 66	132572	1770.0	1RB50	Rear	15mm	\	\	20.68	22.00	0.418	0.57	0.266	0.36	0.03
1	C2	Body-Worn	LTE Band 66	132572	1770.0	50RB50	Rear	15mm	\	\	20.64	22.00	0.421	0.58	0.269	0.37	-0.01

Note: SAR for LTE Band 4 is covered by LTE Band 66 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

Table 12.18: LTE Band 71 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	A1	Head	LTE Band 71	133222	673.0	1RB99	Left Cheek	0mm	\	35	23.30	24.00	0.359	0.42	0.206	0.24	0.04
0	A1	Head	LTE Band 71	133222	683.0	50RB50	Left Cheek	0mm	\	\	22.27	23.00	0.302	0.36	0.180	0.21	-0.07
0	A1	Head	LTE Band 71	133222	673.0	1RB99	Left Tilt	0mm	\	\	23.30	24.00	0.329	0.39	0.200	0.23	0.02
0	A1	Head	LTE Band 71	133222	683.0	50RB50	Left Tilt	0mm	\	\	22.27	23.00	0.264	0.31	0.161	0.19	-0.11
0	A1	Head	LTE Band 71	133222	673.0	1RB99	Right Cheek	0mm	\	\	23.30	24.00	0.182	0.21	0.110	0.13	0.03
0	A1	Head	LTE Band 71	133222	683.0	50RB50	Right Cheek	0mm	\	\	22.27	23.00	0.146	0.17	0.088	0.10	-0.19
0	A1	Head	LTE Band 71	133222	673.0	1RB99	Right Tilt	0mm	\	\	23.30	24.00	0.159	0.19	0.090	0.11	0.09
0	A1	Head	LTE Band 71	133222	683.0	50RB50	Right Tilt	0mm	\	\	22.27	23.00	0.126	0.15	0.072	0.09	0.05
0	B1/B2	Hotspot	LTE Band 71	133222	673.0	1RB99	Front	10mm	\	\	23.30	24.00	0.136	0.16	0.109	0.13	0.03
0	B1/B2	Hotspot	LTE Band 71	133222	683.0	50RB50	Front	10mm	\	\	22.27	23.00	0.108	0.13	0.087	0.10	-0.13
0	B1/B2	Hotspot	LTE Band 71	133222	673.0	1RB99	Raer	10mm	\	\	23.30	24.00	0.208	0.24	0.165	0.19	0.05
0	B1/B2	Hotspot	LTE Band 71	133222	683.0	50RB50	Raer	10mm	\	\	22.27	23.00	0.158	0.19	0.126	0.15	0.01
0	B1/B2	Hotspot	LTE Band 71	133222	673.0	1RB99	Left	10mm	\	36	23.30	24.00	0.263	0.31	0.190	0.22	0.00
0	B1/B2	Hotspot	LTE Band 71	133222	683.0	50RB50	Left	10mm	\	\	22.27	23.00	0.219	0.26	0.165	0.20	0.15
0	B1/B2	Hotspot	LTE Band 71	133222	673.0	1RB99	Right	10mm	\	\	23.30	24.00	0.133	0.16	0.100	0.12	-0.15
0	B1/B2	Hotspot	LTE Band 71	133222	683.0	50RB50	Right	10mm	\	\	22.27	23.00	0.077	0.09	0.056	0.07	0.11
0	B1/B2	Hotspot	LTE Band 71	133222	673.0	1RB99	Top	10mm	\	\	23.30	24.00	0.153	0.18	0.087	0.10	0.18
0	B1/B2	Hotspot	LTE Band 71	133222	683.0	50RB50	Top	10mm	\	\	22.27	23.00	0.118	0.14	0.067	0.08	-0.01
0	C1/C2	Body-Worn	LTE Band 71	133222	673.0	1RB99	Front	15mm	\	\	23.30	24.00	0.156	0.18	0.114	0.13	-0.06
0	C1/C2	Body-Worn	LTE Band 71	133222	683.0	50RB50	Front	15mm	\	\	22.27	23.00	0.124	0.15	0.090	0.11	0.15
0	C1/C2	Body-Worn	LTE Band 71	133222	673.0	1RB99	Raer	15mm	\	\	23.30	24.00	0.207	0.24	0.162	0.19	-0.16
0	C1/C2	Body-Worn	LTE Band 71	133222	683.0	50RB50	Raer	15mm	\	\	22.27	23.00	0.156	0.18	0.113	0.13	0.11

Table 12.19: NR n2 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A2	Head	NR n2	376000	1880.0	50@25	Left Cheek	0mm	\	37	15.93	17.00	0.246	0.31	0.140	0.18	0.12
2	A2	Head	NR n2	376000	1880.0	50@25	Left Tilt	0mm	\	\	15.93	17.00	0.079	0.10	0.054	0.07	-0.19
2	A2	Head	NR n2	376000	1880.0	50@25	Right Cheek	0mm	\	\	15.93	17.00	0.115	0.15	0.076	0.10	0.13
2	A2	Head	NR n2	376000	1880.0	50@25	Right Tilt	0mm	\	\	15.93	17.00	0.102	0.13	0.056	0.07	-0.09
2	B2	Hotspot	NR n2	376000	1880.0	50@25	Front	10mm	\	\	19.88	21.00	0.127	0.16	0.079	0.10	0.18
2	B2	Hotspot	NR n2	376000	1880.0	50@25	Rear	10mm	\	\	19.88	21.00	0.361	0.47	0.194	0.25	0.01
2	B2	Hotspot	NR n2	376000	1880.0	50@25	Right	10mm	\	\	19.88	21.00	0.216	0.28	0.113	0.15	-0.09
2	B2	Hotspot	NR n2	376000	1880.0	50@25	Top	10mm	\	\	19.88	21.00	0.119	0.15	0.067	0.09	-0.13
2	C2	Body-worn	NR n2	376000	1880.0	50@25	Front	15mm	\	\	21.11	22.00	0.137	0.17	0.081	0.10	0.05
2	C2	Body-worn	NR n2	376000	1880.0	50@25	Rear	15mm	\	\	21.11	22.00	0.289	0.35	0.153	0.19	0.09
1	A2	Head	NR n2	376000	1880.0	50@25	Left Cheek	0mm	\	\	22.87	24.00	0.143	0.19	0.094	0.12	-0.14
1	A2	Head	NR n2	376000	1880.0	50@25	Left Tilt	0mm	\	\	22.87	24.00	0.087	0.11	0.056	0.07	0.19
1	A2	Head	NR n2	376000	1880.0	50@25	Right Cheek	0mm	\	\	22.87	24.00	0.122	0.16	0.082	0.11	0.10
1	A2	Head	NR n2	376000	1880.0	50@25	Right Tilt	0mm	\	\	22.87	24.00	0.102	0.13	0.067	0.09	0.14
1	B2	Hotspot	NR n2	376000	1880.0	50@25	Front	10mm	\	\	18.91	20.00	0.135	0.17	0.081	0.10	0.18
1	B2	Hotspot	NR n2	376000	1880.0	50@25	Rear	10mm	\	\	18.91	20.00	0.278	0.36	0.161	0.21	0.16
1	B2	Hotspot	NR n2	376000	1880.0	50@25	Left	10mm	\	\	18.91	20.00	0.054	0.07	0.030	0.04	0.16
1	B2	Hotspot	NR n2	376000	1880.0	50@25	Right	10mm	\	\	18.91	20.00	0.126	0.16	0.068	0.09	-0.12
1	B2	Hotspot	NR n2	376000	1880.0	50@25	Bottom	10mm	\	38	18.91	20.00	0.362	0.47	0.211	0.27	-0.04
1	C2	Body-worn	NR n2	376000	1880.0	50@25	Front	15mm	\	\	21.02	22.00	0.117	0.15	0.073	0.09	0.07
1	C2	Body-worn	NR n2	376000	1880.0	50@25	Rear	15mm	\	\	21.02	22.00	0.283	0.35	0.179	0.22	0.10

Table 12.20: NR n5 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	A1	Head	NR n5	167300	836.5	50@25	Left Cheek	0mm	\	\	21.88	23.00	0.604	0.78	0.361	0.47	-0.01
0	A1	Head	NR n5	167300	836.5	50@25	Left Tilt	0mm	\	\	21.88	23.00	0.469	0.61	0.299	0.39	-0.02
0	A1	Head	NR n5	167300	836.5	50@25	Right Cheek	0mm	\	39	21.88	23.00	0.645	0.83	0.392	0.51	0.01
0	A1	Head	NR n5	167300	836.5	50@25	Right Tilt	0mm	\	\	21.88	23.00	0.599	0.78	0.367	0.47	0.06
0	A1	Head	NR n5	167800	839.0	50@25	Right Cheek	0mm	\	\	21.77	23.00	0.578	0.77	0.354	0.47	0.09
0	A1	Head	NR n5	166800	834.0	50@25	Right Cheek	0mm	\	\	21.81	23.00	0.624	0.82	0.380	0.50	0.02
0	A2	Head	NR n5	167300	836.5	50@25	Left Cheek	0mm	\	\	19.83	21.00	0.331	0.43	0.197	0.26	-0.18
0	A2	Head	NR n5	167300	836.5	50@25	Left Tilt	0mm	\	\	19.83	21.00	0.257	0.34	0.163	0.21	0.01
0	A2	Head	NR n5	167300	836.5	50@25	Right Cheek	0mm	\	\	19.83	21.00	0.353	0.46	0.214	0.28	0.07
0	A2	Head	NR n5	167300	836.5	50@25	Right Tilt	0mm	\	\	19.83	21.00	0.328	0.43	0.200	0.26	0.17
0	B1/B2	Hotspot	NR n5	167300	836.5	50@25	Front	10mm	\	\	22.92	24.00	0.253	0.32	0.135	0.17	-0.06
0	B1/B2	Hotspot	NR n5	167300	836.5	50@25	Rear	10mm	\	\	22.92	24.00	0.376	0.48	0.202	0.26	0.07
0	B1/B2	Hotspot	NR n5	167300	836.5	50@25	Left	10mm	\	\	22.92	24.00	0.210	0.27	0.129	0.17	0.13
0	B1/B2	Hotspot	NR n5	167300	836.5	50@25	Right	10mm	\	\	22.92	24.00	0.103	0.13	0.064	0.08	0.10
0	B1/B2	Hotspot	NR n5	167300	836.5	50@25	Top	10mm	\	40	22.92	24.00	0.390	0.50	0.207	0.27	0.09
0	C1/C2	Body-worn	NR n5	167300	836.5	50@25	Front	15mm	\	\	22.92	24.00	0.164	0.21	0.114	0.15	0.05
0	C1/C2	Body-worn	NR n5	167300	836.5	50@25	Rear	15mm	\	\	22.92	24.00	0.191	0.24	0.120	0.15	0.03

Table 12.21: NR n25 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1	Head	NR n25	376500	1882.5	120@60	Left Cheek	0mm	\	41	17.88	19.00	0.467	0.60	0.268	0.35	0.06
2	A1	Head	NR n25	376500	1882.5	120@60	Left Tilt	0mm	\	\	17.88	19.00	0.150	0.19	0.103	0.13	0.19
2	A1	Head	NR n25	376500	1882.5	120@60	Right Cheek	0mm	\	\	17.88	19.00	0.219	0.28	0.145	0.19	0.08
2	A1	Head	NR n25	376500	1882.5	120@60	Right Tilt	0mm	\	\	17.88	19.00	0.193	0.25	0.107	0.14	0.10
2	B1	Hotspot	NR n25	376500	1882.5	120@60	Front	10mm	\	\	20.85	22.00	0.192	0.25	0.120	0.16	-0.08
2	B1	Hotspot	NR n25	376500	1882.5	120@60	Rear	10mm	\	42	20.85	22.00	0.545	0.71	0.293	0.38	-0.07
2	B1	Hotspot	NR n25	376500	1882.5	120@60	Right	10mm	\	\	20.85	22.00	0.327	0.43	0.170	0.22	-0.09
2	B1	Hotspot	NR n25	376500	1882.5	120@60	Top	10mm	\	\	20.85	22.00	0.179	0.23	0.101	0.13	0.19
2	C1	Body-worn	NR n25	376500	1882.5	120@60	Front	15mm	\	\	22.12	23.00	0.141	0.17	0.091	0.11	0.07
2	C1	Body-worn	NR n25	376500	1882.5	120@60	Rear	15mm	\	\	22.12	23.00	0.298	0.36	0.171	0.21	-0.13

Note: SAR for NR n2 is covered by NR n25 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

Table 12.22: NR n30 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
6	A1	Head	NR n30	462000	2310.0	25@12	Left Cheek	0mm	\	\	17.79	18.50	0.237	0.28	0.140	0.16	0.05
6	A1	Head	NR n30	462000	2310.0	25@12	Left Tilt	0mm	\	\	17.79	18.50	0.164	0.19	0.084	0.10	0.08
6	A1	Head	NR n30	462000	2310.0	25@12	Right Cheek	0mm	\	43	17.79	18.50	0.561	0.66	0.300	0.35	0.04
6	A1	Head	NR n30	462000	2310.0	25@12	Right Tilt	0mm	\	\	17.79	18.50	0.284	0.33	0.146	0.17	0.06
6	B1	Hotspot	NR n30	462000	2310.0	25@12	Front	10mm	\	\	18.82	19.50	0.191	0.22	0.111	0.13	-0.14
6	B1	Hotspot	NR n30	462000	2310.0	25@12	Rear	10mm	\	44	18.82	19.50	0.536	0.63	0.271	0.32	0.12
6	B1	Hotspot	NR n30	462000	2310.0	25@12	Left	10mm	\	\	18.82	19.50	0.206	0.24	0.121	0.14	0.07
6	B1	Hotspot	NR n30	462000	2310.0	25@12	Top	10mm	\	\	18.82	19.50	0.125	0.15	0.070	0.08	0.05
6	C1	Body-worn	NR n30	462000	2310.0	25@12	Front	15mm	\	\	18.82	19.50	0.120	0.14	0.064	0.07	0.08
6	C1	Body-worn	NR n30	462000	2310.0	25@12	Rear	15mm	\	\	18.82	19.50	0.382	0.45	0.210	0.25	0.12

Table 12.23: NR n41 PC2 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
4	A1/A2	Head	NR n41	518598	2593.0	135@67	Left Cheek	0mm	\	\	16.02	17.00	0.154	0.19	0.081	0.10	-0.04
4	A1/A2	Head	NR n41	518598	2593.0	135@67	Left Tilt	0mm	\	\	16.02	17.00	0.076	0.10	0.036	0.05	0.08
4	A1/A2	Head	NR n41	518598	2593.0	135@67	Right Cheek	0mm	\	45	16.02	17.00	0.498	0.62	0.229	0.29	-0.05
4	A1/A2	Head	NR n41	518598	2593.0	135@67	Right Tilt	0mm	\	\	16.02	17.00	0.149	0.19	0.076	0.09	-0.07
4	B1/B2	Hotspot	NR n41	518598	2593.0	135@67	Front	10mm	\	\	16.57	17.50	0.181	0.22	0.096	0.12	0.13
4	B1/B2	Hotspot	NR n41	518598	2593.0	135@67	Rear	10mm	\	46	16.57	17.50	0.477	0.59	0.229	0.28	0.12
4	B1/B2	Hotspot	NR n41	518598	2593.0	135@67	Left	10mm	\	\	16.57	17.50	0.238	0.29	0.124	0.15	-0.06
4	B1/B2	Hotspot	NR n41	518598	2593.0	135@67	Top	10mm	\	\	16.57	17.50	0.054	0.07	0.028	0.03	0.15
4	B1/B2	Hotspot	NR n41	518598	2593.0	135@67	Rear	10mm	\	\	16.52	17.50	0.327	0.41	0.161	0.20	-0.03
4	B1/B2	Hotspot	NR n41	518598	2593.0	135@67	Rear	10mm	\	\	16.49	17.50	0.376	0.47	0.180	0.23	0.15
4	C1/C2	Body-worn	NR n41	518598	2593.0	135@67	Front	15mm	\	\	17.62	18.50	0.184	0.23	0.081	0.10	0.08
4	C1/C2	Body-worn	NR n41	518598	2593.0	135@67	Rear	15mm	\	\	17.62	18.50	0.269	0.33	0.139	0.17	0.08

Note: SAR for NR n38 is covered by NR n41 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

Table 12.24: NR n48 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1	Head	NR n48	641666	3625.0	135@67	Left Cheek	0mm	\	47	17.57	18.00	0.484	0.53	0.220	0.24	-0.06
2	A1	Head	NR n48	641666	3625.0	135@67	Left Tilt	0mm	\	\	17.57	18.00	0.301	0.33	0.125	0.14	-0.03
2	A1	Head	NR n48	641666	3625.0	135@67	Right Cheek	0mm	\	\	17.57	18.00	0.152	0.17	0.070	0.08	-0.06
2	A1	Head	NR n48	641666	3625.0	135@67	Right Tilt	0mm	\	\	17.57	18.00	0.067	0.07	0.036	0.04	0.01
2	B1	Hotspot	NR n48	641666	3625.0	135@67	Front	10mm	\	\	18.52	19.00	0.141	0.16	0.067	0.07	-0.05
2	B1	Hotspot	NR n48	641666	3625.0	135@67	Rear	10mm	\	\	18.52	19.00	0.333	0.37	0.133	0.15	-0.08
2	B1	Hotspot	NR n48	641666	3625.0	135@67	Right	10mm	\	48	18.52	19.00	0.355	0.40	0.149	0.17	-0.08
2	B1	Hotspot	NR n48	641666	3625.0	135@67	Top	10mm	\	\	18.52	19.00	0.086	0.10	0.038	0.04	0.14
2	C1	Body-worn	NR n48	641666	3625.0	135@67	Front	15mm	\	\	19.59	20.00	0.099	0.11	0.049	0.05	-0.07
2	C1	Body-worn	NR n48	641666	3625.0	135@67	Rear	15mm	\	\	19.59	20.00	0.189	0.21	0.087	0.10	-0.10

Table 12.25: NR n66 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	\	49	19.19	20.00	0.595	0.72	0.358	0.43	-0.09
2	A1	Head	NR n66	349000	1745.0	108@54	Left Tilt	0mm	\	\	19.19	20.00	0.269	0.32	0.159	0.19	0.09
2	A1	Head	NR n66	349000	1745.0	108@54	Right Cheek	0mm	\	\	19.19	20.00	0.328	0.40	0.205	0.25	-0.07
2	A1	Head	NR n66	349000	1745.0	108@54	Right Tilt	0mm	\	\	19.19	20.00	0.303	0.37	0.176	0.21	0.02
2	A2	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	\	\	17.21	18.00	0.428	0.51	0.252	0.30	0.10
2	A2	Head	NR n66	349000	1745.0	108@54	Left Tilt	0mm	\	\	17.21	18.00	0.193	0.23	0.112	0.13	-0.14
2	A2	Head	NR n66	349000	1745.0	108@54	Right Cheek	0mm	\	\	17.21	18.00	0.236	0.28	0.144	0.17	-0.10
2	A2	Head	NR n66	349000	1745.0	108@54	Right Tilt	0mm	\	\	17.21	18.00	0.218	0.26	0.124	0.15	-0.10
2	B1	Hotspot	NR n66	349000	1745.0	108@54	Front	10mm	\	\	21.34	22.00	0.231	0.27	0.147	0.17	0.03
2	B1	Hotspot	NR n66	349000	1745.0	108@54	Rear	10mm	\	\	21.34	22.00	0.391	0.46	0.225	0.26	0.01
2	B1	Hotspot	NR n66	349000	1745.0	108@54	Right	10mm	\	\	21.34	22.00	0.262	0.31	0.152	0.18	-0.05
2	B1	Hotspot	NR n66	349000	1745.0	108@54	Top	10mm	\	\	21.34	22.00	0.183	0.21	0.108	0.13	-0.11
2	C1	Body-worn	NR n66	349000	1745.0	108@54	Front	15mm	\	\	22.28	23.00	0.172	0.20	0.114	0.13	-0.12
2	C1	Body-worn	NR n66	349000	1745.0	108@54	Rear	15mm	\	\	22.28	23.00	0.239	0.28	0.152	0.18	0.15
1	A2	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	\	\	22.27	24.00	0.105	0.16	0.065	0.10	-0.05
1	A2	Head	NR n66	349000	1745.0	108@54	Left Tilt	0mm	\	\	22.27	24.00	0.069	0.10	0.042	0.06	-0.02
1	A2	Head	NR n66	349000	1745.0	108@54	Right Cheek	0mm	\	\	22.27	24.00	0.063	0.09	0.041	0.06	-0.09
1	A2	Head	NR n66	349000	1745.0	108@54	Right Tilt	0mm	\	\	22.27	24.00	0.064	0.10	0.040	0.06	-0.01
1	B2	Hotspot	NR n66	349000	1745.0	108@54	Front	10mm	\	\	18.48	20.00	0.196	0.28	0.127	0.18	0.09
1	B2	Hotspot	NR n66	349000	1745.0	108@54	Rear	10mm	\	\	18.48	20.00	0.500	0.71	0.307	0.44	0.03
1	B2	Hotspot	NR n66	349000	1745.0	108@54	Left	10mm	\	\	18.48	20.00	<0.01	<0.01	<0.01	<0.01	\
1	B2	Hotspot	NR n66	349000	1745.0	108@54	Right	10mm	\	\	18.48	20.00	0.061	0.09	0.038	0.05	0.16
1	B2	Hotspot	NR n66	349000	1745.0	108@54	Bottom	10mm	\	50	18.48	20.00	0.633	0.90	0.373	0.53	0.13
1	B2	Hotspot	NR n66	352000	1760.0	108@54	Bottom	10mm	\	\	18.36	20.00	0.608	0.89	0.388	0.57	-0.01
1	B2	Hotspot	NR n66	346000	1730.0	108@54	Bottom	10mm	\	\	18.42	20.00	0.616	0.89	0.354	0.51	0.02
1	C2	Body-worn	NR n66	349000	1745.0	108@54	Front	15mm	\	\	20.29	22.00	0.169	0.25	0.114	0.17	0.13
1	C2	Body-worn	NR n66	349000	1745.0	108@54	Rear	15mm	\	\	20.29	22.00	0.452	0.67	0.289	0.43	-0.05

Table 12.26: NR n70 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1	Head	NR n70	340500	1702.5	36@18	Left Cheek	0mm	\	51	19.06	20.00	0.430	0.53	0.258	0.32	-0.05
2	A1	Head	NR n70	340500	1702.5	36@18	Left Tilt	0mm	\	\	19.06	20.00	0.198	0.25	0.118	0.15	-0.05
2	A1	Head	NR n70	340500	1702.5	36@18	Right Cheek	0mm	\	\	19.06	20.00	0.238	0.30	0.149	0.19	-0.12
2	A1	Head	NR n70	340500	1702.5	36@18	Right Tilt	0mm	\	\	19.06	20.00	0.224	0.28	0.129	0.16	-0.02
2	B1	Hotspot	NR n70	340500	1702.5	36@18	Front	10mm	\	\	21.02	22.00	0.194	0.24	0.124	0.16	0.05
2	B1	Hotspot	NR n70	340500	1702.5	36@18	Rear	10mm	\	52	21.02	22.00	0.342	0.43	0.209	0.26	-0.02
2	B1	Hotspot	NR n70	340500	1702.5	36@18	Right	10mm	\	\	21.02	22.00	0.223	0.28	0.130	0.16	-0.12
2	B1	Hotspot	NR n70	340500	1702.5	36@18	Top	10mm	\	\	21.02	22.00	0.190	0.24	0.112	0.14	-0.03
2	C1	Body-worn	NR n70	340500	1702.5	36@18	Front	15mm	\	\	22.09	23.00	0.151	0.19	0.097	0.12	0.13
2	C1	Body-worn	NR n70	340500	1702.5	36@18	Rear	15mm	\	\	22.09	23.00	0.216	0.27	0.137	0.17	-0.07

Table 12.27: NR n71 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	A1	Head	NR n71	136100	680.5	50@25	Left Cheek	0mm	\	\	21.83	23.00	0.360	0.47	0.211	0.28	-0.01
0	A1	Head	NR n71	136100	680.5	50@25	Left Tilt	0mm	\	\	21.83	23.00	0.281	0.37	0.188	0.25	-0.03
0	A1	Head	NR n71	136100	680.5	50@25	Right Cheek	0mm	\	53	21.83	23.00	0.372	0.49	0.235	0.31	0.06
0	A1	Head	NR n71	136100	680.5	50@25	Right Tilt	0mm	\	\	21.83	23.00	0.356	0.47	0.229	0.30	0.04
0	B1/B2	Hotspot	NR n71	136100	680.5	50@25	Front	10mm	\	\	22.89	24.00	0.142	0.18	0.105	0.14	-0.06
0	B1/B2	Hotspot	NR n71	136100	680.5	50@25	Rear	10mm	\	\	22.89	24.00	0.209	0.27	0.123	0.16	0.08
0	B1/B2	Hotspot	NR n71	136100	680.5	50@25	Left	10mm	\	54	22.89	24.00	0.275	0.36	0.197	0.25	0.07
0	B1/B2	Hotspot	NR n71	136100	680.5	50@25	Right	10mm	\	\	22.89	24.00	0.133	0.17	0.089	0.11	0.10
0	B1/B2	Hotspot	NR n71	136100	680.5	50@25	Top	10mm	\	\	22.89	24.00	0.194	0.25	0.098	0.13	0.13
0	C1/C2	Body-worn	NR n71	136100	680.5	50@25	Front	15mm	\	\	22.89	24.00	0.166	0.21	0.121	0.16	0.02
0	C1/C2	Body-worn	NR n71	136100	680.5	50@25	Rear	15mm	\	\	22.89	24.00	0.216	0.28	0.171	0.22	0.07

Table 12.28: NR n77 Part 27Q SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1/A2	Head	NR n77-Part 27Q	633334	3500.0	135@67	Left Cheek	0mm	\	55	17.45	18.00	0.493	0.56	0.230	0.26	-0.01
2	A1/A2	Head	NR n77-Part 27Q	633334	3500.0	135@67	Left Tilt	0mm	\	\	17.45	18.00	0.313	0.36	0.139	0.16	0.05
2	A1/A2	Head	NR n77-Part 27Q	633334	3500.0	135@67	Right Cheek	0mm	\	\	17.45	18.00	0.183	0.21	0.093	0.11	-0.03
2	A1/A2	Head	NR n77-Part 27Q	633334	3500.0	135@67	Right Tilt	0mm	\	\	17.45	18.00	0.173	0.20	0.083	0.09	0.01
2	B1/B2	Hotspot	NR n77-Part 27Q	633334	3500.0	135@67	Front	10mm	\	\	18.39	19.00	0.125	0.14	0.064	0.07	0.09
2	B1/B2	Hotspot	NR n77-Part 27Q	633334	3500.0	135@67	Rear	10mm	\	56	18.39	19.00	0.322	0.37	0.140	0.16	-0.01
2	B1/B2	Hotspot	NR n77-Part 27Q	633334	3500.0	135@67	Right	10mm	\	\	18.39	19.00	0.319	0.37	0.134	0.15	-0.01
2	B1/B2	Hotspot	NR n77-Part 27Q	633334	3500.0	135@67	Top	10mm	\	\	18.39	19.00	0.075	0.09	0.033	0.04	0.12
2	C1/C2	Body-worn	NR n77-Part 27Q	633334	3500.0	135@67	Front	15mm	\	\	19.42	20.00	0.129	0.15	0.063	0.07	0.13
2	C1/C2	Body-worn	NR n77-Part 27Q	633334	3500.0	135@67	Rear	15mm	\	\	19.42	20.00	0.263	0.30	0.123	0.14	-0.02

Note: SAR for NR n78 is covered by NR n77 Part 27Q due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

Table 12.29: NR n77 Part 27O SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	A1/A2	Head	NR n77-Part 27O	656000	3840.0	135@67	Left Cheek	0mm	\	57	17.76	18.00	0.435	0.46	0.189	0.20	-0.09
2	A1/A2	Head	NR n77-Part 27O	656000	3840.0	135@67	Left Tilt	0mm	\	\	17.76	18.00	0.311	0.33	0.127	0.13	0.12
2	A1/A2	Head	NR n77-Part 27O	656000	3840.0	135@67	Right Cheek	0mm	\	\	17.76	18.00	0.195	0.21	0.082	0.09	-0.03
2	A1/A2	Head	NR n77-Part 27O	656000	3840.0	135@67	Right Tilt	0mm	\	\	17.76	18.00	0.203	0.21	0.081	0.09	0.02
2	B1/B2	Hotspot	NR n77-Part 27O	656000	3840.0	135@67	Front	10mm	\	\	18.78	19.00	0.132	0.14	0.061	0.06	0.11
2	B1/B2	Hotspot	NR n77-Part 27O	656000	3840.0	135@67	Rear	10mm	\	\	18.78	19.00	0.362	0.38	0.141	0.15	-0.02
2	B1/B2	Hotspot	NR n77-Part 27O	656000	3840.0	135@67	Right	10mm	\	58	18.78	19.00	0.373	0.39	0.139	0.15	-0.02
2	B1/B2	Hotspot	NR n77-Part 27O	656000	3840.0	135@67	Top	10mm	\	\	18.78	19.00	0.046	0.05	0.022	0.02	0.08
2	C1/C2	Body-worn	NR n77-Part 27O	656000	3840.0	135@67	Front	15mm	\	\	19.83	20.00	0.089	0.09	0.043	0.04	-0.09
2	C1/C2	Body-worn	NR n77-Part 27O	656000	3840.0	135@67	Rear	15mm	\	\	19.83	20.00	0.224	0.23	0.095	0.10	-0.13

Table 12.30: Bluetooth SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Duty Cycle %	Duty Cycle Scaling Factor	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
7	D1/D2	Head	Bluetooth	0	2402.0	GFSK	Left Cheek	0mm	\	59	7.69	9.50	76.21	1.31	0.032	0.06	0.020	0.04	-0.12
7	D1/D2	Head	Bluetooth	0	2402.0	GFSK	Left Tilt	0mm	\	\	7.69	9.50	76.21	1.31	<0.01	<0.01	<0.01	<0.01	\
7	D1/D2	Head	Bluetooth	0	2402.0	GFSK	Right Cheek	0mm	\	\	7.69	9.50	76.21	1.31	<0.01	<0.01	<0.01	<0.01	\
7	D1/D2	Head	Bluetooth	0	2402.0	GFSK	Right Tilt	0mm	\	\	7.69	9.50	76.21	1.31	<0.01	<0.01	<0.01	<0.01	\
7	E1/E2	Hotspot	Bluetooth	0	2402.0	GFSK	Front	10mm	\	\	7.69	9.50	76.21	1.31	0.020	0.04	0.005	0.01	0.15
7	E1/E2	Hotspot	Bluetooth	0	2402.0	GFSK	Rear	10mm	\	60	7.69	9.50	76.21	1.31	0.027	0.05	0.010	0.02	-0.10
7	E1/E2	Hotspot	Bluetooth	0	2402.0	GFSK	Right	10mm	\	\	7.69	9.50	76.21	1.31	<0.01	<0.01	<0.01	<0.01	\
7	E1/E2	Hotspot	Bluetooth	0	2402.0	GFSK	Top	10mm	\	\	7.69	9.50	76.21	1.31	<0.01	<0.01	<0.01	<0.01	\
7	F1/F2	Body-worn	Bluetooth	0	2402.0	GFSK	Front	15mm	\	\	7.69	9.50	76.21	1.31	<0.01	<0.01	<0.01	<0.01	\
7	F1/F2	Body-worn	Bluetooth	0	2402.0	GFSK	Rear	15mm	\	\	7.69	9.50	76.21	1.31	0.026	0.05	0.010	0.02	0.18

Table 12.31: WLAN 2.4GHz SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	ModelRB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Duty Cycle %	Duty Cycle Scaling Factor	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
7	D1	Head	WLAN 2.4GHz	11	2462.0	802.11b	Left Cheek	0mm	\	61	14.99	16.50	99.48	1.01	0.380	0.54	0.201	0.29	0.03
7	D1	Head	WLAN 2.4GHz	11	2462.0	802.11b	Left Tilt	0mm	\	\	14.99	16.50	99.48	1.01	0.297	0.42	0.149	0.21	0.09
7	D1	Head	WLAN 2.4GHz	11	2462.0	802.11b	Right Cheek	0mm	\	\	14.99	16.50	99.48	1.01	0.140	0.20	0.087	0.12	0.19
7	D1	Head	WLAN 2.4GHz	11	2462.0	802.11b	Right Tilt	0mm	\	\	14.99	16.50	99.48	1.01	0.140	0.20	0.080	0.11	0.08
7	D2	Head	WLAN 2.4GHz	11	2462.0	802.11b	Left Cheek	0mm	\	\	10.05	11.50	99.48	1.01	0.103	0.15	0.054	0.08	-0.16
7	D2	Head	WLAN 2.4GHz	11	2462.0	802.11b	Left Tilt	0mm	\	\	10.05	11.50	99.48	1.01	0.081	0.11	0.040	0.06	0.16
7	D2	Head	WLAN 2.4GHz	11	2462.0	802.11b	Right Cheek	0mm	\	\	10.05	11.50	99.48	1.01	0.038	0.05	0.023	0.03	-0.11
7	D2	Head	WLAN 2.4GHz	11	2462.0	802.11b	Right Tilt	0mm	\	\	10.05	11.50	99.48	1.01	0.038	0.05	0.022	0.03	-0.07
7	E1/E2	Hotspot	WLAN 2.4GHz	11	2462.0	802.11b	Front	10mm	\	\	14.33	15.80	99.48	1.01	0.067	0.09	0.038	0.05	-0.18
7	E1/E2	Hotspot	WLAN 2.4GHz	11	2462.0	802.11b	Rear	10mm	\	62	14.33	15.80	99.48	1.01	0.112	0.16	0.057	0.08	0.02
7	E1/E2	Hotspot	WLAN 2.4GHz	11	2462.0	802.11b	Right	10mm	\	\	14.33	15.80	99.48	1.01	0.086	0.12	0.045	0.06	0.09
7	E1/E2	Hotspot	WLAN 2.4GHz	11	2462.0	802.11b	Top	10mm	\	\	14.33	15.80	99.48	1.01	0.089	0.13	0.038	0.05	-0.03
7	F1/F2	Body-worn	WLAN 2.4GHz	11	2462.0	802.11b	Front	15mm	\	\	18.03	18.50	99.48	1.01	0.077	0.09	0.044	0.05	0.17
7	F1/F2	Body-worn	WLAN 2.4GHz	11	2462.0	802.11b	Rear	15mm	\	\	18.03	18.50	99.48	1.01	0.108	0.12	0.058	0.07	0.15

Note:

- According to the KDB 248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.
- For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- According to the KDB 248227 D01, the reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.
- SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

Table 12.32: WLAN 5GHz SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Model/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Duty Cycle %	Duty Cycle Scaling Factor	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
7	D1	Head	U-NII-2A	56	5280.0	802.11a	Left Cheek	0mm	\	\	14.41	15.50	97.36	1.03	0.433	0.57	0.122	0.16	0.05
7	D1	Head	U-NII-2A	56	5280.0	802.11a	Left Tilt	0mm	\	\	14.41	15.50	97.36	1.03	0.584	0.77	0.158	0.21	-0.19
7	D1	Head	U-NII-2A	56	5280.0	802.11a	Right Cheek	0mm	\	\	14.41	15.50	97.36	1.03	0.315	0.42	0.098	0.13	-0.01
7	D1	Head	U-NII-2A	56	5280.0	802.11a	Right Tilt	0mm	\	\	14.41	15.50	97.36	1.03	0.388	0.51	0.120	0.16	0.05
7	D2	Head	U-NII-2A	56	5280.0	802.11a	Left Cheek	0mm	\	\	9.91	11.00	97.36	1.03	0.111	0.15	0.028	0.04	0.03
7	D2	Head	U-NII-2A	56	5280.0	802.11a	Left Tilt	0mm	\	\	9.91	11.00	97.36	1.03	0.150	0.20	0.037	0.05	-0.08
7	D2	Head	U-NII-2A	56	5280.0	802.11a	Right Cheek	0mm	\	\	9.91	11.00	97.36	1.03	0.081	0.11	0.023	0.03	0.15
7	D2	Head	U-NII-2A	56	5280.0	802.11a	Right Tilt	0mm	\	\	9.91	11.00	97.36	1.03	0.100	0.13	0.028	0.04	-0.13
7	D1	Head	U-NII-2C	100	5500.0	802.11a	Left Cheek	0mm	\	\	14.33	15.50	97.36	1.03	0.493	0.66	0.157	0.21	0.00
7	D1	Head	U-NII-2C	100	5500.0	802.11a	Left Tilt	0mm	\	63	14.33	15.50	97.36	1.03	0.660	0.89	0.187	0.25	0.19
7	D1	Head	U-NII-2C	100	5500.0	802.11a	Right Cheek	0mm	\	\	14.33	15.50	97.36	1.03	0.406	0.55	0.133	0.18	-0.19
7	D1	Head	U-NII-2C	100	5500.0	802.11a	Right Tilt	0mm	\	\	14.33	15.50	97.36	1.03	0.478	0.64	0.156	0.21	-0.04
7	D1	Head	U-NII-2C	116	5580.0	802.11a	Left Tilt	0mm	\	\	14.32	15.50	97.36	1.03	0.625	0.84	0.172	0.23	0.08
7	D2	Head	U-NII-2C	100	5500.0	802.11a	Left Cheek	0mm	\	\	9.85	11.00	97.36	1.03	0.132	0.18	0.037	0.05	0.00
7	D2	Head	U-NII-2C	100	5500.0	802.11a	Left Tilt	0mm	\	\	9.85	11.00	97.36	1.03	0.177	0.24	0.044	0.06	-0.12
7	D2	Head	U-NII-2C	100	5500.0	802.11a	Right Cheek	0mm	\	\	9.85	11.00	97.36	1.03	0.109	0.15	0.032	0.04	-0.07
7	D2	Head	U-NII-2C	100	5500.0	802.11a	Right Tilt	0mm	\	\	9.85	11.00	97.36	1.03	0.128	0.17	0.037	0.05	0.11
7	D1	Head	U-NII-3	157	5785.0	802.11a	Left Cheek	0mm	\	\	14.81	15.50	97.36	1.03	0.371	0.45	0.110	0.13	-0.19
7	D1	Head	U-NII-3	157	5785.0	802.11a	Left Tilt	0mm	\	\	14.81	15.50	97.36	1.03	0.459	0.55	0.124	0.15	0.05
7	D1	Head	U-NII-3	157	5785.0	802.11a	Right Cheek	0mm	\	\	14.81	15.50	97.36	1.03	0.347	0.42	0.107	0.13	-0.18
7	D1	Head	U-NII-3	157	5785.0	802.11a	Right Tilt	0mm	\	\	14.81	15.50	97.36	1.03	0.402	0.49	0.122	0.15	0.15
7	D2	Head	U-NII-3	157	5785.0	802.11a	Left Cheek	0mm	\	\	10.28	11.00	97.36	1.03	0.085	0.10	0.023	0.03	0.13
7	D2	Head	U-NII-3	157	5785.0	802.11a	Left Tilt	0mm	\	\	10.28	11.00	97.36	1.03	0.105	0.13	0.026	0.03	0.04
7	D2	Head	U-NII-3	157	5785.0	802.11a	Right Cheek	0mm	\	\	10.28	11.00	97.36	1.03	0.079	0.10	0.022	0.03	0.08
7	D2	Head	U-NII-3	157	5785.0	802.11a	Right Tilt	0mm	\	\	10.28	11.00	97.36	1.03	0.092	0.11	0.025	0.03	0.17
7	E1/E2	Hotspot	U-NII-1	44	5220.0	802.11a	Front	10mm	\	\	13.26	14.50	97.36	1.03	0.090	0.12	0.033	0.04	0.00
7	E1/E2	Hotspot	U-NII-1	44	5220.0	802.11a	Rear	10mm	\	\	13.26	14.50	97.36	1.03	0.256	0.35	0.093	0.13	-0.12
7	E1/E2	Hotspot	U-NII-1	44	5220.0	802.11a	Right	10mm	\	\	13.26	14.50	97.36	1.03	0.113	0.15	0.047	0.06	-0.16
7	E1/E2	Hotspot	U-NII-1	44	5220.0	802.11a	Top	10mm	\	\	13.26	14.50	97.36	1.03	0.270	0.37	0.096	0.13	0.00
7	E1/E2	Hotspot	U-NII-3	157	5785.0	802.11a	Front	10mm	\	\	13.82	14.50	97.36	1.03	0.075	0.09	0.027	0.03	-0.12
7	E1/E2	Hotspot	U-NII-3	157	5785.0	802.11a	Rear	10mm	\	\	13.82	14.50	97.36	1.03	0.212	0.26	0.068	0.08	0.16
7	E1/E2	Hotspot	U-NII-3	157	5785.0	802.11a	Right	10mm	\	\	13.82	14.50	97.36	1.03	0.103	0.12	0.041	0.05	-0.13
7	E1/E2	Hotspot	U-NII-3	157	5785.0	802.11a	Top	10mm	\	\	13.82	14.50	97.36	1.03	0.251	0.30	0.086	0.10	0.01
7	F1/F2	Body-worn	U-NII-2A	56	5280.0	802.11a	Front	15mm	\	\	18.71	19.00	97.36	1.03	0.133	0.15	0.055	0.06	0.01
7	F1/F2	Body-worn	U-NII-2A	56	5280.0	802.11a	Rear	15mm	\	\	18.71	19.00	97.36	1.03	0.488	0.54	0.196	0.22	0.09
7	F1/F2	Body-worn	U-NII-2C	100	5500.0	802.11a	Front	15mm	\	\	18.68	19.00	97.36	1.03	0.176	0.20	0.072	0.08	0.13
7	F1/F2	Body-worn	U-NII-2C	100	5500.0	802.11a	Rear	15mm	\	64	18.68	19.00	97.36	1.03	0.537	0.60	0.212	0.24	0.05
7	F1/F2	Body-worn	U-NII-3	157	5785.0	802.11a	Front	15mm	\	\	18.92	19.00	97.36	1.03	0.129	0.14	0.051	0.05	0.01
7	F1/F2	Body-worn	U-NII-3	157	5785.0	802.11a	Rear	15mm	\	\	18.92	19.00	97.36	1.03	0.428	0.45	0.166	0.17	0.08
7	F1/F2	Extremity	U-NII-2A	56	5280.0	802.11a	Front	0mm	\	\	18.71	19.00	97.36	1.03	1.460	1.61	0.440	0.48	0.02
7	F1/F2	Extremity	U-NII-2A	56	5280.0	802.11a	Rear	0mm	\	\	18.71	19.00	97.36	1.03	2.660	2.93	0.883	0.97	-0.05
7	F1/F2	Extremity	U-NII-2A	56	5280.0	802.11a	Right	0mm	\	\	18.71	19.00	97.36	1.03	0.889	0.98	0.297	0.33	0.13
7	F1/F2	Extremity	U-NII-2A	56	5280.0	802.11a	Top	0mm	\	65	18.71	19.00	97.36	1.03	6.690	7.37	1.710	1.88	-0.08
7	F1/F2	Extremity	U-NII-2A	56	5280.0	802.11a	Top	0mm	B2	\	18.71	19.00	97.36	1.03	6.520	7.18	1.680	1.85	0.12
7	F1/F2	Extremity	U-NII-2C	100	5500.0	802.11a	Front	0mm	\	\	18.68	19.00	97.36	1.03	2.050	2.27	0.559	0.62	0.06
7	F1/F2	Extremity	U-NII-2C	100	5500.0	802.11a	Rear	0mm	\	\	18.68	19.00	97.36	1.03	2.960	3.28	0.909	1.01	0.14
7	F1/F2	Extremity	U-NII-2C	100	5500.0	802.11a	Right	0mm	\	\	18.68	19.00	97.36	1.03	0.914	1.01	0.316	0.35	-0.01
7	F1/F2	Extremity	U-NII-2C	100	5500.0	802.11a	Top	0mm	\	\	18.68	19.00	97.36	1.03	7.380	8.18	1.590	1.76	0.02

Note:

1. U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance, SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.

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

3. According to the KDB 248227 D01, the reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

13. SAR Measurement Variability

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

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

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

Table 13.1: SAR Measurement Variability

Antenna	Power Level	RF Exposure Conditions	Frequency Band	Frequency		Mode/RB	Test Position	Distance	Original	1 st Repeated	Ratio	2 nd Repeated
				Ch.	MHz				SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
0	A1	Head	GSM 850	190	836.6	GPRS(4TX)	Right Cheek	0mm	1.290	1.230	1.05	/
2	A1	Head	GSM 1900	512	1850.2	GPRS(3TX)	Left Cheek	0mm	0.898	0.870	1.03	/
4	B1	Hotspot	LTE Band 41 PC2	40620	2593.0	50RB25	Rear	10mm	0.885	0.869	1.02	/

14. Measurement Uncertainty

14.1. 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	11.0	N	2	1	1	5.5	5.5	∞
2	Axial isotropy	B	4.7	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	4.3	4.3	∞
3	Hemispherical isotropy	B	9.6	R	$\sqrt{3}$	1	1	4.8	4.8	∞
4	Boundary effect	B	1.1	R	$\sqrt{3}$	1	1	0.6	0.6	∞
5	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
6	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
7	Modulation response	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
8	Readout electronics	B	1.0	N	1	1	1	1.0	1.0	∞
9	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
10	Integration time	B	1.7	R	$\sqrt{3}$	1	1	1.0	1.0	∞
11	RF ambient conditions-noise	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
12	RF ambient conditions-reflection	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Probe positioned mech. restrictions	B	0.35	R	$\sqrt{3}$	1	1	0.2	0.2	∞
14	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
15	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
16	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	5
17	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
18	Power scaling	B	0	R	$\sqrt{3}$	1	1	0	0	∞
19	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
20	Phantom uncertainty	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
21	Algorithm for correcting SAR for deviations in permittivity and conductivity	B	1.9	N	1	1	0.84	1.9	1.6	∞
22	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
23	Liquid conductivity (meas.)	A	1.3	N	1	0.64	0.43	0.83	0.56	9
24	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
25	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	0.96	0.78	9
Combined standard uncertainty, $u_c = \sqrt{\sum_{i=1}^{25} c_i^2 u_i^2}$								11.2	11.0	95.5
Expanded uncertainty (Confidence interval of 95 %), $u_e = 2u_c$								22.4	22.0	

14.2. Measurement Uncertainty for Normal SAR Tests (3GHz~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	13.1	N	2	1	1	6.55	6.55	∞
2	Axial isotropy	B	4.7	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	4.3	4.3	∞
3	Hemispherical isotropy	B	9.6	R	$\sqrt{3}$	1	1	4.8	4.8	∞
4	Boundary effect	B	1.1	R	$\sqrt{3}$	1	1	0.6	0.6	∞
5	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
6	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
7	modulation response	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
8	Readout electronics	B	1.0	N	1	1	1	1.0	1.0	∞
9	Response time	B	0.0	R	$\sqrt{3}$	1	1	0.0	0.0	∞
10	Integration time	B	1.7	R	$\sqrt{3}$	1	1	1.0	1.0	∞
11	RF ambient conditions-noise	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
12	RF ambient conditions-reflection	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Probe positioned mech. Restrictions	B	0.35	R	$\sqrt{3}$	1	1	0.2	0.2	∞
14	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
15	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
16	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	5
17	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
18	Power scaling	B	0	R	$\sqrt{3}$	1	1	0	0	∞
19	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
20	Phantom uncertainty	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
21	Algorithm for correcting SAR for deviations in permittivity and conductivity	B	1.9	N	1	1	0.84	1.9	1.6	∞
22	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
23	Liquid conductivity (meas.)	A	1.3	N	1	0.64	0.43	0.83	0.56	9
24	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
25	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	0.96	0.78	9
Combined standard uncertainty, $u_c = \sqrt{\sum_{i=1}^{25} c_i^2 u_i^2}$								11.7	11.6	95.5
Expanded uncertainty (Confidence interval of 95 %), $u_e = 2u_c$								23.4	23.2	

15. Main Test Instruments

Table 15.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46103759	2024-11-12	One year
02	Dielectric probe	85070E	MY44300317	/	/
03	Power meter	E4418B	MY50000366	2024-12-09	One year
04	Power sensor	E9304A	MY50000188	2024-12-09	One year
05	Power meter	NRP	102603	2024-12-17	One year
06	Power sensor	NRP-Z51	102211	2024-12-17	One year
07	Signal Generator	E8257D	MY47461211	2025-01-10	One year
08	Amplifier	VTL5400	0404	/	/
09	DAE	DAE4	1790	2024-06-06	One year
10	E-field Probe	EX3DV4	7683	2024-07-03	One year
11	Dipole Validation Kit	D750V3	1163	2022-08-22	Three years
12	Dipole Validation Kit	D835V2	4d057	2024-09-26	Three years
13	Dipole Validation Kit	D1750V2	1152	2022-08-22	Three years
14	Dipole Validation Kit	D1900V2	5d088	2024-09-26	Three years
15	Dipole Validation Kit	D2300V2	1059	2024-09-03	Three years
16	Dipole Validation Kit	D2450V2	873	2024-09-26	Three years
17	Dipole Validation Kit	D2550V2	1010	2024-04-23	Three years
18	Dipole Validation Kit	D3500V2	1084	2022-09-19	Three years
19	Dipole Validation Kit	D3700V2	1049	2022-09-22	Three years
20	Dipole Validation Kit	D3900V2	1028	2022-09-22	Three years
21	Dipole Validation Kit	D5GHzV2	1238	2022-08-17	Three years
22	BTS	E5515C	GB46110722	2025-01-11	One year
23	BTS	MT8820C	6201341853	2025-03-21	One year
24	BTS	CMW500	152499	2024-07-12	One year
25	Thermometer	51II	99250045	2024-11-21	One year
26	Software	DASY5	/	/	/

ANNEX A: Graph Results

GSM 850 Head

Date: 2025-03-22

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 40.792$; $\rho = 1000$ kg/m³

Communication System: UID 0, 4 slot GPRS (0) Frequency: 836.6 MHz Duty Cycle: 1:2

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Right Cheek Middle/Area Scan (71x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.67 W/kg

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

Reference Value = 35.44 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.54 W/kg

SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.751 W/kg

Maximum value of SAR (measured) = 1.92 W/kg

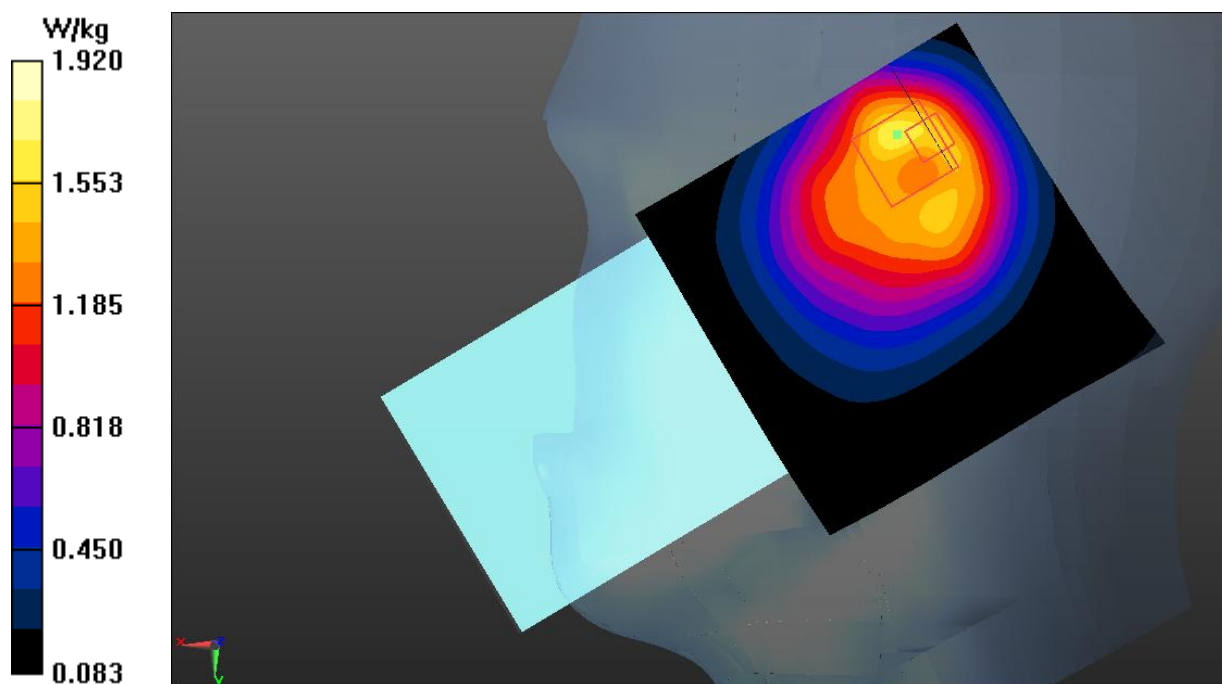


Fig.1 GSM 850 Head

GSM 850 Body

Date: 2025-03-22

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 40.792$; $\rho = 1000$ kg/m³

Communication System: UID 0, 4 slot GPRS (0) Frequency: 836.6 MHz Duty Cycle: 1:2

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Rear Side Middle/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.973 W/kg

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

Reference Value = 17.97 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.720 W/kg; SAR(10 g) = 0.461 W/kg

Maximum value of SAR (measured) = 0.998 W/kg

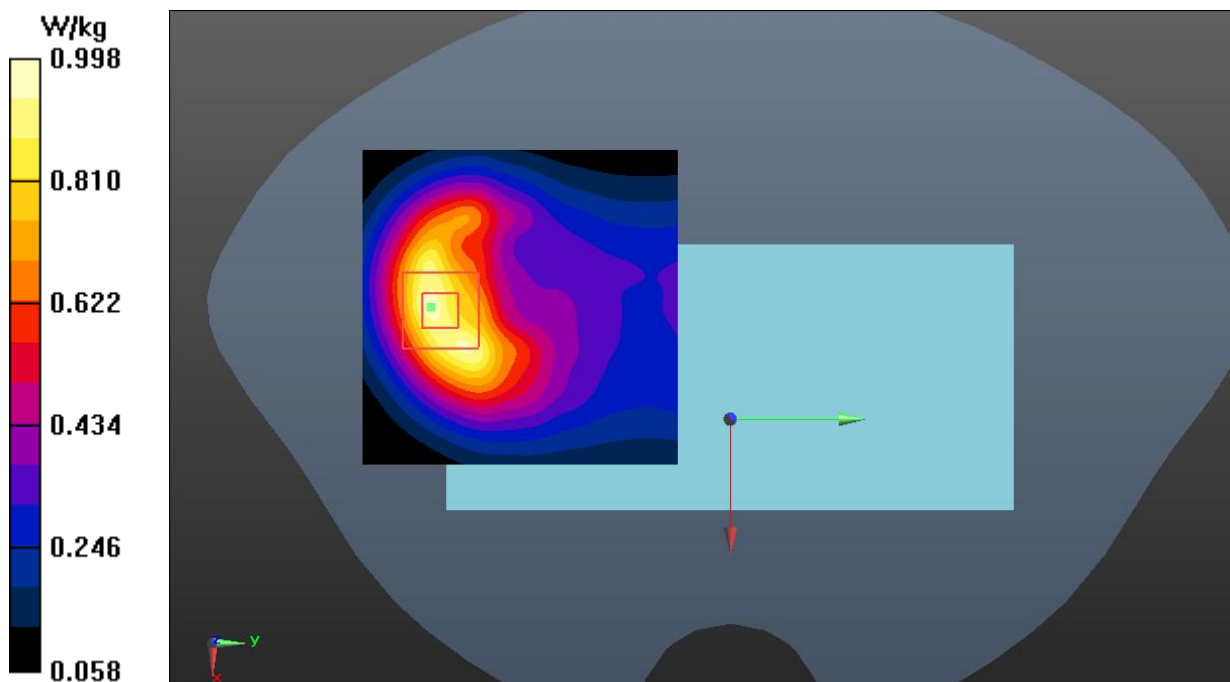


Fig.2 GSM 850 Body

GSM 1900 Head

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 39.252$; $\rho = 1000$ kg/m³

Communication System: UID 0, 3 slot GPRS (0) Frequency: 1850.2 MHz Duty Cycle: 1:2.67

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Left Cheek Low/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.35 W/kg

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

Reference Value = 12.43 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.898 W/kg; SAR(10 g) = 0.518 W/kg

Maximum value of SAR (measured) = 1.27 W/kg

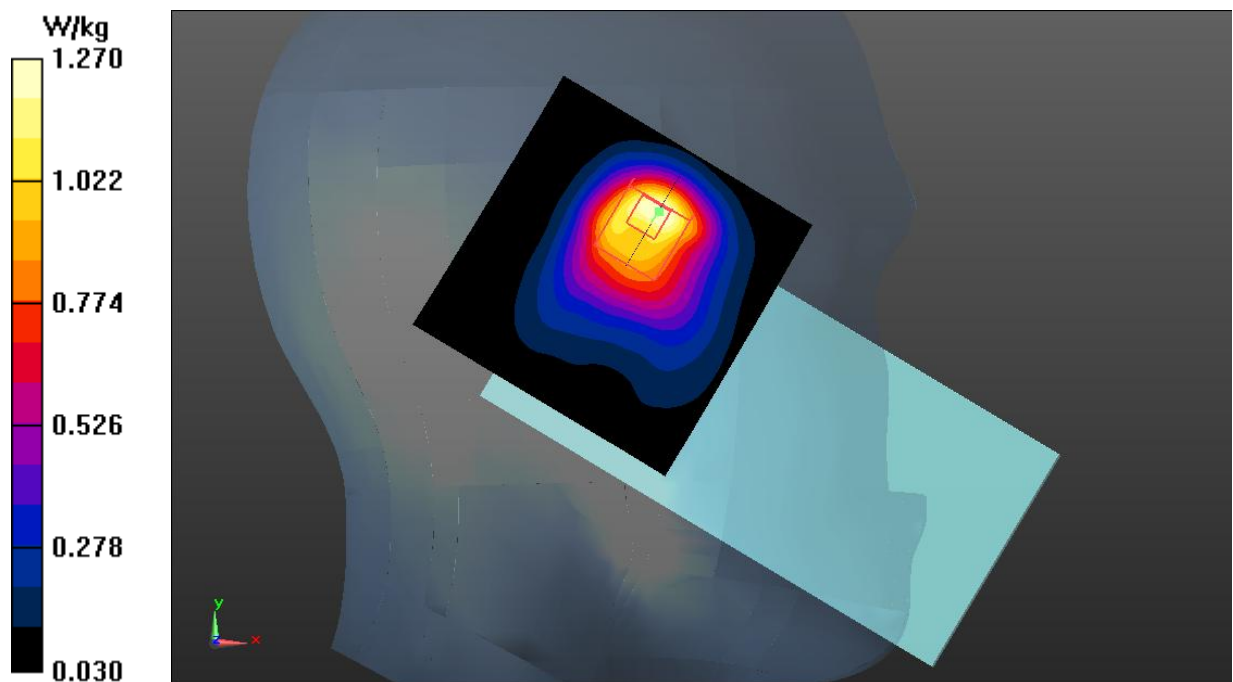


Fig.3 GSM 1900 Head

GSM 1900 Body

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 39.252$; $\rho = 1000$ kg/m³

Communication System: UID 0, 3 slot GPRS (0) Frequency: 1850.2 MHz Duty Cycle: 1:2.67

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Rear Side Low/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.942 W/kg

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

Reference Value = 13.07 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.321 W/kg

Maximum value of SAR (measured) = 0.831 W/kg

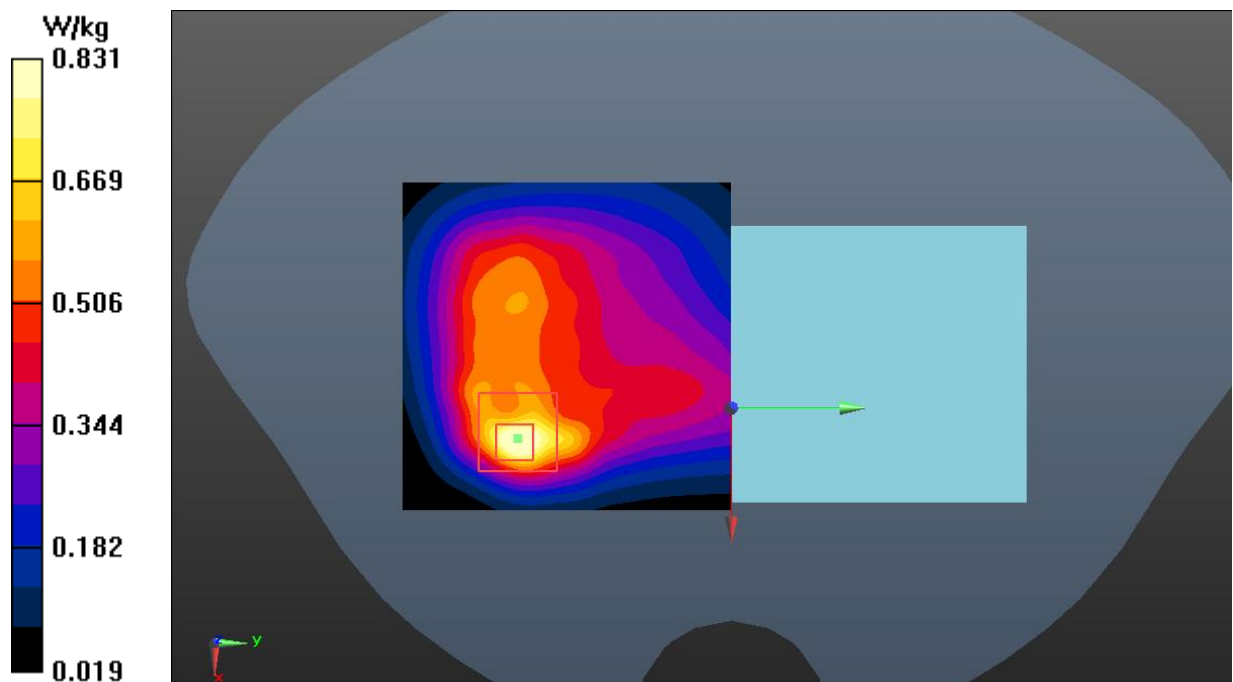


Fig.4 GSM 1900 Body

WCDMA Band 2 Head

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 39.027$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Left Cheek High/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.587 W/kg

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

Reference Value = 8.037 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.709 W/kg

SAR(1 g) = 0.388 W/kg; SAR(10 g) = 0.219 W/kg

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

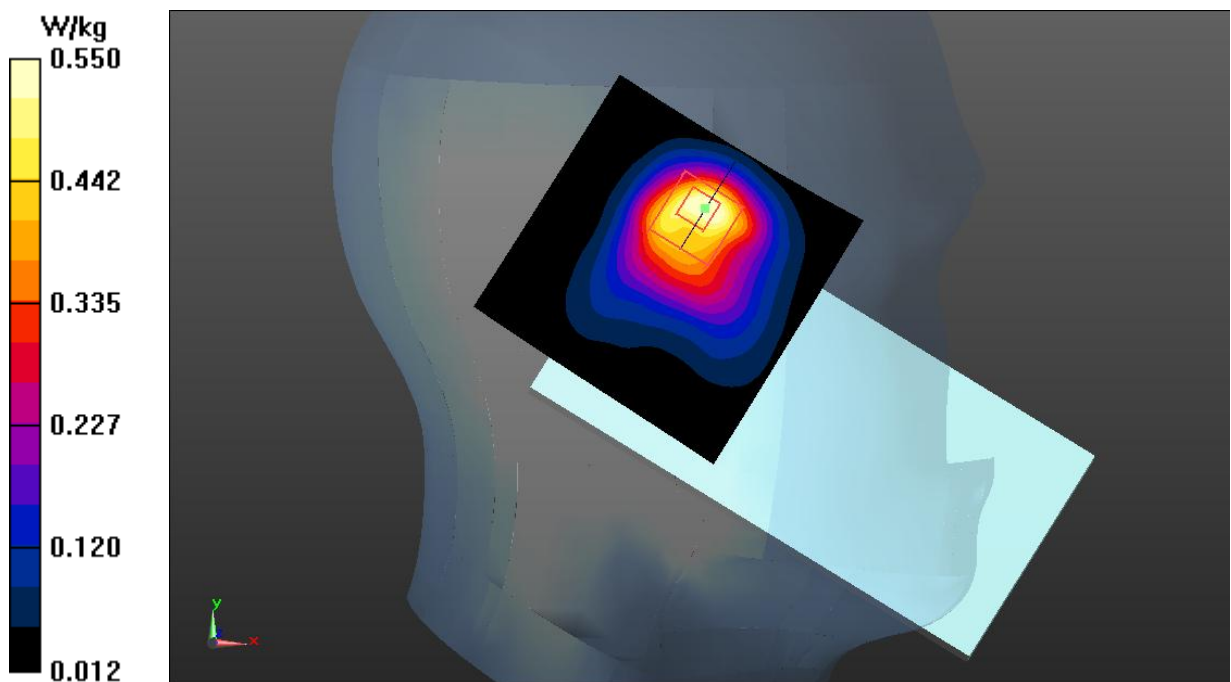


Fig.5 WCDMA Band 2 Head

WCDMA Band 2 Body

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 39.027$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Rear Side High/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.562 W/kg

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

Reference Value = 10.43 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.627 W/kg

SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.195 W/kg

Maximum value of SAR (measured) = 0.492 W/kg

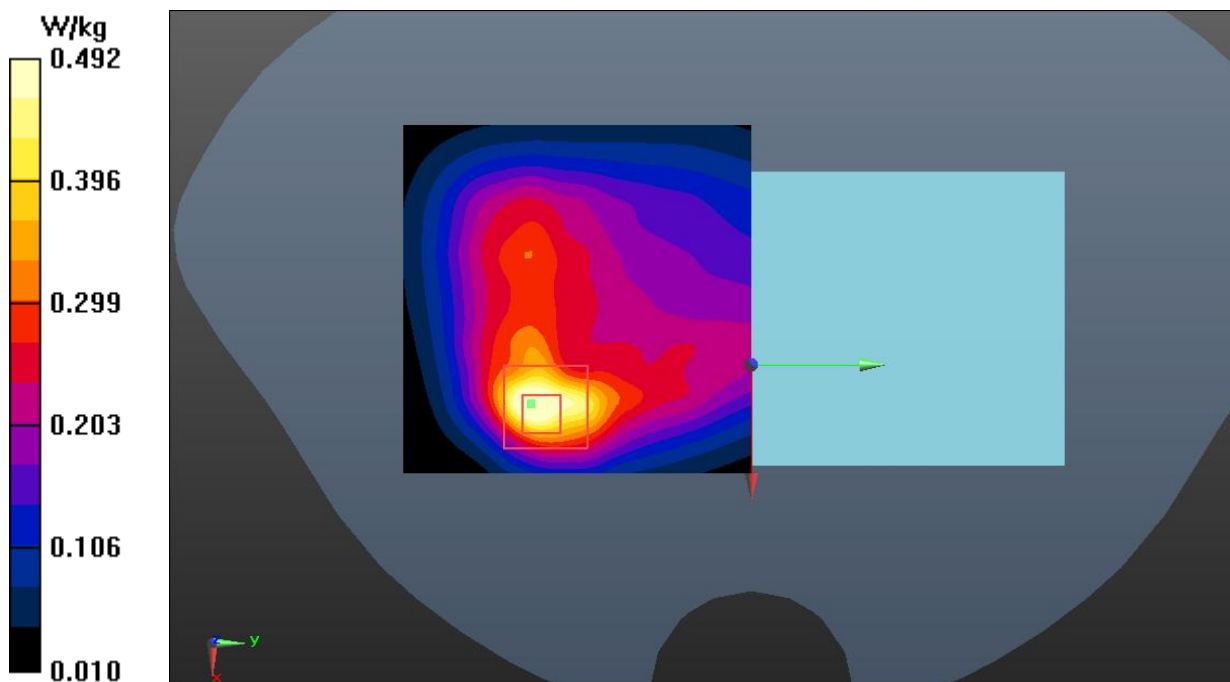


Fig.6 WCDMA Band 2 Body

WCDMA Band 4 Head

Date: 2025-03-26

Electronics: DAE4 Sn1790

Medium: Head 1750MHz

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 39.561$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1732.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.60, 8.19, 8.02)

Left Cheek Middle/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.832 W/kg

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

Reference Value = 10.25 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.620 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 0.756 W/kg

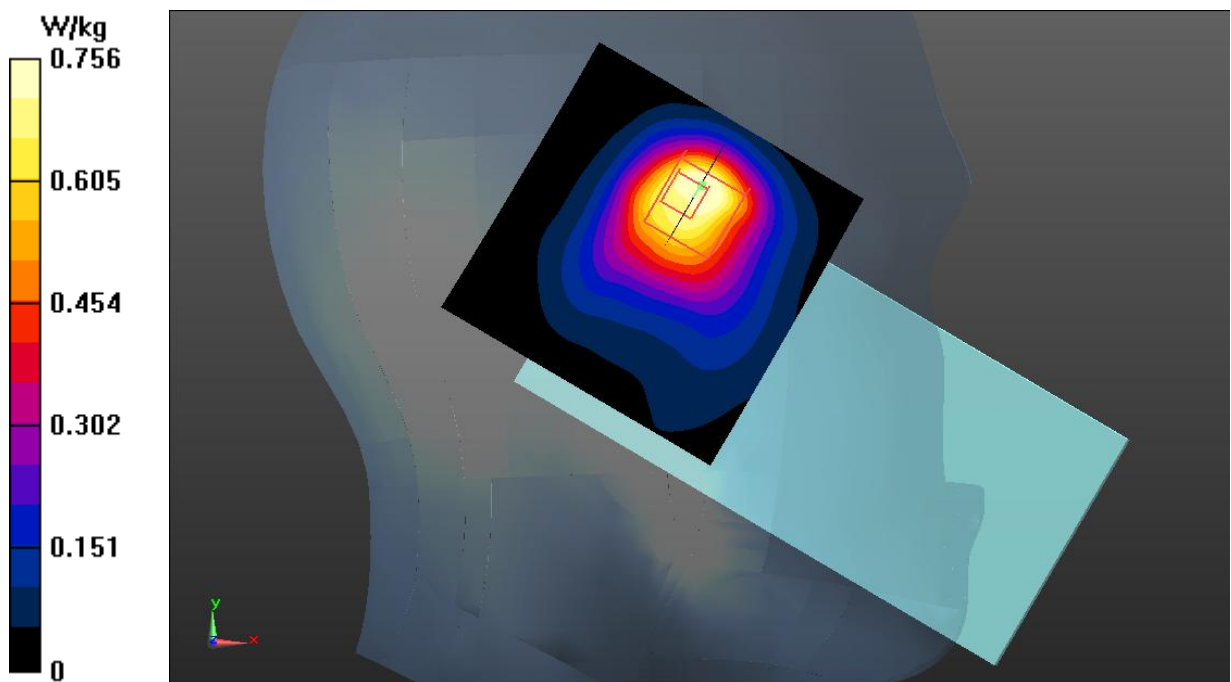


Fig.7 WCDMA Band 4 Head

WCDMA Band 4 Body

Date: 2025-03-26

Electronics: DAE4 Sn1790

Medium: Head 1750MHz

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 39.561$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1732.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.60, 8.19, 8.02)

Rear Side Middle/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.488 W/kg

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

Reference Value = 10.62 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.763 W/kg

SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.074 W/kg

Maximum value of SAR (measured) = 0.341 W/kg

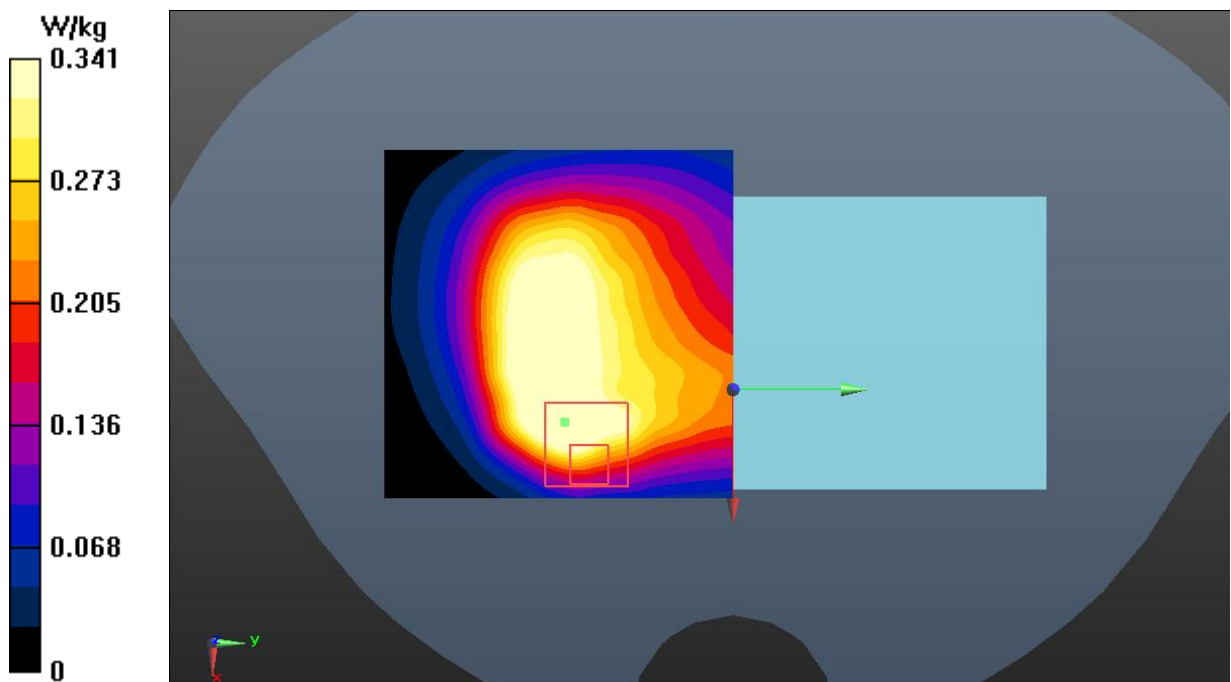


Fig.8 WCDMA Band 4 Body

WCDMA Band 5 Head

Date: 2025-03-22

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 40.792$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 836.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Right Cheek Middle/Area Scan (71x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.712 W/kg

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

Reference Value = 22.46 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.544 W/kg; SAR(10 g) = 0.332 W/kg

Maximum value of SAR (measured) = 0.807 W/kg

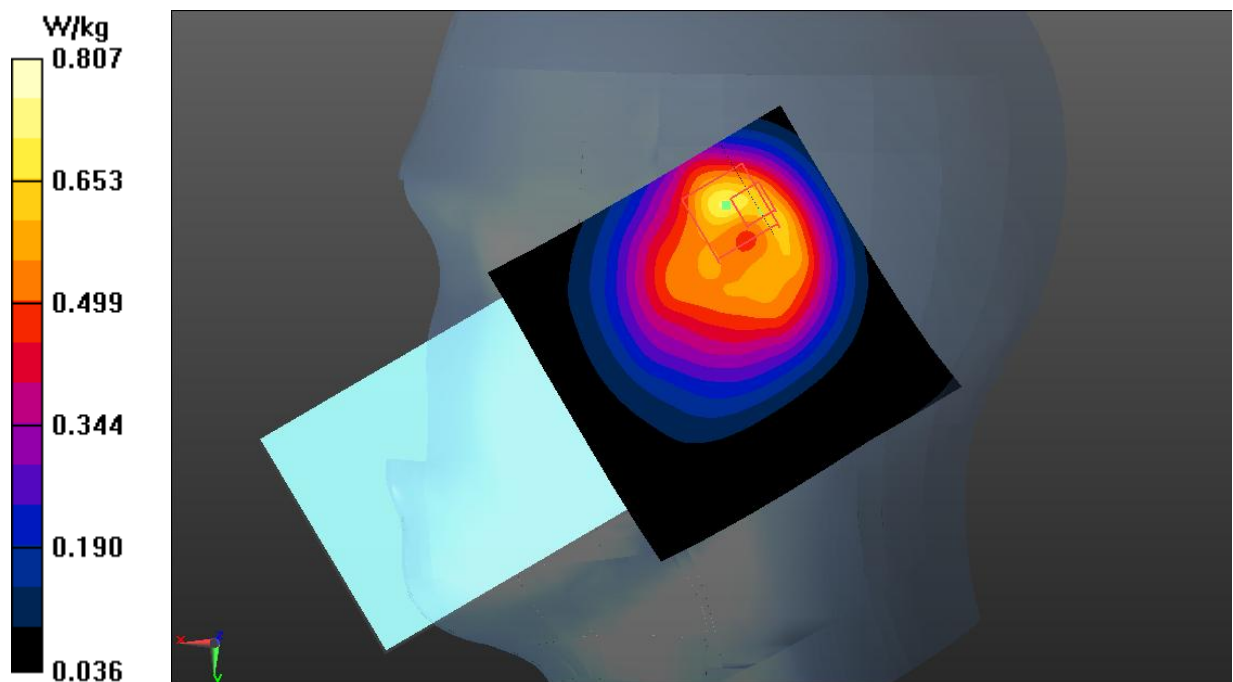


Fig.9 WCDMA Band 5 Head

WCDMA Band 5 Body

Date: 2025-03-22

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 40.792$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 836.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Top Side Middle/Area Scan (41x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.420 W/kg

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

Reference Value = 10.70 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.583 W/kg

SAR(1 g) = 0.307 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 0.438 W/kg

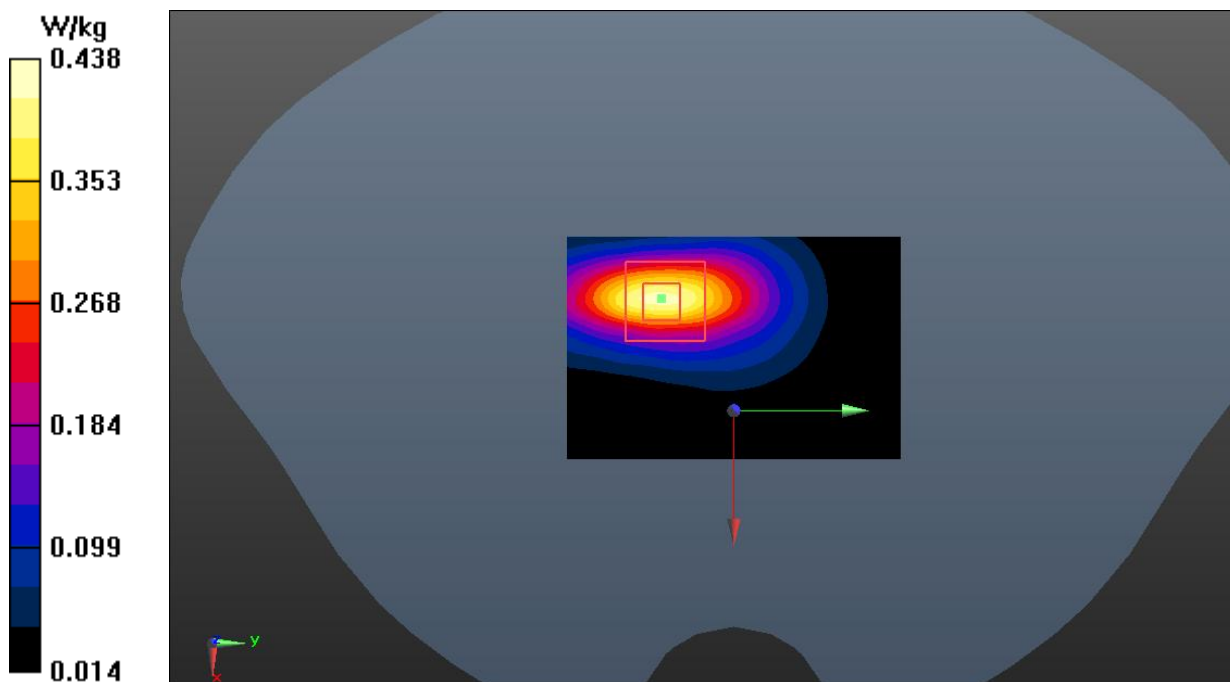


Fig.10 WCDMA Band 5 Body

LTE Band 2 Head

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 39.214$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Left Cheek Low 1RB50/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.241 W/kg

Left Cheek Low 1RB50/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.223 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.232 W/kg

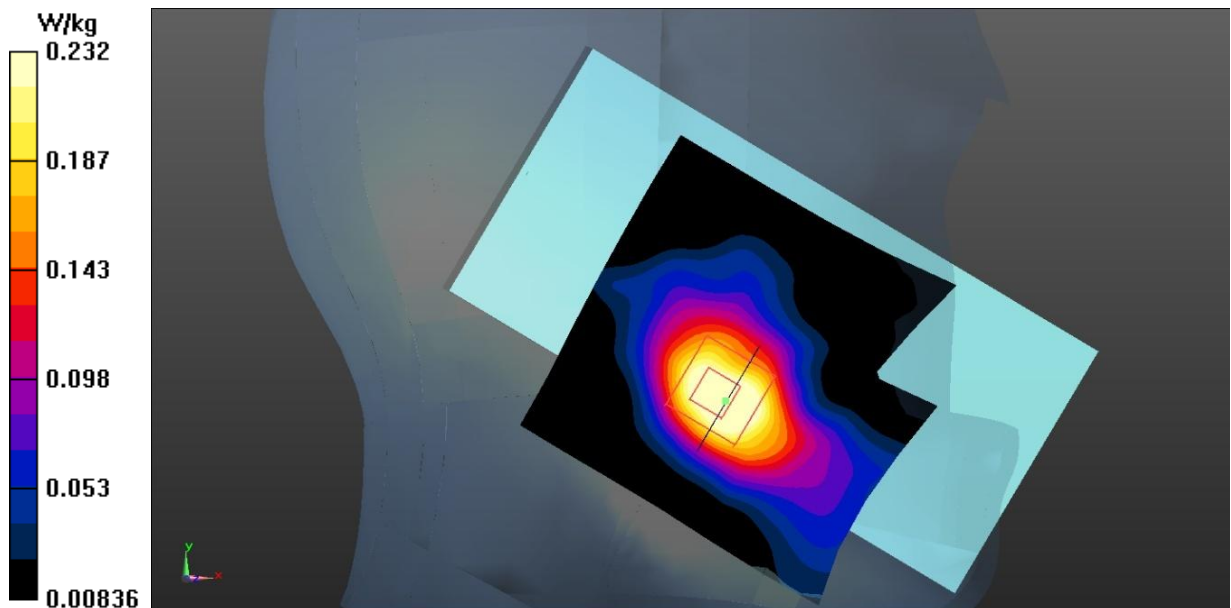


Fig.11 LTE Band 2 Head

LTE Band 2 Body

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 39.214$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Bottom Side Low 50RB25/Area Scan (41x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.602 W/kg

Bottom Side Low 50RB25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 13.50 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.702 W/kg

SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.259 W/kg

Maximum value of SAR (measured) = 0.586 W/kg

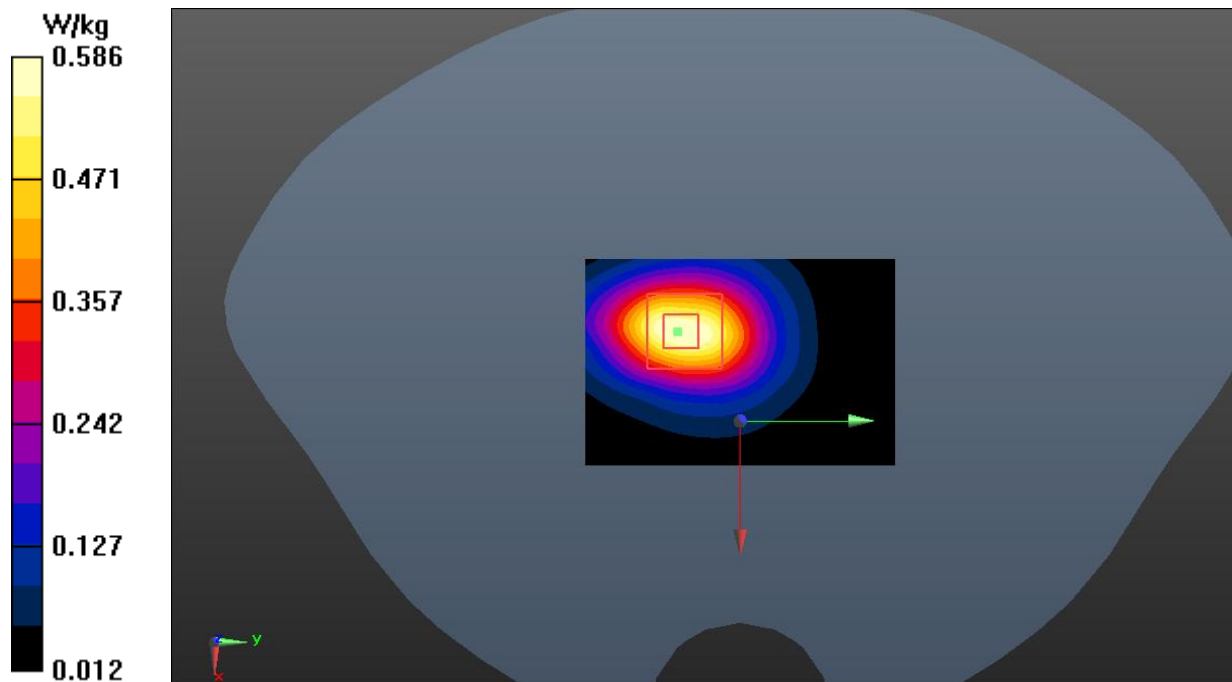


Fig.12 LTE Band 2 Body

LTE Band 5 Head

Date: 2025-03-27

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.892 \text{ S/m}$; $\epsilon_r = 42.016$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 844 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Right Cheek High 1RB49/Area Scan (71x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.669 W/kg

Right Cheek High 1RB49/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.41 V/m ; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.969 W/kg

SAR(1 g) = 0.470 W/kg ; SAR(10 g) = 0.278 W/kg

Maximum value of SAR (measured) = 0.696 W/kg

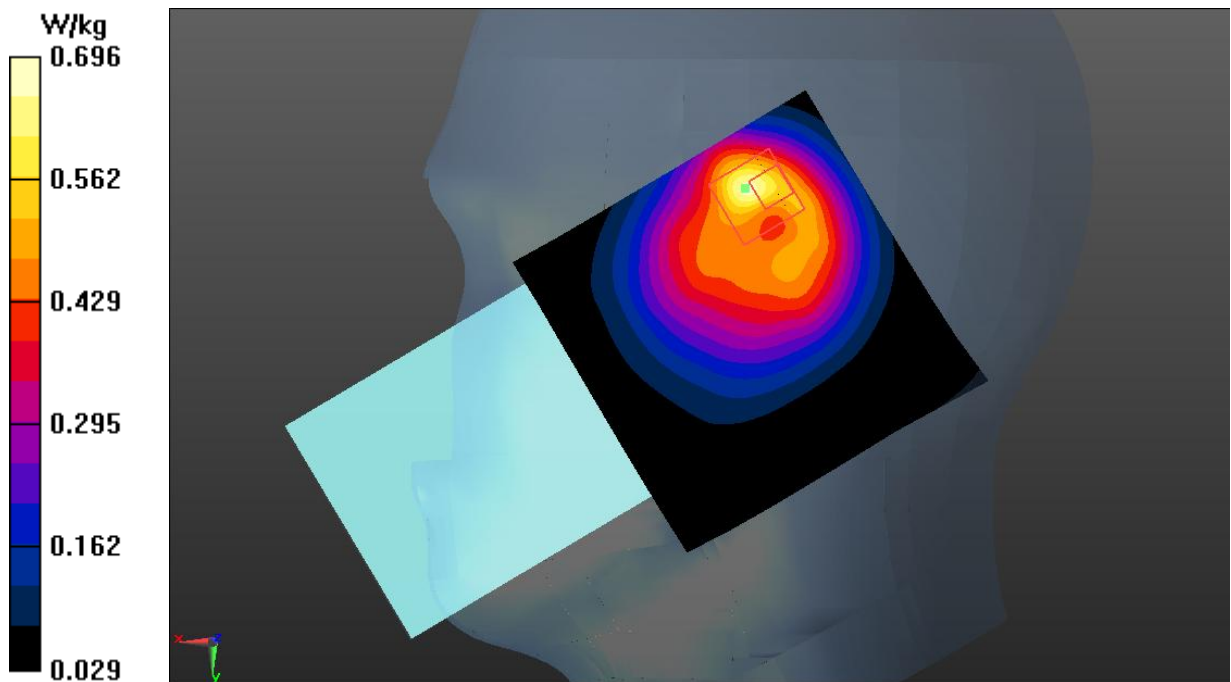


Fig.13 LTE Band 5 Head

LTE Band 5 Body

Date: 2025-03-27

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.892 \text{ S/m}$; $\epsilon_r = 42.016$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 844 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Rear Side High 1RB49/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.421 W/kg

Rear Side High 1RB49/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.65 V/m ; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.557 W/kg

SAR(1 g) = 0.303 W/kg ; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.358 W/kg

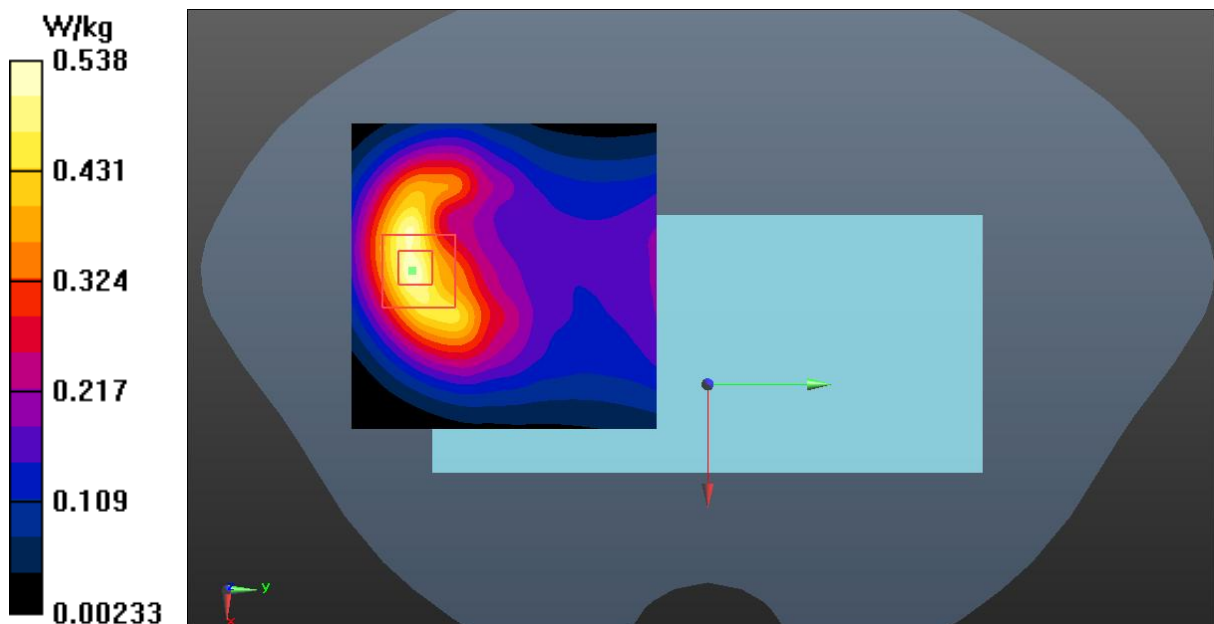


Fig.14 LTE Band 5 Body

LTE Band 7 Head

Date: 2025-03-25

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 38.424$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Right Cheek High 1RB99/Area Scan (121x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.726 W/kg

Right Cheek High 1RB99/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.019 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.218 W/kg

Maximum value of SAR (measured) = 0.749 W/kg

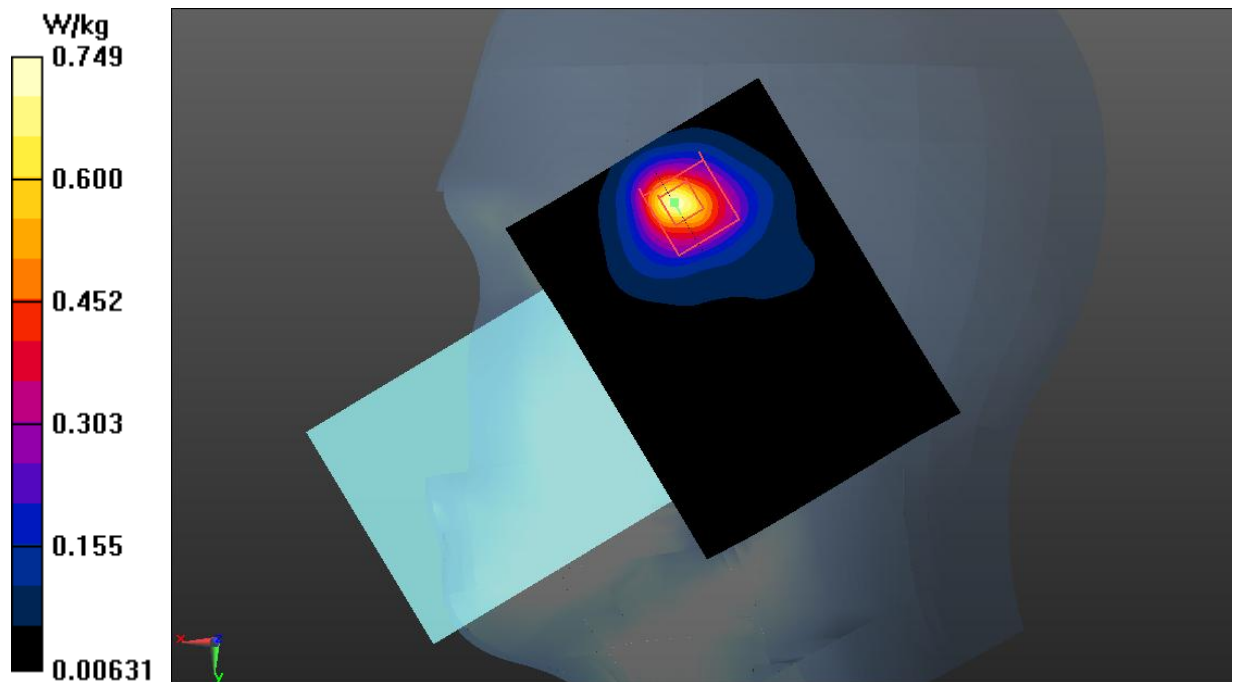


Fig.15 LTE Band 7 Head

LTE Band 7 Body

Date: 2025-03-25

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 38.424$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Rear Side High 100RB/Area Scan (91x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.980 W/kg

Rear Side High 100RB/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.602 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.348 W/kg

Maximum value of SAR (measured) = 1.12 W/kg

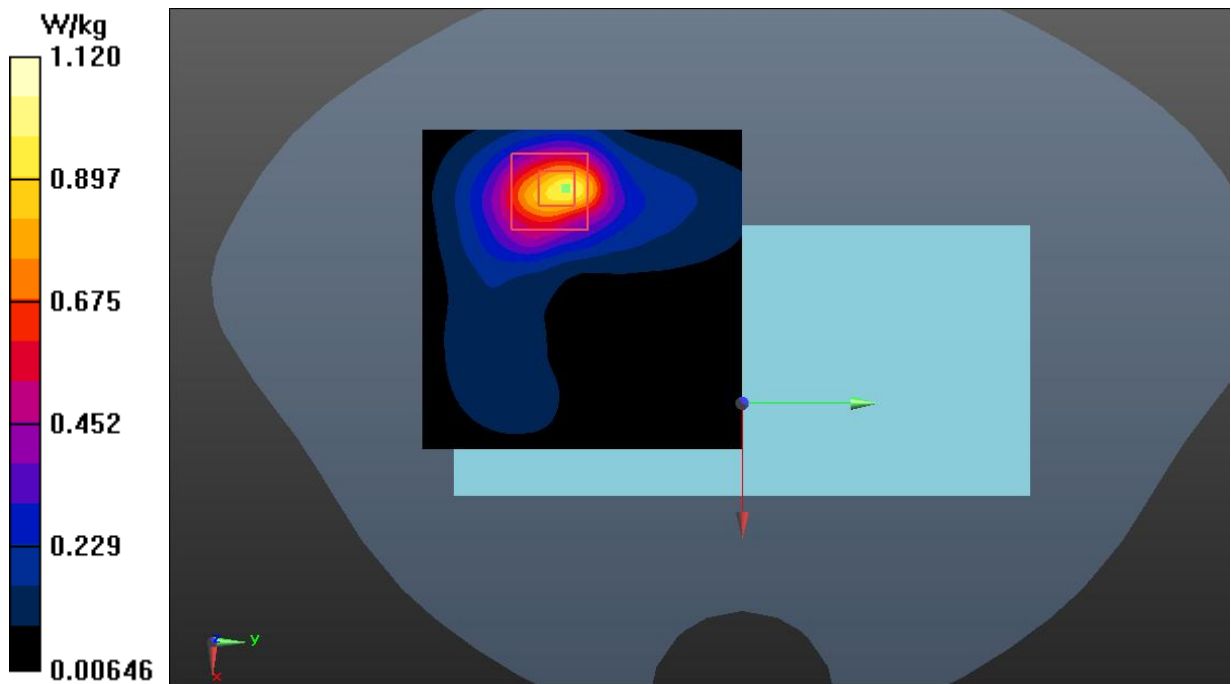


Fig.16 LTE Band 7 Body

LTE Band 12 Head

Date: 2025-03-31

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.887 \text{ S/m}$; $\epsilon_r = 42.01$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Left Cheek Low 1RB49/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.613 W/kg

Left Cheek Low 1RB49/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.52 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.821 W/kg

SAR(1 g) = 0.439 W/kg ; SAR(10 g) = 0.264 W/kg

Maximum value of SAR (measured) = 0.591 W/kg

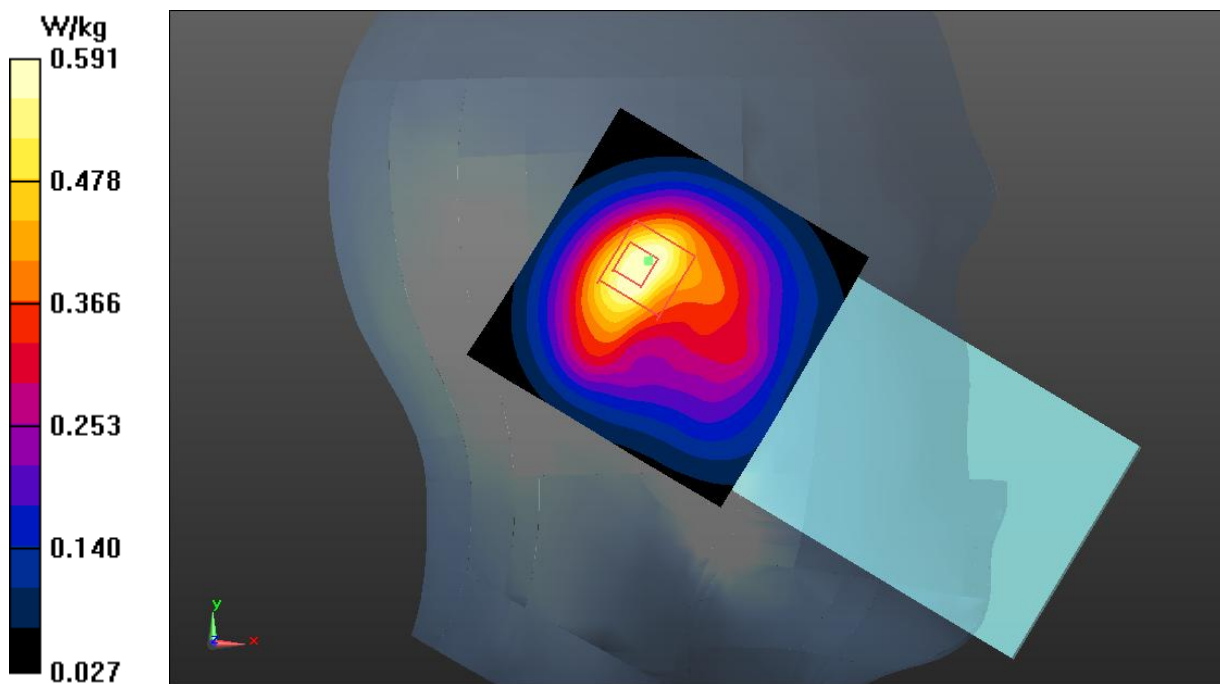


Fig.17 LTE Band 12 Head

LTE Band 12 Body

Date: 2025-03-31

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.887 \text{ S/m}$; $\epsilon_r = 42.01$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Left Side Low 1RB49/Area Scan (41x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.242 W/kg

Left Side Low 1RB49/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.57 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.279 W/kg

SAR(1 g) = 0.200 W/kg ; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.242 W/kg

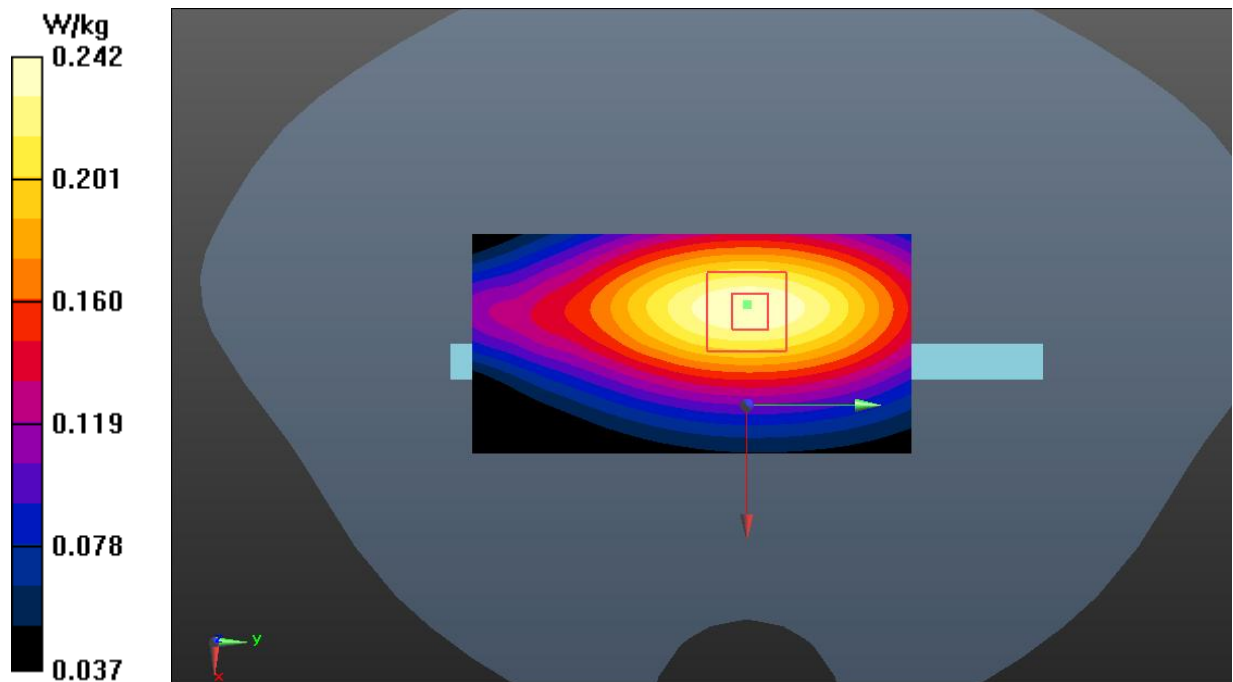


Fig.18 LTE Band 12 Body

LTE Band 13 Head

Date: 2025-04-05

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.902 \text{ S/m}$; $\epsilon_r = 42.333$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Left Cheek Low 1RB0/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.809 W/kg

Left Cheek Low 1RB0/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.91 V/m ; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.607 W/kg ; SAR(10 g) = 0.362 W/kg

Maximum value of SAR (measured) = 0.819 W/kg

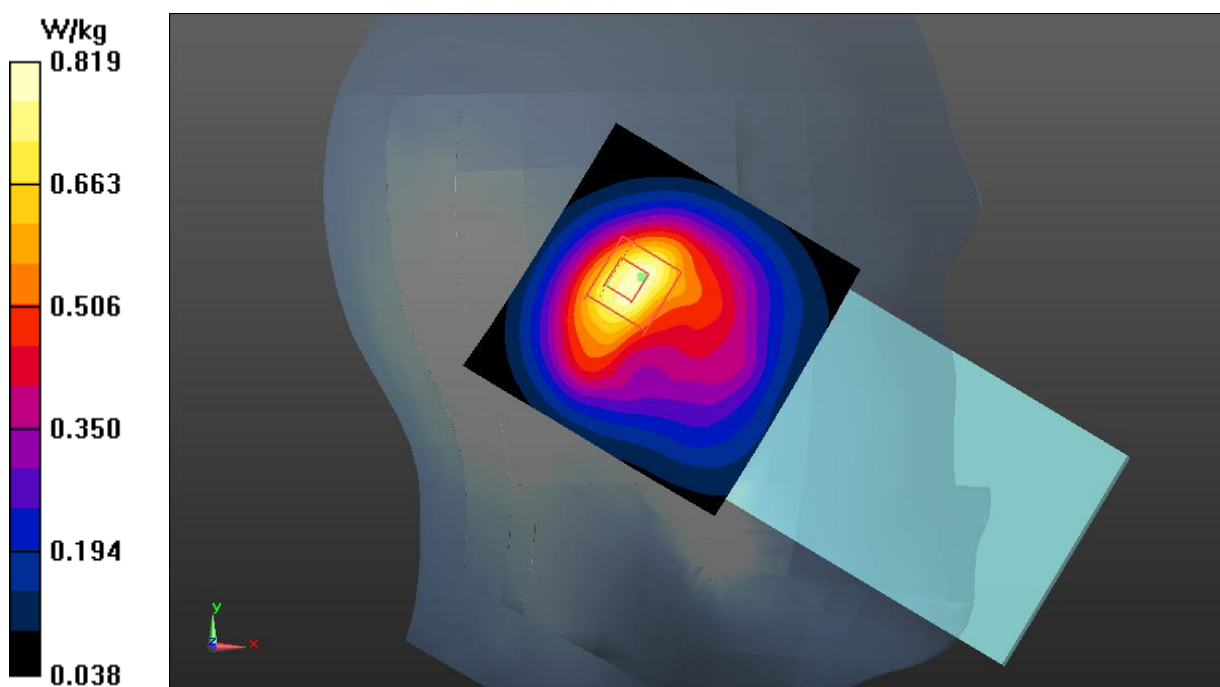


Fig.19 LTE Band 13 Head

LTE Band 13 Body

Date: 2025-04-05

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.902 \text{ S/m}$; $\epsilon_r = 42.333$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Rear Side Low 1RB0/Area Scan (61x91x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.391 W/kg

Rear Side Low 1RB0/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.70 V/m ; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.503 W/kg

SAR(1 g) = 0.294 W/kg ; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 0.400 W/kg

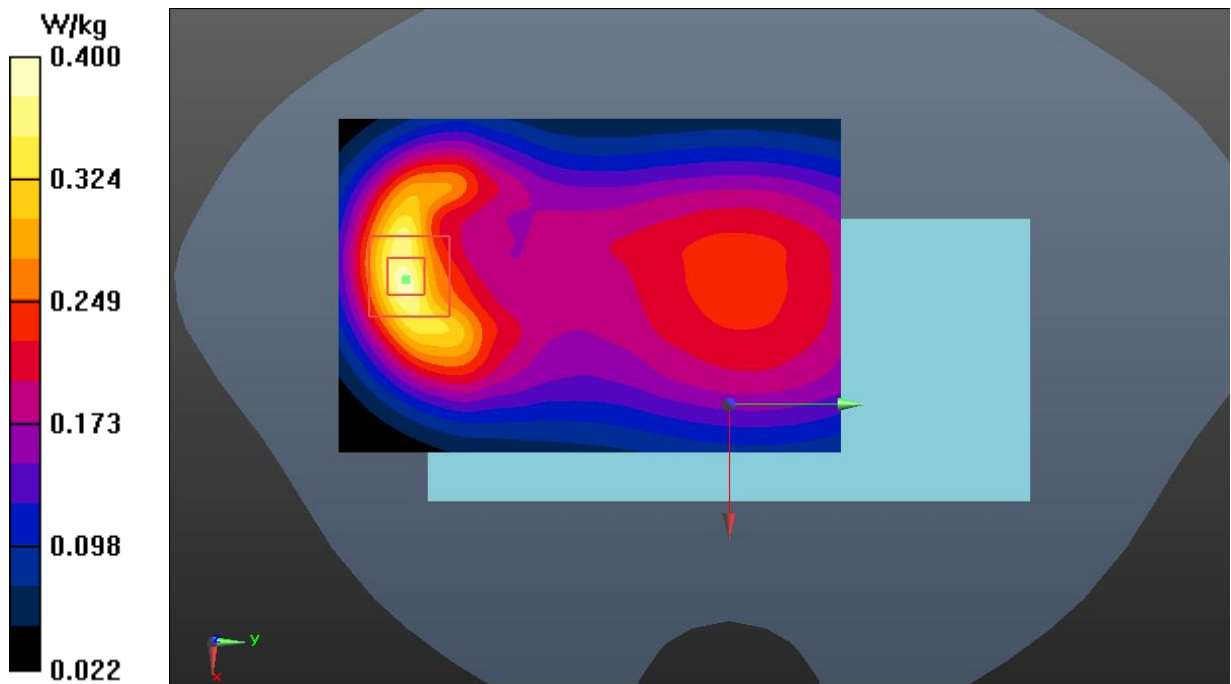


Fig.20 LTE Band 13 Body

LTE Band 14 Head

Date: 2025-04-05

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used (interpolated): $f = 793$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 793 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Left Cheek Middle 1RB24/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.848 W/kg

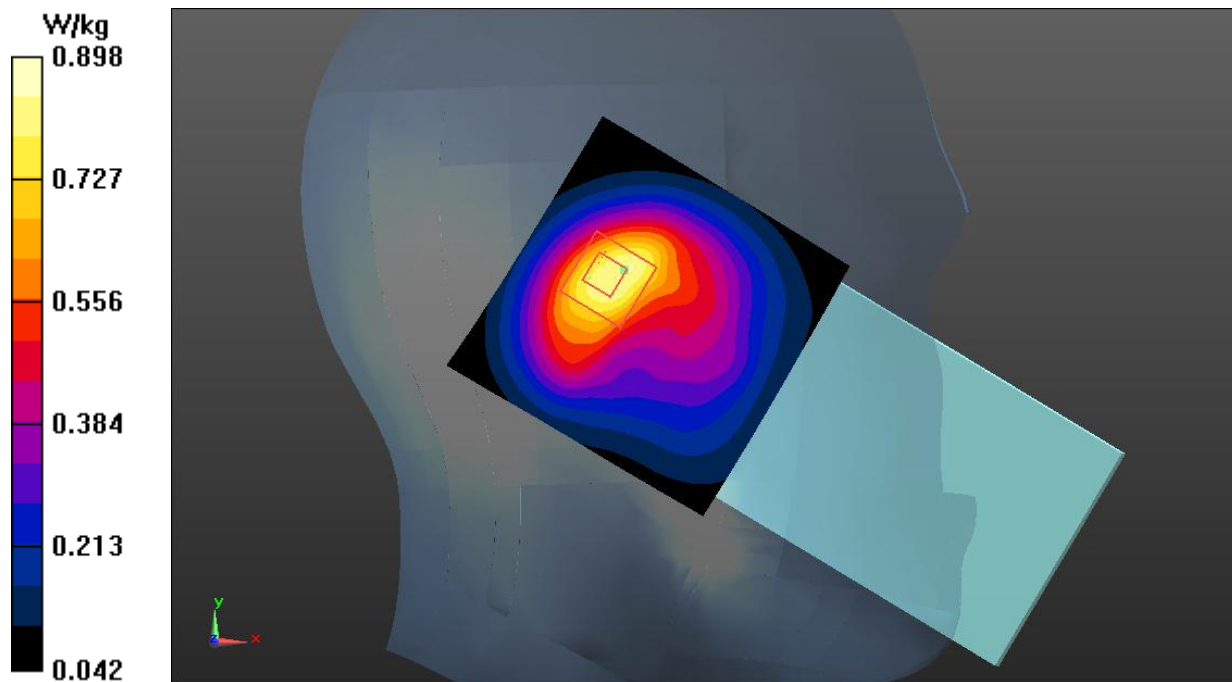
Left Cheek Middle 1RB24/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 26.33 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.392 W/kg

Maximum value of SAR (measured) = 0.898 W/kg

**Fig.21 LTE Band 14 Head**

LTE Band 14 Body

Date: 2025-04-05

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used (interpolated): $f = 793$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 42.201$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 793 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Rear Side Middle 1RB24/Area Scan (61x91x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.445 W/kg

Rear Side Middle 1RB24/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.92 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.582 W/kg

SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 0.461 W/kg

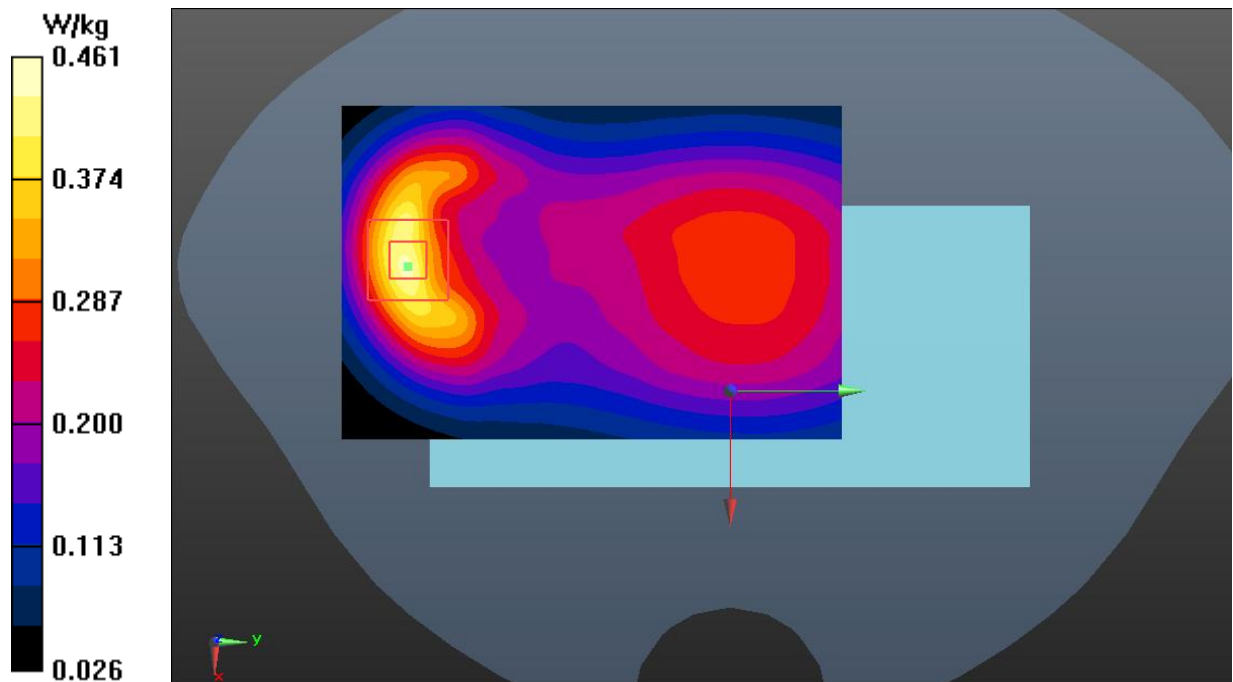


Fig.22 LTE Band 14 Body

LTE Band 25 Head

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 39.214$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Left Cheek Low 1RB0/Area Scan (71x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.637 W/kg

Left Cheek Low 1RB0/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.542 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.227 W/kg

Maximum value of SAR (measured) = 0.571 W/kg

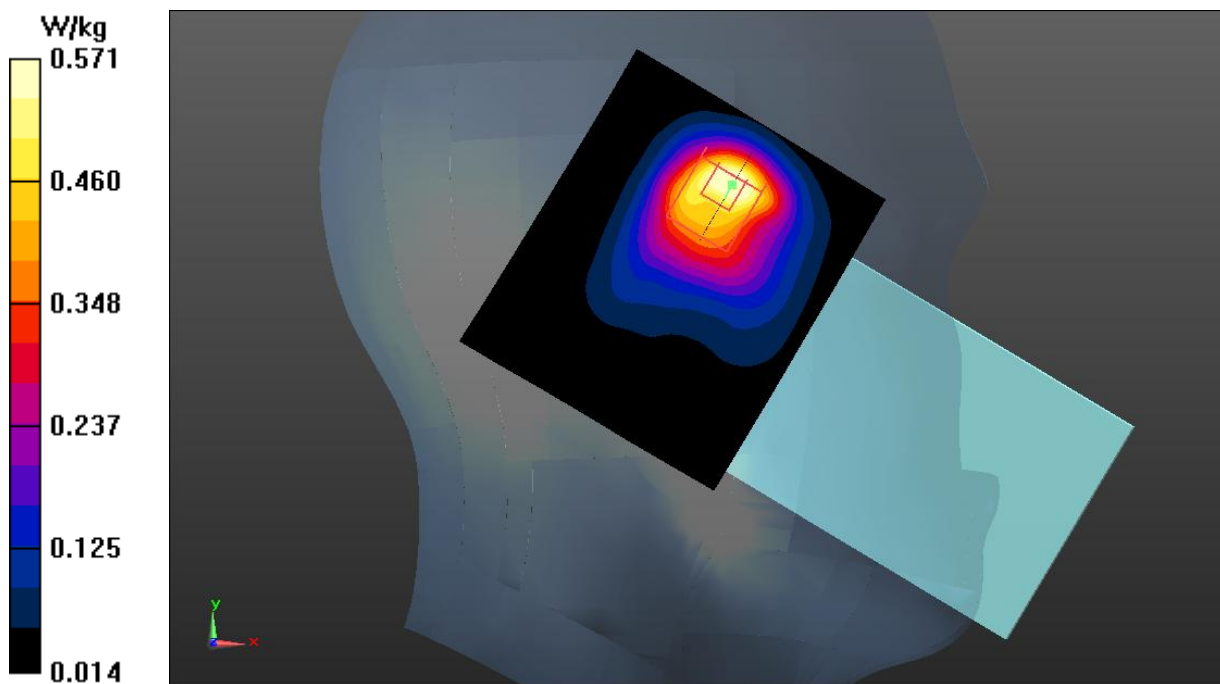


Fig.23 LTE Band 25 Head

LTE Band 25 Body

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 39.214$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Rear Side Low 50RB50/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.580 W/kg

Rear Side Low 50RB50/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.40 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.878 W/kg

SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.268 W/kg

Maximum value of SAR (measured) = 0.697 W/kg

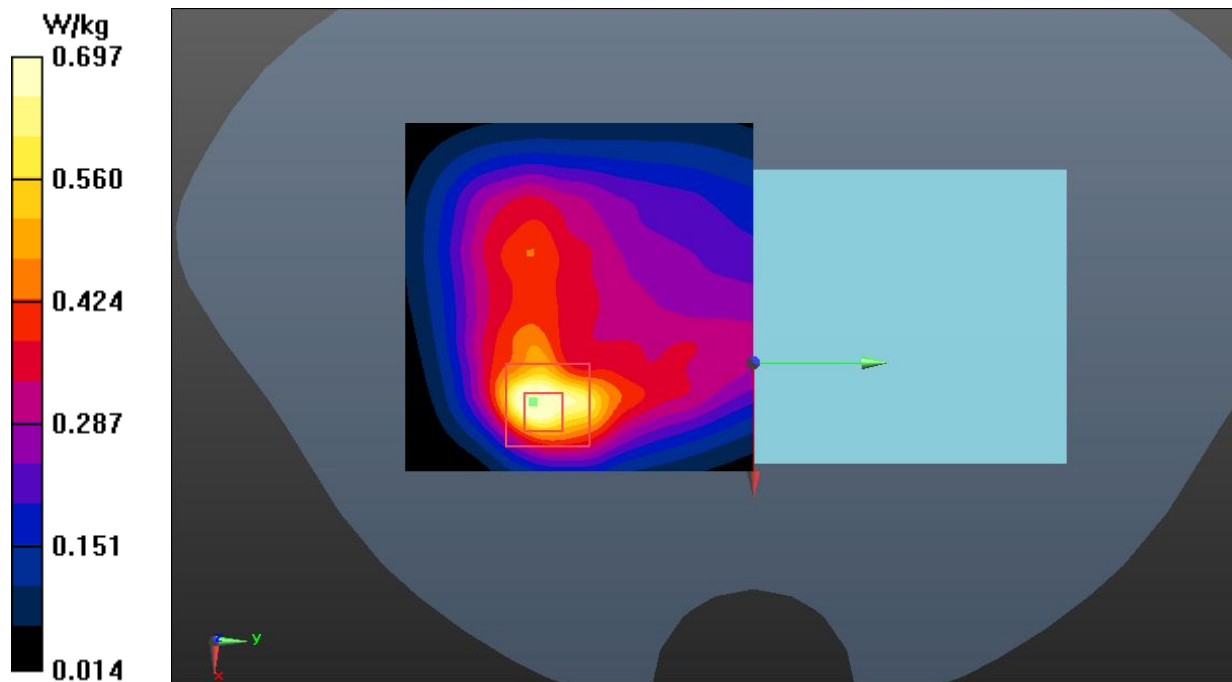


Fig.24 LTE Band 25 Body

LTE Band 26 Head

Date: 2025-03-22

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 822.5$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 40.961$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 822.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Right Cheek Low 1RB74/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.870 W/kg

Right Cheek Low 1RB74/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 23.89 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.627 W/kg; SAR(10 g) = 0.382 W/kg

Maximum value of SAR (measured) = 0.899 W/kg

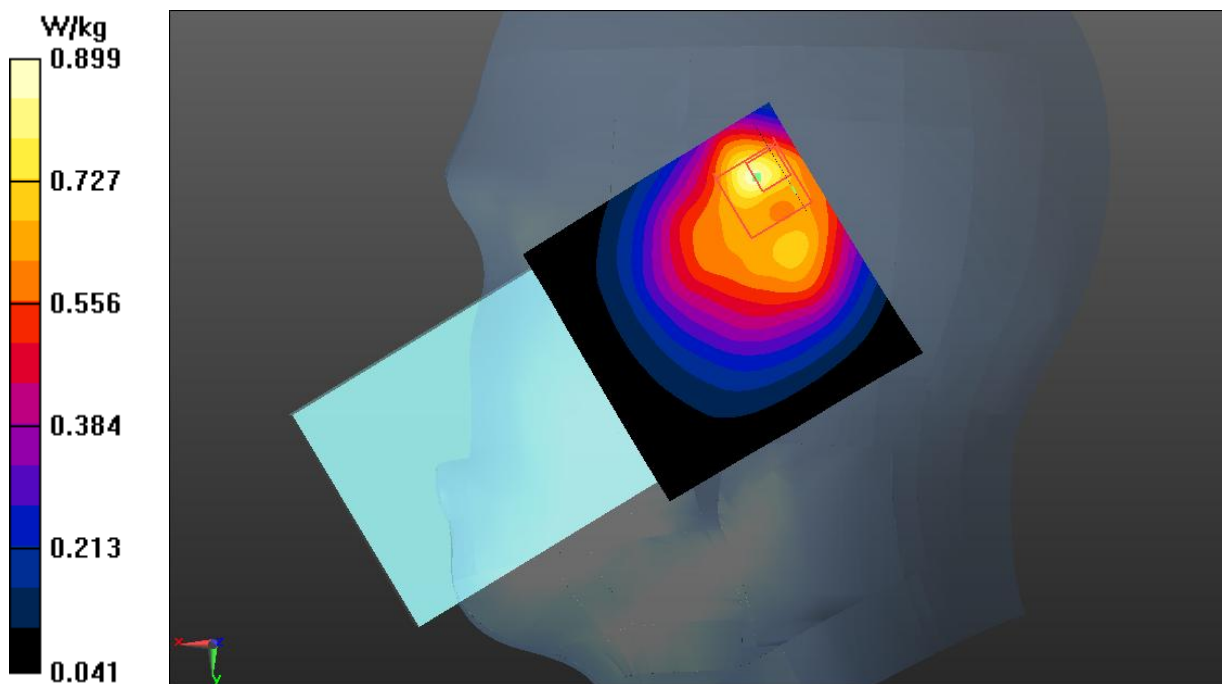


Fig.25 LTE Band 26 Head

LTE Band 26 Body

Date: 2025-03-22

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 822.5$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 40.961$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 822.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Rear Side Low 1RB74/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.455 W/kg

Rear Side Low 1RB74/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 13.70 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.577 W/kg

SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.209 W/kg

Maximum value of SAR (measured) = 0.459 W/kg

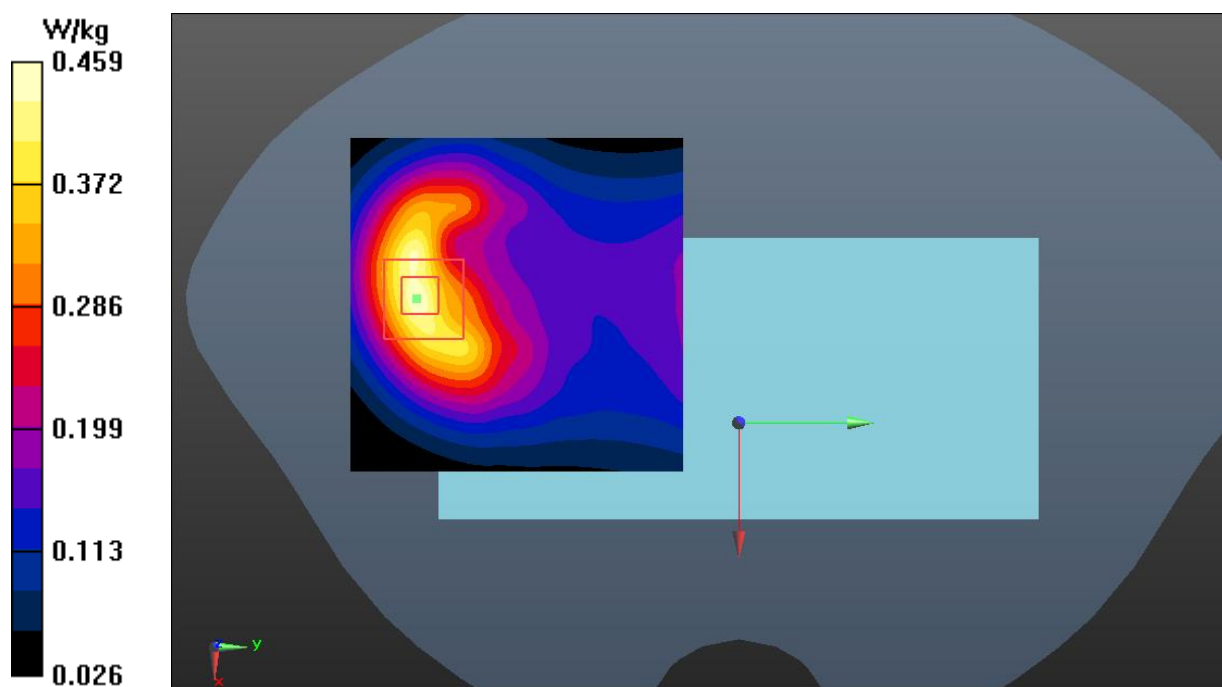


Fig.26 LTE Band 26 Body