

FCC SAR REPORT

Report No.: JYTSZ-R14-2500093

Applicant: INFINIX MOBILITY LIMITED

Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE
19-25 SHAN MEI STREET FOTAN NT HONGKONG

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: X6886

Trade mark: Infinix

FCC ID: 2AIZN-YY5-X6886

Applicable standards: FCC 47 CFR Part 2.1093

Date of Test: 09 Apr., 2025 ~ 03 May, 2025

Test Result: Maximum Reported 1-g SAR (W/kg)
Head: 0.851 Body: 0.724 Hotspot: 1.169

Project by: Eric Wang **Date:** 16 May, 2025

Reviewed by: Jela Zhang **Date:** 16 May, 2025

Approved by: James Wei **Date:** 16 May, 2025

Manager

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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2 Version

Version No.	Date	Description
00	16 May, 2025	Original

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4 SAR Results Summary

The maximum results of Specific Absorption Rate (SAR) found during test as below:
<Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported 1-g SAR (W/kg)	
Head	GSM 850	0.223	PCE	0.851	
	PCS 1900	0.851			
	WCDMA Band II	0.389			
	WCDMA Band IV	0.467			
	WCDMA Band V	0.489			
	LTE Band 2	0.525			
	LTE Band 4	0.480			
	LTE Band 5	0.502			
	LTE Band 7	0.669			
	LTE Band 12	0.381			
	LTE Band 13	0.372			
	LTE Band 17	0.380			
	LTE Band 25	0.601			
	LTE Band 26	0.530			
	LTE Band 38	0.567			
	LTE Band 41	0.566			
	LTE Band 66	0.568			
	WLAN 2.4 GHz	0.383			DTS
	Bluetooth	0.079			DSS
	WLAN 5.2 GHz	0.290	NII		
	WLAN 5.3 GHz	0.366			
	WLAN 5.6 GHz	0.351			
	WLAN 5.8 GHz	0.341			
Body (10 mm Gap)	GSM 850	0.362	PCE	0.724	
	PCS 1900	0.590			
	WCDMA Band II	0.182			
	WCDMA Band IV	0.638			
	WCDMA Band V	0.356			
	LTE Band 2	0.228			
	LTE Band 4	0.627			
	LTE Band 5	0.381			
	LTE Band 7	0.724			
	LTE Band 12	0.335			
	LTE Band 13	0.346			
	LTE Band 17	0.336			
	LTE Band 25	0.219			
	LTE Band 26	0.396			
	LTE Band 38	0.330			
	LTE Band 41	0.331			
	LTE Band 66	0.613			
	WLAN 2.4GHz	0.171			DTS
	Bluetooth	0.035			DSS
	WLAN 5.2 GHz	0.047	NII		
	WLAN 5.3 GHz	0.052			
	WLAN 5.6 GHz	0.099			
	WLAN 5.8 GHz	0.089			
Hotspot (10 mm Gap)	GSM 850	0.539	PCE	1.169	
	PCS 1900	0.655			
	WCDMA Band II	0.317			
	WCDMA Band IV	1.169			
	WCDMA Band V	0.542			

	LTE Band 2	0.333		
	LTE Band 4	0.762		
	LTE Band 5	0.630		
	LTE Band 7	0.724		
	LTE Band 12	0.478		
	LTE Band 13	0.746		
	LTE Band 17	0.483		
	LTE Band 25	0.323		
	LTE Band 26	0.668		
	LTE Band 38	0.330		
	LTE Band 41	0.331		
	LTE Band 66	0.756		
	WLAN 2.4 GHz	0.171	DTS	
	Bluetooth	0.041	DSS	
	WLAN 5.2 GHz	0.085	NII	
	WLAN 5.8 GHz	0.167		

<Highest Reported simultaneous SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported Simultaneous Transmission 1-g SAR (W/kg)
Bottom	WWAN	1.169	PCE	1.169
	WLAN 2.4 GHz	0.000	DTS	
	NFC	0.000	DXX	

Note:

1. The highest simultaneous transmission is scalar summation of Reported standalone SAR per FCC KDB 690783 D01 v01r03, and scalar SAR summation of all possible simultaneous transmission scenarios are < 1.6W/kg.
2. This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEC/IEEE 62209-1528:2020.
3. For DFS operation type is slaver device without radar detection function, 5.3GHz WLAN and 5.6GHz WLAN does not support hotspot mode.

5 General Information

5.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address of Applicant:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	INFINIX MOBILITY LIMITED
Address of Manufacturer:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address of Factory:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

5.2 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	X6886		
Category of device	Portable device		
Operation Frequency:	GSM:	GSM850: 824.2~848.8 MHz	PCS 1900: 1850.2~1909.8 MHz
	WCDMA:	Band II: 1852.4~1907.6 MHz	Band V: 826.4~846.6 MHz
		Band IV: 1712.4~1752.6 MHz	
	LTE:	Band 2:1850MHz~1910MHz	Band 4:1710MHz~1755MHz
		Band 5:824MHz~849MHz	Band 7: 2500MHz~2570MHz
		Band 12: 699MHz~716MHz	Band 13: 777MHz~787MHz
		Band 17: 704MHz~716MHz	Band 25 : 1850MHz-1915MHz
		Band 26:814MHz~849MHz	Band 38: 2570MHz~2620MHz
		Band 41: 2535MHz~2655MHz	Band 66:1710MHz~1780MHz
	LTE CA(UL):	CA_2C, CA_5B, CA_7C, CA_38C, CA_41C, CA_66C	
	Wi-Fi:	2412MHz~2462MHz	5150MHz-5250MHz
		5250MHz-5350MHz	5470MHz-5725MHz
		5725MHz-5850MHz	
	Bluetooth: 2402 MHz ~ 2480 MHz		
	NFC:13.56MHz		
Modulation technology:	GSM:	☒ Voice(GMSK)	☒ GPRS(GMSK)
		☒ EGPRS(GMSK, 8PSK)	
	WCDMA:	☒ RMC(QPSK)	☒ HSUPA(QPSK)
		☒ HSDPA(QPSK, 16QAM)	
	LTE:	☒ QPSK	☒ 16QAM
		☒ 64QAM	
	Wi-Fi:	☒ 802.11b(DSSS)	☒ 802.11a/g/n/ac (OFDM)
	Bluetooth:	☒ BDR(GFSK)	☒ EDR(π /4-DQPSK, 8DPSK)
		☒ LE(GFSK)	
	NFC:	☒ ASK	
Antenna Type:	Internal Antenna		
Antenna Gain:	GSM 850:	ANT 0:-5.21 dBi	PCS 1900:
		ANT 2:-5.79 dBi	ANT 1:-2.43 dBi
		ANT 3:-1.78 dBi	
	WCDMA Band II:	ANT 1:-2.43 dBi	WCDMA Band V
		ANT 0:-5.21 dBi	

		ANT 3:-1.78 dBi		ANT 2:-5.79 dBi
	WCDMA Band IV:	ANT 1:-1.25 dBi		
		ANT 3:-7.93 dBi		
	LTE Band 2:	ANT 1:-2.43 dBi	LTE Band 4	ANT 1:-1.25 dBi
		ANT 3:-1.78 dBi		ANT 3:-7.93 dBi
	LTE Band 5:	ANT 0:-5.21 dBi	LTE Band 7:	ANT 1:-0.44 dBi
		ANT 2:-5.79 dBi		ANT 3:-0.95 dBi
	LTE Band 12:	ANT 0:-5.41 dBi	LTE Band 13:	ANT 0:-5.41 dBi
		ANT 2:-5.98 dBi		ANT 2:-5.98 dBi
	LTE Band 17:	ANT 0:-5.41 dBi	LTE Band 25:	ANT 1:-2.43 dBi
		ANT 2:-5.98 dBi		ANT 3:-1.78 dBi
	LTE Band 26:	ANT 1:-2.43 dBi	LTE Band 38:	ANT 1:-0.44 dBi
		ANT 3:-1.78 dBi		ANT 3:-0.95 dBi
	LTE Band 41:	ANT 1:-0.44 dBi	LTE Band 66:	ANT 1:-1.25 dBi
		ANT 3:-0.95 dBi		ANT 3:-7.93 dBi
	Bluetooth:	-1.43 dBi	2.4G Wi-Fi:	ANT13: -1.59 dBi
				ANT14: -1.43 dBi
	5G Wi-Fi:	-1.39 dBi		
(E)GPRS Class:	(E)GPRS Class: 12			
DFS Operation Type:	☐ Master Device ☐ Slaver Device with Radar detection function ☒ Slaver Device without Radar detection function			
Dimensions (L*W*H):	164mm (L)×76 mm (W)× 6 mm (H)			
Accessories information:	Adapter: Model: U450XSB Input: AC100-240V, 50/60Hz, 1.8A Output: DC 5.0V, 3.0A 15.0W or 5.0-10.0V, 4.5A or 11.0V, 4.1A 45.0W MAX		Battery: Rechargeable Li-ion Polymer Battery DC3.92V, 5060mAh	
			Headset: Support headset (shipped without)	

5.3 Maximum RF Output Power

Mode	Average Power (dBm)	
	GSM 850	PCS 1900
GSM (Voice)	33.00	29.44
GPRS (1 TX Slot)	33.00	29.48
GPRS (2 TX Slots)	32.12	28.73
GPRS (3 TX Slots)	30.31	26.96
GPRS (4 TX Slots)	29.08	25.77
EGPRS (1 TX Slot)	27.35	26.02
EGPRS (2 TX Slots)	27.29	25.98
EGPRS (3 TX Slots)	27.20	25.93
EGPRS (4 TX Slots)	27.09	25.84

Mode	Average Power (dBm)		
	WCDMA Band II	WCDMA Band IV	WCDMA Band V
AMR 12.2 kbps	22.98	23.04	23.57
RMC 12.2 kbps	22.93	23.03	23.55
HSDPA Sub-test 1	22.95	23.09	23.60
HSDPA Sub-test 2	22.35	22.50	23.06
HSDPA Sub-test 3	22.39	22.48	23.03
HSDPA Sub-test 4	22.39	22.48	23.01
HSUPA Sub-test 1	20.89	20.99	21.60
HSUPA Sub-test 2	21.35	21.47	22.07
HSUPA Sub-test 3	21.93	21.97	22.62
HSUPA Sub-test 4	20.87	20.98	21.67
HSUPA Sub-test 5	22.91	23.01	23.59

Mode	Average Power (dBm)										
	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17	LTE Band 25	LTE Band 26	LTE Band 41	LTE Band 66
BW/1.4 MHz	23.54	23.49	24.24	/	24.37	/	/	23.59	24.62	/	23.48
BW/3.0 MHz	23.40	23.35	24.12	/	24.19	/	/	23.47	24.52	/	23.47
BW/5.0 MHz	23.63	23.69	24.51	23.17	24.48	23.69	24.39	23.79	24.82	23.75	23.83
BW/10 MHz	23.58	23.65	24.43	23.03	24.36	23.65	24.32	23.71	24.76	23.69	23.77
BW/15 MHz	23.61	23.67	/	23.04	/	/	/	23.77	24.9	23.71	23.76
BW/20 MHz	23.67	23.68	/	23.02	/	/	/	23.85	/	23.74	23.7

ANT 13:

WLAN 2.4 GHz Band Average Power (dBm)			
Mode/Band	b	g	n (HT-20)
WLAN 2.4GHz	18.16	15.96	15.48

ANT 14:

WLAN 2.4 GHz Band Average Power (dBm)			
Mode/Band	b	g	n (HT-20)
WLAN 2.4GHz	18.07	16.37	16.54

WLAN 5.2 GHz Band Average Power (dBm)						
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40
WLAN 5.2GHz	16.77	15.45	15.32	14.98	15.80	15.82

WLAN 5.3 GHz Band Average Power (dBm)						
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40
WLAN 5.3GHz	15.85	15.33	15.45	14.37	15.57	15.67

WLAN 5.6 GHz Band Average Power (dBm)						
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40
WLAN 5.6GHz	16.75	16.01	15.77	14.80	16.10	15.73

WLAN 5.8 GHz Band Average Power (dBm)						
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40
WLAN 5.8GHz	17.40	15.58	15.11	14.70	16.56	16.05

Bluetooth Average Power (dBm)							
Mode/Band	1 Mbps (GFSK)	2 Mbps ($\pi/4$ DQPSK)	3 Mbps (8DPSK)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
Bluetooth	14.73	14.42	14.30	6.5	6.5	6.83	6.77

NFC Band Average Power (dBm)	
Mode/Band	ASK
NFC	-48.68

5.4 Environment of Test Site

Temperature:	18°C ~25 °C
Humidity:	35%~75% RH
Atmospheric Pressure:	1010 mbar

5.5 Test Sample Plan

Sample Number	Used for Test Items
SZR012500142-2	SAR
Remark: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.	

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.7 Test Location

JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community,Xinqiao Street, Bao'an District, Shenzhen, Guangdong,People's Republic of China.

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Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

6 Introduction

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:

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

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

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength. However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

7 RF Exposure Limits

7.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

7.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

7.3 RF Exposure Limits

SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
SPATIAL PEAK SAR Brain	1.6	8.0
SPATIAL AVERAGE SAR Whole Body	0.08	0.4
SPATIAL PEAK SAR Hands, Feet, Ankles, Wrists	4.0	20

Note:

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

8 SAR Measurement System

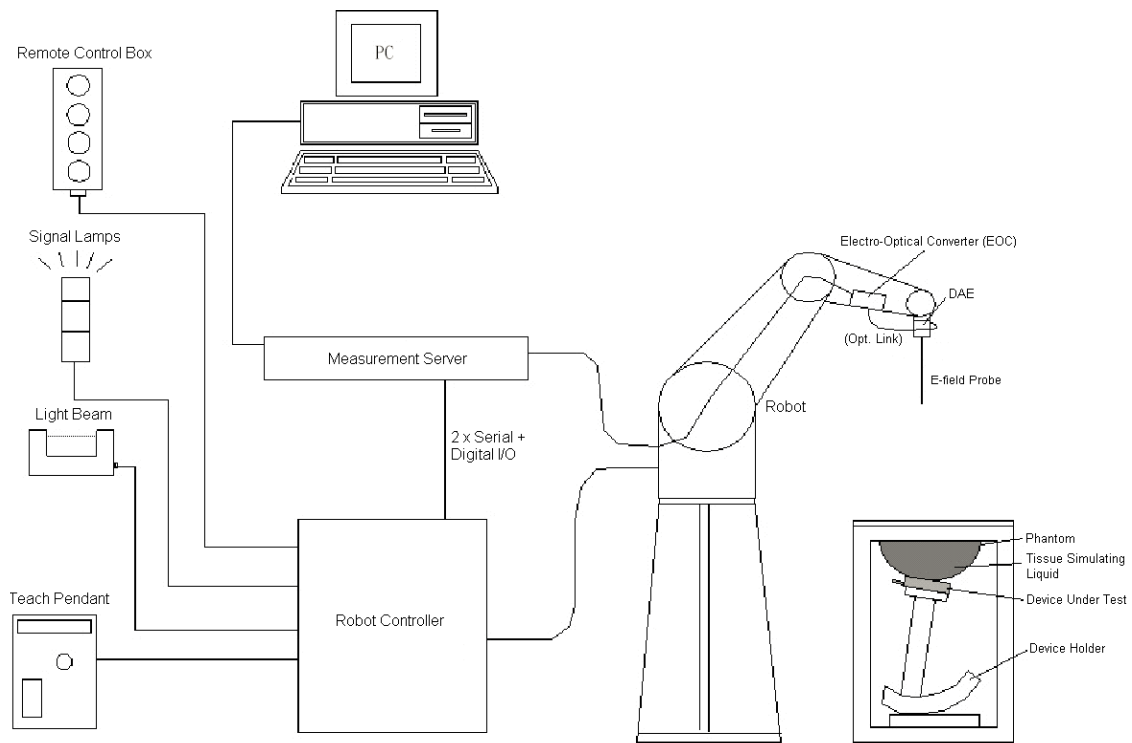


Fig. 8.1 SPEAG DASY System Configurations

The DASY system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

Component details are described in the following sub-sections.

8.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

➤ E-Field Probe Specification <EX3DV4 Probe>

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency Directivity	10 MHz to 6 GHz; Linearity: ± 0.2 dB ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 330 mm (Tip: 20mm) Tip diameter: 2.5 mm (Body: 12mm) Typical distance from probe tip to dipole centers: 1 mm	

Fig. 8.2 Photo of E-Field Probe

➤ E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y and Norm Z), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix E of this report.

8.2 Data Acquisition Electronics (DAE)

The Data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock. The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig. 8.3 Photo of DAE

8.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60L) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; nobelt drives)
- Jerk-free straight movements
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)



Fig. 8.4 Photo of Robot

8.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY 5: 400MHz, Intel Celeron), chip-disk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board. The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Fig. 8.5 Photo of Server for DASY5

8.5 Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



Fig. 8.6 Photo of Light Beam

8.6 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume Dimensions	Approx. 25 liters Length: 1000mm; Width: 500mm; Height: adjustable feet
Measurement Areas	Left Head, Right Head, Flat phantom



Fig. 8.7 Photo of SAM Twin Phantom

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI4 Phantom >

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209-2 and all known tissue simulating liquids.

ELI4 has been optimized regarding its performance and can be integrated into a SPEAG standard phantom table. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom can be used with the following tissue simulating liquids:

- Water-sugar based liquids can be left permanently in the phantom. Always cover the liquid if the system is not in use; otherwise the parameters will change due to water evaporation.
- DGBE based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom and the phantom should be dried when the system is not in use (desirable at least once a week).
- Do not use other organic solvents without previously testing the phantom resistiveness

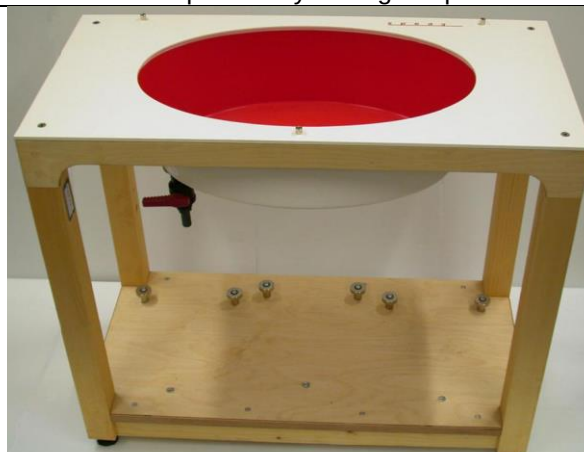


Fig.8.8 Photo of ELI4 Phantom

8.7 Device Holder

<Device Holder for SAM Twin Phantom>

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards. The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (ERP).

Thus the device needs no repositioning when changing the angles.

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



Fig. 8.9 Photo of Device Holder

8.8 Data storage and Evaluation

➤ Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verifications of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [mW/g]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-lose media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

➤ Data Evaluation

The DASY post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe Parameters:	- Sensitivity	$\text{Norm}_i, a_{i0}, a_{i1}, a_{i2}$
	- Conversion	ConvF_i
	- Diode compression point	dcp_i
Device Parameters:	- Frequency	f
	- Crest	cf
Media Parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multi-meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

With V_i = compensated signal of channel i, (i = x, y, z)
 U_i = input signal of channel i, (i = x, y, z)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

From the compensated input signals, the primary field data for each channel can be evaluated:

$$\text{E- Field Probes: } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H-Field Probes: } H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

With V_i = compensated signal of channel i, (i = x, y, z)
 Norm_i = sensor sensitivity of channel i, (i = x, y, z), $\mu\text{V}/(\text{V/m})^2$
 ConvF = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency (GHz)
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{\text{tot}} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$\text{SAR} = E_{\text{tot}}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

With SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in (mho/m) or (Siemens/m)
 ρ = equipment tissue density in g/cm^3

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

8.9 Test Equipment List

Manufacturer	Equipment Description	Model	Management Number	Cal. Information	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	WXJ023	05.18.2023	05.17.2026
SPEAG	835MHz System Validation Kit	D835V2	WXJ023-1	06.08.2022	06.07.2025
SPEAG	1750MHz System Validation Kit	D1750V2	WXJ023-6	01.17.2024	01.16.2027
SPEAG	1900MHz System Validation Kit	D1900V2	WXJ023-2	06.07.2022	06.06.2025
SPEAG	2450MHz System Validation Kit	D2450V2	WXJ023-3	06.06.2022	06.05.2025
SPEAG	2600MHz System Validation Kit	D2600V2	WXJ023-4	10.23.2024	10.22.2027
SPEAG	5GHz System Validation Kit	D5GHZV2	WXJ023-14	01.16.2024	01.15.2027
SPEAG	Data Acquisition Electronics	DAE4	WXJ021	12.31.2024	12.30.2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	WXJ022-1	01.15.2025	01.14.2026
SPEAG	DASY 52 Measurement Software	DASY 52	Version 52.10.4.1527	N.C.R	N.C.R
SPEAG	DASY 52 File Conversion Software	SEMCAD X	Version 14.6.14 (7501)	N.C.R	N.C.R
SPEAG	Robot Controller	CS8Cspeag-TX60	WXG023-1	N.C.R	N.C.R
SPEAG	Phantom	Twin SAM V5.0	WXG023-4	N.C.R	N.C.R
SPEAG	Phantom	2mm Oval Phantom ELI5	WXG023-5	N.C.R	N.C.R
SPEAG	Phone Positioner	N/A	WXG023-6	N.C.R	N.C.R
St?ubli	Robot	TX60Lspeag	WXG023-3	N.C.R	N.C.R
Anritsu	Universal Radio Communication Analyzer	MT8820C	WXJ008-5	12.16.2024	12.15.2026
R&S	Universal Radio Communication Tester	CMU200	WXJ008-2	12.27.2023	12.26.2025
KEYSIGHT	Network Analyzer	E5071C	WXJ091	12.16.2024	12.15.2025
KEYSIGHT	EPM Series Power Meter	N1914A	WXJ075	06.11.2024	06.10.2025
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-1	06.11.2024	06.10.2025
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-2	06.11.2024	06.10.2025
KEYSIGHT	Signal Generator	N5173B	WXJ006-3	09.09.2024	09.08.2025
SPEAG	Dielectric Assessment Kit	3.5 Probe	WXJ022-2	02.17.2025	02.16.2026
Huber Suhner	RF Cable	SUCOFLEX	WXG008-13	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	WXG008-14	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	WXG008-15	See Note 3	
Weinschel	Attenuator	23-3-34	WXG008-16	See Note 3	
Anritsu	Directional Coupler	MP654A	WXG008-17	See Note 3	
SPEAG	DAK Measurement Software	DAK	Version: DAK 3.5	N.C.R	
TXC	Broadband Amplifier	BBA018000	WXG008-11	See Note 4	

Note:

1. The calibration certificate of DASY can be referred to appendix C of this report.
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
4. In system check we need to monitor the level on the power meter, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1 W input power according to the ratio of 1 W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the power meter is critical and we do have calibration for it
5. Attenuator insertion loss is calibrated by the network Analyzer, which the calibration is valid, before system check.
6. N.C.R means No Calibration Requirement.

9 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 9.1, for body SAR testing, the liquid height from the center of the flat phantom to liquid top surface is larger than 15 cm, which is shown in Fig. 9.2.

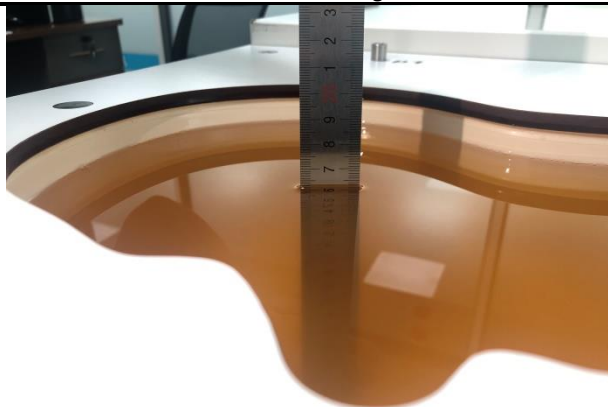


Fig. 9.1 Photo of Liquid Height for Head SAR

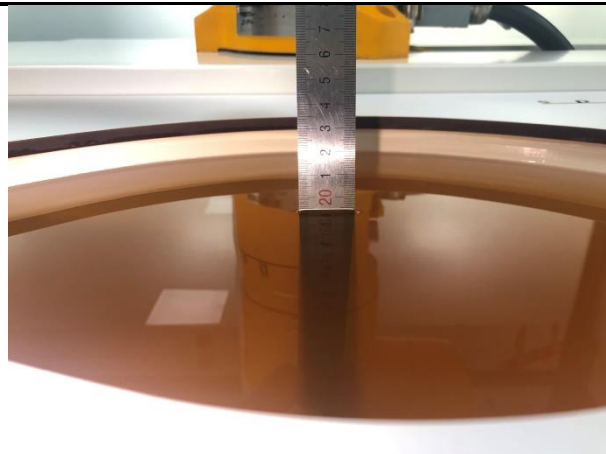


Fig. 9.2 Photo of Liquid Height for Body SAR

The relative permittivity and conductivity of the tissue material should be within $\pm 5\%$ of the values given in the table below recommended by the FCC OET 65 supplement C and RSS 102 Issue 5.

Target Frequency (MHz)	ϵ_r	σ (S/m)
150	52.3	0.76
300	45.3	0.87
450	43.5	0.87
835	41.5	0.90
900	41.5	0.97
915	41.5	0.98
1450	40.5	1.20
1610	40.3	1.29
1800-2000	40.0	1.40
2450	39.2	1.80
3000	38.5	2.40
5800	35.3	5.27

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

The dielectric parameters of liquids were verified prior to the SAR evaluation using a Speag Dielectric Probe Kit and an Agilent Network Analyzer.

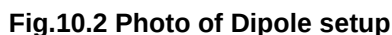
The following table shows the measuring results for simulating liquid.

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target(σ)	Permittivity Target(ϵ_r)	Delta (σ)%	Delta (ϵ_r)%	Limit (%)	Date (mm/dd/yy)
750	22.1	0.87	40.16	0.89	41.90	-2.25	-4.15	±5	4/29/2025
835	22.4	0.89	39.96	0.90	41.50	-1.11	-3.71	±5	5/3/2025
1750	22.5	1.33	38.41	1.37	40.10	-2.92	-4.22	±5	4/9/2025
1900	22	1.41	38.20	1.40	40.00	0.71	-4.50	±5	4/12/2025
2450	22.4	1.81	37.92	1.80	39.20	0.56	-3.27	±5	4/14/2025
2600	22.2	1.93	37.66	1.96	39.00	-1.53	-3.44	±5	4/18/2025
5200	22.4	4.58	35.99	4.66	36.00	-1.72	-0.03	±5	4/21/2025
5300	22.4	4.68	35.83	4.76	35.90	-1.68	-0.19	±5	4/21/2025
5600	22.3	5.00	35.30	5.07	35.50	-1.38	-0.56	±5	4/24/2025
5800	22.3	5.22	34.95	5.27	35.30	-0.95	-0.99	±5	4/24/2025

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

In the simplified setup for system evaluation, the EUT 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:



➤ System Verification Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10%. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix C of this report.

Date (mm/dd/yy)	Frequency (MHz)	Power fed onto dipole (mW)	Measured 1g SAR (W/kg)	Normalized to 1W 1g SAR (W/kg)	1W Target 1g SAR (W/kg)	Deviation (%)
4/29/2025	750	80	0.714	8.93	8.55	4.44
5/3/2025	835	80	0.795	9.94	9.6	3.54
4/9/2025	1750	40	1.520	38.00	36.5	4.11
4/12/2025	1900	40	1.620	40.50	39.9	1.50
4/14/2025	2450	40	2.250	56.25	53.4	5.34
4/18/2025	2600	40	2.370	59.25	56.3	5.24
4/21/2025	5200	40	3.170	79.25	77.00	2.92
4/21/2025	5300	40	3.270	81.75	79.20	3.22
4/24/2025	5600	40	3.450	86.25	81.90	5.31
4/24/2025	5800	40	3.240	81.00	78.90	2.66

11 EUT Testing Position

This EUT was tested in ten different positions. They are right cheek/right tilted/left cheek/left tilted for head, Front/Back/Left Side/Right Side/Top Side/Bottom Side of the EUT with phantom 10 mm gap, as illustrated below, please refer to Appendix B for the test setup photos.

11.1 Handset Reference Points

- The vertical centreline passes through two points on the front side of the handset – the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centreline and passes the center of the acoustic output. The horizontal line is also tangential to the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centreline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Fig.11.1 Illustration for Front, Back and Side of SAM Phantom

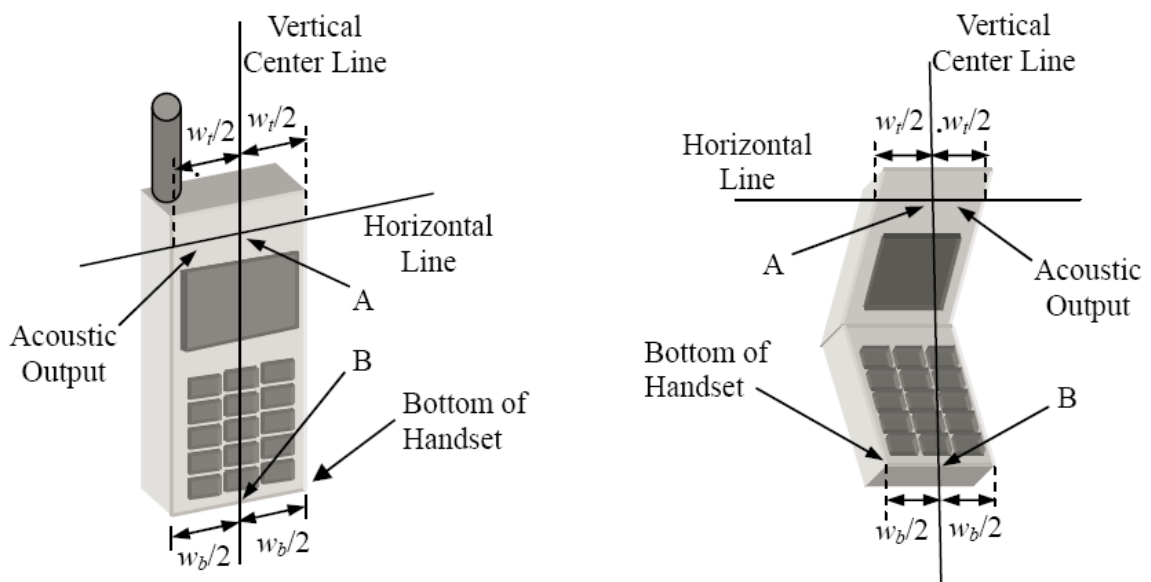


Fig. 11.2 Illustration for Handset Vertical and Horizontal Reference Lines

11.2 Positioning for Cheek / Touch

- To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see below figure)



Fig. 11.3 Illustration for Cheek Position

11.3 Positioning for Ear / 15o Tilt

- To position the device in the “cheek” position described above.
- While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see figure below).



Fig.11.4 Illustration for Tilted Position

11.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR locations identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

11.5 Body Worn Accessory Configurations

- To position the device parallel to the phantom surface with either keypad up or down.
- To adjust the device parallel to the flat phantom.
- To adjust the distance between the device surface and the flat phantom to 10 mm or holster surface and the flat phantom to 0 mm.

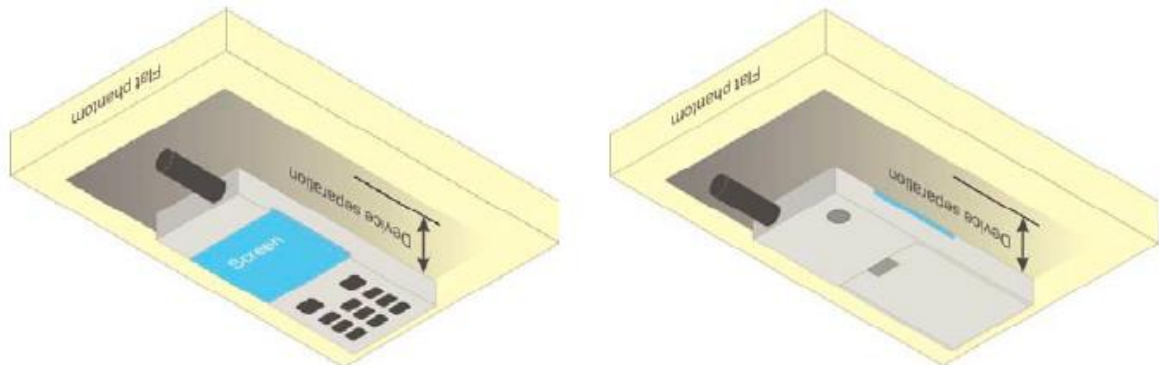


Fig.11.5 Illustration for Body Worn Position

11.6 Wireless Router (Hotspot) Configurations

Some battery-operated handsets have the capability to transmit and receive internet connectivity through simultaneous transmission of WIFI in conjunction with a separate licensed transmitter. The FCC has provided guidance in KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. Therefore, SAR must be evaluated for each frequency transmission and mode separately and summed with the WIFI transmitter according to KDB 648474 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

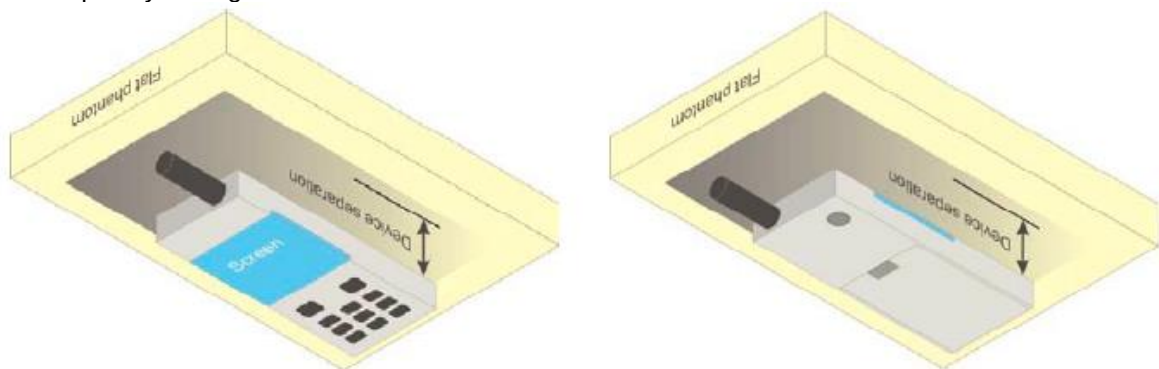


Fig.11.6 Illustration for Hotspot Position

11.7 LTE CA additional specification

The device supports intra-band contiguous uplink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

a) Intra-band carrier aggregation requirements for uplink.

The possible uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0.

SAR test procedure for intra-band contiguous UL LTE CA is as below:

- 1) Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05
- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.
- 2) SAR for UL CA is required in each exposure condition and frequency band combination
- 3) For this device , as the maximum output for Intra-band uplink LTE CA is $\leq$ standalone LTE mode (without CA),
 - PCC is configured according to the highest standalone SAR configuration tested.
 - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- 4) When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)
- 5)UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

E-UTRA CA Band	E-UTRA Band	Uplink(UL) operating band	Downlink(DL) operating band	Duplex Mode
		BS receive/ UE transmit	BS transmit/ UE receive	
		$F_{UL\ low} - F_{UL\ high}$	$F_{DL\ low} - F_{DL\ high}$	
CA_2C	2	1850 MHz - 1910 MHz	1930 MHz - 1990 MHz	FDD
CA_5B	5	824MHz~849MHz	869MHz ~894MHz	FDD
CA_7C	7	2500MHz~2570MHz	2620MHz ~2690MHz	FDD
CA_38C	38	2570MHz~2620MHz	2570MHz~2620MHz	TDD
CA_41C	41	2535MHz~2655MHz	2535MHz~2655MHz	TDD
CA_66C	66	1710 MHz - 1780 MHz	2110 MHz - 2200 MHz	FDD

12 Measurement Procedures

The measurement procedures are as below:

<Conducted power measurement>

- For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- Connect EUT RF port through RF cable to the power meter or spectrum analyzer, and measure WLAN/BT output power.

<Conducted power measurement>

- Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- Place the EUT in positions as Appendix B demonstrates.
- Set scan area, grid size and other setting on the DASY software.
- Measure SAR results for the highest power channel on each testing position.
- Find out the largest SAR result on these testing positions of each band.
- Measure SAR results for other channels in worst SAR testing position if the Reported SAR or highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- Power reference measurement
- Area scan
- Zoom scan
- Power drift measurement

12.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a “cube” measurement. The measured volume must include the 1g and 10 g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- Extraction of the measured data (grid and values) from the Zoom Scan.
- Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).
- Generation of a high-resolution mesh within the measured volume.
- Interpolation of all measured values from the measurement grid to the high-resolution grid
- Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- Calculation of the averaged SAR within masses of 1g and 10g.

12.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

12.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 mm ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ 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}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz _{Zoom} (n)		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		Δz _{Zoom} (n>1): between subsequent points	≤ 1.5 · Δz _{Zoom} (n-1) mm	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

12.4 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remains in the same test position for all measurements and all volume scans use the same spatial resolution and grid spacing. When all volume scans are completed, the software, SEMCAD post-processor scan combines and subsequently superposes these measurement data to calculate the multiband SAR.

12.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1g and 10g cubes, the extrapolation distance should not be larger than 5 mm.

12.6 Power Drift Monitoring

All SAR testing is under the EUT installed full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

13 Conducted RF Output Power

13.1 GSM Conducted Power

Band: GSM 850	Burst Average Power (dBm)			Frame-Average Power(dBm)		
Channel	128	190	251	128	190	251
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8
GSM (GMSK, Voice)	32.65	33.00	32.43	23.62	23.97	23.40
GPRS (GMSK, 1 TX slot)	32.64	33.00	32.44	23.61	23.97	23.41
GPRS (GMSK, 2 TX slots)	31.78	32.12	31.72	25.76	26.10	25.70
GPRS (GMSK, 3 TX slots)	29.92	30.31	29.94	25.66	26.05	25.68
GPRS (GMSK, 4 TX slots)	28.77	29.08	28.72	25.76	26.07	25.71
EGPRS (8PSK, 1 TX slot)	27.05	27.35	26.93	18.02	18.32	17.90
EGPRS (8PSK, 2 TX slots)	26.99	27.29	26.87	20.97	21.27	20.85
EGPRS (8PSK, 3 TX slots)	26.94	27.20	26.79	22.68	22.94	22.53
EGPRS (8PSK, 4 TX slots)	26.85	27.09	26.69	23.84	24.08	23.68

Remark:

- The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
The duty cycle "x" of different time slots as below:
1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
Based on the calculation formula:
Frame-averaged power = Burst averaged power + 10 log (x)
So,
Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
- CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

- For Head SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM 850 Voice mode.
- For Body worn SAR testing and Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 2 TX slots mode due to the highest frame-averaged power.
- Per KDB447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

Band: PCS 1900	Burst Average Power (dBm)			Frame-Average Power(dBm)		
Channel	512	661	810	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8
GSM (GMSK, Voice)	29.37	29.44	29.29	20.34	20.41	20.26
GPRS (GMSK, 1 TX slot)	29.38	29.48	29.34	20.35	20.45	20.31
GPRS (GMSK, 2 TX slots)	28.63	28.73	28.55	22.61	22.71	22.53
GPRS (GMSK, 3 TX slots)	26.86	26.96	26.73	22.60	22.70	22.47
GPRS (GMSK, 4 TX slots)	25.66	25.77	25.49	22.65	22.76	22.48
EGPRS (8PSK, 1 TX slot)	25.94	26.02	25.79	16.91	16.99	16.76
EGPRS (8PSK, 2 TX slots)	25.89	25.98	25.73	19.87	19.96	19.71
EGPRS (8PSK, 3 TX slots)	25.81	25.93	25.67	21.55	21.67	21.41
EGPRS (8PSK, 4 TX slots)	25.69	25.84	25.53	22.68	22.83	22.52

Remark:

- The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
The duty cycle "x" of different time slots as below:
1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
Based on the calculation formula:
Frame-averaged power = Burst averaged power + 10 log (x)
So,
Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
- CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

- For Head SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in PCS 1900 Voice mode.
- For Body worn SAR testing and Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 4 TX slots mode due to the highest frame-averaged power.
- Per KDB447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

13.2 WCDMA Conducted Power

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table 1

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	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
Note 1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.						

HSDPA Sub-test setup configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table 2

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	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	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

HSUPA Sub-test setup configuration

WCDMA Conducted Power:

WCDMA Average power (dBm)			
Band	WCDMA Band II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
AMR 12.2 kbps	22.77	22.93	22.98
RMC 12.2 kbps	22.76	22.86	22.93
HSDPA Sub-test 1	22.82	22.89	22.95
HSDPA Sub-test 2	22.21	22.29	22.35
HSDPA Sub-test 3	22.20	22.29	22.39
HSDPA Sub-test 4	22.26	22.36	22.39
HSUPA Sub-test 1	20.74	20.83	20.89
HSUPA Sub-test 2	21.24	21.33	21.35
HSUPA Sub-test 3	21.77	21.87	21.93
HSUPA Sub-test 4	20.77	20.85	20.87
HSUPA Sub-test 5	22.77	22.82	22.91

WCDMA Average power (dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
AMR 12.2 kbps	22.44	23.04	22.94
RMC 12.2 kbps	22.48	23.03	22.94
HSDPA Sub-test 1	22.42	23.09	23.02
HSDPA Sub-test 2	21.87	22.50	22.40
HSDPA Sub-test 3	21.86	22.48	22.41
HSDPA Sub-test 4	21.86	22.48	22.39
HSUPA Sub-test 1	20.46	20.99	20.86
HSUPA Sub-test 2	20.93	21.47	21.38
HSUPA Sub-test 3	21.42	21.97	21.89
HSUPA Sub-test 4	20.40	20.98	20.88
HSUPA Sub-test 5	22.47	23.01	22.88

WCDMA Average power (dBm)			
Band	WCDMA Band V		
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.6	846.6
AMR 12.2 kbps	23.23	23.57	23.48
RMC 12.2 kbps	23.17	23.55	23.45
HSDPA Sub-test 1	23.23	23.60	23.50
HSDPA Sub-test 2	22.68	23.06	22.97
HSDPA Sub-test 3	22.67	23.03	22.96
HSDPA Sub-test 4	22.64	23.01	22.92
HSUPA Sub-test 1	21.22	21.60	21.51
HSUPA Sub-test 2	21.69	22.07	22.02
HSUPA Sub-test 3	22.23	22.62	22.52
HSUPA Sub-test 4	21.23	21.67	21.53
HSUPA Sub-test 5	23.25	23.59	23.53

Note:

1. Applying the subtest setup in Table C.11.1.3 of 3GPP TS 34.121-1
2. Per KDB 941225 D01, RMC 12.2kbps mode is used to evaluate SAR due the highest output power. If AMR 12.2 kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2 kbps can be excluded.
3. AMR, HSDPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.

13.3 LTE Conducted Power

13.3.1 Largest channel bandwidth standalone SAR test requirements

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.⁸ 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.

QPSK with 50% RB allocation

The procedures required for 1 RB allocation in section 4.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.⁹

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 sections 4.2.1 and 4.2.2 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.

Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 4.2.1, 5.2.2 and 4.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> ?$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

13.3.2 Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 4.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> ?$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth. For example, 50 RB in 10 MHz channel bandwidth does not apply to 5 MHz channel bandwidth; therefore, this cannot be tested in the smaller channel bandwidth. However, 50% RB allocation in 10 MHz channel bandwidth is equivalent to 100% RB allocation in 5 MHz channel bandwidth; therefore, these are the equivalent configurations to be compared to determine the specific channel and configuration in the smaller channel bandwidth that need SAR testing.

13.3.3 TDD LTE configuration setup for SAR measurement

According to KDB 941225 D05v02r03 and April 2013 TCB workshop slides, SAR must be tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- see 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions and must be taken into consideration to determine the transmission duty factor
 - according to the worst case uplink and downlink cyclic prefix requirements for UpPTS to determine the highest SAR test duty factor

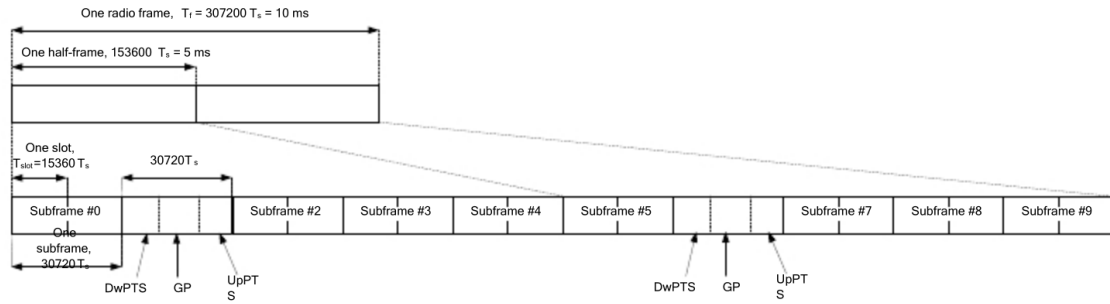


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	DwPTS	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	$21952 \cdot T_s$			-		
8	$24144 \cdot T_s$			-		
9	-			-		

Per 3GPP 36.211 section 4.2, each radio frame of length $T_f = 37200 \cdot T_s = 10$ ms consists of two half-frames of length $153600 \cdot T_s = 5$ ms each. Each half-frame consists of five subframes of length $30720 \cdot T_s = 1$ ms. So, the uplink duty factor in special subframe as below:

Special Subframe configuration	Normal cyclic prefix in downlink		Extended cyclic prefix in downlink	
	Duty factor of Uplink		Duty factor of Uplink	
	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	7.14%	8.33%	7.14%	8.33%
1	7.14%	8.33%	7.14%	8.33%
2	7.14%	8.33%	7.14%	8.33%
3	7.14%	8.33%	7.14%	8.33%
4	7.14%	8.33%	14.27%	16.67%
5	14.27%	16.67%	14.27%	16.67%
6	14.27%	16.67%	14.27%	16.67%
7	14.27%	16.67%	14.27%	16.67%
8	14.27%	16.67%	/	/
9	14.27%	16.67%	/	/

Table 4.2-2: Uplink-downlink configurations.

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

According to above table:

1. The highest duty factor is configuration 0;
2. The duty factor of uplink in one half-frame with normal cyclic prefix is: $(3\text{ms} + 0.143\text{ms})/5\text{ms}=62.86\%$;
3. The duty factor of uplink in one half-frame with extended cyclic prefix is: $(3\text{ms} + 0.167\text{ms})/5\text{ms}=63.34\%$;
4. For purpose to get the worst case SAR test duty factor, the duty factor of normal cyclic prefix in uplink scaled-up to the extended cyclic prefix in uplink, the scaling factor is $63.34\%/62.86\%=1.008$, and the scaling factor will be taken into the final measured SAR.

LTE Band 2 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
Band 2	1.4	QPSK	1	0	23.13	23.44	23.42
			1	2	23.14	23.43	23.45
			1	5	23.10	23.40	23.43
			3	0	23.20	23.46	23.53
			3	1	23.18	23.49	23.54
			3	2	23.23	23.49	23.49
			6	0	22.33	22.64	22.64
		16QAM	1	0	22.28	22.50	22.56
			1	2	22.28	22.57	22.63
			1	5	22.30	22.47	22.54
			3	0	22.14	22.39	22.45
			3	1	22.11	22.38	22.43
			3	2	22.14	22.36	22.47
			6	0	21.40	21.64	21.52
		64QAM	1	0	21.62	21.88	21.53
			1	2	21.67	21.84	21.63
			1	5	21.67	21.82	21.55
			3	0	21.34	21.60	21.53
			3	1	21.35	21.62	21.50
			3	2	21.36	21.61	21.52
			6	0	20.24	20.47	20.50

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
Band 2	3	QPSK	1	0	22.89	23.20	23.25
			1	7	23.05	23.30	23.40
			1	14	22.93	23.09	23.30
			8	0	22.13	22.44	22.47
			8	4	22.15	22.49	22.49
			8	7	22.21	22.40	22.51
			15	0	22.21	22.45	22.53
		16QAM	1	0	22.10	22.36	22.35
			1	7	22.28	22.49	22.53
			1	14	22.13	22.31	22.41
			8	0	21.21	21.51	21.52
			8	4	21.22	21.49	21.47
			8	7	21.24	21.44	21.54
			15	0	21.25	21.43	21.45
		64QAM	1	0	21.05	21.28	21.42
			1	7	21.19	21.35	21.58
			1	14	21.15	21.25	21.46
			8	0	20.24	20.47	20.51
			8	4	20.21	20.43	20.52
			8	7	20.27	20.40	20.55
			15	0	20.35	20.53	20.52

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
Band 2	5	QPSK	1	0	23.23	23.56	23.50
			1	12	23.40	23.59	23.63
			1	24	23.31	23.40	23.56
			12	0	22.23	22.50	22.56
			12	6	22.26	22.52	22.53
			12	11	22.29	22.51	22.59
			25	0	22.27	22.49	22.57
		16QAM	1	0	22.27	22.52	22.67
			1	12	22.43	22.59	22.84
			1	24	22.37	22.45	22.73
			12	0	21.28	21.50	21.56
			12	6	21.28	21.50	21.58
			12	11	21.31	21.44	21.60
			25	0	21.39	21.57	21.55
		64QAM	1	0	21.23	21.48	22.05
			1	12	21.43	21.56	22.21
			1	24	21.34	21.41	22.13
			12	0	20.34	20.60	20.57
			12	6	20.34	20.58	20.61
			12	11	20.33	20.62	20.57
			25	0	20.42	20.59	20.60

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
Band 2	10	QPSK	1	0	23.21	23.56	23.45
			1	24	23.36	23.52	23.58
			1	49	23.42	23.39	23.57
			25	0	22.24	22.48	22.45
			25	12	22.27	22.56	22.49
			25	24	22.23	22.54	22.45
			50	0	22.37	22.53	22.58
		16QAM	1	0	22.40	22.74	22.60
			1	24	22.63	22.67	22.71
			1	49	22.64	22.60	22.73
			25	0	21.26	21.49	21.49
			25	12	21.28	21.49	21.46
			25	24	21.34	21.52	21.51
			50	0	21.35	21.45	21.55
		64QAM	1	0	21.29	21.56	21.51
			1	24	21.36	21.52	21.64
			1	49	21.49	21.43	21.65
			25	0	20.33	20.52	20.51
			25	12	20.29	20.52	20.47
			25	24	20.32	20.51	20.48
			50	0	20.35	20.51	20.54

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
Band 2	15	QPSK	1	0	23.24	23.61	23.35
			1	37	23.52	23.56	23.60
			1	74	23.59	23.31	23.60
			36	0	22.38	22.68	22.52
			36	16	22.39	22.70	22.47
			36	35	22.36	22.68	22.47
			75	0	22.51	22.63	22.62
		16QAM	1	0	22.51	22.77	22.65
			1	37	22.86	22.72	22.84
			1	74	22.86	22.52	22.89
			36	0	21.41	21.61	21.47
			36	16	21.43	21.59	21.53
			36	35	21.46	21.56	21.53
			75	0	21.48	21.49	21.52
		64QAM	1	0	21.52	21.61	21.63
			1	37	21.88	21.50	21.85
			1	74	21.88	21.35	21.86
			36	0	20.40	20.63	20.47
			36	16	20.40	20.67	20.46
			36	35	20.40	20.67	20.43
			75	0	20.48	20.53	20.54

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
Band 2	20	QPSK	1	0	23.17	23.67	23.16
			1	49	23.54	23.63	23.60
			1	99	23.47	23.30	23.54
			50	0	22.33	22.55	22.40
			50	24	22.31	22.51	22.37
			50	49	22.36	22.58	22.38
			100	0	22.40	22.49	22.47
		16QAM	1	0	22.33	22.66	22.40
			1	49	22.74	22.63	22.75
			1	99	22.61	22.37	22.76
			50	0	21.36	21.47	21.35
			50	24	21.33	21.47	21.35
			50	49	21.34	21.51	21.36
			100	0	21.43	21.42	21.46
		64QAM	1	0	21.46	21.95	21.54
			1	49	21.88	21.92	21.88
			1	99	21.75	21.66	21.85
			50	0	20.38	20.51	20.45
			50	24	20.39	20.54	20.40
			50	49	20.35	20.55	20.42
			100	0	20.49	20.44	20.52

LTE Band 4 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19957	20175	20393
					1710.7	1732.5	1754.3
Band 4	1.4	QPSK	1	0	22.87	23.31	23.18
			1	2	22.79	23.41	23.25
			1	5	22.83	23.38	23.26
			3	0	22.96	23.49	23.39
			3	1	22.90	23.48	23.38
			3	2	22.89	23.49	23.35
			6	0	21.99	22.51	22.37
		16QAM	1	0	21.95	22.22	22.19
			1	2	22.03	22.30	22.13
			1	5	21.97	22.29	22.13
			3	0	21.81	22.32	22.22
			3	1	21.84	22.32	22.20
			3	2	21.85	22.29	22.20
			6	0	21.06	21.57	21.40
		64QAM	1	0	21.40	21.71	21.61
			1	2	21.32	21.79	21.58
			1	5	21.32	21.72	21.58
			3	0	21.03	21.75	21.55
			3	1	21.09	21.71	21.61
			3	2	21.04	21.72	21.57
			6	0	19.88	20.51	20.39

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19965	20175	20385
					1711.5	1732.5	1753.5
Band 4	3	QPSK	1	0	22.69	23.13	23.15
			1	7	22.84	23.35	23.23
			1	14	22.75	23.25	23.17
			8	0	21.89	22.42	22.29
			8	4	21.86	22.37	22.27
			8	7	21.97	22.45	22.26
			15	0	21.89	22.39	22.33
		16QAM	1	0	21.54	22.28	22.26
			1	7	21.77	22.53	22.34
			1	14	21.64	22.40	22.24
			8	0	20.87	21.48	21.33
			8	4	20.86	21.44	21.30
			8	7	20.95	21.42	21.26
			15	0	20.88	21.45	21.29
		64QAM	1	0	21.06	21.27	21.23
			1	7	21.23	21.48	21.38
			1	14	21.07	21.30	21.27
			8	0	19.92	20.43	20.32
			8	4	19.94	20.41	20.30
			8	7	20.01	20.44	20.32
			15	0	19.91	20.56	20.36

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19975	20175	20375
					1712.5	1732.5	1752.5
Band 4	5	QPSK	1	0	23.02	23.47	23.48
			1	12	23.24	23.69	23.61
			1	24	23.13	23.52	23.45
			12	0	21.93	22.50	22.41
			12	6	22.01	22.48	22.44
			12	11	21.94	22.52	22.42
			25	0	22.02	22.53	22.47
		16QAM	1	0	22.02	22.46	22.68
			1	12	22.20	22.62	22.83
			1	24	22.13	22.54	22.67
			12	0	21.01	21.49	21.47
			12	6	21.00	21.49	21.53
			12	11	21.01	21.46	21.48
			25	0	21.09	21.55	21.44
		64QAM	1	0	21.33	21.41	22.04
			1	12	21.56	21.61	22.11
			1	24	21.45	21.48	22.01
			12	0	20.12	20.53	20.50
			12	6	20.07	20.58	20.53
			12	11	20.10	20.58	20.49
			25	0	20.09	20.59	20.48

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20000	20175	20350
					1715	1732.5	1750
Band 4	10	QPSK	1	0	23.05	23.34	23.47
			1	24	23.15	23.51	23.50
			1	49	23.13	23.65	23.44
			25	0	21.95	22.51	22.48
			25	12	22.00	22.52	22.48
			25	24	21.90	22.51	22.49
			50	0	22.05	22.56	22.46
		16QAM	1	0	21.97	22.61	22.67
			1	24	22.04	22.72	22.70
			1	49	22.12	22.81	22.59
			25	0	21.05	21.46	21.52
			25	12	20.97	21.45	21.52
			25	24	21.02	21.46	21.53
			50	0	21.11	21.50	21.54
		64QAM	1	0	21.30	21.43	21.54
			1	24	21.39	21.56	21.60
			1	49	21.49	21.62	21.50
			25	0	19.99	20.48	20.47
			25	12	19.92	20.53	20.50
			25	24	19.98	20.48	20.51
			50	0	20.11	20.52	20.50

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20025	20175	20325
					1717.5	1732.5	1747.5
Band 4	15	QPSK	1	0	22.93	23.32	23.41
			1	37	23.24	23.67	23.58
			1	74	23.31	23.62	23.43
			36	0	22.00	22.48	22.55
			36	16	22.02	22.44	22.49
			36	35	22.02	22.44	22.50
			75	0	22.21	22.51	22.55
		16QAM	1	0	22.23	22.24	22.67
			1	37	22.45	22.60	22.73
			1	74	22.58	22.48	22.66
			36	0	21.15	21.44	21.50
			36	16	21.11	21.42	21.51
			36	35	21.08	21.39	21.47
			75	0	21.20	21.50	21.47
		64QAM	1	0	21.28	21.63	21.50
			1	37	21.47	21.94	21.60
			1	74	21.57	21.86	21.47
			36	0	20.07	20.42	20.56
			36	16	20.05	20.43	20.60
			36	35	20.03	20.43	20.56
			75	0	20.21	20.51	20.53

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20050	20175	20300
					1720	1732.5	1745
Band 4	20	QPSK	1	0	22.78	23.17	23.41
			1	49	23.06	23.68	23.62
			1	99	23.29	23.56	23.43
			50	0	21.92	22.34	22.52
			50	24	21.92	22.36	22.49
			50	49	21.88	22.40	22.53
			100	0	22.13	22.43	22.47
		16QAM	1	0	21.89	22.19	22.59
			1	49	22.18	22.66	22.75
			1	99	22.32	22.58	22.56
			50	0	20.95	21.38	21.56
			50	24	20.94	21.37	21.60
			50	49	20.94	21.34	21.58
			100	0	21.11	21.43	21.54
		64QAM	1	0	20.83	21.51	21.68
			1	49	21.14	21.98	21.86
			1	99	21.28	21.86	21.65
			50	0	19.96	20.46	20.62
			50	24	19.98	20.39	20.61
			50	49	19.97	20.42	20.66
			100	0	20.11	20.48	20.56

LTE Band 5 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
Band 5	1.4	QPSK	1	0	23.90	24.14	23.93
			1	2	23.88	24.19	23.92
			1	5	23.85	24.17	23.93
			3	0	24.00	24.24	23.97
			3	1	23.99	24.24	23.96
			3	2	23.94	24.23	23.94
			6	0	23.07	23.40	23.11
		16QAM	1	0	23.07	23.33	22.80
			1	2	23.14	23.38	22.89
			1	5	23.09	23.37	22.78
			3	0	22.94	23.19	22.79
			3	1	22.95	23.20	22.84
			3	2	22.93	23.20	22.84
			6	0	22.19	22.26	22.09
		64QAM	1	0	22.46	22.32	22.28
			1	2	22.46	22.37	22.29
			1	5	22.42	22.36	22.20
			3	0	22.17	22.25	22.18
			3	1	22.18	22.26	22.19
			3	2	22.17	22.30	22.16
			6	0	21.03	21.25	21.02

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
Band 5	3	QPSK	1	0	23.70	23.98	23.91
			1	7	23.87	24.12	23.95
			1	14	23.86	24.02	23.85
			8	0	23.03	23.26	23.07
			8	4	23.04	23.27	23.15
			8	7	23.11	23.30	23.08
			15	0	23.06	23.29	23.11
		16QAM	1	0	22.98	23.21	23.08
			1	7	23.12	23.29	23.05
			1	14	23.03	23.19	22.88
			8	0	22.12	22.35	22.07
			8	4	22.13	22.35	22.08
			8	7	22.16	22.36	22.05
			15	0	22.11	22.34	22.01
		64QAM	1	0	21.89	22.10	22.02
			1	7	22.10	22.30	22.08
			1	14	22.02	22.11	21.87
			8	0	21.06	21.29	21.16
			8	4	21.07	21.29	21.17
			8	7	21.15	21.29	21.09
			15	0	21.19	21.41	21.11

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
Band 5	5	QPSK	1	0	24.11	24.35	24.29
			1	12	24.28	24.51	24.34
			1	24	24.21	24.39	24.16
			12	0	23.10	23.31	23.36
			12	6	23.10	23.34	23.32
			12	11	23.13	23.33	23.31
			25	0	23.25	23.39	23.31
		16QAM	1	0	23.14	23.55	23.36
			1	12	23.34	23.70	23.39
			1	24	23.27	23.61	23.11
			12	0	22.12	22.36	22.34
			12	6	22.17	22.41	22.37
			12	11	22.10	22.39	22.36
			25	0	22.31	22.43	22.37
		64QAM	1	0	22.09	22.88	22.61
			1	12	22.31	23.08	22.71
			1	24	22.20	23.05	22.45
			12	0	21.22	21.42	21.44
			12	6	21.17	21.40	21.46
			12	11	21.23	21.42	21.48
			25	0	21.34	21.41	21.32

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20450	20525	20600
					829MHz	836.5MHz	844MHz
Band 5	10	QPSK	1	0	24.06	24.33	24.41
			1	24	24.26	24.43	24.39
			1	49	24.34	24.40	24.19
			25	0	23.22	23.36	23.37
			25	12	23.19	23.38	23.43
			25	24	23.19	23.34	23.40
			50	0	23.34	23.39	23.35
		16QAM	1	0	23.34	23.56	23.34
			1	24	23.53	23.64	23.33
			1	49	23.54	23.61	23.12
			25	0	22.17	22.42	22.49
			25	12	22.19	22.41	22.53
			25	24	22.21	22.39	22.49
			50	0	22.33	22.45	22.37
		64QAM	1	0	22.18	22.43	22.66
			1	24	22.33	22.57	22.64
			1	49	22.33	22.57	22.44
			25	0	21.23	21.38	21.45
			25	12	21.24	21.34	21.51
			25	24	21.24	21.35	21.46
			50	0	21.28	21.44	21.36

LTE Band 7 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20775	21100	21425
					2502.5MHz	2535MHz	2567.5MHz
Band 7	5	QPSK	1	0	22.72	22.68	23.02
			1	12	22.92	22.86	23.17
			1	24	22.72	22.70	23.06
			12	0	21.72	21.62	22.04
			12	6	21.70	21.68	22.03
			12	11	21.69	21.69	22.05
			25	0	21.78	21.61	22.02
		16QAM	1	0	21.67	21.85	21.96
			1	12	21.86	21.99	22.16
			1	24	21.72	21.90	22.04
			12	0	20.78	20.74	21.08
			12	6	20.78	20.75	20.98
			12	11	20.71	20.76	21.01
			25	0	20.82	20.75	21.07
		64QAM	1	0	20.71	21.24	21.29
			1	12	20.85	21.41	21.45
			1	24	20.70	21.26	21.33
			12	0	19.83	19.77	20.13
			12	6	19.81	19.77	20.16
			12	11	19.81	19.74	20.13
			25	0	19.82	19.70	20.13

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20800	21100	21400
					2505MHz	2535MHz	2565MHz
Band 7	10	QPSK	1	0	22.76	22.59	22.85
			1	24	22.84	22.72	23.03
			1	49	22.72	22.69	23.03
			25	0	21.69	21.62	21.90
			25	12	21.69	21.65	21.92
			25	24	21.73	21.68	21.93
			50	0	21.76	21.72	21.94
		16QAM	1	0	21.67	21.77	22.01
			1	24	21.72	21.90	22.17
			1	49	21.66	21.87	22.14
			25	0	20.83	20.70	20.93
			25	12	20.77	20.74	20.94
			25	24	20.85	20.66	20.98
			50	0	20.78	20.75	20.98
		64QAM	1	0	21.05	20.66	20.88
			1	24	21.13	20.73	21.10
			1	49	21.09	20.72	21.05
			25	0	19.75	19.73	19.97
			25	12	19.75	19.73	19.96
			25	24	19.82	19.69	19.93
			50	0	19.79	19.78	20.01

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20825	21100	21375
					2507.5MHz	2535MHz	2562.5MHz
Band 7	15	QPSK	1	0	22.64	22.59	22.78
			1	37	22.73	22.77	23.00
			1	74	22.61	22.70	23.04
			36	0	21.65	21.63	21.85
			36	16	21.67	21.61	21.86
			36	35	21.67	21.68	21.92
			75	0	21.72	21.66	22.06
		16QAM	1	0	21.89	21.46	21.88
			1	37	21.96	21.68	22.13
			1	74	21.80	21.56	22.12
			36	0	20.77	20.58	20.81
			36	16	20.71	20.60	20.87
			36	35	20.72	20.59	20.87
			75	0	20.72	20.67	20.86
		64QAM	1	0	20.95	20.87	20.75
			1	37	20.98	21.07	21.00
			1	74	20.87	21.02	20.98
			36	0	19.69	19.61	19.93
			36	16	19.69	19.67	19.91
			36	35	19.72	19.63	20.01
			75	0	19.74	19.73	20.01

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20850	21100	21350
					2510MHz	2535MHz	2560MHz
Band 7	20	QPSK	1	0	22.47	22.58	22.75
			1	49	22.64	22.85	23.00
			1	99	22.41	22.78	23.02
			50	0	21.61	21.62	21.80
			50	24	21.57	21.64	21.71
			50	49	21.64	21.64	21.78
			100	0	21.63	21.65	21.88
		16QAM	1	0	21.59	21.53	21.82
			1	49	21.72	21.84	22.15
			1	99	21.51	21.75	22.12
			50	0	20.73	20.64	20.76
			50	24	20.68	20.65	20.75
			50	49	20.67	20.59	20.80
			100	0	20.72	20.66	20.83
		64QAM	1	0	20.59	20.92	20.98
			1	49	20.75	21.17	21.25
			1	99	20.49	21.08	21.21
			50	0	19.67	19.64	19.87
			50	24	19.66	19.67	19.88
			50	49	19.63	19.66	19.87
			100	0	19.71	19.71	19.92

LTE Band 12 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23017	23095	23175
					699.7MHz	707.5MHz	715.3MHz
Band 12	1.4	QPSK	1	0	24.23	24.11	24.05
			1	2	24.20	24.13	24.02
			1	5	24.18	24.10	24.03
			3	0	24.34	24.24	24.07
			3	1	24.37	24.24	24.11
			3	2	24.37	24.21	24.09
			6	0	23.39	23.29	23.13
		16QAM	1	0	23.35	23.24	22.90
			1	2	23.40	23.28	22.95
			1	5	23.28	23.25	22.91
			3	0	23.22	23.15	22.91
			3	1	23.23	23.15	22.95
			3	2	23.23	23.14	22.89
			6	0	22.47	22.18	22.15
		64QAM	1	0	22.74	22.25	22.41
			1	2	22.73	22.28	22.40
			1	5	22.69	22.23	22.32
			3	0	22.47	22.20	22.26
			3	1	22.47	22.22	22.27
			3	2	22.50	22.19	22.25
			6	0	21.27	21.21	21.15

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz
Band 12	3	QPSK	1	0	24.17	23.98	23.81
			1	7	24.19	24.09	23.94
			1	14	24.13	24.01	23.82
			8	0	23.27	23.17	23.08
			8	4	23.27	23.19	23.10
			8	7	23.31	23.16	23.00
			15	0	23.31	23.22	23.06
		16QAM	1	0	23.28	22.86	22.97
			1	7	23.32	22.99	23.06
			1	14	23.27	22.90	22.93
			8	0	22.31	22.14	22.13
			8	4	22.33	22.16	22.14
			8	7	22.31	22.21	22.01
			15	0	22.26	22.07	22.10
		64QAM	1	0	22.21	22.33	21.87
			1	7	22.32	22.43	22.01
			1	14	22.23	22.34	21.93
			8	0	21.39	21.19	21.14
			8	4	21.33	21.21	21.10
			8	7	21.33	21.23	21.01
			15	0	21.33	21.17	21.16

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
Band 12	5	QPSK	1	0	24.29	24.25	24.19
			1	12	24.48	24.40	24.28
			1	24	24.28	24.26	24.09
			12	0	23.32	23.19	23.21
			12	6	23.36	23.18	23.20
			12	11	23.33	23.21	23.23
			25	0	23.33	23.26	23.17
		16QAM	1	0	23.33	23.28	23.22
			1	12	23.50	23.38	23.30
			1	24	23.30	23.25	23.06
			12	0	22.36	22.22	22.22
			12	6	22.34	22.28	22.18
			12	11	22.33	22.22	22.18
			25	0	22.41	22.32	22.17
		64QAM	1	0	22.26	22.55	22.16
			1	12	22.41	22.67	22.28
			1	24	22.24	22.58	22.11
			12	0	21.38	21.26	21.30
			12	6	21.41	21.30	21.30
			12	11	21.41	21.32	21.31
			25	0	21.35	21.27	21.24

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23060	23095	23130
					704MHz	707.5MHz	711MHz
Band 12	10	QPSK	1	0	24.35	24.23	24.30
			1	24	24.34	24.34	24.36
			1	49	24.32	24.29	24.23
			25	0	23.28	23.18	23.21
			25	12	23.31	23.19	23.21
			25	24	23.28	23.19	23.25
			50	0	23.35	23.23	23.23
		16QAM	1	0	23.48	23.40	23.23
			1	24	23.50	23.48	23.24
			1	49	23.48	23.43	23.08
			25	0	22.28	22.20	22.30
			25	12	22.31	22.22	22.25
			25	24	22.30	22.21	22.31
			50	0	22.41	22.24	22.23
		64QAM	1	0	22.34	22.30	22.56
			1	24	22.33	22.33	22.59
			1	49	22.34	22.35	22.43
			25	0	21.31	21.23	21.27
			25	12	21.39	21.19	21.24
			25	24	21.35	21.18	21.26
			50	0	21.37	21.30	21.25

LTE Band 13 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23205	23230	23255
					779.5	782	784.5
Band 13	5	QPSK	1	0	23.36	23.43	23.47
			1	12	23.58	23.62	23.69
			1	24	23.49	23.52	23.59
			12	0	22.40	22.42	22.45
			12	6	22.38	22.44	22.45
			12	11	22.40	22.45	22.45
			25	0	22.40	22.50	22.54
		16QAM	1	0	22.58	22.37	22.67
			1	12	22.79	22.63	22.78
			1	24	22.58	22.52	22.74
			12	0	21.41	21.48	21.54
			12	6	21.43	21.40	21.51
			12	11	21.47	21.45	21.46
			25	0	21.45	21.50	21.54
		64QAM	1	0	21.90	21.38	22.00
			1	12	22.15	21.58	22.16
			1	24	22.05	21.47	22.12
			12	0	20.44	20.48	20.47
			12	6	20.50	20.50	20.53
			12	11	20.45	20.52	20.49
			25	0	20.40	20.54	20.54

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
						23230	
						782	
Band 13	10	QPSK	1	0	/	23.44	/
			1	24	/	23.54	/
			1	49	/	23.65	/
			25	0	/	22.43	/
			25	12	/	22.38	/
			25	24	/	22.44	/
			50	0	/	22.54	/
		16QAM	1	0	/	22.60	/
			1	24	/	22.71	/
			1	49	/	22.75	/
			25	0	/	21.43	/
			25	12	/	21.43	/
			25	24	/	21.47	/
			50	0	/	21.53	/
		64QAM	1	0	/	21.48	/
			1	24	/	21.56	/
			1	49	/	21.58	/
			25	0	/	20.48	/
			25	12	/	20.51	/
			25	24	/	20.46	/
			50	0	/	20.52	/

LTE Band 17 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23755	23790	23825
					706.5MHz	710.0MHz	713.5MHz
Band 17	5	QPSK	1	0	24.27	24.16	24.23
			1	12	24.39	24.31	24.31
			1	24	24.20	24.14	24.14
			12	0	23.27	23.21	23.10
			12	6	23.24	23.16	23.16
			12	11	23.28	23.19	23.14
			25	0	23.32	23.16	23.13
		16QAM	1	0	23.22	23.39	23.17
			1	12	23.41	23.51	23.28
			1	24	23.24	23.36	23.13
			12	0	22.28	22.21	22.17
			12	6	22.22	22.22	22.15
			12	11	22.31	22.24	22.17
			25	0	22.31	22.16	22.22
		64QAM	1	0	22.20	22.76	22.43
			1	12	22.30	22.90	22.64
			1	24	22.21	22.71	22.44
			12	0	21.34	21.23	21.26
			12	6	21.34	21.27	21.21
			12	11	21.33	21.25	21.26
			25	0	21.35	21.18	21.15

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23780	23790	23800
					709.0MHz	710.0MHz	711.0MHz
Band 17	10	QPSK	1	0	24.23	24.23	24.23
			1	24	24.27	24.23	24.32
			1	49	24.25	24.14	24.14
			25	0	23.17	23.14	23.17
			25	12	23.17	23.13	23.18
			25	24	23.18	23.15	23.20
			50	0	23.22	23.14	23.17
		16QAM	1	0	23.37	23.35	23.13
			1	24	23.45	23.41	23.16
			1	49	23.39	23.35	23.04
			25	0	22.14	22.14	22.19
			25	12	22.17	22.17	22.22
			25	24	22.18	22.21	22.23
			50	0	22.21	22.15	22.14
		64QAM	1	0	22.21	22.25	22.50
			1	24	22.27	22.26	22.52
			1	49	22.19	22.24	22.43
			25	0	21.24	21.12	21.16
			25	12	21.20	21.16	21.17
			25	24	21.24	21.12	21.21
			50	0	21.17	21.19	21.18

LTE Band 25 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26047	26365	26683
					1850.7	1882.5	1914.3
Band 25	1.4	QPSK	1	0	23.23	23.39	23.50
			1	2	23.17	23.34	23.46
			1	5	23.20	23.29	23.45
			3	0	23.33	23.45	23.59
			3	1	23.31	23.46	23.55
			3	2	23.33	23.41	23.54
			6	0	22.42	22.56	22.70
		16QAM	1	0	22.36	22.45	22.61
			1	2	22.42	22.53	22.64
			1	5	22.44	22.50	22.58
			3	0	22.22	22.37	22.48
			3	1	22.25	22.42	22.54
			3	2	22.22	22.32	22.46
			6	0	21.53	21.59	21.60
		64QAM	1	0	21.75	21.87	21.60
			1	2	21.74	21.87	21.60
			1	5	21.80	21.84	21.56
			3	0	21.48	21.62	21.54
			3	1	21.46	21.61	21.57
			3	2	21.51	21.63	21.49
			6	0	20.36	20.46	20.53

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26055	26365	26675
					1851.5	1882.5	1913.5
Band 25	3	QPSK	1	0	23.04	23.20	23.35
			1	7	23.16	23.29	23.47
			1	14	23.15	23.15	23.33
			8	0	22.32	22.46	22.55
			8	4	22.34	22.46	22.57
			8	7	22.35	22.46	22.57
			15	0	22.35	22.45	22.58
		16QAM	1	0	22.29	22.38	22.56
			1	7	22.37	22.45	22.60
			1	14	22.28	22.36	22.48
			8	0	21.37	21.51	21.59
			8	4	21.34	21.52	21.60
			8	7	21.35	21.47	21.55
			15	0	21.32	21.43	21.48
		64QAM	1	0	21.21	21.29	21.49
			1	7	21.40	21.38	21.57
			1	14	21.35	21.34	21.47
			8	0	20.39	20.47	20.59
			8	4	20.40	20.45	20.60
			8	7	20.39	20.51	20.61
			15	0	20.35	20.53	20.59

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26065	26365	26665
					1852.5	1882.5	1912.5
Band 25	5	QPSK	1	0	23.37	23.54	23.67
			1	12	23.53	23.58	23.79
			1	24	23.47	23.41	23.60
			12	0	22.43	22.52	22.70
			12	6	22.40	22.54	22.71
			12	11	22.47	22.44	22.65
			25	0	22.46	22.53	22.69
		16QAM	1	0	22.60	22.55	22.89
			1	12	22.84	22.65	23.01
			1	24	22.67	22.46	22.76
			12	0	21.47	21.53	21.74
			12	6	21.47	21.55	21.71
			12	11	21.58	21.48	21.65
			25	0	21.48	21.57	21.66
		64QAM	1	0	22.06	21.51	22.26
			1	12	22.16	21.58	22.33
			1	24	22.09	21.41	22.14
			12	0	20.53	20.61	20.79
			12	6	20.49	20.59	20.81
			12	11	20.57	20.53	20.74
			25	0	20.55	20.55	20.67

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26090	26365	26640
					1855	1882.5	1910
Band 25	10	QPSK	1	0	23.27	23.56	23.58
			1	24	23.47	23.47	23.71
			1	49	23.52	23.41	23.61
			25	0	22.35	22.49	22.63
			25	12	22.39	22.54	22.65
			25	24	22.54	22.45	22.65
			50	0	22.48	22.57	22.66
		16QAM	1	0	22.52	22.73	22.73
			1	24	22.72	22.69	22.91
			1	49	22.79	22.63	22.77
			25	0	21.43	21.51	21.66
			25	12	21.42	21.53	21.64
			25	24	21.64	21.47	21.70
			50	0	21.49	21.50	21.65
		64QAM	1	0	21.41	21.54	21.68
			1	24	21.56	21.53	21.80
			1	49	21.69	21.46	21.66
			25	0	20.37	20.49	20.64
			25	12	20.42	20.53	20.65
			25	24	20.59	20.49	20.68
			50	0	20.51	20.50	20.64

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26115	26365	26615
					1857.5	1882.5	1907.5
Band 25	15	QPSK	1	0	23.27	23.60	23.43
			1	37	23.60	23.55	23.77
			1	74	23.68	23.35	23.60
			36	0	21.66	21.65	21.75
			36	16	22.00	21.59	22.03
			36	35	21.94	21.43	21.90
			75	0	22.64	22.59	22.73
		16QAM	1	0	22.67	22.77	22.78
			1	37	22.92	22.73	22.99
			1	74	22.97	22.60	22.84
			36	0	21.67	21.67	21.73
			36	16	22.02	21.57	22.04
			36	35	21.97	21.43	21.88
			75	0	21.63	21.51	21.68
		64QAM	1	0	21.66	21.63	21.74
			1	37	21.98	21.56	22.02
			1	74	21.99	21.44	21.92
			36	0	21.64	21.68	21.81
			36	16	21.99	21.61	22.03
			36	35	21.98	21.44	21.86
			75	0	20.62	20.49	20.69

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26140	26365	26590
					1860	1882.5	1905
Band 25	20	QPSK	1	0	23.13	23.83	23.36
			1	49	23.52	23.72	23.85
			1	99	23.49	23.48	23.62
			50	0	22.46	22.64	22.58
			50	24	22.48	22.57	22.57
			50	49	22.76	22.52	22.67
			100	0	22.62	22.60	22.64
		16QAM	1	0	22.30	22.81	22.57
			1	49	22.69	22.73	22.95
			1	99	22.65	22.53	22.75
			50	0	21.55	21.60	21.58
			50	24	21.55	21.57	21.58
			50	49	21.83	21.54	21.69
			100	0	21.63	21.57	21.60
		64QAM	1	0	21.25	22.06	21.62
			1	49	21.66	22.07	22.06
			1	99	21.62	21.83	21.88
			50	0	20.45	20.63	20.63
			50	24	20.50	20.61	20.60
			50	49	20.84	20.57	20.76
			100	0	20.66	20.62	20.73

LTE Band 26 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26697	26865	27033
					814.7MHz	831.5MHz	848.3MHz
Band 26	1.4	QPSK	1	0	24.22	24.35	24.62
			1	2	24.30	24.41	24.55
			1	5	24.30	24.48	24.54
			3	0	24.31	24.52	24.57
			3	1	24.32	24.55	24.57
			3	2	24.30	24.39	24.54
			6	0	23.44	23.66	23.73
		16QAM	1	0	23.33	23.51	23.54
			1	2	23.42	23.52	23.57
			1	5	23.38	23.39	23.44
			3	0	23.28	23.29	23.42
			3	1	23.24	23.30	23.40
			3	2	23.22	23.28	23.32
			6	0	22.31	22.51	22.58
		64QAM	1	0	22.32	22.53	22.61
			1	2	22.40	22.48	22.57
			1	5	22.40	22.49	22.52
			3	0	22.30	22.41	22.52
			3	1	22.32	22.43	22.53
			3	2	22.32	22.41	22.46
			6	0	21.30	21.50	21.56

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26705	26865	27025
					815.5MHz	831.5MHz	847.5MHz
Band 26	3	QPSK	1	0	24.11	24.22	24.36
			1	7	24.28	24.34	24.52
			1	14	24.20	24.31	24.34
			8	0	23.33	23.49	23.54
			8	4	23.38	23.45	23.59
			8	7	23.47	23.55	23.60
			15	0	23.37	23.39	23.54
		16QAM	1	0	23.27	23.44	23.48
			1	7	23.38	23.41	23.55
			1	14	23.30	23.31	23.34
			8	0	22.37	22.39	22.59
			8	4	22.32	22.50	22.61
			8	7	22.43	22.48	22.56
			15	0	22.26	22.50	22.57
		64QAM	1	0	22.20	22.29	22.42
			1	7	22.40	22.45	22.48
			1	14	22.30	22.29	22.28
			8	0	21.38	21.55	21.59
			8	4	21.36	21.53	21.61
			8	7	21.42	21.51	21.56
			15	0	21.33	21.36	21.70

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26715	26865	27015
					816.5MHz	831.5MHz	846.6MHz
Band 26	5	QPSK	1	0	24.39	24.55	24.77
			1	12	24.56	24.72	24.82
			1	24	24.47	24.52	24.65
			12	0	23.32	23.39	23.76
			12	6	23.35	23.42	23.71
			12	11	23.32	23.48	23.67
			25	0	23.45	23.50	23.69
		16QAM	1	0	23.57	23.66	23.71
			1	12	23.76	23.75	23.74
			1	24	23.71	23.62	23.50
			12	0	22.33	22.43	22.72
			12	6	22.37	22.41	22.74
			12	11	22.35	22.53	22.60
			25	0	22.46	22.52	22.71
		64QAM	1	0	22.94	22.82	22.69
			1	12	23.10	22.99	22.74
			1	24	23.11	22.62	22.53
			12	0	21.43	21.78	21.89
			12	6	21.36	21.75	21.83
			12	11	21.37	21.56	21.74
			25	0	21.46	21.59	21.82

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26740	26865	26990
					819MHz	831.5MHz	844MHz
Band 26	10	QPSK	1	0	24.41	24.55	24.76
			1	24	24.54	24.63	24.76
			1	49	24.62	24.63	24.64
			25	0	23.37	23.59	23.79
			25	12	23.32	23.74	23.85
			25	24	23.34	23.51	23.62
			50	0	23.43	23.58	23.74
		16QAM	1	0	23.49	23.68	23.91
			1	24	23.76	23.81	23.93
			1	49	23.77	23.74	23.71
			25	0	22.35	22.56	22.87
			25	12	22.38	22.66	22.89
			25	24	22.37	22.49	22.73
			50	0	22.46	22.56	22.81
		64QAM	1	0	22.41	22.72	22.79
			1	24	22.64	22.71	22.82
			1	49	22.74	22.63	22.58
			25	0	21.31	21.65	21.98
			25	12	21.34	21.84	21.94
			25	24	21.36	21.63	21.77
			50	0	21.46	21.59	21.83

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26765	26865	26965
					821.5MHz	831.5MHz	841.5MHz
Band 26	15	QPSK	1	0	24.58	24.49	24.73
			1	37	24.85	24.85	24.86
			1	74	24.66	24.90	24.63
			36	0	22.83	22.91	22.77
			36	16	22.97	23.15	22.90
			36	35	23.03	23.12	22.57
			75	0	23.81	23.82	23.81
		16QAM	1	0	2.82	23.77	23.87
			1	37	24.05	24.07	24.02
			1	74	24.01	24.03	23.72
			36	0	22.82	22.92	22.77
			36	16	23.06	23.14	22.89
			36	35	23.02	23.12	22.56
			75	0	22.85	22.89	22.80
		64QAM	1	0	22.79	22.92	22.73
			1	37	22.99	23.13	22.91
			1	74	22.65	23.08	22.56
			36	0	22.78	22.85	22.74
			36	16	23.11	23.16	22.90
			36	35	23.08	23.15	22.60
			75	0	21.85	21.89	21.82

LTE Band 38 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37775	38000	38225
					2572.5MHz	2595MHz	2617.5MHz
Band 38	5	QPSK	1	0	23.35	23.62	23.56
			1	12	23.52	23.78	23.75
			1	24	23.44	23.68	23.61
			12	0	22.33	22.61	22.60
			12	6	22.39	22.58	22.64
			12	11	22.39	22.61	22.63
			25	0	22.41	22.62	22.75
		16QAM	1	0	22.48	22.90	22.87
			1	12	22.67	23.05	23.03
			1	24	22.59	22.96	22.89
			12	0	21.28	21.54	21.66
			12	6	21.28	21.58	21.71
			12	11	21.28	21.57	21.68
			25	0	21.38	21.71	21.74
		64QAM	1	0	21.46	21.92	22.11
			1	12	21.66	22.08	22.27
			1	24	21.58	21.99	22.17
			12	0	20.34	20.69	20.82
			12	6	20.35	20.67	20.84
			12	11	20.37	20.66	20.82
			25	0	20.47	20.76	20.78

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37800	38000	38200
					2575MHz	2595MHz	2615MHz
Band 38	10	QPSK	1	0	23.32	23.71	23.75
			1	24	23.51	23.80	23.82
			1	49	23.51	23.78	23.77
			25	0	22.31	22.65	22.71
			25	12	22.33	22.65	22.69
			25	24	22.34	22.67	22.68
			50	0	22.45	22.71	22.71
		16QAM	1	0	22.63	22.97	22.60
			1	24	22.78	23.02	22.64
			1	49	22.79	23.06	22.65
			25	0	21.39	21.77	21.71
			25	12	21.43	21.71	21.70
			25	24	21.43	21.71	21.70
			50	0	21.44	21.69	21.73
		64QAM	1	0	21.73	22.06	21.59
			1	24	21.90	22.18	21.68
			1	49	21.93	22.16	21.66
			25	0	20.41	20.72	20.70
			25	12	20.40	20.73	20.69
			25	24	20.43	20.74	20.65
			50	0	20.51	20.84	20.74

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37825	38000	38175
					2577.5MHz	2595MHz	2612.5MHz
Band 38	15	QPSK	1	0	23.37	23.55	23.80
			1	37	23.65	23.77	23.90
			1	74	23.66	23.71	23.80
			36	0	22.35	22.65	22.74
			36	16	22.36	22.62	22.73
			36	35	22.34	22.67	22.74
			75	0	22.49	22.74	22.79
		16QAM	1	0	22.29	22.83	22.69
			1	37	22.56	23.00	22.78
			1	74	22.54	22.96	22.76
			36	0	21.35	21.61	21.62
			36	16	21.31	21.61	21.67
			36	35	21.32	21.62	21.67
			75	0	21.43	21.69	21.74
		64QAM	1	0	21.55	21.94	21.89
			1	37	21.82	22.14	22.06
			1	74	21.82	22.08	22.01
			36	0	20.39	20.68	20.76
			36	16	20.40	20.69	20.75
			36	35	20.38	20.73	20.76
			75	0	20.51	20.80	20.78

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37850	38000	38150
					2580MHz	2595MHz	2610MHz
Band 38	20	QPSK	1	0	23.27	23.45	23.56
			1	49	23.66	23.77	23.80
			1	99	23.59	23.70	23.62
			50	0	22.38	22.45	22.64
			50	24	22.37	22.50	22.60
			50	49	22.36	22.50	22.60
			100	0	22.50	22.59	22.59
		16QAM	1	0	21.90	22.30	22.63
			1	49	22.25	22.64	22.96
			1	99	22.17	22.54	22.76
			50	0	21.38	21.41	21.61
			50	24	21.39	21.45	21.61
			50	49	21.38	21.46	21.59
			100	0	21.45	21.55	21.56
		64QAM	1	0	21.37	21.55	21.65
			1	49	21.71	21.86	21.96
			1	99	21.60	21.76	21.72
			50	0	20.49	20.51	20.66
			50	24	20.49	20.55	20.63
			50	49	20.48	20.59	20.64
			100	0	20.54	20.60	20.69

LTE Band 41 part:

LTE Band	Band-width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					39675	40148	40620	41093	41565
					2498.5MHz	2545.5MHz	2593.0MHz	2640.3MHz	2687.5MHz
Band 41	5	QPSK	1	0	22.96	23.00	23.60	23.20	23.03
			1	12	23.09	23.12	23.75	23.33	23.15
			1	24	22.99	23.01	23.68	23.23	23.03
			12	0	22.02	22.08	22.62	22.26	22.14
			12	6	22.00	22.07	22.60	22.24	22.13
			12	11	22.06	22.08	22.60	22.25	22.09
			25	0	22.08	22.12	22.60	22.28	22.16
		16QAM	1	0	22.28	22.31	22.88	22.50	22.33
			1	12	22.43	22.47	23.06	22.66	22.50
			1	24	22.24	22.30	22.95	22.52	22.36
			12	0	21.06	21.10	21.56	21.25	21.13
			12	6	21.05	21.12	21.51	21.25	21.19
			12	11	21.06	21.11	21.56	21.26	21.16
			25	0	21.10	21.14	21.68	21.32	21.18
		64QAM	1	0	21.56	21.61	21.91	21.71	21.65
			1	12	21.75	21.75	22.09	21.86	21.75
			1	24	21.58	21.62	22.02	21.75	21.65
			12	0	20.17	20.22	20.62	20.35	20.27
			12	6	20.16	20.23	20.61	20.35	20.29
			12	11	20.14	20.21	20.64	20.35	20.28
			25	0	20.08	20.13	20.75	20.34	20.18

LTE Band	Band-width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					39700	40160	40620	41080	41540
					2501.0MHz	2547.0MHz	2593.0MHz	2639.0MHz	2685.0MHz
Band 41	10	QPSK	1	0	23.05	23.14	23.55	23.27	23.22
			1	24	23.15	23.19	23.69	23.35	23.22
			1	49	23.10	23.15	23.66	23.32	23.20
			25	0	22.05	22.11	22.53	22.25	22.16
			25	12	22.04	22.07	22.53	22.22	22.09
			25	24	22.03	22.09	22.54	22.24	22.15
			50	0	22.07	22.14	22.59	22.29	22.21
		16QAM	1	0	22.40	22.25	22.85	22.45	22.10
			1	24	22.48	22.30	22.93	22.51	22.12
			1	49	22.44	22.25	22.93	22.47	22.05
			25	0	21.13	21.14	21.63	21.30	21.15
			25	12	21.13	21.14	21.62	21.30	21.14
			25	24	21.12	21.14	21.63	21.30	21.15
			50	0	21.06	21.13	21.59	21.28	21.20
		64QAM	1	0	21.53	21.31	21.94	21.52	21.08
			1	24	21.59	21.39	22.08	21.62	21.18
			1	49	21.50	21.28	22.06	21.54	21.06
			25	0	20.08	20.09	20.65	20.27	20.09
			25	12	20.11	20.11	20.63	20.28	20.11
			25	24	20.12	20.11	20.65	20.29	20.09
			50	0	20.13	20.16	20.70	20.34	20.18

LTE Band	Band-width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					39725	40173	40620	41068	41515
					2503.5MHz	2548.5MHz	2593.0MHz	2637.8MHz	2682.5MHz
Band 41	15	QPSK	1	0	23.08	23.16	23.52	23.28	23.23
			1	37	23.12	23.26	23.71	23.41	23.40
			1	74	23.03	23.12	23.64	23.29	23.21
			36	0	21.93	22.06	22.57	22.23	22.18
			36	16	21.93	22.05	22.59	22.23	22.17
			36	35	21.92	22.05	22.59	22.23	22.17
			75	0	21.99	22.09	22.69	22.29	22.18
		16QAM	1	0	22.00	22.08	22.79	22.31	22.15
			1	37	22.16	22.27	23.02	22.52	22.38
			1	74	21.98	22.09	22.95	22.37	22.19
			36	0	20.90	21.03	21.58	21.21	21.16
			36	16	20.90	21.04	21.59	21.22	21.17
			36	35	20.90	21.01	21.56	21.19	21.12
			75	0	20.94	21.06	21.63	21.25	21.17
		64QAM	1	0	21.31	21.39	21.93	21.57	21.46
			1	37	21.37	21.49	22.10	21.69	21.61
			1	74	21.24	21.36	22.08	21.60	21.47
			36	0	19.98	20.11	20.63	20.28	20.24
			36	16	19.99	20.13	20.66	20.31	20.27
			36	35	19.99	20.13	20.65	20.30	20.27
			75	0	20.01	20.13	20.73	20.33	20.24

LTE Band	Band-width (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					39750	40185	40620	41055	41490
					2506.0MHz	2549.5MHz	2593.0MHz	2636.5MHz	2680.0MHz
Band 41	20	QPSK	1	0	22.97	23.06	23.39	23.17	23.15
			1	49	23.15	23.23	23.74	23.40	23.30
			1	99	22.89	22.99	23.63	23.20	23.08
			50	0	21.94	22.07	22.47	22.20	22.19
			50	24	21.91	22.04	22.45	22.18	22.17
			50	49	21.92	22.04	22.49	22.19	22.15
			100	0	21.99	22.06	22.53	22.21	22.12
		16QAM	1	0	21.57	21.66	22.54	21.95	21.75
			1	49	21.75	21.85	22.88	22.19	21.95
			1	99	21.49	21.63	22.73	21.99	21.76
			50	0	20.92	21.05	21.49	21.20	21.18
			50	24	20.94	21.07	21.53	21.22	21.20
			50	49	20.94	21.07	21.50	21.21	21.20
			100	0	20.98	21.04	21.54	21.21	21.10
		64QAM	1	0	21.06	21.15	21.56	21.29	21.24
			1	49	21.21	21.33	21.89	21.51	21.44
			1	99	20.95	21.05	21.75	21.28	21.15
			50	0	20.05	20.20	20.51	20.30	20.35
			50	24	20.02	20.17	20.55	20.29	20.31
			50	49	20.03	20.18	20.53	20.30	20.33
			100	0	20.06	20.15	20.62	20.31	20.24

Note:

1. Per KDB 447498 D01v06 section 4.1., the required test channels number is 5 for LTE Band 41.

LTE Band 66 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131979	132322	132665
					1710.70MHz	1745.00MHz	1779.3MHz
Band 66	1.4	QPSK	1	0	22.95	23.40	23.19
			1	2	22.91	23.48	23.13
			1	5	22.90	23.48	23.14
			3	0	23.00	23.59	23.22
			3	1	23.00	23.61	23.21
			3	2	23.00	23.56	23.21
			6	0	22.07	22.60	22.30
		16QAM	1	0	22.01	22.37	22.27
			1	2	22.09	22.40	22.30
			1	5	22.04	22.34	22.29
			3	0	21.87	22.43	22.15
			3	1	21.92	22.42	22.14
			3	2	21.88	22.43	22.16
			6	0	21.13	21.64	21.22
		64QAM	1	0	21.45	21.85	21.33
			1	2	21.47	21.84	21.34
			1	5	21.40	21.85	21.24
			3	0	21.15	21.81	21.21
			3	1	21.17	21.78	21.19
			3	2	21.15	21.78	21.18
			6	0	19.93	20.58	20.15

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131987	132322	132657
					1711.50MHz	1745.00MHz	1778.50MHz
Band 66	3	QPSK	1	0	22.74	23.35	23.09
			1	7	22.86	23.47	23.25
			1	14	22.77	23.39	23.05
			8	0	21.90	22.54	22.22
			8	4	21.88	22.53	22.22
			8	7	22.00	22.52	22.29
			15	0	22.03	22.56	22.28
		16QAM	1	0	21.83	22.57	21.97
			1	7	22.03	22.60	22.08
			1	14	21.98	22.51	21.87
			8	0	20.97	21.57	21.19
			8	4	21.02	21.58	21.19
			8	7	21.07	21.59	21.23
			15	0	21.01	21.52	21.17
		64QAM	1	0	20.81	21.46	21.38
			1	7	20.97	21.61	21.55
			1	14	20.89	21.49	21.38
			8	0	19.95	20.60	20.21
			8	4	19.97	20.58	20.23
			8	7	19.99	20.55	20.22
			15	0	20.14	20.52	20.26

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131997	132322	132647
					1712.50MHz	1745.00MHz	1777.50MHz
Band 66	5	QPSK	1	0	23.07	23.72	23.32
			1	12	23.22	23.83	23.45
			1	24	23.12	23.69	23.32
			12	0	22.04	22.64	22.33
			12	6	22.03	22.61	22.31
			12	11	22.04	22.62	22.36
			25	0	22.13	22.62	22.32
		16QAM	1	0	22.29	22.65	22.35
			1	12	22.47	22.84	22.44
			1	24	22.40	22.70	22.35
			12	0	21.09	21.68	21.29
			12	6	21.05	21.64	21.31
			12	11	21.08	21.65	21.32
			25	0	21.15	21.71	21.32
		64QAM	1	0	21.66	21.92	21.26
			1	12	21.79	22.10	21.41
			1	24	21.71	21.99	21.26
			12	0	20.08	20.72	20.35
			12	6	20.13	20.66	20.35
			12	11	20.12	20.66	20.38
			25	0	20.12	20.72	20.31

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132022	132322	132622
					1715.00MHz	1745.00MHz	1775.00MHz
Band 66	10	QPSK	1	0	23.06	23.69	23.37
			1	24	23.15	23.77	23.32
			1	49	23.23	23.71	23.29
			25	0	21.97	22.69	22.26
			25	12	22.01	22.65	22.36
			25	24	22.02	22.61	22.33
			50	0	22.14	22.69	22.39
		16QAM	1	0	22.21	22.61	22.56
			1	24	22.35	22.68	22.52
			1	49	22.45	22.66	22.48
			25	0	21.07	21.76	21.32
			25	12	21.04	21.72	21.34
			25	24	21.04	21.74	21.31
			50	0	21.22	21.67	21.32
		64QAM	1	0	21.12	21.95	21.36
			1	24	21.25	22.03	21.39
			1	49	21.39	22.01	21.33
			25	0	19.98	20.67	20.38
			25	12	20.01	20.64	20.40
			25	24	20.00	20.66	20.33
			50	0	20.20	20.65	20.35

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132047	132322	132597
					1717.50MHz	1745.00MHz	1772.50MHz
Band 66	15	QPSK	1	0	22.95	23.60	23.33
			1	37	23.28	23.76	23.39
			1	74	23.37	23.67	23.36
			36	0	22.04	22.66	22.37
			36	16	22.07	22.62	22.34
			36	35	22.06	22.62	22.41
			75	0	22.27	22.68	22.41
		16QAM	1	0	22.24	22.49	22.50
			1	37	22.58	22.68	22.60
			1	74	22.64	22.54	22.51
			36	0	21.12	21.57	21.38
			36	16	21.15	21.54	21.29
			36	35	21.14	21.61	21.33
			75	0	21.28	21.64	21.31
		64QAM	1	0	21.22	21.86	21.33
			1	37	21.58	22.04	21.45
			1	74	21.66	21.85	21.35
			36	0	20.07	20.60	20.40
			36	16	20.06	20.57	20.40
			36	35	20.07	20.56	20.39
			75	0	20.29	20.62	20.34

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132072	132322	132572
					1720.00MHz	1745.00MHz	1770.00MHz
Band 66	20	QPSK	1	0	22.89	23.41	23.36
			1	49	23.32	23.70	23.47
			1	99	23.38	23.42	23.30
			50	0	21.98	22.70	22.24
			50	24	22.00	22.66	22.27
			50	49	22.03	22.65	22.23
			100	0	22.17	22.65	22.29
		16QAM	1	0	22.09	22.46	22.30
			1	49	22.47	22.79	22.49
			1	99	22.65	22.53	22.30
			50	0	21.00	21.75	21.22
			50	24	21.01	21.68	21.28
			50	49	20.98	21.71	21.24
			100	0	21.18	21.59	21.29
		64QAM	1	0	21.20	21.42	21.61
			1	49	21.58	21.72	21.83
			1	99	21.68	21.44	21.61
			50	0	20.07	20.66	20.26
			50	24	20.04	20.70	20.27
			50	49	20.03	20.63	20.32
			100	0	20.25	20.56	20.25

Uplink CA power

CA_2C								
PCC Channel	SCC Channel	Bandwidth (MHz)	Modulation	PCC		SCC		Average Power (dBm)
				RB Size	RB Offset	RB Size	RB Offset	
18700	18898	20+20	QPSK	1	0	0	0	22.95
18900	18702			1	0	0	0	23.50
19100	18902			1	0	0	0	23.39

CA_5B								
PCC Channel	SCC Channel	Bandwidth (MHz)	Modulation	PCC		SCC		Average Power (dBm)
				RB Size	RB Offset	RB Size	RB Offset	
20450	20549	10+10	QPSK	1	49	0	0	23.96
20476	20575			1	49	0	0	23.95
20501	20600			1	49	0	0	23.92

CA_7C								
PCC Channel	SCC Channel	Bandwidth (MHz)	Modulation	PCC		SCC		Average Power (dBm)
				RB Size	RB Offset	RB Size	RB Offset	
20850	21048	20+20	QPSK	1	99	0	0	22.62
21100	20902			1	99	0	0	22.68
21350	21152			1	99	0	0	22.71

CA_38C								
PCC Channel	SCC Channel	Bandwidth (MHz)	Modulation	PCC		SCC		Average Power (dBm)
				RB Size	RB Offset	RB Size	RB Offset	
37850	38048	20+20	QPSK	1	99	0	0	23.31
37901	38099			1	99	0	0	23.19
38150	37952			1	99	0	0	23.25

CA_41C								
PCC Channel	SCC Channel	Bandwidth (MHz)	Modulation	PCC		SCC		Average Power (dBm)
				RB Size	RB Offset	RB Size	RB Offset	
40140	40338	20+20	QPSK	1	99	0	0	23.31
40640	40692			1	99	0	0	23.71
41140	40942			1	99	0	0	23.01

CA_66C								
PCC Channel	SCC Channel	Bandwidth (MHz)	Modulation	PCC		SCC		Average Power (dBm)
				RB Size	RB Offset	RB Size	RB Offset	
132072	132270	20+20	QPSK	1	99	0	0	23.58
132322	132520			1	99	0	0	23.51
132572	132374			1	99	0	0	23.59

13.4 WLAN 2.4 GHz Band Conducted Power

ANT 13:

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	17.81	15.96	15.48
CH 06	2437	18.16	15.93	15.14
CH 11	2462	18.15	15.91	15.30

Note:

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. Per KDB 248227 D01v02r02, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:
 - 1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
 - 2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

ANT 14:

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	17.26	16.37	15.83
CH 06	2437	17.58	16.35	16.15
CH 11	2462	18.07	16.31	16.54

Note:

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. Per KDB 248227 D01v02r02, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:
 - 1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
 - 2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.5 WLAN 5.2GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 36	5180	16.73	15.22	15.58
CH 40	5200	16.66	15.24	15.60
CH 48	5240	16.77	15.45	15.80

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 38	5190	15.18	15.39
CH 46	5230	15.32	15.82

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 42	5210	14.98

Note:

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
3. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.6 WLAN 5.3GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 52	5260	15.19	14.99	15.28
CH 56	5280	15.51	15.01	15.40
CH 64	5320	15.85	15.33	15.57

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 54	5270	14.89	15.17
CH 62	5310	15.45	15.67

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 58	5290	14.37

Note:

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
3. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.7 WLAN 5.6GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 100	5500	16.75	15.62	16.10
CH 120	5600	16.28	15.40	15.43
CH 140	5700	16.55	16.01	16.00

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 102	5510	15.77	15.73
CH 108	5590	15.28	15.31
CH 134	5670	15.04	15.34

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 106	5530	14.80
CH 122	5610	14.68

Note:

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
3. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.8 WLAN 5.8GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 149	5745	16.45	14.94	15.80
CH 157	5785	17.40	15.58	16.56
CH 165	5825	16.73	14.71	15.68

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 151	5755	14.50	15.28
CH 159	5795	15.11	16.05

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 155	5775	14.70

Note:

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
3. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.9 Bluetooth Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 00	2402	11.39	10.61	10.51
CH 39	2441	14.71	14.30	14.18
CH 78	2480	14.33	14.42	14.30

Average Power (dBm)				
Channel	Frequency (MHz)	BLE PHY 1M	BLE Coded PHY S=2	BLE Coded PHY S=8
CH 00	2402	5.53	5.84	5.45
CH 20	2442	6.50	6.83	6.77
CH 39	2480	5.65	5.94	5.89

Average Power (dBm)		
Channel	Frequency (MHz)	BLE PHY 2M
CH 01	2404	5.65
CH 20	2442	6.50
CH 38	2478	5.68

Note:

- The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.
- When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.

13.10 NFC Conducted Power

Average Power (dBm)	
Frequency (MHz)	ASK
13.56	-48.68

Note:

- Per KDB 447498 D01v06 section 4.3 Test Exemption, $P_{th}=1+\log(100/f_{MHz})= 1.87mW = 2.72dBm$, $P_{NFC}= -48.68dBm < P_{th}$, SAR test for NFC is not required.
- The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.

14 Exposure Positions Consideration

14.1 EUT Antenna Locations

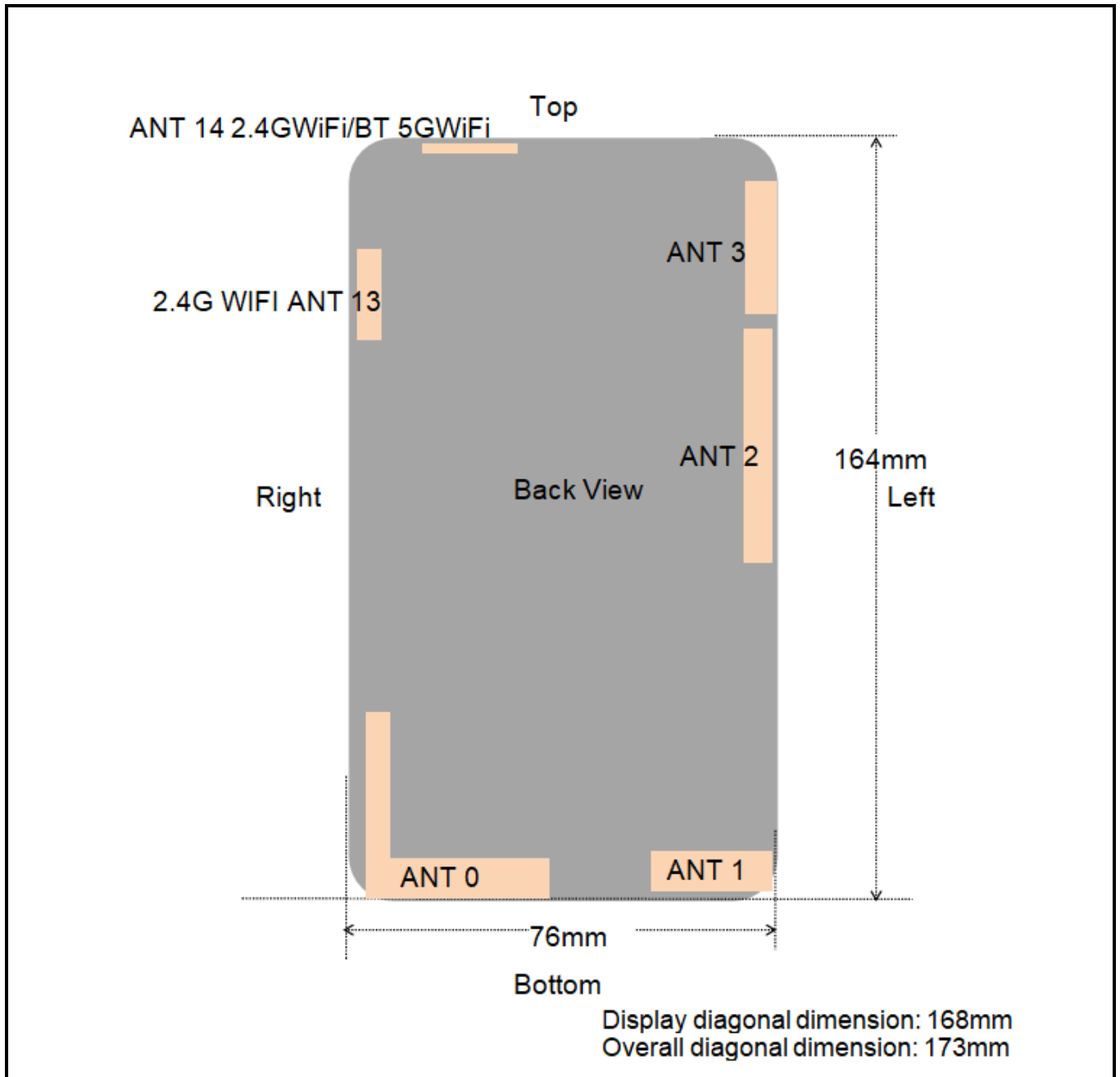


Fig.14.1 EUT Antenna Locations

Note: This antenna diagram is only used as a reference for the distance from the antenna to each edge. For the specific shape of the antenna, please refer to the physical photo.

14.2 Test Positions Consideration

Distance of Antennas to EUT edge/surface Test distance: 10mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
ANT 0 :Below 1GHz Band PRX	<25mm	<25mm	90mm	<25mm	<25mm	40mm
ANT 1 :Above 1GHz Band PRX	<25mm	<25mm	139mm	<25mm	40mm	<25mm
ANT 2 : Below 1GHz Band DRX	<25mm	<25mm	<25mm	50mm	70mm	<25mm
ANT 3: Above 1GHz Band DRX	<25mm	<25mm	<25mm	126mm	70mm	<25mm
ANT 13: 2.4 G WiFi	<25mm	<25mm	<25mm	120mm	<25mm	70mm
ANT 14:2.4G/5GHz WiFi& BT	<25mm	<25mm	<25mm	150mm	<25mm	35mm

Test Positions Test distance: 10mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
ANT 0 :Below 1GHz Band PRX	Yes	Yes	No	Yes	Yes	No
ANT 1 :Above 1GHz Band PRX	Yes	Yes	No	Yes	No	Yes
ANT 2 : Below 1GHz Band DRX	Yes	Yes	Yes	No	No	Yes
ANT 3: Above 1GHz Band DRX	Yes	Yes	Yes	No	No	Yes
ANT 13: 2.4 G WiFi	Yes	Yes	Yes	No	Yes	No
ANT 14:2.4G/5GHz WiFi& BT	Yes	Yes	Yes	No	Yes	No

Note:

1. Head/Body-worn/Hotspot mode SAR assessments are required.
2. Referring to KDB 941225 D06 v02r01, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
3. Per KDB 447498 D01v06, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user, which is 0 mm for head SAR, 10 mm for hotspot SAR, and 10 mm for body-worn SAR.
4. Per KDB 648474 D04 v01r03, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2\text{ W/kg}$

15 SAR Test Results Summary

15.1 Standalone Head SAR Data

➤ GSM Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GSM850/Voice	0	Right Cheek	190	836.6	33.00	0.00	33.5	0.024	1.122	0.027
	GSM850/Voice	0	Right Tilted	190	836.6	33.00	0.05	33.5	0.010	1.122	0.011
	GSM850/Voice	0	Left Cheek	190	836.6	33.00	0.14	33.5	0.020	1.122	0.023
	GSM850/Voice	0	Left Tilted	190	836.6	33.00	0.04	33.5	0.008	1.122	0.009
	GSM850/Voice	2	Right Cheek	190	836.6	33.00	0.03	33.5	0.127	1.122	0.142
	GSM850/Voice	2	Right Tilted	190	836.6	33.00	-0.14	33.5	0.030	1.122	0.034
1	GSM850/Voice	2	Left Cheek	190	836.6	33.00	0.02	33.5	0.199	1.122	0.223
	GSM850/Voice	2	Left Tilted	190	836.6	33.00	0.07	33.5	0.026	1.122	0.029
	PCS1900/Voice	1	Right Cheek	661	1880	29.44	0.07	29.5	0.014	1.014	0.014
	PCS1900/Voice	1	Right Tilted	661	1880	29.44	0.07	29.5	0.018	1.014	0.018
	PCS1900/Voice	1	Left Cheek	661	1880	29.44	0.00	29.5	0.009	1.014	0.009
	PCS1900/Voice	1	Left Tilted	661	1880	29.44	0.07	29.5	0.013	1.014	0.013
	PCS1900/Voice	3	Right Cheek	661	1880	29.44	0.09	29.5	0.760	1.014	0.771
	PCS1900/Voice	3	Right Tilted	661	1880	29.44	0.18	29.5	0.293	1.014	0.297
	PCS1900/Voice	3	Left Cheek	661	1880	29.44	0.07	29.5	0.249	1.014	0.252
	PCS1900/Voice	3	Left Tilted	661	1880	29.44	0.06	29.5	0.150	1.014	0.152
2	PCS1900/Voice	3	Right Cheek	512	1850.2	29.37	0.04	29.5	0.826	1.03	0.851
	PCS1900/Voice	3	Right Cheek	512	1850.2	29.37	0.06	29.5	0.786	1.03	0.810
	PCS1900/Voice	3	Right Cheek	810	1909.8	29.29	0.04	29.5	0.662	1.05	0.695
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ WCDMA Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	1	Right Cheek	9538	1907.6	22.93	0.09	23.0	0.013	1.016	0.013
	Band II/RMC	1	Right Tilted	9538	1907.6	22.93	0.06	23.0	0.009	1.016	0.009
	Band II/RMC	1	Left Cheek	9538	1907.6	22.93	0.00	23.0	0.011	1.016	0.011
	Band II/RMC	1	Left Tilted	9538	1907.6	22.93	0.04	23.0	0.010	1.016	0.010
3	Band II/RMC	3	Right Cheek	9538	1907.6	22.93	0.07	23.0	0.383	1.016	0.389
	Band II/RMC	3	Right Tilted	9538	1907.6	22.93	0.06	23.0	0.123	1.016	0.125
	Band II/RMC	3	Left Cheek	9538	1907.6	22.93	-0.01	23.0	0.148	1.016	0.150
	Band II/RMC	3	Left Tilted	9538	1907.6	22.93	0.03	23.0	0.079	1.016	0.080
	Band IV/RMC	1	Right Cheek	1413	1732.6	23.03	0.18	23.5	0.045	1.114	0.050
	Band IV/RMC	1	Right Tilted	1413	1732.6	23.03	0.09	23.5	0.032	1.114	0.036
	Band IV/RMC	1	Left Cheek	1413	1732.6	23.03	0.05	23.5	0.032	1.114	0.036
	Band IV/RMC	1	Left Tilted	1413	1732.6	23.03	0.09	23.5	0.022	1.114	0.025
4	Band IV/RMC	3	Right Cheek	1413	1732.6	23.03	0.04	23.5	0.419	1.114	0.467
	Band IV/RMC	3	Right Tilted	1413	1732.6	23.03	0.10	23.5	0.096	1.114	0.107
	Band IV/RMC	3	Left Cheek	1413	1732.6	23.03	0.00	23.5	0.176	1.114	0.196
	Band IV/RMC	3	Left Tilted	1413	1732.6	23.03	0.03	23.5	0.068	1.114	0.076
	Band V/RMC	0	Right Cheek	4183	836.6	23.55	0.07	24.0	0.047	1.109	0.052
	Band V/RMC	0	Right Tilted	4183	836.6	23.55	0.04	24.0	0.018	1.109	0.020
	Band V/RMC	0	Left Cheek	4183	836.6	23.55	0.02	24.0	0.047	1.109	0.052
	Band V/RMC	0	Left Tilted	4183	836.6	23.55	0.00	24.0	0.022	1.109	0.024
	Band V/RMC	2	Right Cheek	4183	836.6	23.55	0.07	24.0	0.246	1.109	0.273
	Band V/RMC	2	Right Tilted	4183	836.6	23.55	0.04	24.0	0.049	1.109	0.054
5	Band V/RMC	2	Left Cheek	4183	836.6	23.55	-0.03	24.0	0.441	1.109	0.489
	Band V/RMC	2	Left Tilted	4183	836.6	23.55	0.07	24.0	0.047	1.109	0.052
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 2(20MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/1RB#0	1	Right Cheek	18900	1880	23.67	0.13	24.0	0.023	1.079	0.025
	Band2C/1RB#0	1	Right Cheek	18900+18702	1880+1860.2	23.50	0.16	24.0	0.014	1.122	0.016
	Band2/1RB#0	1	Right Tilted	18900	1880	23.67	-0.08	24.0	0.021	1.079	0.023
	Band2/1RB#0	1	Left Cheek	18900	1880	23.67	0.09	24.0	0.011	1.079	0.012
	Band2/1RB#0	1	Left Tilted	18900	1880	23.67	0.09	24.0	0.012	1.079	0.013
6	Band2/1RB#0	3	Right Cheek	18900	1880	23.67	-0.02	24.0	0.487	1.079	0.525
	Band2/1RB#0	3	Right Tilted	18900	1880	23.67	-0.07	24.0	0.214	1.079	0.231
	Band2/1RB#0	3	Left Cheek	18900	1880	23.67	-0.05	24.0	0.205	1.079	0.221
	Band2/1RB#0	3	Left Tilted	18900	1880	23.67	-0.02	24.0	0.113	1.079	0.122
	Band2/50%RB#49	1	Right Cheek	18900	1880	22.58	0.01	23.0	0.018	1.102	0.020
	Band2/50%RB#49	1	Right Tilted	18900	1880	22.58	0.20	23.0	0.016	1.102	0.018
	Band2/50%RB#49	1	Left Cheek	18900	1880	22.58	0.08	23.0	0.009	1.102	0.010
	Band2/50%RB#49	1	Left Tilted	18900	1880	22.58	0.02	23.0	0.010	1.102	0.011
	Band2/50%RB#49	3	Right Cheek	18900	1880	22.58	-0.11	23.0	0.453	1.102	0.499
	Band2/50%RB#49	3	Right Tilted	18900	1880	22.58	0.03	23.0	0.201	1.102	0.222
	Band2/50%RB#49	3	Left Cheek	18900	1880	22.58	-0.13	23.0	0.187	1.102	0.206
	Band2/50%RB#49	3	Left Tilted	18900	1880	22.58	-0.13	23.0	0.103	1.102	0.114
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 4(20MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band4/1RB#49	1	Right Cheek	20175	1732.5	23.68	-0.17	24.0	0.041	1.076	0.044
	Band4/1RB#49	1	Right Tilted	20175	1732.5	23.68	0.02	24.0	0.013	1.076	0.014
	Band4/1RB#49	1	Left Cheek	20175	1732.5	23.68	0.09	24.0	0.016	1.076	0.017
	Band4/1RB#49	1	Left Tilted	20175	1732.5	23.68	0.09	24.0	0.022	1.076	0.024
7	Band4/1RB#49	3	Right Cheek	20175	1732.5	23.68	0.04	24.0	0.446	1.076	0.480
	Band4/1RB#49	3	Right Tilted	20175	1732.5	23.68	0.07	24.0	0.132	1.076	0.142
	Band4/1RB#49	3	Left Cheek	20175	1732.5	23.68	0.00	24.0	0.210	1.076	0.226
	Band4/1RB#49	3	Left Tilted	20175	1732.5	23.68	0.02	24.0	0.070	1.076	0.076
	Band4/50%RB#49	1	Right Cheek	20300	1745	22.53	-0.08	23.0	0.033	1.114	0.037
	Band4/50%RB#49	1	Right Tilted	20300	1745	22.53	-0.05	23.0	0.010	1.114	0.011
	Band4/50%RB#49	1	Left Cheek	20300	1745	22.53	-0.08	23.0	0.011	1.114	0.012
	Band4/50%RB#49	1	Left Tilted	20300	1745	22.53	0.01	23.0	0.018	1.114	0.020
	Band4/50%RB#49	3	Right Cheek	20300	1745	22.53	-0.19	23.0	0.416	1.114	0.463
	Band4/50%RB#49	3	Right Tilted	20300	1745	22.53	-0.14	23.0	0.111	1.114	0.124
	Band4/50%RB#49	3	Left Cheek	20300	1745	22.53	0.01	23.0	0.196	1.114	0.218
	Band4/50%RB#49	3	Left Tilted	20300	1745	22.53	-0.04	23.0	0.062	1.114	0.069
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 5(10MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band5/1RB#24	0	Right Cheek	20525	836.5	24.43	0.13	24.5	0.069	1.016	0.070
	Band5B/1RB#24	0	Right Cheek	20476+20575	831.6+841.5	23.95	-0.17	24.5	0.042	1.135	0.048
	Band5/1RB#24	0	Right Tilted	20525	836.5	24.43	-0.09	24.5	0.025	1.016	0.025
	Band5/1RB#24	0	Left Cheek	20525	836.5	24.43	-0.20	24.5	0.055	1.016	0.056
	Band5/1RB#24	0	Left Tilted	20525	836.5	24.43	-0.07	24.5	0.021	1.016	0.021
	Band5/1RB#24	2	Right Cheek	20525	836.5	24.43	0.16	24.5	0.294	1.016	0.299
	Band5/1RB#24	2	Right Tilted	20525	836.5	24.43	0.04	24.5	0.059	1.016	0.060
8	Band5/1RB#24	2	Left Cheek	20525	836.5	24.43	-0.04	24.5	0.494	1.016	0.502
	Band5/1RB#24	2	Left Tilted	20525	836.5	24.43	0.00	24.5	0.064	1.016	0.065
	Band5/50%RB#12	0	Right Cheek	20600	844	23.43	0.19	23.5	0.064	1.016	0.065
	Band5/50%RB#12	0	Right Tilted	20600	844	23.43	0.07	23.5	0.020	1.016	0.020
	Band5/50%RB#12	0	Left Cheek	20600	844	23.43	-0.13	23.5	0.049	1.016	0.050
	Band5/50%RB#12	0	Left Tilted	20600	844	23.43	-0.02	23.5	0.021	1.016	0.021
	Band5/50%RB#12	2	Right Cheek	20600	844	23.43	-0.11	23.5	0.288	1.016	0.293
	Band5/50%RB#12	2	Right Tilted	20600	844	23.43	-0.16	23.5	0.055	1.016	0.056
	Band5/50%RB#12	2	Left Cheek	20600	844	23.43	-0.02	23.5	0.451	1.016	0.458
	Band5/50%RB#12	2	Left Tilted	20600	844	23.43	0.10	23.5	0.057	1.016	0.058
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 7(20MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band7/1RB#99	1	Right Cheek	21350	2560	23.02	0.00	23.5	0.026	1.117	0.029
	Band7/1RB#99	1	Right Tilted	21350	2560	23.02	0.08	23.5	0.006	1.117	0.007
	Band7/1RB#99	1	Left Cheek	21350	2560	23.02	0.00	23.5	0.030	1.117	0.033
	Band7C/1RB#99	1	Left Cheek	21350+21152	2560+2540.2	22.71	0.17	23.5	0.021	1.199	0.025
	Band7/1RB#99	1	Left Tilted	21350	2560	23.02	-0.19	23.5	0.006	1.117	0.006
9	Band7/1RB#99	3	Right Cheek	21350	2560	23.02	0.00	23.5	0.599	1.117	0.669
	Band7/1RB#99	3	Right Tilted	21350	2560	23.02	0.09	23.5	0.274	1.117	0.306
	Band7/1RB#99	3	Left Cheek	21350	2560	23.02	0.02	23.5	0.218	1.117	0.244
	Band7/1RB#99	3	Left Tilted	21350	2560	23.02	-0.02	23.5	0.127	1.117	0.142
	Band7/50%RB#0	1	Right Cheek	21350	2560	21.80	-0.02	22.0	0.022	1.047	0.023
	Band7/50%RB#0	1	Right Tilted	21350	2560	21.80	-0.13	22.0	0.004	1.047	0.004
	Band7/50%RB#0	1	Left Cheek	21350	2560	21.80	0.15	22.0	0.024	1.047	0.025
	Band7/50%RB#0	1	Left Tilted	21350	2560	21.80	-0.05	22.0	0.003	1.047	0.003
	Band7/50%RB#0	3	Right Cheek	21350	2560	21.80	0.04	22.0	0.559	1.047	0.585
	Band7/50%RB#0	3	Right Tilted	21350	2560	21.80	0.12	22.0	0.227	1.047	0.238
	Band7/50%RB#0	3	Left Cheek	21350	2560	21.80	0.13	22.0	0.203	1.047	0.213
	Band7/50%RB#0	3	Left Tilted	21350	2560	21.80	0.10	22.0	0.114	1.047	0.119
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 12(10MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band12/1RB#24	0	Right Cheek	23130	711	24.36	0.03	24.5	0.060	1.033	0.062
	Band12/1RB#24	0	Right Tilted	23130	711	24.36	0.08	24.5	0.027	1.033	0.028
	Band12/1RB#24	0	Left Cheek	23130	711	24.36	-0.03	24.5	0.049	1.033	0.051
	Band12/1RB#24	0	Left Tilted	23130	711	24.36	0.09	24.5	0.022	1.033	0.023
	Band12/1RB#24	2	Right Cheek	23130	711	24.36	0.10	24.5	0.278	1.033	0.287
	Band12/1RB#24	2	Right Tilted	23130	711	24.36	0.16	24.5	0.059	1.033	0.061
10	Band12/1RB#24	2	Left Cheek	23130	711	24.36	-0.08	24.5	0.369	1.033	0.381
	Band12/1RB#24	2	Left Tilted	23130	711	24.36	0.13	24.5	0.058	1.033	0.060
	Band12/50%RB#12	0	Right Cheek	23060	704	23.31	-0.08	23.5	0.051	1.045	0.053
	Band12/50%RB#12	0	Right Tilted	23060	704	23.31	0.10	23.5	0.022	1.045	0.023
	Band12/50%RB#12	0	Left Cheek	23060	704	23.31	0.02	23.5	0.040	1.045	0.042
	Band12/50%RB#12	0	Left Tilted	23060	704	23.31	-0.20	23.5	0.018	1.045	0.019
	Band12/50%RB#12	2	Right Cheek	23060	704	23.31	0.06	23.5	0.253	1.045	0.264
	Band12/50%RB#12	2	Right Tilted	23060	704	23.31	0.12	23.5	0.052	1.045	0.054
	Band12/50%RB#12	2	Left Cheek	23060	704	23.31	0.14	23.5	0.333	1.045	0.348
	Band12/50%RB#12	2	Left Tilted	23060	704	23.31	-0.19	23.5	0.050	1.045	0.052
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 13(10MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band13/1RB#49	0	Right Cheek	23230	782	23.65	0.05	24.0	0.040	1.084	0.043
	Band13/1RB#49	0	Right Tilted	23230	782	23.65	0.08	24.0	0.019	1.084	0.020
	Band13/1RB#49	0	Left Cheek	23230	782	23.65	0.17	24.0	0.038	1.084	0.041
	Band13/1RB#49	0	Left Tilted	23230	782	23.65	0.18	24.0	0.016	1.084	0.017
	Band13/1RB#49	2	Right Cheek	23230	782	23.65	0.08	24.0	0.325	1.084	0.352
	Band13/1RB#49	2	Right Tilted	23230	782	23.65	0.00	24.0	0.070	1.084	0.076
11	Band13/1RB#49	2	Left Cheek	23230	782	23.65	0.02	24.0	0.343	1.084	0.372
	Band13/1RB#49	2	Left Tilted	23230	782	23.65	0.05	24.0	0.054	1.084	0.058
	Band13/50%RB#24	0	Right Cheek	23230	782	22.44	-0.12	22.5	0.035	1.014	0.035
	Band13/50%RB#24	0	Right Tilted	23230	782	22.44	0.00	22.5	0.015	1.014	0.015
	Band13/50%RB#24	0	Left Cheek	23230	782	22.44	0.14	22.5	0.033	1.014	0.033
	Band13/50%RB#24	0	Left Tilted	23230	782	22.44	0.16	22.5	0.012	1.014	0.012
	Band13/50%RB#24	2	Right Cheek	23230	782	22.44	-0.17	22.5	0.301	1.014	0.305
	Band13/50%RB#24	2	Right Tilted	23230	782	22.44	0.00	22.5	0.059	1.014	0.060
	Band13/50%RB#24	2	Left Cheek	23230	782	22.44	0.05	22.5	0.289	1.014	0.293
	Band13/50%RB#24	2	Left Tilted	23230	782	22.44	0.04	22.5	0.041	1.014	0.042
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 17(10MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band17/1RB#24	0	Right Cheek	23800	711	24.32	0.11	24.5	0.058	1.042	0.060
	Band17/1RB#24	0	Right Tilted	23800	711	24.32	0.15	24.5	0.026	1.042	0.027
	Band17/1RB#24	0	Left Cheek	23800	711	24.32	-0.16	24.5	0.047	1.042	0.049
	Band17/1RB#24	0	Left Tilted	23800	711	24.32	0.04	24.5	0.018	1.042	0.019
	Band17/1RB#24	2	Right Cheek	23800	711	24.32	0.12	24.5	0.277	1.042	0.289
	Band17/1RB#24	2	Right Tilted	23800	711	24.32	0.01	24.5	0.059	1.042	0.062
12	Band17/1RB#24	2	Left Cheek	23800	711	24.32	0.15	24.5	0.365	1.042	0.380
	Band17/1RB#24	2	Left Tilted	23800	711	24.32	0.09	24.5	0.058	1.042	0.060
	Band17/50%RB#24	0	Right Cheek	23800	711	23.20	-0.06	23.5	0.049	1.072	0.053
	Band17/50%RB#24	0	Right Tilted	23800	711	23.20	0.07	23.5	0.020	1.072	0.021
	Band17/50%RB#24	0	Left Cheek	23800	711	23.20	0.00	23.5	0.038	1.072	0.041
	Band17/50%RB#24	0	Left Tilted	23800	711	23.20	-0.14	23.5	0.016	1.072	0.017
	Band17/50%RB#24	2	Right Cheek	23800	711	23.20	0.05	23.5	0.250	1.072	0.268
	Band17/50%RB#24	2	Right Tilted	23800	711	23.20	0.19	23.5	0.049	1.072	0.053
	Band17/50%RB#24	2	Left Cheek	23800	711	23.20	0.18	23.5	0.329	1.072	0.353
	Band17/50%RB#24	2	Left Tilted	23800	711	23.20	0.20	23.5	0.047	1.072	0.050
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 25(20MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band25/1RB#49	1	Right Tilted	26590	1905	23.85	0.05	24.0	0.025	1.035	0.026
	Band25/1RB#49	1	Left Cheek	26590	1905	23.85	0.09	24.0	0.013	1.035	0.013
	Band25/1RB#49	1	Left Tilted	26590	1905	23.85	0.13	24.0	0.015	1.035	0.016
13	Band25/1RB#49	3	Right Cheek	26590	1905	23.85	0.00	24.0	0.581	1.035	0.601
	Band25/1RB#49	3	Right Tilted	26590	1905	23.85	0.02	24.0	0.236	1.035	0.244
	Band25/1RB#49	3	Left Cheek	26590	1905	23.85	0.00	24.0	0.225	1.035	0.233
	Band25/1RB#49	3	Left Tilted	26590	1905	23.85	-0.02	24.0	0.134	1.035	0.139
	Band25/50%RB#49	1	Right Cheek	26140	1860	22.76	-0.06	23.0	0.019	1.057	0.020
	Band25/50%RB#49	1	Right Tilted	26140	1860	22.76	0.06	23.0	0.017	1.057	0.018

	Band25/50%RB#49	1	Left Cheek	26140	1860	22.76	0.16	23.0	0.011	1.057	0.012
	Band25/50%RB#49	1	Left Tilted	26140	1860	22.76	-0.09	23.0	0.012	1.057	0.013
	Band25/50%RB#49	3	Right Cheek	26140	1860	22.76	0.04	23.0	0.526	1.057	0.556
	Band25/50%RB#49	3	Right Tilted	26140	1860	22.76	-0.13	23.0	0.221	1.057	0.234
	Band25/50%RB#49	3	Left Cheek	26140	1860	22.76	0.10	23.0	0.203	1.057	0.215
	Band25/50%RB#49	3	Left Tilted	26140	1860	22.76	-0.03	23.0	0.120	1.057	0.127
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 26(15MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band26/1RB#74	0	Right Cheek	26865	831.5	24.90	0.02	25.0	0.072	1.023	0.074
	Band26/1RB#74	0	Right Tilted	26865	831.5	24.90	0.09	25.0	0.027	1.023	0.028
	Band26/1RB#74	0	Left Cheek	26865	831.5	24.90	0.00	25.0	0.056	1.023	0.057
	Band26/1RB#74	0	Left Tilted	26865	831.5	24.90	0.07	25.0	0.028	1.023	0.028
	Band26/1RB#74	2	Right Cheek	26865	831.5	24.90	0.04	25.0	0.306	1.023	0.313
	Band26/1RB#74	2	Right Tilted	26865	831.5	24.90	0.10	25.0	0.063	1.023	0.065
14	Band26/1RB#74	2	Left Cheek	26865	831.5	24.90	0.04	25.0	0.518	1.023	0.530
	Band26/1RB#74	2	Left Tilted	26865	831.5	24.90	-0.03	25.0	0.067	1.023	0.069
	Band26/50%RB#16	0	Right Cheek	26865	831.5	23.15	-0.17	23.5	0.066	1.084	0.072
	Band26/50%RB#16	0	Right Tilted	26865	831.5	23.15	-0.03	23.5	0.022	1.084	0.024
	Band26/50%RB#16	0	Left Cheek	26865	831.5	23.15	-0.17	23.5	0.051	1.084	0.055
	Band26/50%RB#16	0	Left Tilted	26865	831.5	23.15	-0.08	23.5	0.023	1.084	0.025
	Band26/50%RB#16	2	Right Cheek	26865	831.5	23.15	-0.04	23.5	0.298	1.084	0.323
	Band26/50%RB#16	2	Right Tilted	26865	831.5	23.15	-0.09	23.5	0.057	1.084	0.062
	Band26/50%RB#16	2	Left Cheek	26865	831.5	23.15	0.19	23.5	0.462	1.084	0.501
	Band26/50%RB#16	2	Left Tilted	26865	831.5	23.15	-0.09	23.5	0.059	1.084	0.064
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ TDD-LTE Band38(20MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band38/1RB#49	1	Right Cheek	38150	2610	23.80	0.07	24.0	0.009	1.047	1.008	0.010
	Band38/1RB#49	1	Right Tilted	38150	2610	23.80	0.04	24.0	0.009	1.047	1.008	0.009
	Band38/1RB#49	1	Left Cheek	38150	2610	23.80	0.00	24.0	0.029	1.047	1.008	0.031
	Band38C/1RB#49	1	Left Cheek	38150+37952	2610+2590.2	23.25	-0.05	24.0	0.012	1.189	1.008	0.014
	Band38/1RB#49	1	Left Tilted	38150	2610	23.80	0.00	24.0	0.006	1.047	1.008	0.006
15	Band38/1RB#49	3	Right Cheek	38150	2610	23.80	0.12	24.0	0.537	1.047	1.008	0.567
	Band38/1RB#49	3	Right Tilted	38150	2610	23.80	0.07	24.0	0.281	1.047	1.008	0.297
	Band38/1RB#49	3	Left Cheek	38150	2610	23.80	0.07	24.0	0.206	1.047	1.008	0.217
	Band38/1RB#49	3	Left Tilted	38150	2610	23.80	0.02	24.0	0.124	1.047	1.008	0.131
	Band38/50%RB#0	1	Right Cheek	38150	2610	22.64	-0.01	23.0	0.007	1.086	1.008	0.008
	Band38/50%RB#0	1	Right Tilted	38150	2610	22.64	0.13	23.0	0.006	1.086	1.008	0.007
	Band38/50%RB#0	1	Left Cheek	38150	2610	22.64	0.11	23.0	0.022	1.086	1.008	0.024
	Band38/50%RB#0	1	Left Tilted	38150	2610	22.64	0.04	23.0	0.003	1.086	1.008	0.003
	Band38/50%RB#0	3	Right Cheek	38150	2610	22.64	0.05	23.0	0.465	1.086	1.008	0.509
	Band38/50%RB#0	3	Right Tilted	38150	2610	22.64	-0.17	23.0	0.262	1.086	1.008	0.287
	Band38/50%RB#0	3	Left Cheek	38150	2610	22.64	0.02	23.0	0.185	1.086	1.008	0.203
	Band38/50%RB#0	3	Left Tilted	38150	2610	22.64	-0.13	23.0	0.103	1.086	1.008	0.113
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)						
Spatial Peak						Averaged over 1g						
Uncontrolled Exposure/General Population												

➤ TDD-LTE Band41(20MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band41/1RB#49	1	Right Cheek	40620	2593	23.74	0.09	24.0	0.012	1.062	1.008	0.012
	Band41/1RB#49	1	Right Tilted	40620	2593	23.74	0.02	24.0	0.007	1.062	1.008	0.007
	Band41/1RB#49	1	Left Cheek	40620	2593	23.74	0.00	24.0	0.024	1.062	1.008	0.026
	Band41C/1RB#49	1	Left Cheek	40620+40818	2593+2612.8	23.71	-0.07	24.0	0.017	1.069	1.008	0.018
	Band41/1RB#49	1	Left Tilted	40620	2593	23.74	0.19	24.0	0.007	1.062	1.008	0.008
16	Band41/1RB#49	3	Right Cheek	40620	2593	23.74	0.05	24.0	0.529	1.062	1.008	0.566
	Band41/1RB#49	3	Right Tilted	40620	2593	23.74	0.13	24.0	0.241	1.062	1.008	0.258
	Band41/1RB#49	3	Left Cheek	40620	2593	23.74	0.07	24.0	0.178	1.062	1.008	0.191
	Band41/1RB#49	3	Left Tilted	40620	2593	23.74	0.11	24.0	0.104	1.062	1.008	0.111
	Band41/50%RB#49	1	Right Cheek	40620	2593	22.49	-0.14	22.5	0.008	1.002	1.008	0.008
	Band41/50%RB#49	1	Right Tilted	40620	2593	22.49	0.11	22.5	0.005	1.002	1.008	0.005
	Band41/50%RB#49	1	Left Cheek	40620	2593	22.49	-0.12	22.5	0.018	1.002	1.008	0.018
	Band41/50%RB#49	1	Left Tilted	40620	2593	22.49	-0.09	22.5	0.004	1.002	1.008	0.004
	Band41/50%RB#49	3	Right Cheek	40620	2593	22.49	0.05	22.5	0.411	1.002	1.008	0.415
	Band41/50%RB#49	3	Right Tilted	40620	2593	22.49	-0.08	22.5	0.218	1.002	1.008	0.220
	Band41/50%RB#49	3	Left Cheek	40620	2593	22.49	0.11	22.5	0.154	1.002	1.008	0.156
	Band41/50%RB#49	3	Left Tilted	40620	2593	22.49	-0.14	22.5	0.086	1.002	1.008	0.087
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)						
Spatial Peak						Averaged over 1g						
Uncontrolled Exposure/General Population												

➤ FDD-LTE Band 66(20MHz) QPSK Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band66/1RB#49	1	Right Cheek	132322	1745	23.70	-0.02	24.0	0.048	1.072	0.052
	Band66C/1RB#49	1	Right Cheek	132323+132521	1745.1+1764.9	23.51	0.02	24.0	0.025	1.119	0.028
	Band66/1RB#49	1	Right Tilted	132322	1745	23.70	0.13	24.0	0.018	1.072	0.019
	Band66/1RB#49	1	Left Cheek	132322	1745	23.70	0.03	24.0	0.020	1.072	0.022
	Band66/1RB#49	1	Left Tilted	132322	1745	23.70	0.11	24.0	0.030	1.072	0.032
17	Band66/1RB#49	3	Right Cheek	132322	1745	23.70	0.04	24.0	0.530	1.072	0.568
	Band66/1RB#49	3	Right Tilted	132322	1745	23.70	0.04	24.0	0.158	1.072	0.169
	Band66/1RB#49	3	Left Cheek	132322	1745	23.70	0.00	24.0	0.243	1.072	0.260
	Band66/1RB#49	3	Left Tilted	132322	1745	23.70	0.04	24.0	0.082	1.072	0.088
	Band66/50%RB#0	1	Right Cheek	132322	1745	22.70	0.11	23.0	0.041	1.072	0.044
	Band66/50%RB#0	1	Right Tilted	132322	1745	22.70	0.12	23.0	0.012	1.072	0.013
	Band66/50%RB#0	1	Left Cheek	132322	1745	22.70	0.03	23.0	0.014	1.072	0.015
	Band66/50%RB#0	1	Left Tilted	132322	1745	22.70	-0.07	23.0	0.022	1.072	0.024
	Band66/50%RB#0	3	Right Cheek	132322	1745	22.70	0.07	23.0	0.501	1.072	0.537
	Band66/50%RB#0	3	Right Tilted	132322	1745	22.70	-0.03	23.0	0.148	1.072	0.159
	Band66/50%RB#0	3	Left Cheek	132322	1745	22.70	-0.15	23.0	0.231	1.072	0.248
	Band66/50%RB#0	3	Left Tilted	132322	1745	22.70	-0.12	23.0	0.074	1.072	0.079
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ WLAN 2.4 GHz Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b	13	Right Cheek	6	2437	18.16	-0.15	18.5	0.071	1.081	1.000	0.076
	2.4GHz/802.11b	13	Right Tilted	6	2437	18.16	0.02	18.5	0.066	1.081	1.000	0.072
	2.4GHz/802.11b	13	Left Cheek	6	2437	18.16	-0.05	18.5	0.286	1.081	1.000	0.309
	2.4GHz/802.11b	13	Left Tilted	6	2437	18.16	-0.09	18.5	0.157	1.081	1.000	0.170
	2.4GHz/802.11b	14	Right Cheek	11	2462	18.07	-0.08	18.5	0.166	1.104	1.000	0.183
	2.4GHz/802.11b	14	Right Tilted	11	2462	18.07	0.03	18.5	0.157	1.104	1.000	0.173
	2.4GHz/802.11b	14	Left Cheek	11	2462	18.07	0.17	18.5	0.218	1.104	1.000	0.241
18	2.4GHz/802.11b	14	Left Tilted	11	2462	18.07	0.17	18.5	0.347	1.104	1.000	0.383
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.2 GHz Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	14	Right Cheek	48	5240	16.77	0.05	17.0	0.104	1.054	1.000	0.110
	5.2GHz/802.11a	14	Right Tilted	48	5240	16.77	-0.06	17.0	0.153	1.054	1.000	0.161
	5.2GHz/802.11a	14	Left Cheek	48	5240	16.77	0.15	17.0	0.136	1.054	1.000	0.143
19	5.2GHz/802.11a	14	Left Tilted	48	5240	16.77	-0.09	17.0	0.275	1.054	1.000	0.290
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.3 GHz Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.3GHz/802.11a	14	Right Cheek	64	5320	15.85	0.06	16.0	0.176	1.035	1.000	0.182
	5.3GHz/802.11a	14	Right Tilted	64	5320	15.85	-0.04	16.0	0.193	1.035	1.000	0.200
	5.3GHz/802.11a	14	Left Cheek	64	5320	15.85	0.03	16.0	0.143	1.035	1.000	0.148
20	5.3GHz/802.11a	14	Left Tilted	64	5320	15.85	0.09	16.0	0.354	1.035	1.000	0.366
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.6 GHz Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.6GHz/802.11a	14	Right Cheek	100	5500	16.75	0.01	17.0	0.173	1.059	1.000	0.183
	5.6GHz/802.11a	14	Right Tilted	100	5500	16.75	0.04	17.0	0.198	1.059	1.000	0.210
	5.6GHz/802.11a	14	Left Cheek	100	5500	16.75	0.01	17.0	0.131	1.059	1.000	0.139
21	5.6GHz/802.11a	14	Left Tilted	100	5500	16.75	0.13	17.0	0.331	1.059	1.000	0.351
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.8 GHz Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	14	Right Tilted	157	5785	17.40	0.08	17.5	0.237	1.023	1.000	0.242
	5.8GHz/802.11a	14	Left Cheek	157	5785	17.40	0.08	17.5	0.131	1.023	1.000	0.134
22	5.8GHz/802.11a	14	Left Tilted	157	5785	17.40	0.02	17.5	0.333	1.023	1.000	0.341
	5.8GHz/802.11a	14	Right Tilted	157	5785	17.40	0.08	17.5	0.237	1.023	1.000	0.242
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ Bluetooth Head SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	14	Right Cheek	39	2441	14.71	0.18	15.0	0.026	1.069	1.000	0.028
	BT/GFSK	14	Right Tilted	39	2441	14.71	0.07	15.0	0.027	1.069	1.000	0.029
23	BT/GFSK	14	Left Cheek	39	2441	14.71	0.07	15.0	0.074	1.069	1.000	0.079
	BT/GFSK	14	Left Tilted	39	2441	14.71	0.00	15.0	0.039	1.069	1.000	0.042
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

Note:

- Per KDB 447498 D01v06, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
- Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
- Per KDB 248227 D01v02r02, for 802.11b DSSS, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in that exposure configuration.
- Per KDB 248227 D01v02r02, OFDM SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. Cuz the maximum output power specified for OFDM and DSSS are 39.81mW(16.0dBm) and 63.1mW(18.0dBm), the scaled SAR would be $0.444 \times (22.39/35.48) = 0.280$ W/Kg < 1.2 W/kg, therefore, SAR is not required for OFDM.
- According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure

- configuration, wireless mode and frequency band combination
7. Highlight part of test data means repeated test.
 8. *: Due the antenna location and antenna performance results the SAR value lower than the lowest system limit, then we show "<0.001* W/Kg" in the report.

15.2 Standalone Body SAR

➤ GSM Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GPRS850/2 slots	0	Front	190	836.6	32.12	0.09	32.5	0.052	1.091	0.057
24	GPRS850/2 slots	0	Back	190	836.6	32.12	0.12	32.5	0.332	1.091	0.362
	GPRS850/2 slots	2	Front	190	836.6	32.12	-0.19	32.5	0.177	1.091	0.193
	GPRS850/2 slots	2	Back	190	836.6	32.12	-0.07	32.5	0.301	1.091	0.328
	GPRS1900/4 slots	1	Front	661	1880	25.77	-0.02	26.0	0.075	1.054	0.079
	GPRS1900/4 slots	1	Back	661	1880	25.77	0.09	26.0	0.101	1.054	0.106
	GPRS1900/4 slots	3	Front	661	1880	25.77	-0.12	26.0	0.288	1.054	0.304
25	GPRS1900/4 slots	3	Back	661	1880	25.77	0.07	26.0	0.560	1.054	0.590
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ WCDMA Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	1	Front	9538	1907.6	22.93	-0.16	23.0	0.046	1.016	0.046
26	Band II/RMC	1	Back	9538	1907.6	22.93	-0.02	23.0	0.179	1.016	0.182
	Band II/RMC	3	Front	9538	1907.6	22.93	-0.01	23.0	0.077	1.016	0.078
	Band II/RMC	3	Back	9538	1907.6	22.93	0.09	23.0	0.106	1.016	0.108
	Band IV/RMC	1	Front	1413	1732.6	23.03	0.03	23.5	0.141	1.114	0.157
27	Band IV/RMC	1	Back	1413	1732.6	23.03	-0.03	23.5	0.573	1.114	0.638
	Band IV/RMC	3	Front	1413	1732.6	23.03	-0.01	23.5	0.056	1.114	0.062
	Band IV/RMC	3	Back	1413	1732.6	23.03	0.06	23.5	0.072	1.114	0.080
	Band V/RMC	0	Front	4183	836.6	23.55	0.01	24.0	0.073	1.109	0.081
	Band V/RMC	0	Back	4183	836.6	23.55	0.04	24.0	0.245	1.109	0.272
	Band V/RMC	2	Front	4183	836.6	23.55	0.06	24.0	0.210	1.109	0.233
28	Band V/RMC	2	Back	4183	836.6	23.55	-0.14	24.0	0.321	1.109	0.356
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 2(20MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/1RB#0	1	Front	18900	1880	23.67	0.04	24.0	0.145	1.079	0.156
	Band2/1RB#0	1	Back	18900	1880	23.67	-0.06	24.0	0.206	1.079	0.222
	Band2C/1RB#0	1	Back	18900+18702	1880+1860.2	23.50	-0.18	24.0	0.174	1.122	0.195
	Band2/1RB#0	3	Front	18900	1880	23.67	-0.20	24.0	0.114	1.079	0.123
29	Band2/1RB#0	3	Back	18900	1880	23.67	0.09	24.0	0.211	1.079	0.228
	Band2/50%RB#49	1	Front	18900	1880	22.58	0.20	23.0	0.069	1.102	0.076
	Band2/50%RB#49	1	Back	18900	1880	22.58	0.02	23.0	0.185	1.102	0.204
	Band2/50%RB#49	3	Front	18900	1880	22.58	-0.10	23.0	0.100	1.102	0.110
	Band2/50%RB#49	3	Back	18900	1880	22.58	-0.02	23.0	0.147	1.102	0.162
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 4(20MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band4/1RB#49	1	Front	20175	1732.5	23.68	-0.02	24.0	0.148	1.076	0.159
30	Band4/1RB#49	1	Back	20175	1732.5	23.68	-0.01	24.0	0.583	1.076	0.627
	Band4/1RB#49	3	Front	20175	1732.5	23.68	0.01	24.0	0.066	1.076	0.071
	Band4/1RB#49	3	Back	20175	1732.5	23.68	-0.19	24.0	0.109	1.076	0.117
	Band4/50%RB#49	1	Front	20300	1745	22.53	-0.03	23.0	0.121	1.114	0.135
	Band4/50%RB#49	1	Back	20300	1745	22.53	0.18	23.0	0.486	1.114	0.541
	Band4/50%RB#49	3	Front	20300	1745	22.53	-0.17	23.0	0.055	1.114	0.061
	Band4/50%RB#49	3	Back	20300	1745	22.53	-0.14	23.0	0.074	1.114	0.082
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 5(10MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band5/1RB#24	0	Front	20525	836.5	24.43	0.13	24.5	0.101	1.016	0.103
	Band5/1RB#24	0	Back	20525	836.5	24.43	0.09	24.5	0.235	1.016	0.239
	Band5B/1RB#24	0	Back	20476+20575	831.6+841.5	23.95	0.01	24.5	0.186	1.135	0.211
	Band5/1RB#24	2	Front	20525	836.5	24.43	-0.01	24.5	0.240	1.016	0.244
31	Band5/1RB#24	2	Back	20525	836.5	24.43	-0.02	24.5	0.375	1.016	0.381
	Band5/50%RB#12	0	Front	20600	844	23.43	-0.18	23.5	0.081	1.016	0.082
	Band5/50%RB#12	0	Back	20600	844	23.43	-0.17	23.5	0.224	1.016	0.228
	Band5/50%RB#12	2	Front	20600	844	23.43	0.04	23.5	0.224	1.016	0.228
	Band5/50%RB#12	2	Back	20600	844	23.43	-0.12	23.5	0.312	1.016	0.317
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 7(20MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band7/1RB#99	1	Front	21350	2560	23.02	-0.02	23.5	0.095	1.117	0.106
32	Band7/1RB#99	1	Back	21350	2560	23.02	0.15	23.5	0.648	1.117	0.724
	Band7C/1RB#99	1	Back	21350+21152	2560+2540.2	22.71	0.08	23.5	0.581	1.199	0.697
	Band7/1RB#99	3	Front	21350	2560	23.02	0.01	23.5	0.110	1.117	0.123
	Band7/1RB#99	3	Back	21350	2560	23.02	0.06	23.5	0.241	1.117	0.269
	Band7/50%RB#0	1	Front	21350	2560	21.80	-0.14	22.0	0.067	1.047	0.070
	Band7/50%RB#0	1	Back	21350	2560	21.80	-0.08	22.0	0.558	1.047	0.584
	Band7/50%RB#0	3	Front	21350	2560	21.80	0.14	22.0	0.095	1.047	0.099
	Band7/50%RB#0	3	Back	21350	2560	21.80	0.14	22.0	0.171	1.047	0.179
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 12(10MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band12/1RB#24	0	Front	23130	711	24.36	-0.01	24.5	0.115	1.033	0.119
	Band12/1RB#24	0	Back	23130	711	24.36	0.03	24.5	0.241	1.033	0.249
	Band12/1RB#24	2	Front	23130	711	24.36	0.09	24.5	0.187	1.033	0.193
33	Band12/1RB#24	2	Back	23130	711	24.36	-0.06	24.5	0.324	1.033	0.335
	Band12/50%RB#12	0	Front	23060	704	23.31	-0.17	23.5	0.102	1.045	0.107
	Band12/50%RB#12	0	Back	23060	704	23.31	0.11	23.5	0.229	1.045	0.239
	Band12/50%RB#12	2	Front	23060	704	23.31	-0.02	23.5	0.162	1.045	0.169
	Band12/50%RB#12	2	Back	23060	704	23.31	0.04	23.5	0.298	1.045	0.311
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 13(10MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band13/1RB#49	0	Front	23230	782	23.65	-0.02	24.0	0.085	1.084	0.092
	Band13/1RB#49	0	Back	23230	782	23.65	0.07	24.0	0.087	1.084	0.094
	Band13/1RB#49	2	Front	23230	782	23.65	0.14	24.0	0.176	1.084	0.191
34	Band13/1RB#49	2	Back	23230	782	23.65	-0.01	24.0	0.319	1.084	0.346
	Band13/50%RB#24	0	Front	23230	782	22.44	-0.13	22.5	0.061	1.014	0.062
	Band13/50%RB#24	0	Back	23230	782	22.44	-0.19	22.5	0.062	1.014	0.063
	Band13/50%RB#24	2	Front	23230	782	22.44	0.02	22.5	0.156	1.014	0.158
	Band13/50%RB#24	2	Back	23230	782	22.44	-0.04	22.5	0.227	1.014	0.230
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 17(10MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band17/1RB#24	0	Front	23800	711	24.32	0.10	24.5	0.112	1.042	0.117
	Band17/1RB#24	0	Back	23800	711	24.32	0.01	24.5	0.231	1.042	0.241
	Band17/1RB#24	2	Front	23800	711	24.32	0.02	24.5	0.183	1.042	0.191
35	Band17/1RB#24	2	Back	23800	711	24.32	-0.02	24.5	0.322	1.042	0.336
	Band17/50%RB#24	0	Front	23800	711	23.20	-0.03	23.5	0.101	1.072	0.108
	Band17/50%RB#24	0	Back	23800	711	23.20	0.15	23.5	0.228	1.072	0.244
	Band17/50%RB#24	2	Front	23800	711	23.20	-0.19	23.5	0.158	1.072	0.169
	Band17/50%RB#24	2	Back	23800	711	23.20	0.01	23.5	0.286	1.072	0.307
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 25(12MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band25/1RB#49	1	Front	26590	1905	23.85	0.01	24.0	0.066	1.035	0.069
36	Band25/1RB#49	1	Back	26590	1905	23.85	0.05	24.0	0.212	1.035	0.219
	Band25/1RB#49	3	Front	26590	1905	23.85	0.01	24.0	0.116	1.035	0.120
	Band25/1RB#49	3	Back	26590	1905	23.85	0.02	24.0	0.149	1.035	0.154
	Band25/50%RB#49	1	Front	26140	1860	22.76	0.01	23.0	0.058	1.057	0.061
	Band25/50%RB#49	1	Back	26140	1860	22.76	-0.01	23.0	0.197	1.057	0.208
	Band25/50%RB#49	3	Front	26140	1860	22.76	0.15	23.0	0.101	1.057	0.107
	Band25/50%RB#49	3	Back	26140	1860	22.76	-0.08	23.0	0.115	1.057	0.122
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					

Spatial Peak Uncontrolled Exposure/General Population	Averaged over 1g
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➤ FDD-LTE Band 26(15MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band26/1RB#74	0	Front	26865	831.5	24.90	-0.02	25.0	0.104	1.023	0.106
	Band26/1RB#74	0	Back	26865	831.5	24.90	0.03	25.0	0.253	1.023	0.259
	Band26/1RB#74	2	Front	26865	831.5	24.90	0.09	25.0	0.244	1.023	0.250
37	Band26/1RB#74	2	Back	26865	831.5	24.90	-0.11	25.0	0.387	1.023	0.396
	Band26/50%RB#16	0	Front	26865	831.5	23.15	-0.15	23.5	0.084	1.084	0.091
	Band26/50%RB#16	0	Back	26865	831.5	23.15	-0.12	23.5	0.226	1.084	0.245
	Band26/50%RB#16	2	Front	26865	831.5	23.15	0.01	23.5	0.232	1.084	0.251
	Band26/50%RB#16	2	Back	26865	831.5	23.15	-0.18	23.5	0.318	1.084	0.345
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ TDD-LTE Band 38(20MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band38/1RB#49	1	Front	38150	2610	23.80	0.01	24.0	0.081	1.047	1.008	0.085
38	Band38/1RB#49	1	Back	38150	2610	23.80	0.05	24.0	0.313	1.047	1.008	0.330
	Band38C/1RB#49	1	Back	38150+37952	2610+2590.2	23.25	0.12	24.0	0.249	1.189	1.008	0.298
	Band38/1RB#49	3	Front	38150	2610	23.80	0.00	24.0	0.130	1.047	1.008	0.137
	Band38/1RB#49	3	Back	38150	2610	23.80	0.19	24.0	0.238	1.047	1.008	0.251
	Band38/50%RB#0	1	Front	38150	2610	22.64	-0.11	23.0	0.063	1.086	1.008	0.069
	Band38/50%RB#0	1	Back	38150	2610	22.64	-0.15	23.0	0.287	1.086	1.008	0.314
	Band38/50%RB#0	3	Front	38150	2610	22.64	0.20	23.0	0.102	1.086	1.008	0.112
	Band38/50%RB#0	3	Back	38150	2610	22.64	0.00	23.0	0.175	1.086	1.008	0.192
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)						
Spatial Peak						Averaged over 1g						
Uncontrolled Exposure/General Population												

➤ TDD-LTE Band 41(20MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band41/1RB#49	1	Front	40620	2593	23.74	-0.04	24.0	0.072	1.062	1.008	0.077
39	Band41/1RB#49	1	Back	40620	2593	23.74	0.06	24.0	0.309	1.062	1.008	0.331
	Band41C/1RB#49	1	Back	40620+40818	2593+2612.8	23.71	-0.01	24.0	0.257	1.069	1.008	0.277
	Band41/1RB#49	3	Front	40620	2593	23.74	0.09	24.0	0.105	1.062	1.008	0.112
	Band41/1RB#49	3	Back	40620	2593	23.74	0.05	24.0	0.188	1.062	1.008	0.201
	Band41/50%RB#49	1	Front	40620	2593	22.49	-0.14	22.5	0.052	1.002	1.008	0.053
	Band41/50%RB#49	1	Back	40620	2593	22.49	-0.08	22.5	0.267	1.002	1.008	0.270
	Band41/50%RB#49	3	Front	40620	2593	22.49	-0.20	22.5	0.084	1.002	1.008	0.085
	Band41/50%RB#49	3	Back	40620	2593	22.49	0.02	22.5	0.143	1.002	1.008	0.144
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)						
Spatial Peak						Averaged over 1g						
Uncontrolled Exposure/General Population												

➤ FDD-LTE Band 66(20MHz) QPSK Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band66/1RB#49	1	Front	132322	1745	23.70	0.01	24.0	0.150	1.072	0.161
40	Band66/1RB#49	1	Back	132322	1745	23.70	0.03	24.0	0.572	1.072	0.613
	Band66C/1RB#49	1	Back	132323+132521	1745.1+1764.9	23.51	-0.06	24.0	0.512	1.119	0.573
	Band66/1RB#49	3	Front	132322	1745	23.70	0.13	24.0	0.073	1.072	0.079
	Band66/1RB#49	3	Back	132322	1745	23.70	0.04	24.0	0.118	1.072	0.126
	Band66/50%RB#0	1	Front	132322	1745	22.70	0.10	23.0	0.123	1.072	0.132
	Band66/50%RB#0	1	Back	132322	1745	22.70	-0.15	23.0	0.489	1.072	0.524
	Band66/50%RB#0	3	Front	132322	1745	22.70	-0.04	23.0	0.058	1.072	0.062
	Band66/50%RB#0	3	Back	132322	1745	22.70	0.14	23.0	0.079	1.072	0.085
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ WLAN 2.4GHz Body SAR

Plot	Band/Mode	ANT	Test Position	CH.	Freq.	Ave.	Power	Tune-Up	Meas.	Scaling	D.C	Reported
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No.					(MHz)	Power (dBm)	Drift (dB)	Limit (dBm)	SAR _{1g} (W/kg)	Factor	Factor	SAR _{1g} (W/kg)
	2.4GHz/802.11b	13	Front	6	2437	18.16	-0.19	18.5	0.066	1.081	1.000	0.071
	2.4GHz/802.11b	13	Back	6	2437	18.16	0.03	18.5	0.141	1.081	1.000	0.152
	2.4GHz/802.11b	14	Front	11	2462	18.07	-0.08	18.5	0.039	1.104	1.000	0.043
41	2.4GHz/802.11b	14	Back	11	2462	18.07	0.03	18.5	0.155	1.104	1.000	0.171
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.2GHz Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	14	Front	48	5240	16.77	0.00	17.0	0.031	1.054	1.000	0.032
42	5.2GHz/802.11a	14	Back	48	5240	16.77	0.00	17.0	0.044	1.054	1.000	0.047
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.3GHz Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.3GHz/802.11a	14	Front	64	5320	15.85	0.00	16.0	0.037	1.035	1.000	0.038
43	5.3GHz/802.11a	14	Back	64	5320	15.85	0.00	16.0	0.051	1.035	1.000	0.052
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.6GHz Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.6GHz/802.11a	14	Front	100	5500	16.75	0.00	17.0	0.051	1.059	1.000	0.053
44	5.6GHz/802.11a	14	Back	100	5500	16.75	0.00	17.0	0.093	1.059	1.000	0.099
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.8GHz Wi-Fi Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	14	Front	157	5785	17.40	0.00	17.5	0.043	1.023	1.000	0.044
45	5.8GHz/802.11a	14	Back	157	5785	17.40	0.00	17.5	0.087	1.023	1.000	0.089
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								1.6 W/kg (mW/g) Averaged over 1g				

➤ Bluetooth Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	14	Front	39	2441	14.71	0.17	15.0	0.019	1.069	1.000	0.021
46	BT/GFSK	14	Back	39	2441	14.71	0.09	15.0	0.033	1.069	1.000	0.035
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								1.6 W/kg (mW/g) Averaged over 1g				

Note:

1. Body-worn SAR testing was performed at 10mm separation, and this distance is determined by the handset manufacturer that there will be body-worn accessories that users may acquire at the time of equipment certification, to enable users to purchase aftermarket body-worn accessories with the required minimum separation.
2. Per KDB 941225 D06v02r01, when the same wireless modes and device transmission configurations are required for testing body-worn accessories and hotspot mode, it is not necessary to test body-worn accessory SAR for the same device orientation if the test separation distance for hotspot mode is more conservative than that used for body-worn accessories.
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call is selected to be tested.
4. Per KDB 648474 D04v01r03, when the *Reported* SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. The WLAN SAR perform the front and back position, due considered the simultaneous SAR for body-worn.
6. Per KDB 447498 D01v06, for each exposure position, if the highest output channel Reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
7. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
8. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
9. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
10. Highlight part of test data means repeated test.
11. *: Due the antenna location and antenna performance results the SAR value lower than the lowest system limit, then we show "<0.001* W/Kg" in the report.

15.3 Body SAR in Hotspot Mode

➤ GSM Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GPRS850/2 slots	0	Front	190	836.6	32.12	0.09	32.5	0.052	1.091	0.057
	GPRS850/2 slots	0	Back	190	836.6	32.12	0.12	32.5	0.332	1.091	0.362
	GPRS850/2 slots	0	Right	190	836.6	32.12	-0.17	32.5	0.043	1.091	0.046
	GPRS850/2 slots	0	Bottom	190	836.6	32.12	-0.06	32.5	0.038	1.091	0.041
	GPRS850/2 slots	2	Front	190	836.6	32.12	-0.19	32.5	0.177	1.091	0.193
	GPRS850/2 slots	2	Back	190	836.6	32.12	-0.07	32.5	0.301	1.091	0.328
47	GPRS850/2 slots	2	Left	190	836.6	32.12	-0.03	32.5	0.494	1.091	0.539
	GPRS850/2 slots	2	Top	190	836.6	32.12	-0.13	32.5	0.010	1.091	0.010
	GPRS1900/4 slots	1	Front	661	1880	25.77	-0.02	26.0	0.075	1.054	0.079
	GPRS1900/4 slots	1	Back	661	1880	25.77	0.09	26.0	0.101	1.054	0.106
	GPRS1900/4 slots	1	Left	661	1880	25.77	0.06	26.0	0.036	1.054	0.038
	GPRS1900/4 slots	1	Bottom	661	1880	25.77	-0.09	26.0	0.120	1.054	0.126
	GPRS1900/4 slots	3	Front	661	1880	25.77	-0.12	26.0	0.288	1.054	0.304
	GPRS1900/4 slots	3	Back	661	1880	25.77	0.07	26.0	0.560	1.054	0.590
48	GPRS1900/4 slots	3	Left	661	1880	25.77	0.01	26.0	0.621	1.054	0.655
	GPRS1900/4 slots	3	Top	661	1880	25.77	-0.14	26.0	0.131	1.054	0.138
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ WCDMA Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	1	Front	9538	1907.6	22.93	-0.16	23.0	0.046	1.016	0.046
	Band II/RMC	1	Back	9538	1907.6	22.93	-0.02	23.0	0.179	1.016	0.182
	Band II/RMC	1	Left	9538	1907.6	22.93	-0.14	23.0	0.021	1.016	0.021
49	Band II/RMC	1	Bottom	9538	1907.6	22.93	0.09	23.0	0.312	1.016	0.317
	Band II/RMC	3	Front	9538	1907.6	22.93	-0.01	23.0	0.077	1.016	0.078
	Band II/RMC	3	Back	9538	1907.6	22.93	0.09	23.0	0.106	1.016	0.108
	Band II/RMC	3	Left	9538	1907.6	22.93	-0.11	23.0	0.197	1.016	0.200
	Band II/RMC	3	Top	9538	1907.6	22.93	-0.11	23.0	0.033	1.016	0.033
	Band IV/RMC	1	Front	1413	1732.6	23.03	0.03	23.5	0.141	1.114	0.157
	Band IV/RMC	1	Back	1413	1732.6	23.03	-0.03	23.5	0.573	1.114	0.638
	Band IV/RMC	1	Left	1413	1732.6	23.03	0.02	23.5	0.044	1.114	0.049
50	Band IV/RMC	1	Bottom	1413	1732.6	23.03	-0.14	23.5	0.931	1.114	1.037
	Band IV/RMC	1	Bottom	1413	1732.6	23.03	0.02	23.5	0.922	1.114	1.027
	Band IV/RMC	1	Bottom	1312	1712.6	22.48	-0.13	23.5	0.924	1.265	1.169
	Band IV/RMC	1	Bottom	1513	1752.6	22.94	-0.13	23.5	0.741	1.138	0.843
	Band IV/RMC	3	Front	1413	1732.6	23.03	-0.01	23.5	0.056	1.114	0.062
	Band IV/RMC	3	Back	1413	1732.6	23.03	0.06	23.5	0.072	1.114	0.080
	Band IV/RMC	3	Left	1413	1732.6	23.03	-0.02	23.5	0.113	1.114	0.126
	Band IV/RMC	3	Top	1413	1732.6	23.03	-0.03	23.5	0.036	1.114	0.040
	Band V/RMC	0	Front	4183	836.6	23.55	0.01	24.0	0.073	1.109	0.081
	Band V/RMC	0	Back	4183	836.6	23.55	0.04	24.0	0.245	1.109	0.272
	Band V/RMC	0	Right	4183	836.6	23.55	-0.09	24.0	0.078	1.109	0.087
	Band V/RMC	0	Bottom	4183	836.6	23.55	-0.06	24.0	0.048	1.109	0.053
	Band V/RMC	2	Front	4183	836.6	23.55	0.06	24.0	0.210	1.109	0.233
	Band V/RMC	2	Back	4183	836.6	23.55	-0.14	24.0	0.321	1.109	0.356
51	Band V/RMC	2	Left	4183	836.6	23.55	-0.05	24.0	0.489	1.109	0.542
	Band V/RMC	2	Top	4183	836.6	23.55	0.05	24.0	0.011	1.109	0.012
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 2(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/1RB#0	1	Front	18900	1880	23.67	0.04	24.0	0.145	1.079	0.156
	Band2/1RB#0	1	Back	18900	1880	23.67	-0.06	24.0	0.206	1.079	0.222
	Band2C/1RB#0	1	Back	18900+18702	1880+1860.2	23.50	-0.18	24.0	0.174	1.122	0.195
	Band2/1RB#0	1	Left	18900	1880	23.67	0.08	24.0	0.074	1.079	0.080
52	Band2/1RB#0	1	Bottom	18900	1880	23.67	0.10	24.0	0.309	1.079	0.333
	Band2C/1RB#0	1	Bottom	18900+18702	1880+1860.2	23.50	0.02	24.0	0.255	1.122	0.286
	Band2/1RB#0	3	Front	18900	1880	23.67	-0.20	24.0	0.114	1.079	0.123
	Band2/1RB#0	3	Back	18900	1880	23.67	0.09	24.0	0.211	1.079	0.228
	Band2/1RB#0	3	Left	18900	1880	23.67	-0.17	24.0	0.220	1.079	0.237
	Band2/1RB#0	3	Top	18900	1880	23.67	-0.04	24.0	0.050	1.079	0.054
	Band2/50%RB#49	1	Front	18900	1880	22.58	0.20	23.0	0.069	1.102	0.076
	Band2/50%RB#49	1	Back	18900	1880	22.58	0.02	23.0	0.185	1.102	0.204
	Band2/50%RB#49	1	Left	18900	1880	22.58	0.16	23.0	0.029	1.102	0.032
	Band2/50%RB#49	1	Bottom	18900	1880	22.58	-0.11	23.0	0.276	1.102	0.304
	Band2/50%RB#49	3	Front	18900	1880	22.58	-0.10	23.0	0.100	1.102	0.110
	Band2/50%RB#49	3	Back	18900	1880	22.58	-0.02	23.0	0.147	1.102	0.162
	Band2/50%RB#49	3	Left	18900	1880	22.58	0.09	23.0	0.201	1.102	0.222
	Band2/50%RB#49	3	Top	18900	1880	22.58	0.13	23.0	0.040	1.102	0.044
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 4(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band4/1RB#49	1	Front	20175	1732.5	23.68	-0.02	24.0	0.148	1.076	0.159
	Band4/1RB#49	1	Back	20175	1732.5	23.68	-0.01	24.0	0.583	1.076	0.627
	Band4/1RB#49	1	Left	20175	1732.5	23.68	0.03	24.0	0.041	1.076	0.044
53	Band4/1RB#49	1	Bottom	20175	1732.5	23.68	0.09	24.0	0.708	1.076	0.762
	Band4/1RB#49	3	Front	20175	1732.5	23.68	0.01	24.0	0.066	1.076	0.071
	Band4/1RB#49	3	Back	20175	1732.5	23.68	-0.19	24.0	0.109	1.076	0.117
	Band4/1RB#49	3	Left	20175	1732.5	23.68	-0.07	24.0	0.100	1.076	0.108
	Band4/1RB#49	3	Top	20175	1732.5	23.68	-0.13	24.0	0.046	1.076	0.049
	Band4/50%RB#49	1	Front	20300	1745	22.53	-0.03	23.0	0.121	1.114	0.135
	Band4/50%RB#49	1	Back	20300	1745	22.53	0.18	23.0	0.486	1.114	0.541
	Band4/50%RB#49	1	Left	20300	1745	22.53	0.11	23.0	0.026	1.114	0.029
	Band4/50%RB#49	1	Bottom	20300	1745	22.53	-0.01	23.0	0.516	1.114	0.575
	Band4/50%RB#49	3	Front	20300	1745	22.53	-0.17	23.0	0.055	1.114	0.061
	Band4/50%RB#49	3	Back	20300	1745	22.53	-0.14	23.0	0.074	1.114	0.082
	Band4/50%RB#49	3	Left	20300	1745	22.53	0.15	23.0	0.084	1.114	0.094
	Band4/50%RB#49	3	Top	20300	1745	22.53	-0.05	23.0	0.029	1.114	0.032
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 5(10MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band5/1RB#24	0	Front	20525	836.5	24.43	0.13	24.5	0.101	1.016	0.103
	Band5/1RB#24	0	Back	20525	836.5	24.43	0.09	24.5	0.235	1.016	0.239
	Band5B/1RB#24	0	Back	20476+20575	831.6+841.5	23.95	0.01	24.5	0.186	1.135	0.211
	Band5/1RB#24	0	Right	20525	836.5	24.43	-0.14	24.5	0.071	1.016	0.072
	Band5/1RB#24	0	Bottom	20525	836.5	24.43	-0.02	24.5	0.136	1.016	0.138
	Band5/1RB#24	2	Front	20525	836.5	24.43	-0.01	24.5	0.240	1.016	0.244
	Band5/1RB#24	2	Back	20525	836.5	24.43	-0.02	24.5	0.375	1.016	0.381
54	Band5/1RB#24	2	Left	20525	836.5	24.43	-0.05	24.5	0.620	1.016	0.630
	Band5/1RB#24	2	Top	20525	836.5	24.43	-0.01	24.5	0.015	1.016	0.015
	Band5/50%RB#12	0	Front	20600	844	23.43	-0.18	23.5	0.081	1.016	0.082
	Band5/50%RB#12	0	Back	20600	844	23.43	-0.17	23.5	0.224	1.016	0.228
	Band5/50%RB#12	0	Right	20600	844	23.43	-0.13	23.5	0.049	1.016	0.050
	Band5/50%RB#12	0	Bottom	20600	844	23.43	-0.01	23.5	0.101	1.016	0.103
	Band5/50%RB#12	2	Front	20600	844	23.43	0.04	23.5	0.224	1.016	0.228
	Band5/50%RB#12	2	Back	20600	844	23.43	-0.12	23.5	0.312	1.016	0.317
	Band5/50%RB#12	2	Left	20600	844	23.43	-0.19	23.5	0.549	1.016	0.558
	Band5/50%RB#12	2	Top	20600	844	23.43	0.09	23.5	0.009	1.016	0.009
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 7(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band7/1RB#99	1	Front	21350	2560	23.02	-0.02	23.5	0.095	1.117	0.106
32	Band7/1RB#99	1	Back	21350	2560	23.02	0.15	23.5	0.648	1.117	0.724
	Band7C/1RB#99	1	Back	21350+21152	2560+2540.2	22.71	0.08	23.5	0.581	1.199	0.697
	Band7/1RB#99	1	Left	21350	2560	23.02	-0.13	23.5	0.033	1.117	0.037
	Band7/1RB#99	1	Bottom	21350	2560	23.02	-0.01	23.5	0.615	1.117	0.687
	Band7/1RB#99	3	Front	21350	2560	23.02	0.01	23.5	0.110	1.117	0.123
	Band7/1RB#99	3	Back	21350	2560	23.02	0.06	23.5	0.241	1.117	0.269
	Band7/1RB#99	3	Left	21350	2560	23.02	-0.15	23.5	0.133	1.117	0.149
	Band7/1RB#99	3	Top	21350	2560	23.02	0.16	23.5	0.044	1.117	0.049
	Band7/50%RB#0	1	Front	21350	2560	21.80	-0.14	22.0	0.067	1.047	0.070
	Band7/50%RB#0	1	Back	21350	2560	21.80	-0.08	22.0	0.558	1.047	0.584
	Band7/50%RB#0	1	Left	21350	2560	21.80	-0.10	22.0	0.024	1.047	0.025
	Band7/50%RB#0	1	Bottom	21350	2560	21.80	0.05	22.0	0.517	1.047	0.541
	Band7/50%RB#0	3	Front	21350	2560	21.80	0.14	22.0	0.095	1.047	0.099
	Band7/50%RB#0	3	Back	21350	2560	21.80	0.14	22.0	0.171	1.047	0.179
	Band7/50%RB#0	3	Left	21350	2560	21.80	-0.14	22.0	0.103	1.047	0.108
	Band7/50%RB#0	3	Top	21350	2560	21.80	-0.07	22.0	0.029	1.047	0.030
	Band7/1RB#99	1	Front	21350	2560	23.02	-0.02	23.5	0.095	1.117	0.106
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 12(10MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band12/1RB#24	0	Front	23130	711	24.36	-0.01	24.5	0.115	1.033	0.119
	Band12/1RB#24	0	Back	23130	711	24.36	0.03	24.5	0.241	1.033	0.249
	Band12/1RB#24	0	Right	23130	711	24.36	-0.07	24.5	0.099	1.033	0.102
	Band12/1RB#24	0	Bottom	23130	711	24.36	-0.04	24.5	0.040	1.033	0.041
	Band12/1RB#24	2	Front	23130	711	24.36	0.09	24.5	0.187	1.033	0.193
	Band12/1RB#24	2	Back	23130	711	24.36	-0.06	24.5	0.324	1.033	0.335
55	Band12/1RB#24	2	Left	23130	711	24.36	-0.03	24.5	0.463	1.033	0.478
	Band12/1RB#24	2	Top	23130	711	24.36	0.11	24.5	0.013	1.033	0.014
	Band12/50%RB#12	0	Front	23060	704	23.31	-0.17	23.5	0.102	1.045	0.107
	Band12/50%RB#12	0	Back	23060	704	23.31	0.11	23.5	0.229	1.045	0.239
	Band12/50%RB#12	0	Right	23060	704	23.31	0.16	23.5	0.089	1.045	0.093
	Band12/50%RB#12	0	Bottom	23060	704	23.31	-0.16	23.5	0.034	1.045	0.036
	Band12/50%RB#12	2	Front	23060	704	23.31	-0.02	23.5	0.162	1.045	0.169
	Band12/50%RB#12	2	Back	23060	704	23.31	0.04	23.5	0.298	1.045	0.311
	Band12/50%RB#12	2	Left	23060	704	23.31	-0.20	23.5	0.402	1.045	0.420
	Band12/50%RB#12	2	Top	23060	704	23.31	-0.05	23.5	0.010	1.045	0.010
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 13(10MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band13/1RB#49	0	Front	23230	782	23.65	-0.02	24.0	0.085	1.084	0.092
	Band13/1RB#49	0	Back	23230	782	23.65	0.07	24.0	0.087	1.084	0.094
	Band13/1RB#49	0	Right	23230	782	23.65	-0.10	24.0	0.051	1.084	0.055
	Band13/1RB#49	0	Bottom	23230	782	23.65	0.08	24.0	0.031	1.084	0.034
	Band13/1RB#49	2	Front	23230	782	23.65	0.14	24.0	0.176	1.084	0.191
	Band13/1RB#49	2	Back	23230	782	23.65	-0.01	24.0	0.319	1.084	0.346
56	Band13/1RB#49	2	Left	23230	782	23.65	-0.12	24.0	0.688	1.084	0.746
	Band13/1RB#49	2	Top	23230	782	23.65	-0.03	24.0	0.011	1.084	0.012
	Band13/50%RB#24	0	Front	23230	782	22.44	-0.13	22.5	0.061	1.014	0.062
	Band13/50%RB#24	0	Back	23230	782	22.44	-0.19	22.5	0.062	1.014	0.063
	Band13/50%RB#24	0	Left	23230	782	22.44	0.18	22.5	0.029	1.014	0.029
	Band13/50%RB#24	0	Right	23230	782	22.44	-0.09	22.5	0.032	1.014	0.032
	Band13/50%RB#24	0	Bottom	23230	782	22.44	0.17	22.5	0.018	1.014	0.018
	Band13/50%RB#24	2	Front	23230	782	22.44	0.02	22.5	0.156	1.014	0.158
	Band13/50%RB#24	2	Back	23230	782	22.44	-0.04	22.5	0.227	1.014	0.230
	Band13/50%RB#24	2	Left	23230	782	22.44	-0.04	22.5	0.482	1.014	0.489
	Band13/50%RB#24	2	Top	23230	782	22.44	0.15	22.5	0.006	1.014	0.006
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 17(10MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band17/1RB#24	0	Front	23800	711	24.32	0.10	24.5	0.112	1.042	0.117
	Band17/1RB#24	0	Back	23800	711	24.32	0.01	24.5	0.231	1.042	0.241
	Band17/1RB#24	0	Right	23800	711	24.32	0.16	24.5	0.096	1.042	0.100
	Band17/1RB#24	0	Bottom	23800	711	24.32	-0.14	24.5	0.034	1.042	0.035
	Band17/1RB#24	2	Front	23800	711	24.32	0.02	24.5	0.183	1.042	0.191
	Band17/1RB#24	2	Back	23800	711	24.32	-0.02	24.5	0.322	1.042	0.336
57	Band17/1RB#24	2	Left	23800	711	24.32	-0.03	24.5	0.464	1.042	0.483
	Band17/1RB#24	2	Top	23800	711	24.32	0.16	24.5	0.011	1.042	0.011
	Band17/50%RB#24	0	Front	23800	711	23.20	-0.03	23.5	0.101	1.072	0.108
	Band17/50%RB#24	0	Back	23800	711	23.20	0.15	23.5	0.228	1.072	0.244
	Band17/50%RB#24	0	Right	23800	711	23.20	-0.20	23.5	0.087	1.072	0.093
	Band17/50%RB#24	0	Bottom	23800	711	23.20	0.02	23.5	0.030	1.072	0.032
	Band17/50%RB#24	2	Front	23800	711	23.20	-0.19	23.5	0.158	1.072	0.169
	Band17/50%RB#24	2	Back	23800	711	23.20	0.01	23.5	0.286	1.072	0.307
	Band17/50%RB#24	2	Left	23800	711	23.20	-0.08	23.5	0.399	1.072	0.428
	Band17/50%RB#24	2	Top	23800	711	23.20	-0.14	23.5	0.009	1.072	0.010
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 25(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band25/1RB#49	1	Front	26590	1905	23.85	0.01	24.0	0.066	1.035	0.069
	Band25/1RB#49	1	Back	26590	1905	23.85	0.05	24.0	0.212	1.035	0.219
	Band25/1RB#49	1	Left	26590	1905	23.85	-0.20	24.0	0.031	1.035	0.032
58	Band25/1RB#49	1	Bottom	26590	1905	23.85	0.07	24.0	0.312	1.035	0.323
	Band25/1RB#49	3	Front	26590	1905	23.85	0.01	24.0	0.116	1.035	0.120
	Band25/1RB#49	3	Back	26590	1905	23.85	0.02	24.0	0.149	1.035	0.154
	Band25/1RB#49	3	Left	26590	1905	23.85	-0.10	24.0	0.244	1.035	0.253
	Band25/1RB#49	3	Top	26590	1905	23.85	-0.09	24.0	0.051	1.035	0.053
	Band25/50%RB#49	1	Front	26140	1860	22.76	0.01	23.0	0.058	1.057	0.061
	Band25/50%RB#49	1	Back	26140	1860	22.76	-0.01	23.0	0.197	1.057	0.208
	Band25/50%RB#49	1	Left	26140	1860	22.76	0.03	23.0	0.026	1.057	0.027
	Band25/50%RB#49	1	Bottom	26140	1860	22.76	0.20	23.0	0.286	1.057	0.302
	Band25/50%RB#49	3	Front	26140	1860	22.76	0.15	23.0	0.101	1.057	0.107
	Band25/50%RB#49	3	Back	26140	1860	22.76	-0.08	23.0	0.115	1.057	0.122
	Band25/50%RB#49	3	Left	26140	1860	22.76	-0.01	23.0	0.209	1.057	0.221
	Band25/50%RB#49	3	Top	26140	1860	22.76	-0.02	23.0	0.042	1.057	0.044
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ FDD-LTE Band 26(15MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band26/1RB#74	0	Front	26865	831.5	24.90	-0.02	25.0	0.104	1.023	0.106
	Band26/1RB#74	0	Back	26865	831.5	24.90	0.03	25.0	0.253	1.023	0.259
	Band26/1RB#74	0	Right	26865	831.5	24.90	-0.11	25.0	0.075	1.023	0.077
	Band26/1RB#74	0	Bottom	26865	831.5	24.90	-0.12	25.0	0.065	1.023	0.066
	Band26/1RB#74	2	Front	26865	831.5	24.90	0.09	25.0	0.244	1.023	0.250
	Band26/1RB#74	2	Back	26865	831.5	24.90	-0.11	25.0	0.387	1.023	0.396
59	Band26/1RB#74	2	Left	26865	831.5	24.90	-0.04	25.0	0.653	1.023	0.668
	Band26/1RB#74	2	Top	26865	831.5	24.90	0.00	25.0	0.016	1.023	0.016
	Band26/50%RB#16	0	Front	26865	831.5	23.15	-0.15	23.5	0.084	1.084	0.091
	Band26/50%RB#16	0	Back	26865	831.5	23.15	-0.12	23.5	0.226	1.084	0.245
	Band26/50%RB#16	0	Right	26865	831.5	23.15	0.16	23.5	0.051	1.084	0.055
	Band26/50%RB#16	0	Bottom	26865	831.5	23.15	-0.13	23.5	0.048	1.084	0.052
	Band26/50%RB#16	2	Front	26865	831.5	23.15	0.01	23.5	0.232	1.084	0.251
	Band26/50%RB#16	2	Back	26865	831.5	23.15	-0.18	23.5	0.318	1.084	0.345
	Band26/50%RB#16	2	Left	26865	831.5	23.15	-0.04	23.5	0.554	1.084	0.601
	Band26/50%RB#16	2	Top	26865	831.5	23.15	0.08	23.5	0.011	1.084	0.012
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ TDD-LTE Band 38(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band38/1RB#49	1	Front	38150	2610	23.80	0.01	24.0	0.081	1.047	1.008	0.085
38	Band38/1RB#49	1	Back	38150	2610	23.80	0.05	24.0	0.313	1.047	1.008	0.330
	Band38C/1RB#49	1	Back	38150+37952	2610+2590.2	23.25	0.12	24.0	0.249	1.189	1.008	0.298
	Band38/1RB#49	1	Left	38150	2610	23.80	0.04	24.0	0.026	1.047	1.008	0.027
	Band38/1RB#49	1	Bottom	38150	2610	23.80	0.10	24.0	0.268	1.047	1.008	0.283
	Band38/1RB#49	3	Front	38150	2610	23.80	0.00	24.0	0.130	1.047	1.008	0.137
	Band38/1RB#49	3	Back	38150	2610	23.80	0.19	24.0	0.238	1.047	1.008	0.251
	Band38/1RB#49	3	Left	38150	2610	23.80	-0.17	24.0	0.185	1.047	1.008	0.195
	Band38/1RB#49	3	Top	38150	2610	23.80	-0.02	24.0	0.050	1.047	1.008	0.053
	Band38/50%RB#0	1	Front	38150	2610	22.64	-0.11	23.0	0.063	1.086	1.008	0.069
	Band38/50%RB#0	1	Back	38150	2610	22.64	-0.15	23.0	0.287	1.086	1.008	0.314
	Band38/50%RB#0	1	Left	38150	2610	22.64	0.15	23.0	0.018	1.086	1.008	0.020
	Band38/50%RB#0	1	Bottom	38150	2610	22.64	-0.19	23.0	0.218	1.086	1.008	0.239
	Band38/50%RB#0	3	Front	38150	2610	22.64	0.20	23.0	0.102	1.086	1.008	0.112
	Band38/50%RB#0	3	Back	38150	2610	22.64	0.00	23.0	0.175	1.086	1.008	0.192
	Band38/50%RB#0	3	Left	38150	2610	22.64	0.17	23.0	0.124	1.086	1.008	0.136
	Band38/50%RB#0	3	Top	38150	2610	22.64	-0.19	23.0	0.037	1.086	1.008	0.041
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)						
Spatial Peak						Averaged over 1g						
Uncontrolled Exposure/General Population												

➤ TDD-LTE Band 41(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band41/1RB#49	1	Front	40620	2593	23.74	-0.04	24.0	0.072	1.062	1.008	0.077
39	Band41/1RB#49	1	Back	40620	2593	23.74	0.06	24.0	0.309	1.062	1.008	0.331
	Band41C/1RB#49	1	Back	40620+40818	2593+2612.8	23.71	-0.01	24.0	0.257	1.069	1.008	0.277
	Band41/1RB#49	1	Left	40620	2593	23.74	-0.06	24.0	0.023	1.062	1.008	0.025
	Band41/1RB#49	1	Bottom	40620	2593	23.74	-0.02	24.0	0.290	1.062	1.008	0.310
	Band41/1RB#49	3	Front	40620	2593	23.74	0.09	24.0	0.105	1.062	1.008	0.112
	Band41/1RB#49	3	Back	40620	2593	23.74	0.05	24.0	0.188	1.062	1.008	0.201
	Band41/1RB#49	3	Left	40620	2593	23.74	-0.10	24.0	0.141	1.062	1.008	0.151
	Band41/1RB#49	3	Top	40620	2593	23.74	0.01	24.0	0.040	1.062	1.008	0.043
	Band41/50%RB#49	1	Front	40620	2593	22.49	-0.14	22.5	0.052	1.002	1.008	0.053
	Band41/50%RB#49	1	Back	40620	2593	22.49	-0.08	22.5	0.267	1.002	1.008	0.270
	Band41/50%RB#49	1	Left	40620	2593	22.49	0.10	22.5	0.017	1.002	1.008	0.017
	Band41/50%RB#49	1	Bottom	40620	2593	22.49	-0.02	22.5	0.243	1.002	1.008	0.245
	Band41/50%RB#49	3	Front	40620	2593	22.49	-0.20	22.5	0.084	1.002	1.008	0.085
	Band41/50%RB#49	3	Back	40620	2593	22.49	0.02	22.5	0.143	1.002	1.008	0.144
	Band41/50%RB#49	3	Left	40620	2593	22.49	0.13	22.5	0.108	1.002	1.008	0.109
	Band41/50%RB#49	3	Top	40620	2593	22.49	0.06	22.5	0.031	1.002	1.008	0.031
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)						
Spatial Peak						Averaged over 1g						
Uncontrolled Exposure/General Population												

➤ FDD-LTE Band 66(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band66/1RB#49	1	Front	132322	1745	23.70	0.01	24.0	0.150	1.072	0.161
	Band66/1RB#49	1	Back	132322	1745	23.70	0.03	24.0	0.572	1.072	0.613
	Band66C/1RB#49	1	Back	132323+132521	1745.1+1764.9	23.51	-0.06	24.0	0.512	1.119	0.573
	Band66/1RB#49	1	Left	132322	1745	23.70	-0.07	24.0	0.043	1.072	0.046
60	Band66/1RB#49	1	Bottom	132322	1745	23.70	0.10	24.0	0.705	1.072	0.756
	Band66C/1RB#49	1	Bottom	132323+132521	1745.1+1764.9	23.51	0.02	24.0	0.637	1.119	0.713
	Band66/1RB#49	3	Front	132322	1745	23.70	0.13	24.0	0.073	1.072	0.079
	Band66/1RB#49	3	Back	132322	1745	23.70	0.04	24.0	0.118	1.072	0.126
	Band66/1RB#49	3	Left	132322	1745	23.70	0.15	24.0	0.121	1.072	0.130
	Band66/1RB#49	3	Top	132322	1745	23.70	-0.05	24.0	0.048	1.072	0.051
	Band66/50%RB#0	1	Front	132322	1745	22.70	0.10	23.0	0.123	1.072	0.132
	Band66/50%RB#0	1	Back	132322	1745	22.70	-0.15	23.0	0.489	1.072	0.524
	Band66/50%RB#0	1	Left	132322	1745	22.70	-0.06	23.0	0.028	1.072	0.030
	Band66/50%RB#0	1	Bottom	132322	1745	22.70	-0.15	23.0	0.524	1.072	0.562
	Band66/50%RB#0	3	Front	132322	1745	22.70	-0.04	23.0	0.058	1.072	0.062
	Band66/50%RB#0	3	Back	132322	1745	22.70	0.14	23.0	0.079	1.072	0.085
	Band66/50%RB#0	3	Left	132322	1745	22.70	-0.06	23.0	0.086	1.072	0.092
	Band66/50%RB#0	3	Top	132322	1745	22.70	0.13	23.0	0.031	1.072	0.033
ANSI / IEEE C95.1 – SAFETY LIMIT						1.6 W/kg (mW/g)					
Spatial Peak						Averaged over 1g					
Uncontrolled Exposure/General Population											

➤ WLAN 2.4GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b	13	Front	6	2437	18.16	-0.19	18.5	0.066	1.081	1.000	0.071
	2.4GHz/802.11b	13	Back	6	2437	18.16	0.03	18.5	0.141	1.081	1.000	0.152
	2.4GHz/802.11b	13	Right	6	2437	18.16	-0.14	18.5	0.112	1.081	1.000	0.121
	2.4GHz/802.11b	13	Top	6	2437	18.16	-0.07	18.5	0.040	1.081	1.000	0.043
	2.4GHz/802.11b	14	Front	11	2462	18.07	-0.08	18.5	0.039	1.104	1.000	0.043
41	2.4GHz/802.11b	14	Back	11	2462	18.07	0.03	18.5	0.155	1.104	1.000	0.171
	2.4GHz/802.11b	14	Right	11	2462	18.07	0.05	18.5	0.025	1.104	1.000	0.028
	2.4GHz/802.11b	14	Top	11	2462	18.07	0.00	18.5	0.139	1.104	1.000	0.153
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.2GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	14	Front	48	5240	16.77	0.00	17.0	0.031	1.054	1.000	0.032
	5.2GHz/802.11a	14	Back	48	5240	16.77	0.00	17.0	0.044	1.054	1.000	0.047
	5.2GHz/802.11a	14	Right	48	5240	16.77	0.06	17.0	0.025	1.054	1.000	0.026
61	5.2GHz/802.11a	14	Top	48	5240	16.77	-0.03	17.0	0.081	1.054	1.000	0.085
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.8GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	14	Front	157	5785	17.40	0.00	17.5	0.043	1.023	1.000	0.044
	5.8GHz/802.11a	14	Back	157	5785	17.40	0.00	17.5	0.087	1.023	1.000	0.089
	5.8GHz/802.11a	14	Right	157	5785	17.40	0.00	17.5	0.022	1.023	1.000	0.022
62	5.8GHz/802.11a	14	Top	157	5785	17.40	-0.07	17.5	0.163	1.023	1.000	0.167
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ Bluetooth Body SAR in Hotspot mode

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	14	Front	39	2441	14.71	0.17	15.0	0.019	1.069	1.000	0.021
	BT/GFSK	14	Back	39	2441	14.71	0.09	15.0	0.033	1.069	1.000	0.035
63	BT/GFSK	14	Right	39	2441	14.71	-0.13	15.0	0.038	1.069	1.000	0.041
	BT/GFSK	14	Top	39	2441	14.71	0.00	15.0	0.014	1.069	1.000	0.014
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

Note:

- Per KDB 447498 D01v06, for each exposure position, if the highest output channel Reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
- Additional WLAN SAR testing was performed for simultaneous transmission analysis.
- For Hotspot SAR testing, per KDB 941225 D06v02r01, for EUT dimension ≥ 9 cm*5cm, the test distance is 10mm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
- Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA output power is < 0.25 dB higher than RMC 12.2kbps, or Reported SAR with RMC 12.2kbps setting is ≤ 1.2 W/kg, HSDPA SAR evaluation can be excluded.
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
- Per KDB 648474 D04v01r03, when the Reported SAR for a body-worn accessory measured without a headset connected to the handset is > 1.2 W/kg, SAR testing with a headset connected to the handset is required.
- Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel.
- According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
- Highlight part of test data means repeated test.
- *: Due the antenna location and antenna performance results the SAR value lower than the lowest system limit, then we show " <0.001 * W/Kg" in the report.

15.4 Repeated SAR measurement

Band/ Mode	Test Position	CH.	Freq. (MHz)	Measured SAR (W/kg)				
				Original	1 st Repeated		2 nd Repeated	
					Value	Ratio	Value	Ratio
PCS1900/Voice	Right Cheek	512	1850.2	0.826	0.786	1.05	/	/
Band IV/RMC	Bottom	1413	1732.6	0.931	0.922	1.01	/	/
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				1.6 W/kg (mW/g) Averaged over 1g				

Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg
- Per KDB 865664 D01v01r04, if the ratio of *original* and *repeated* is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.

15.5 Multi-Band Simultaneous Transmission Considerations

➤ Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown in below Figure and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.

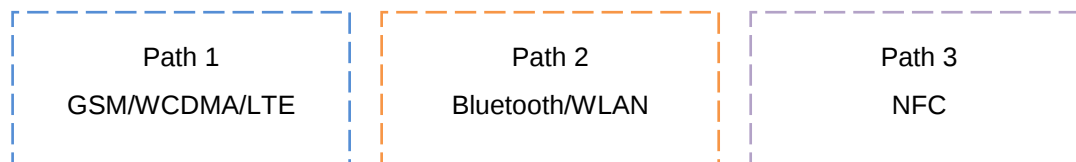


Fig.15.1 Simultaneous Transmission Paths

➤ Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v06, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v06 4.3.2), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} \cdot \frac{\text{Max power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

Mode	Max. tune-up Power (dBm)	Exposure Position	Head	Body	Hotspot
		Test Distance (mm)	0	10	10
NFC	-48.0	Estimated SAR (W/kg)	0	0	0

Note:

- When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according is applied to determine estimated SAR.

➤ Multi-Band simultaneous Transmission Consideration

Simultaneous Transmission Consideration	Position	Applicable Combination
	Head	WWAN (Voice) + WLAN 2.4 GHz+ NFC
		WWAN (Voice) + 5.2GHz/5.3GHz/5.6GHz/5.8GHz + Bluetooth+ NFC
	Body	WWAN (Data) + WLAN 2.4 GHz+ NFC
		WWAN (Data) + 5.2GHz/5.3GHz/5.6GHz/5.8GHz + Bluetooth+ NFC
	Hotspot	WWAN (Data) + WLAN 2.4 GHz+ NFC
		WWAN (Data) + 5.2GHz/5.8GHz + Bluetooth+ NFC

Note:

- WLAN 2.4GHz Band, Bluetooth share the same antenna, and cannot transmit simultaneously.
- WLAN 2.4GHz Band, WLAN 5.2GHz Band, WLAN 5.3GHz Band, WLAN 5.6GHz Band, WLAN 5.8GHz Band share the same antenna, and cannot transmit simultaneously.
- GSM/WCDMA/LTE shares the same antenna, and cannot transmit simultaneously.
- The Report SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6 W/kg.
 - $\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary
 - Simultaneously transmission SAR measurement, and the Reported multi-band SAR < 1.6 W/kg

15.6 SAR Simultaneous Transmission Analysis

➤ Simultaneous Transmission

Position		Standalone SAR(W/kg)					Σ SAR _{1g} (W/kg)	
		1	2	3	4	5	1+2+5	1+3+4+5
		WWAN	2.4G WLAN	5G WLAN	BT	NFC		
Head	Right Cheek	0.851	0.183	0.183	0.028	0.000	1.034	1.062
	Right Tilted	0.306	0.173	0.242	0.029	0.000	0.479	0.577
	Left Cheek	0.530	0.309	0.148	0.079	0.000	0.839	0.757
	Left Tilted	0.152	0.383	0.366	0.042	0.000	0.535	0.560
Body-worn	Front	0.304	0.071	0.053	0.021	0.000	0.375	0.378
	Back	0.724	0.171	0.099	0.035	0.000	0.895	0.858
Hotspot	Front	0.304	0.071	0.044	0.021	0.000	0.375	0.369
	Back	0.724	0.171	0.089	0.035	0.000	0.895	0.848
	Left	0.746	0.000	0.000	0.000	0.000	0.746	0.746
	Right	0.102	0.121	0.026	0.041	0.000	0.223	0.169
	Top	0.138	0.153	0.167	0.014	0.000	0.291	0.319
	Bottom	1.169	0.000	0.000	0.000	0.000	1.169	1.169

➤ Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06.

15.7 Measurement Uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEC/IEEE 62209-1528:2020 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

15.8 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Industry Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested. Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

16 Reference

- [1]. FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”
- [2]. ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992
- [3]. IEC/IEEE 62209-1528:2020, “Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices –Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)”, October 2020
- [4]. SPEAG DASY52 System Handbook
- [5]. FCC KDB 248227 D01 v02r02, “SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS”, October 2015
- [6]. FCC KDB 447498 D01 v06, “RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES”, October 2015
- [7]. FCC KDB 648474 D04 v01r03, “SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS”, October 2015
- [8]. FCC KDB 941225 D01 v03r01, “3G SAR MEASUREMENT PROCEDURES”, October 2015
- [9]. FCC KDB 941225 D05 v02r05, “SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES”, Dec 2015
- [10]. FCC KDB 941225 D06 v02r01, “SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES”, October 2015
- [11]. FCC KDB 865664 D01 v01r04, “SAR MEASUREMENT REQUIREMENTS FOR 100 MHz TO 6 GHz”, August 2015

Appendix A: Plots of SAR System Check

Test Laboratory: JYTSZ

Date: 2025/4/29

DUT: Dipole 750 MHz; Type: D750V3; Serial: SN:1118

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.865 \text{ S/m}$; $\epsilon_r = 40.156$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.65, 10.65, 10.65) @ 750 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.18 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.714 W/kg; SAR(10 g) = 0.466 W/kg

Smallest distance from peaks to all points 3 dB below = 16.7 mm

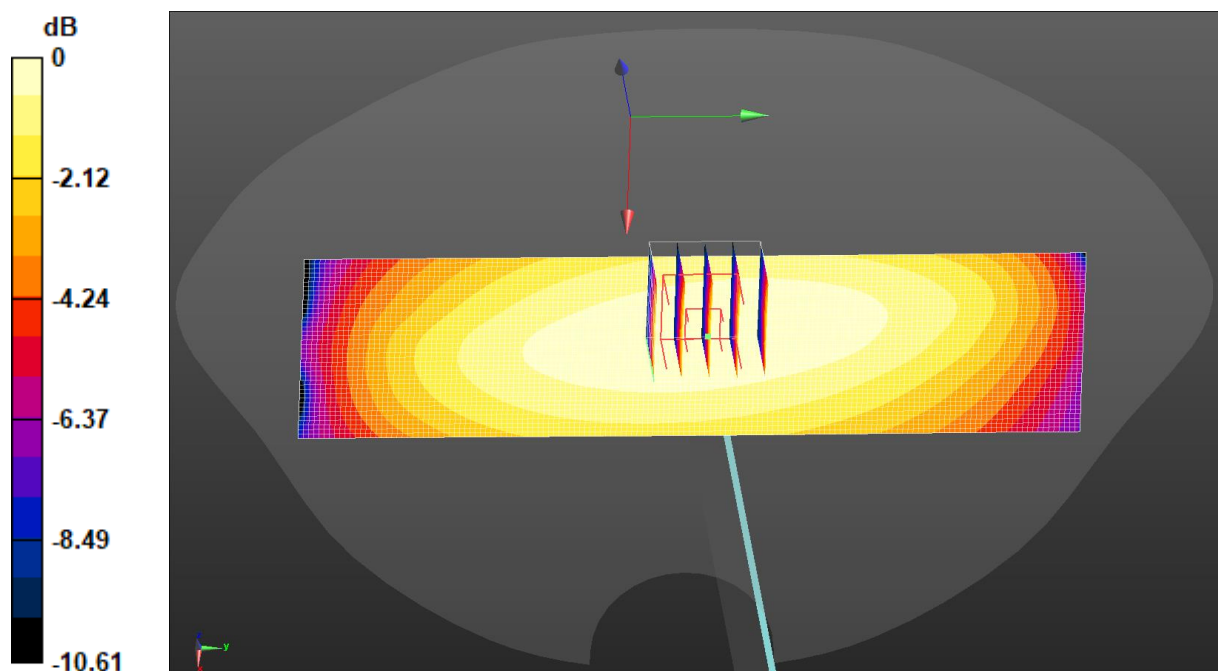
Ratio of SAR at M2 to SAR at M1 = 62.1%

Maximum value of SAR (measured) = 0.982 W/kg

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (41x151x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.968 W/kg



0 dB = 0.982 W/kg = -0.08 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/5/3

DUT: Dipole 835 MHz; Type: D835V2; Serial: SN:4D154

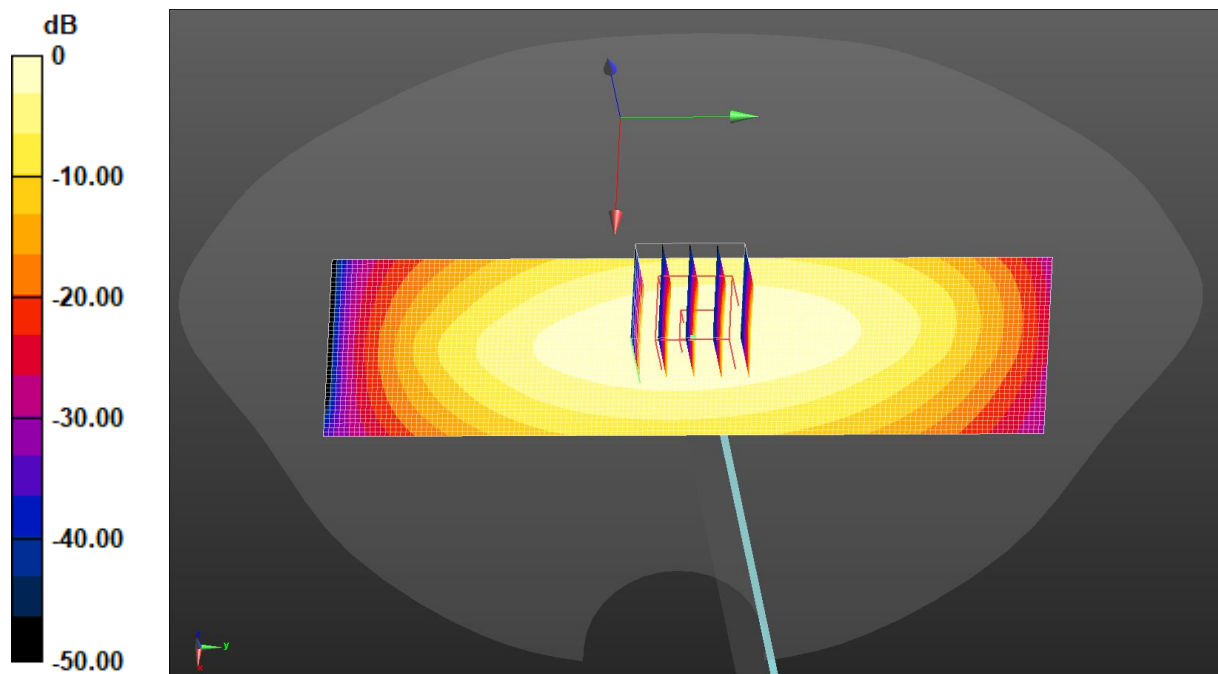
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 39.958$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.25, 10.25, 10.25) @ 835 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (41x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.05 W/kg

System Performance Check at Frequency 835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 35.05 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.522 W/kg
Smallest distance from peaks to all points 3 dB below = 17.7 mm
Ratio of SAR at M2 to SAR at M1 = 62.4%
Maximum value of SAR (measured) = 1.07 W/kg



$$0 \text{ dB} = 1.05 \text{ W/kg} = 0.21 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 2025/4/9

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: SN:1177

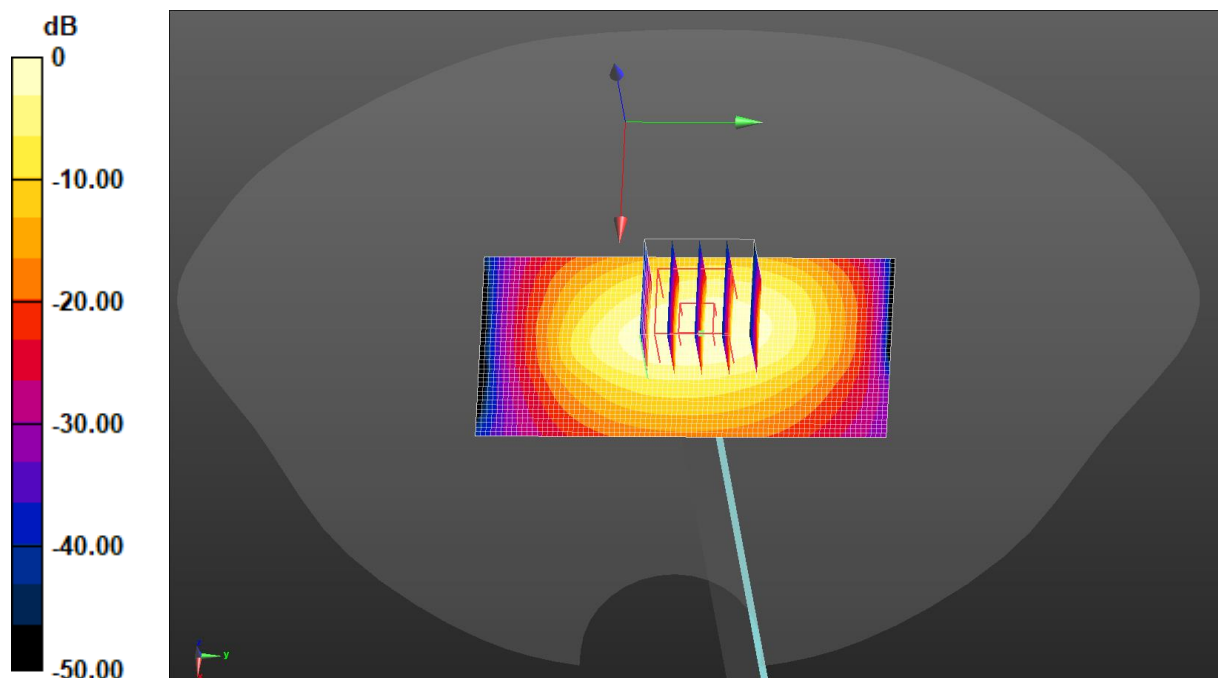
Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.329$ S/m; $\epsilon_r = 38.406$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.77, 8.77, 8.77) @ 1750 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.31 W/kg

System Performance Check at Frequency 1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 39.96 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.78 W/kg
SAR(1 g) = 1.52 W/kg; SAR(10 g) = 0.795 W/kg
Smallest distance from peaks to all points 3 dB below = 10.2 mm
Ratio of SAR at M2 to SAR at M1 = 53.1%
Maximum value of SAR (measured) = 2.28 W/kg



0 dB = 2.31 W/kg = 3.64 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/12

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN:5d175

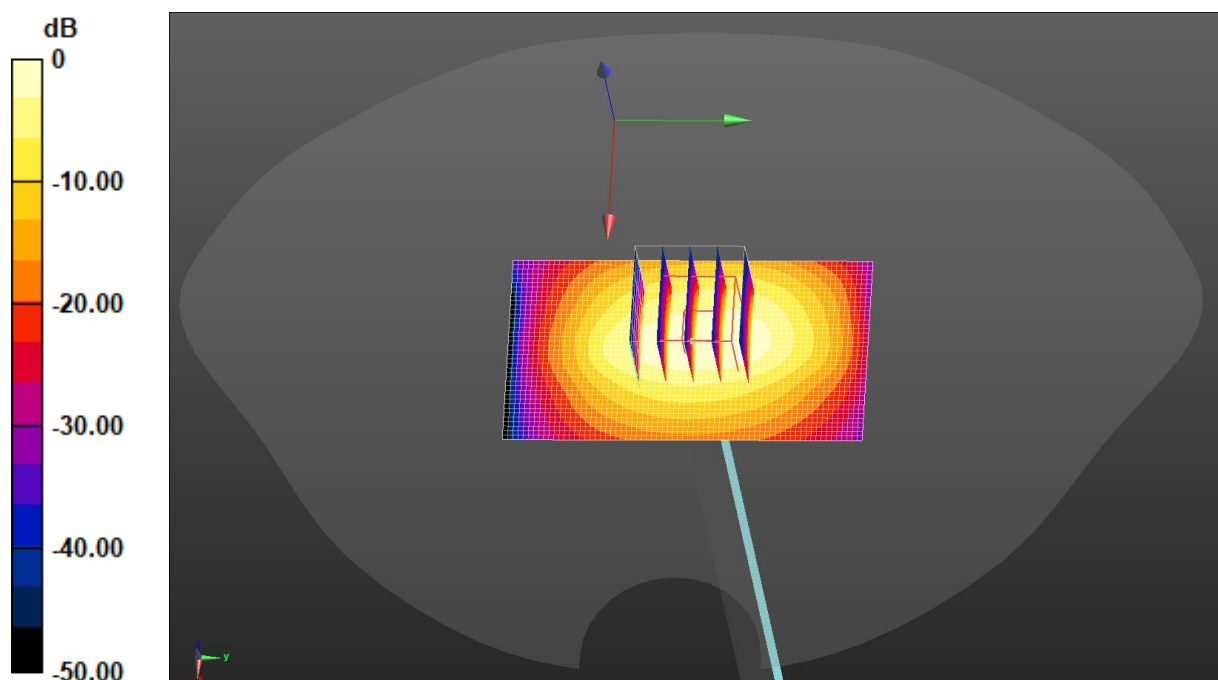
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 38.196$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.42, 8.42, 8.42) @ 1900 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.57 W/kg

System Performance Check at Frequency 1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 41.43 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 3.11 W/kg
SAR(1 g) = 1.62 W/kg; SAR(10 g) = 0.823 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 52.1%
Maximum value of SAR (measured) = 2.58 W/kg



0 dB = 2.57 W/kg = 4.10 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/14

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: SN:910

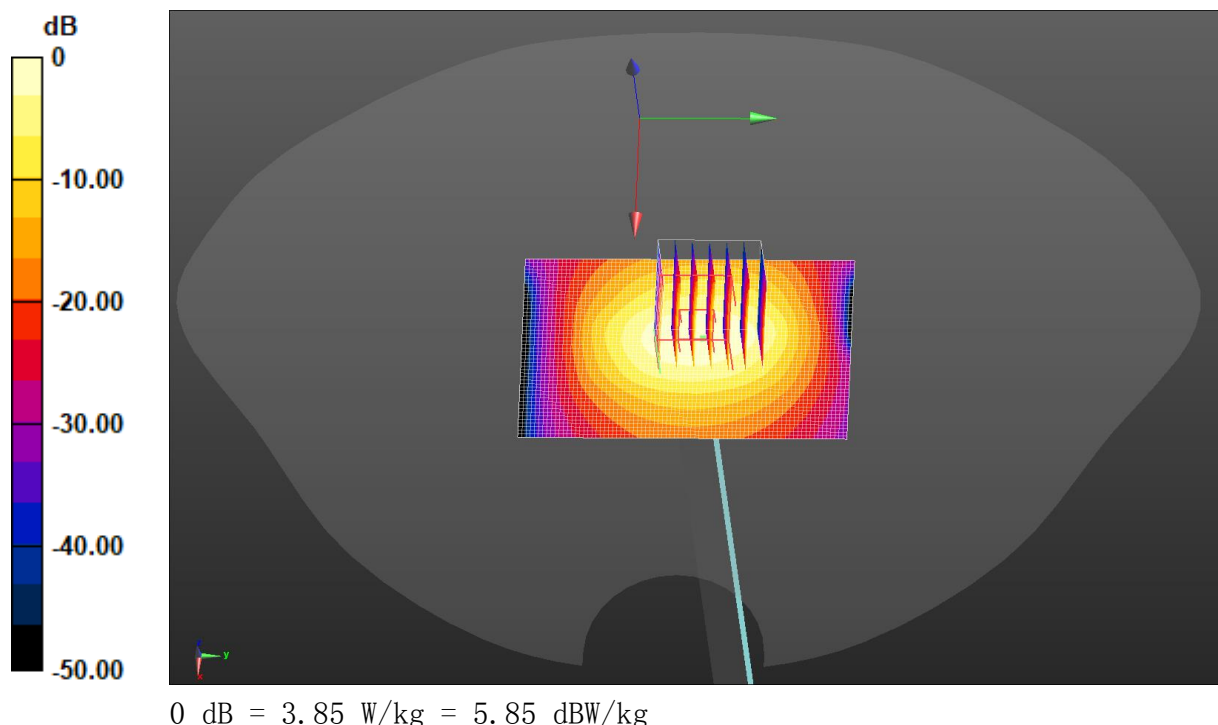
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.808$ S/m; $\epsilon_r = 37.922$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.84, 7.84, 7.84) @ 2450 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 2450 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.85 W/kg

System Performance Check at Frequency 2450 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 43.42 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 4.66 W/kg
SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.05 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 48.9%
Maximum value of SAR (measured) = 3.58 W/kg



Test Laboratory: JYTSZ

Date: 2025/4/18

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: SN:1114

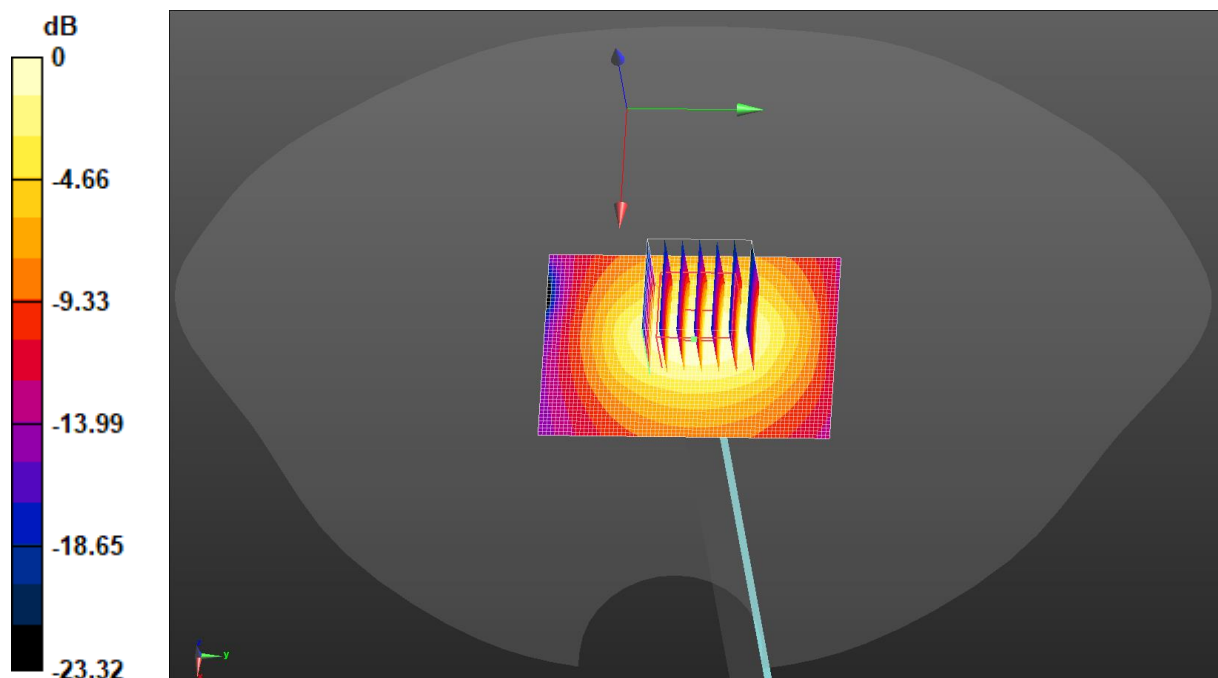
Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.933$ S/m; $\epsilon_r = 37.656$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.66, 7.66, 7.66) @ 2600 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 2600 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 44.14 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 4.82 W/kg
SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.06 W/kg
Smallest distance from peaks to all points 3 dB below = 9.2 mm
Ratio of SAR at M2 to SAR at M1 = 47.9%
Maximum value of SAR (measured) = 3.81 W/kg

System Performance Check at Frequency 2600 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 4.19 W/kg



0 dB = 3.81 W/kg = 5.81 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/21

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

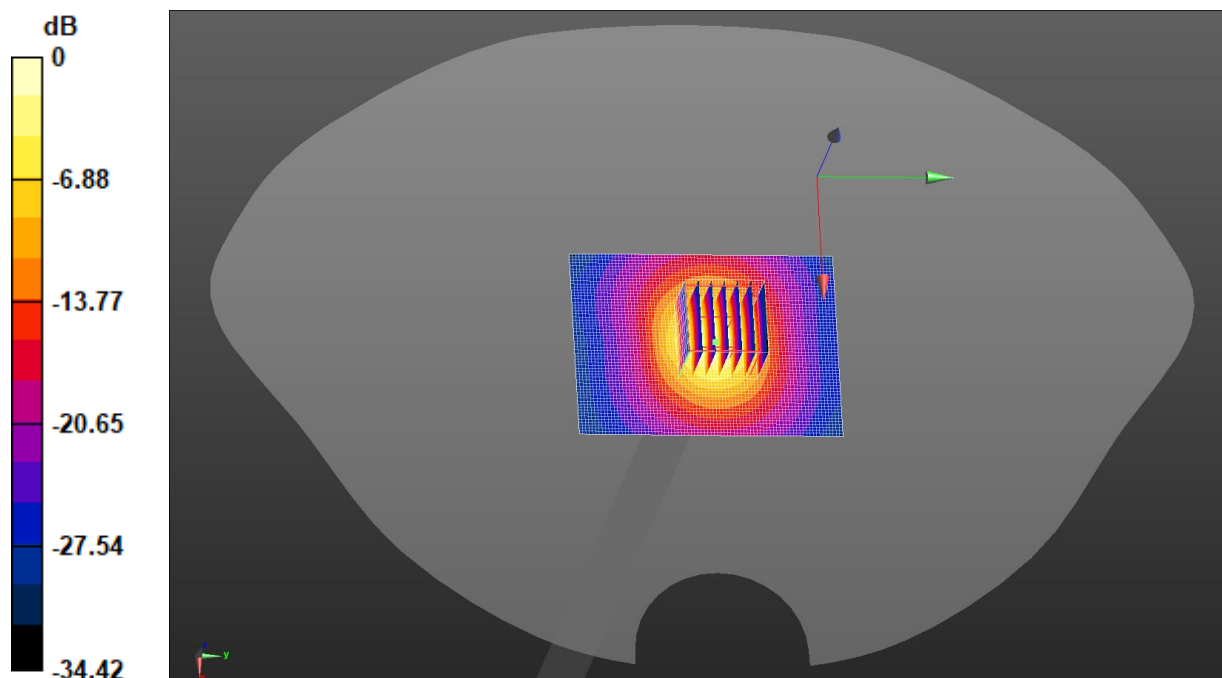
Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200$ MHz; $\sigma = 4.575$ S/m; $\epsilon_r = 35.991$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.52, 5.52, 5.52) @ 5200 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.02 W/kg

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 43.46 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 12.7 W/kg
SAR(1 g) = 3.17 W/kg; SAR(10 g) = 0.915 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 55.1%
Maximum value of SAR (measured) = 7.81 W/kg



0 dB = 7.81 W/kg = 8.93 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/21

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

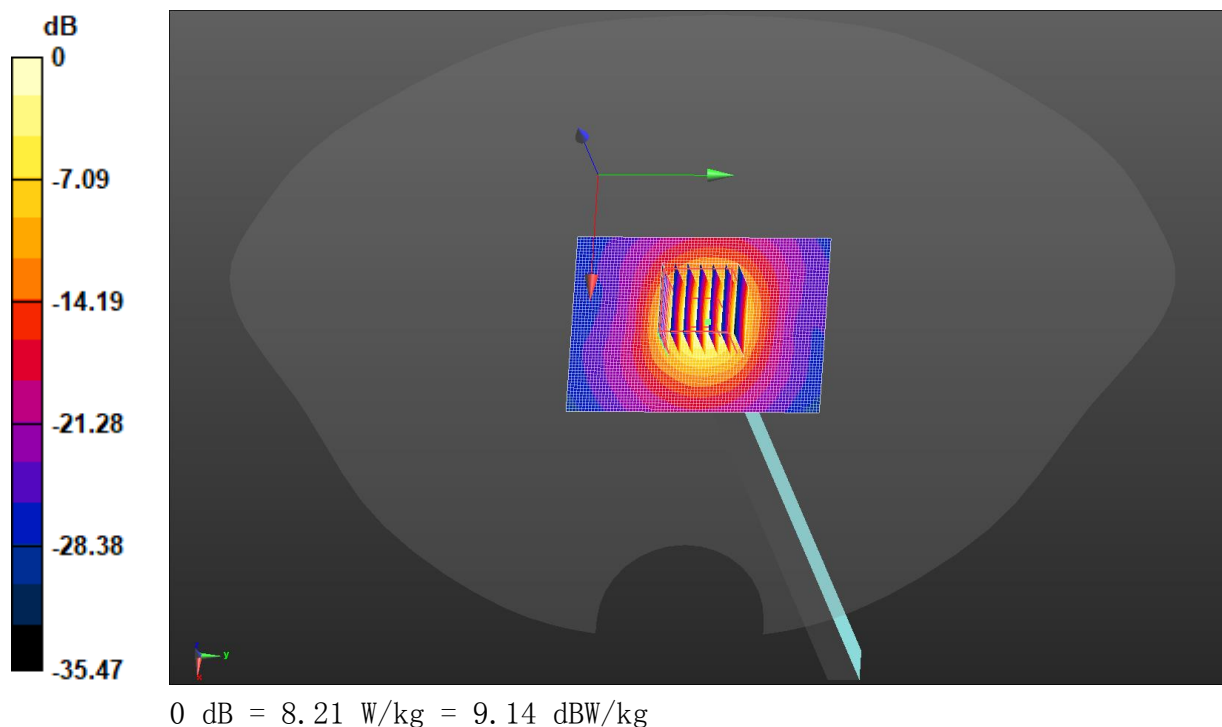
Communication System: UID 0, CW (0); Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300$ MHz; $\sigma = 4.68$ S/m; $\epsilon_r = 35.833$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.52, 5.52, 5.52) @ 5300 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.57 W/kg

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 43.92 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 13.5 W/kg
SAR(1 g) = 3.27 W/kg; SAR(10 g) = 0.931 W/kg
Smallest distance from peaks to all points 3 dB below = 7.1 mm
Ratio of SAR at M2 to SAR at M1 = 54.7%
Maximum value of SAR (measured) = 8.21 W/kg



Test Laboratory: JYTSZ

Date: 2025/4/24

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

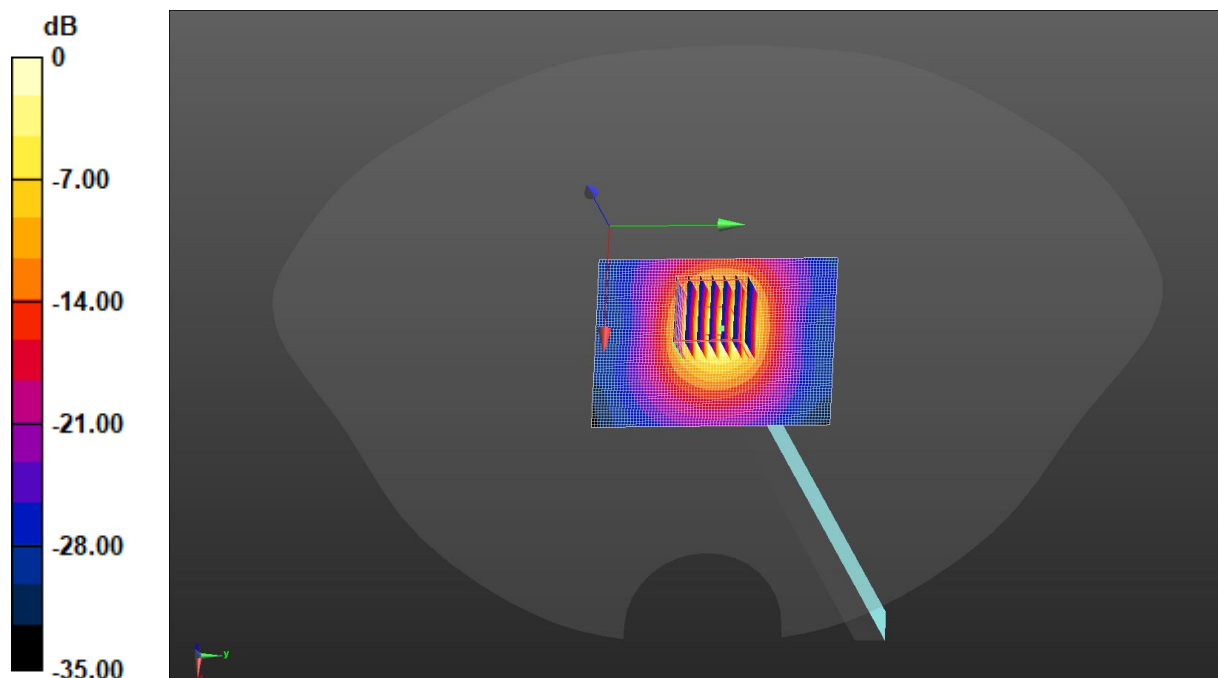
Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.002$ S/m; $\epsilon_r = 35.303$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(4.95, 4.95, 4.95) @ 5600 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 9.07 W/kg

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 38.88 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 14.1 W/kg
SAR(1 g) = 3.45 W/kg; SAR(10 g) = 0.945 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 52.3%
Maximum value of SAR (measured) = 8.75 W/kg



0 dB = 8.75 W/kg = 9.42 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/24

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

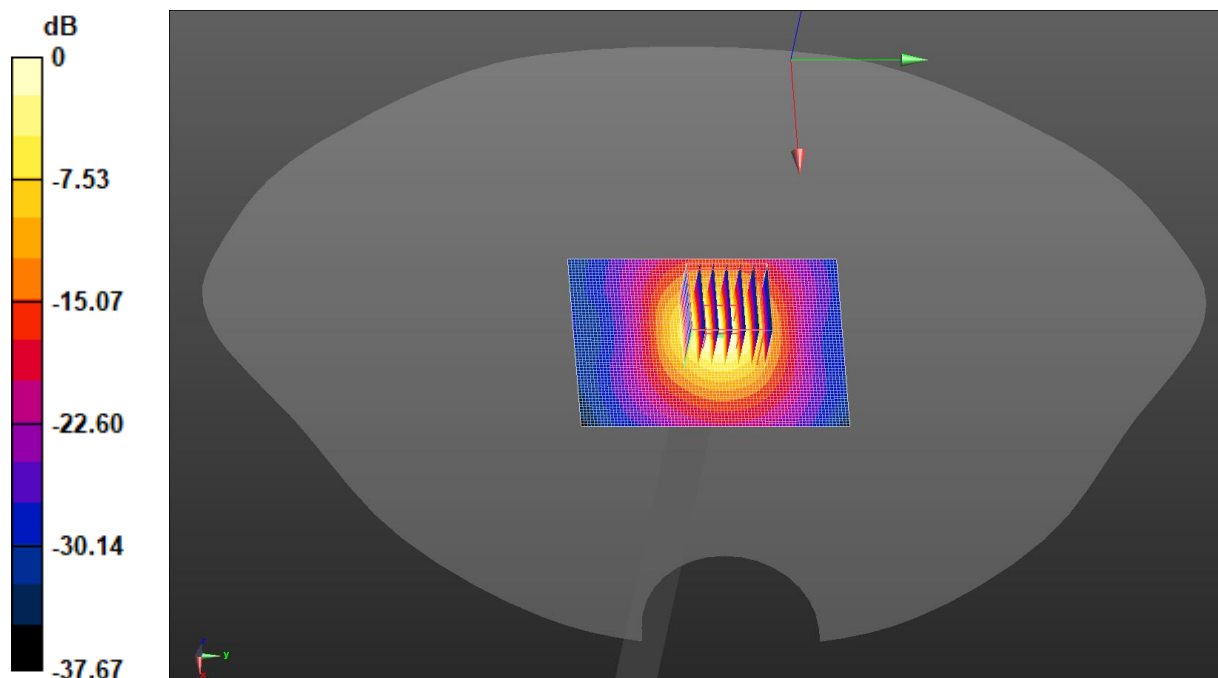
Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5800$ MHz; $\sigma = 5.217$ S/m; $\epsilon_r = 34.951$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.07, 5.07, 5.07) @ 5800 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.82 W/kg

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 38.34 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 14.7 W/kg
SAR(1 g) = 3.24 W/kg; SAR(10 g) = 0.912 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 50.4%
Maximum value of SAR (measured) = 8.41 W/kg



0 dB = 8.41 W/kg = 9.25 dBW/kg

Appendix B: Plots of SAR Test Data

Test Laboratory: JYTSZ

Date: 2025/5/3

DUT: Mobile Phone; Type: X6886; Serial: SZR012500142-2

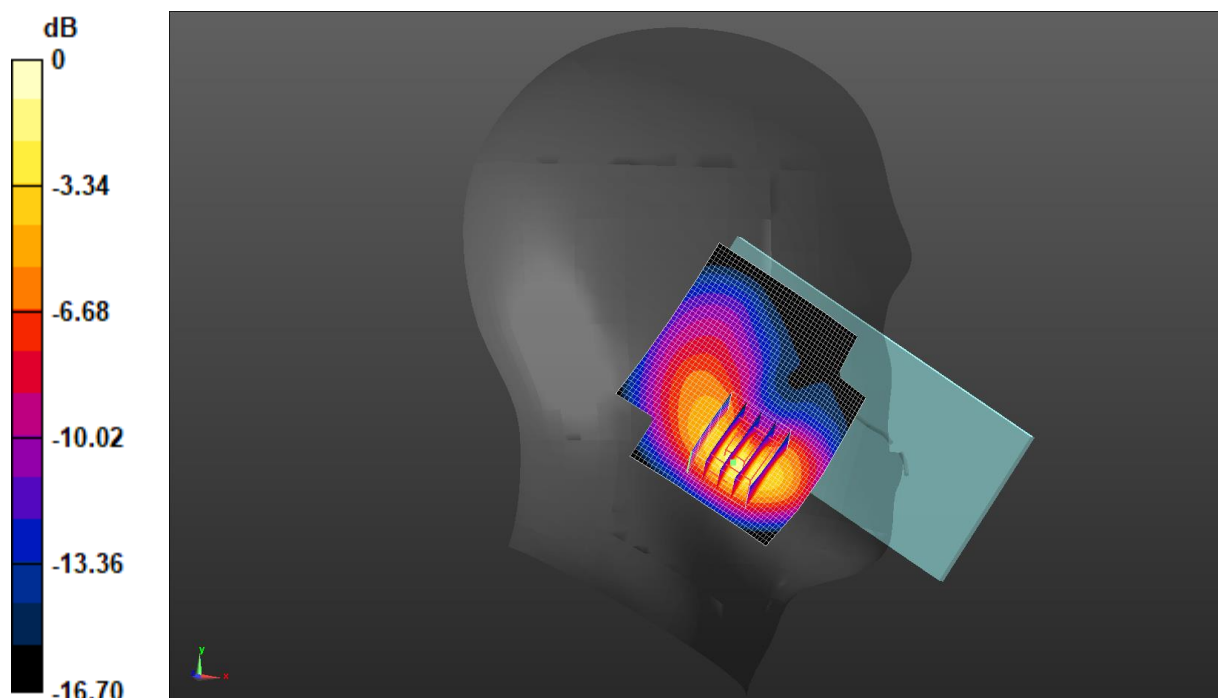
Communication System: UID 0, GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 39.954$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.25, 10.25, 10.25) @ 836.6 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM 850 Left Cheek/Middle Channel/Area Scan (51x51x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.211 W/kg

GSM 850 Left Cheek/Middle Channel/Zoom Scan (5x5x7)/Cube 0: Measurement
grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.272 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.441 W/kg
SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.104 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 46.4%
Maximum value of SAR (measured) = 0.318 W/kg



0 dB = 0.318 W/kg = -4.98 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/12

DUT: Mobile Phone; Type: X6886; Serial: SZR012500142-2

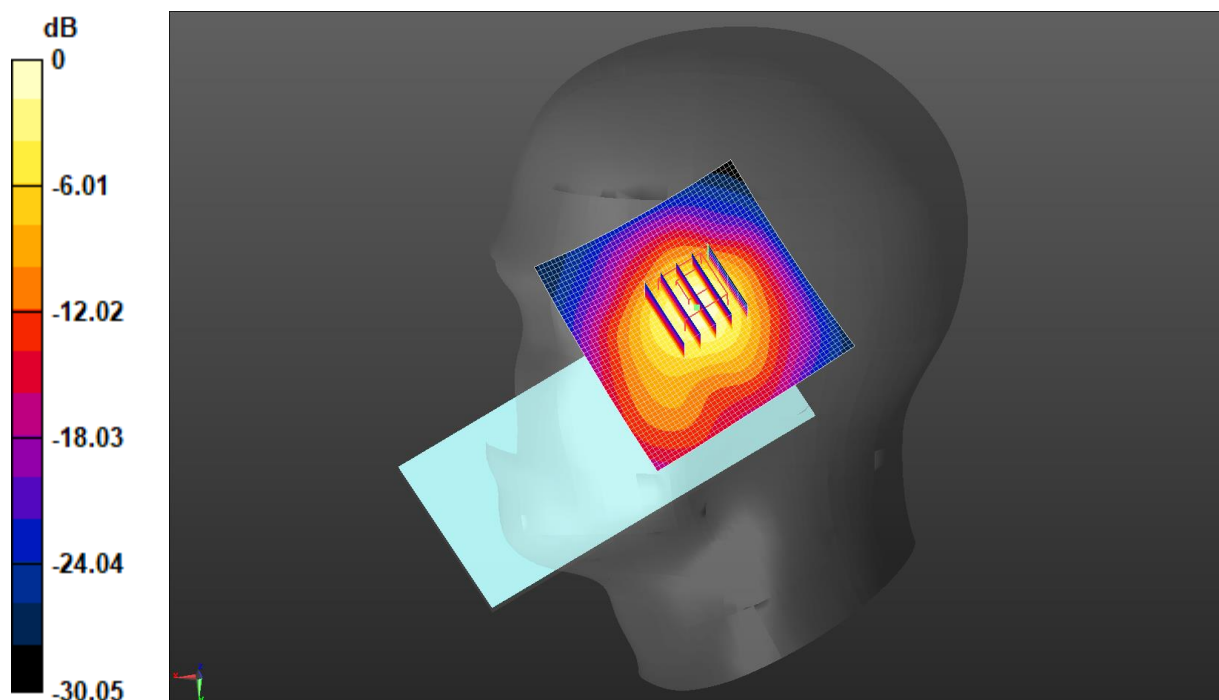
Communication System: UID 0, GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042
Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.382$ S/m; $\epsilon_r = 38.267$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.42, 8.42, 8.42) @ 1850.2 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM 1900 Right Cheek/Low Channel/Area Scan (51x51x1): Interpolated grid:
 $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.87 W/kg

GSM 1900 Right Cheek/Low Channel/Zoom Scan (5x5x7)/Cube 0: Measurement
grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 11.91 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.76 W/kg
SAR(1 g) = 0.826 W/kg; SAR(10 g) = 0.429 W/kg
Smallest distance from peaks to all points 3 dB below = 9.4 mm
Ratio of SAR at M2 to SAR at M1 = 45.1%
Maximum value of SAR (measured) = 1.37 W/kg



$$0 \text{ dB} = 1.87 \text{ W/kg} = 2.71 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 2025/4/12

DUT: Mobile Phone; Type: X6886; Serial: SZR012500142-2

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.418$ S/m; $\epsilon_r = 38.186$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.42, 8.42, 8.42) @ 1907.6 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1900 Right Cheek/High Channel/Area Scan (51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.762 W/kg

WCDMA 1900 Right Cheek/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.108 V/m; Power Drift = 0.07 dB

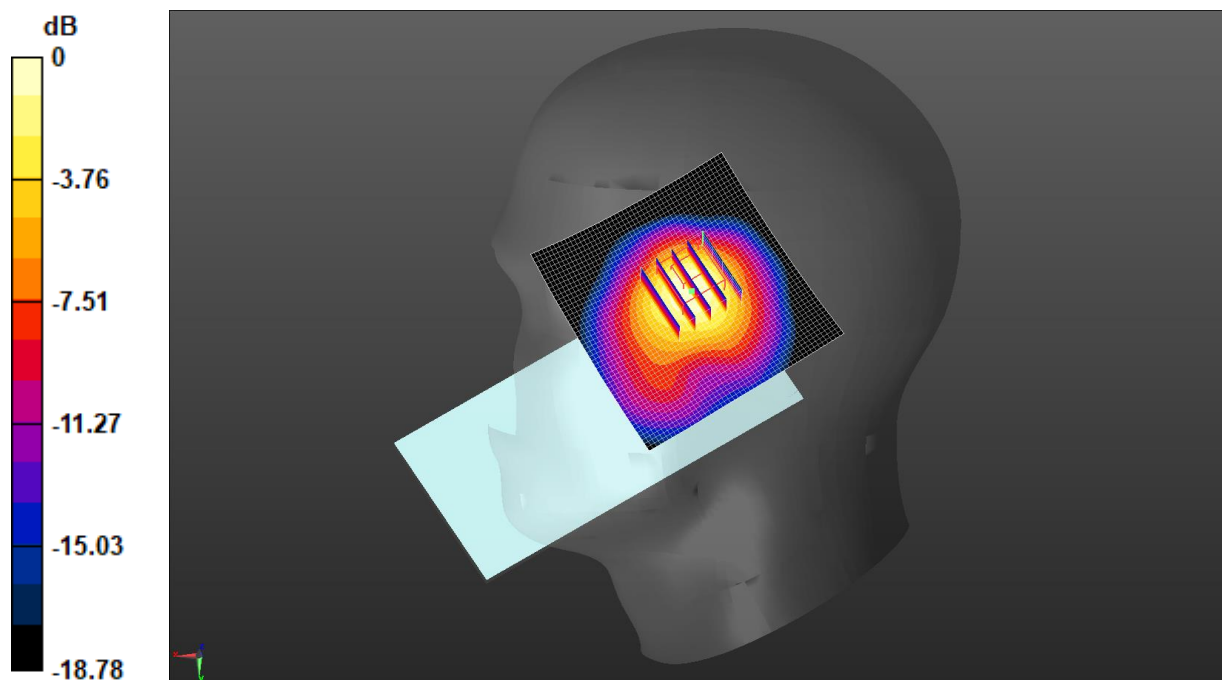
Peak SAR (extrapolated) = 0.822 W/kg

SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.200 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 45.6%

Maximum value of SAR (measured) = 0.635 W/kg



0 dB = 0.635 W/kg = -1.98 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/9

DUT: Mobile Phone; Type: X6886; Serial: SZR012500142-2

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.319$ S/m; $\epsilon_r = 38.439$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.77, 8.77, 8.77) @ 1732.6 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1700 Right Cheek/Middle Channel/Area Scan (51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.812 W/kg

WCDMA 1700 Right Cheek/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.849 V/m; Power Drift = 0.04 dB

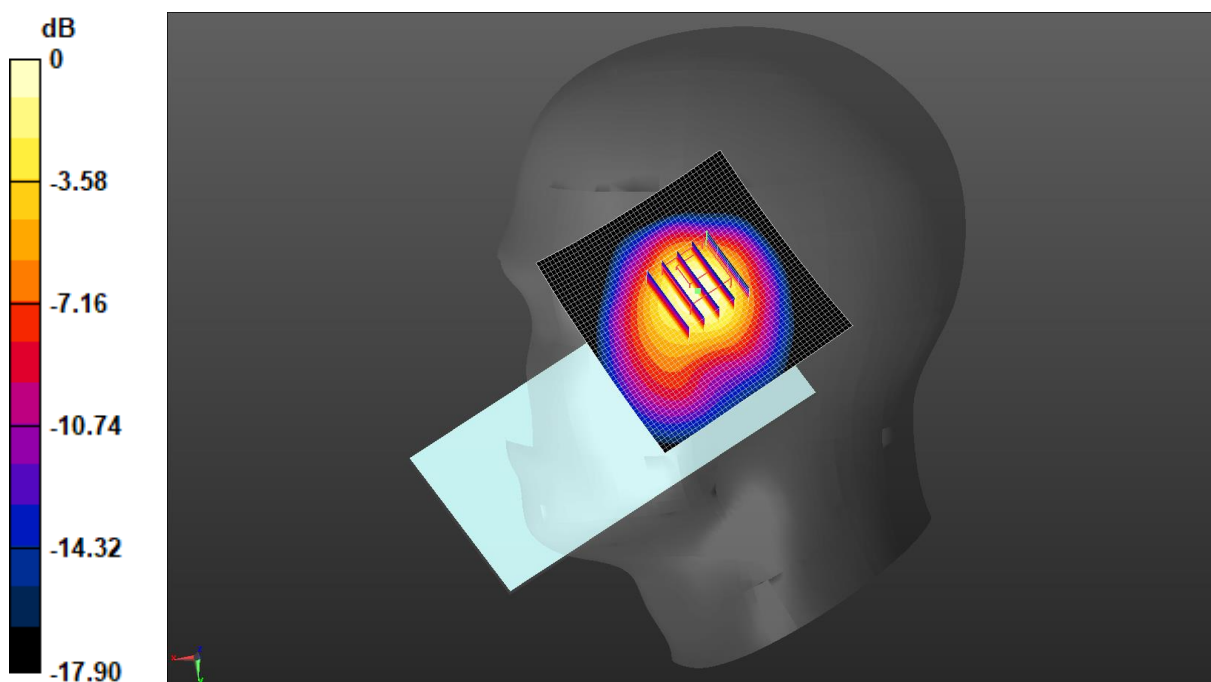
Peak SAR (extrapolated) = 0.887 W/kg

SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.227 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 45.7%

Maximum value of SAR (measured) = 0.689 W/kg



0 dB = 0.689 W/kg = -1.62 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/5/3

DUT: Mobile Phone; Type: X6886; Serial: SZR012500142-2

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 39.954$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.25, 10.25, 10.25) @ 836.6 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 850 Left Cheek/Middle Channel/Area Scan (51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.467 W/kg

WCDMA 850 Left Cheek/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.804 V/m; Power Drift = -0.03 dB

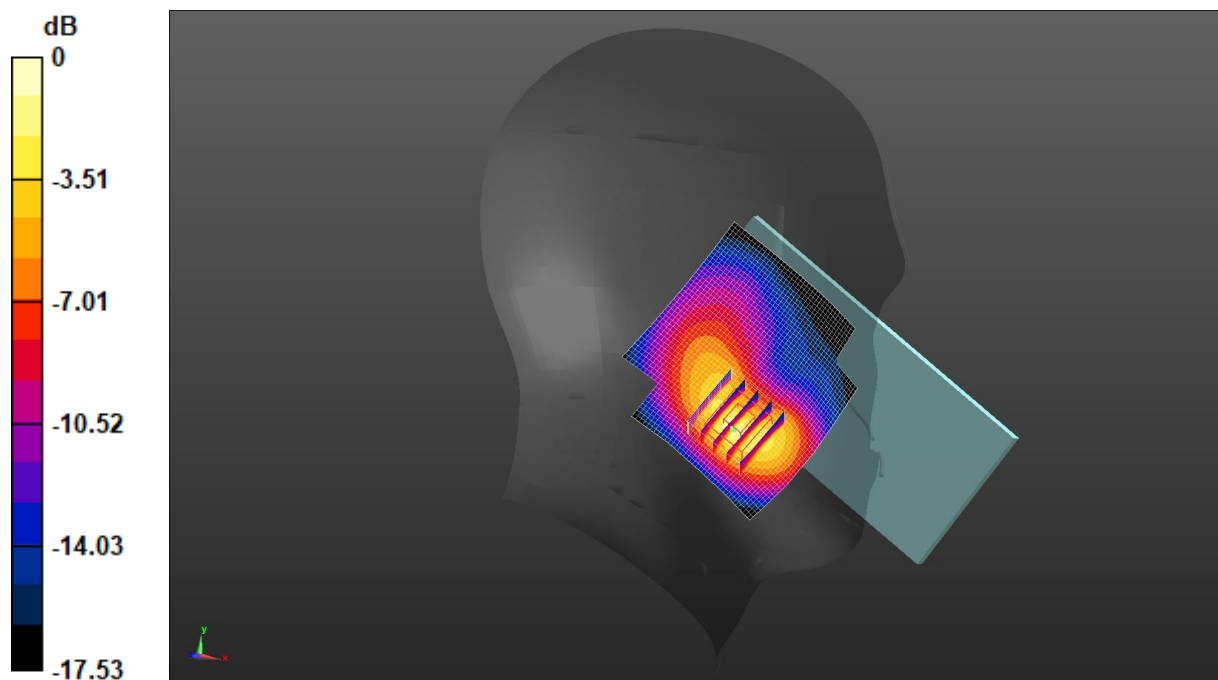
Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.441 W/kg; SAR(10 g) = 0.227 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 43.3%

Maximum value of SAR (measured) = 0.682 W/kg



0 dB = 0.682 W/kg = -1.66 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/12

DUT: Mobile Phone; Type: X6886; Serial: SZR012500142-2

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 38.225$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.42, 8.42, 8.42) @ 1880 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 2 1RB(20MHz) Right Cheek/Middle Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

LTE Band 2 1RB(20MHz) Right Cheek/Middle Channel/Zoom Scan

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

Reference Value = 10.26 V/m; Power Drift = -0.02 dB

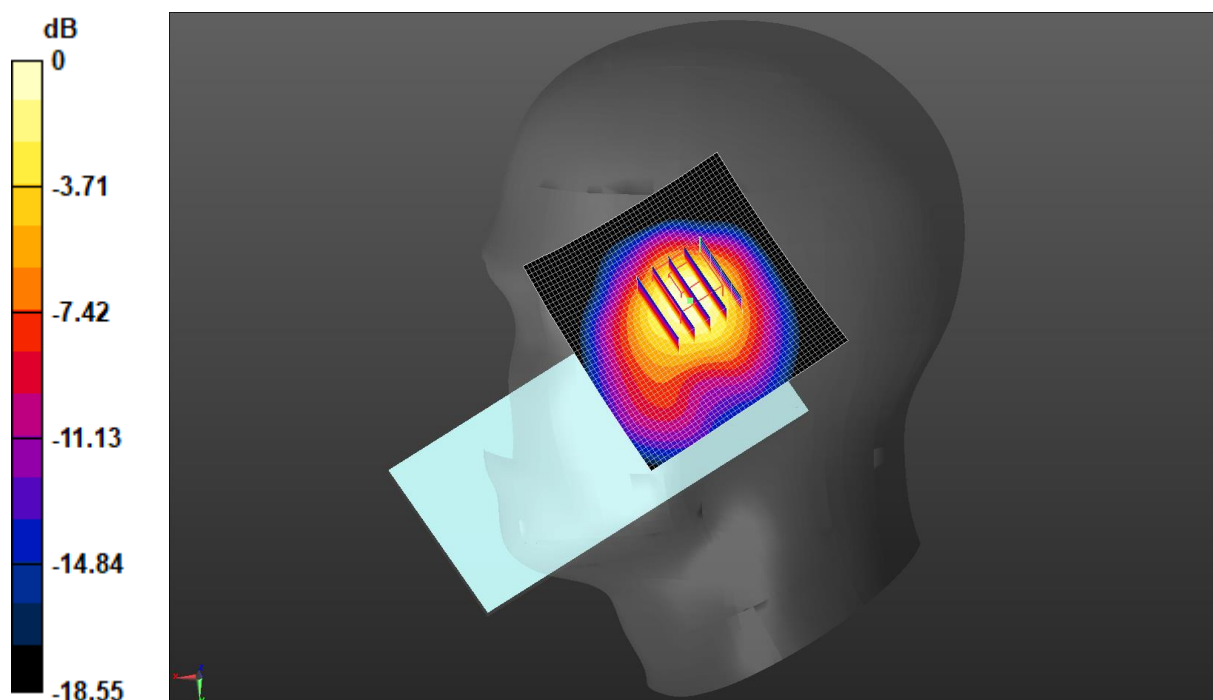
Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.254 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 45.2%

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



0 dB = 0.813 W/kg = -0.90 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/9

DUT: Mobile Phone; Type: X6886; Serial: SZR012500142-2

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.319$ S/m; $\epsilon_r = 38.439$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.77, 8.77, 8.77) @ 1732.5 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 4 1RB(20MHz) Right Cheek/Middle Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.879 W/kg

LTE Band 4 1RB(20MHz) Right Cheek/Middle Channel/Zoom Scan

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

Reference Value = 9.432 V/m; Power Drift = 0.04 dB

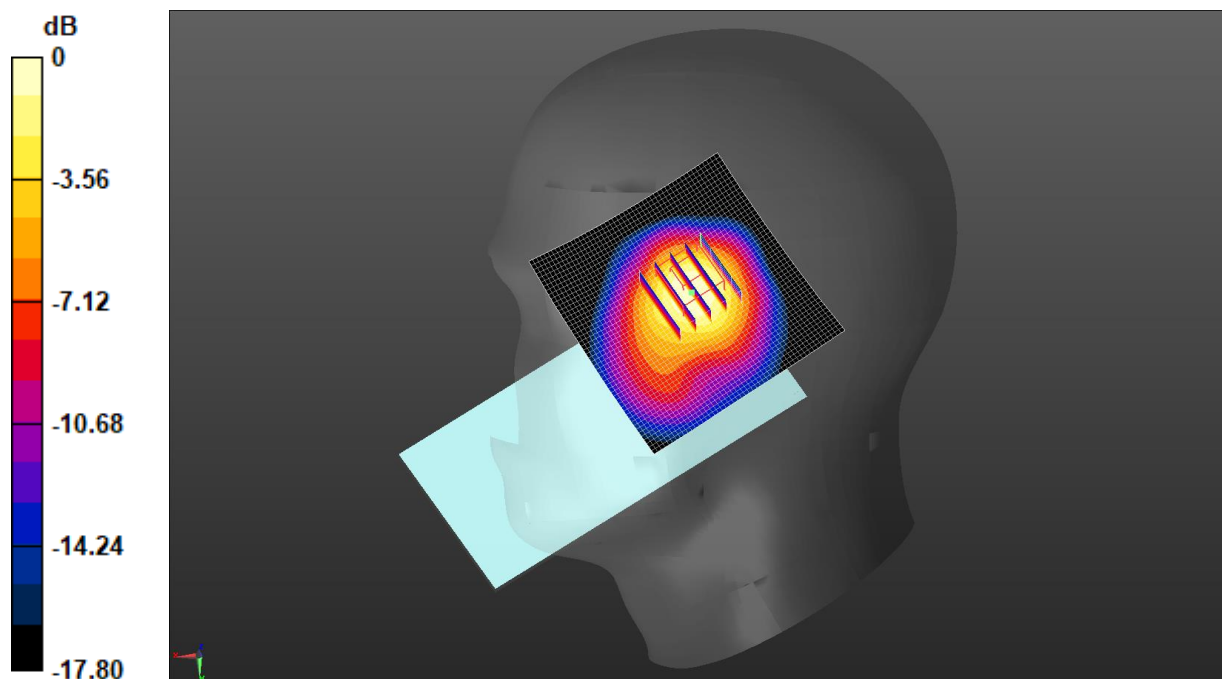
Peak SAR (extrapolated) = 0.946 W/kg

SAR(1 g) = 0.446 W/kg; SAR(10 g) = 0.240 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 45.7%

Maximum value of SAR (measured) = 0.736 W/kg



0 dB = 0.736 W/kg = -1.33 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/5/3

DUT: Mobile Phone; Type: X6886; Serial: SZR012500142-2

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 39.954$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.25, 10.25, 10.25) @ 836.5 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 5 1RB(10MHz) Left Cheek/Middle Channel/Area Scan (51x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.506 W/kg

LTE Band 5 1RB(10MHz) Left Cheek/Middle Channel/Zoom Scan

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

Reference Value = 7.921 V/m; Power Drift = -0.04 dB

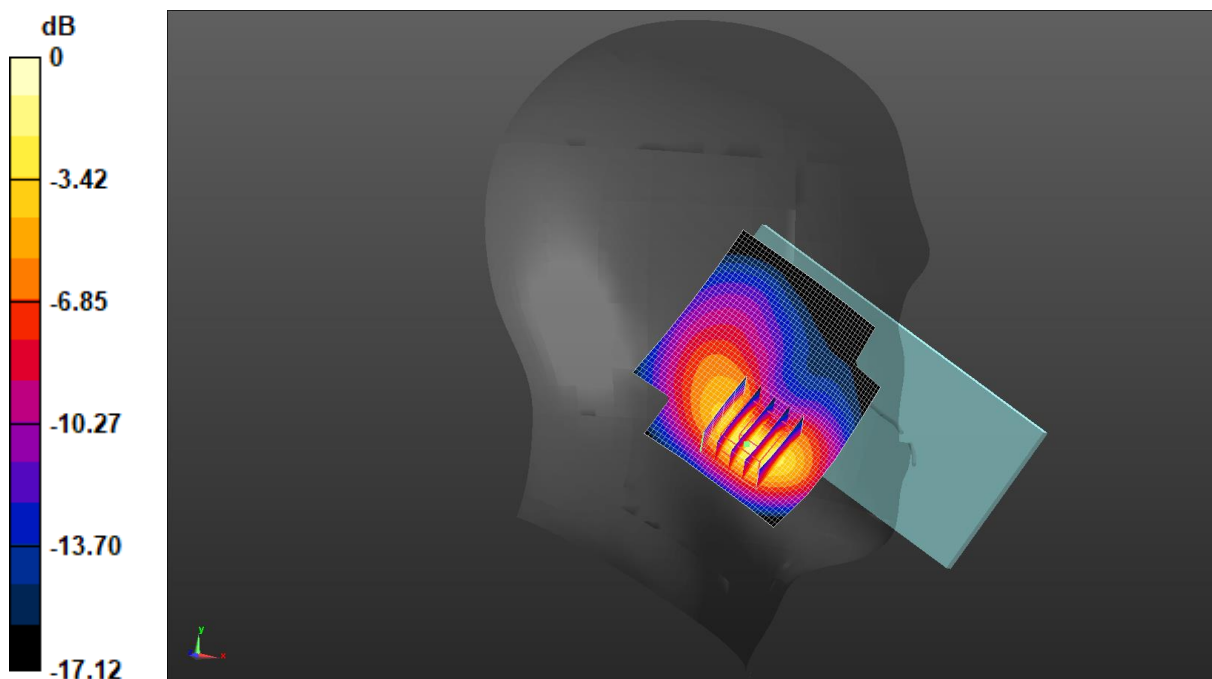
Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.257 W/kg

Smallest distance from peaks to all points 3 dB below = 5 mm

Ratio of SAR at M2 to SAR at M1 = 45.5%

Maximum value of SAR (measured) = 0.784 W/kg



0 dB = 0.784 W/kg = -1.06 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/18

DUT: Mobile Phone; Type: X6886; Serial: SZR012500142-2

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.899$ S/m; $\epsilon_r = 37.717$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.66, 7.66, 7.66) @ 2560 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 7 1RB(20MHz) Right Cheek/High Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.29 W/kg

LTE Band 7 1RB(20MHz) Right Cheek/High Channel/Zoom Scan

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

Reference Value = 8.579 V/m; Power Drift = -0.00 dB

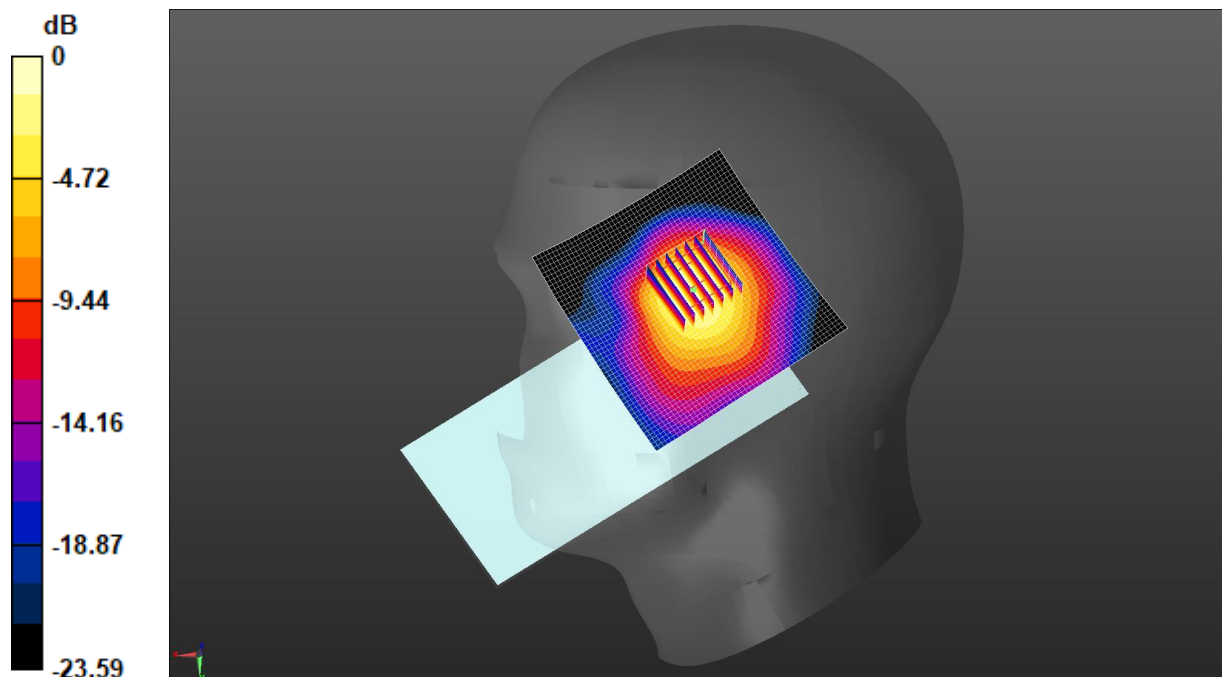
Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.599 W/kg; SAR(10 g) = 0.298 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 48.4%

Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.00 W/kg = 0.00 dBW/kg

Test Laboratory: JYTSZ

Date: 2025/4/29

DUT: Mobile Phone; Type: X6886; Serial: SZR012500142-2

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 711 \text{ MHz}$; $\sigma = 0.855 \text{ S/m}$; $\epsilon_r = 40.519$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.65, 10.65, 10.65) @ 711 MHz; Calibrated: 2025/1/15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 2024/12/31
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 12 1RB(10MHz) Left Cheek/High Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

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

LTE Band 12 1RB(10MHz) Left Cheek/High Channel/Zoom Scan

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

Reference Value = 9.656 V/m ; Power Drift = -0.08 dB

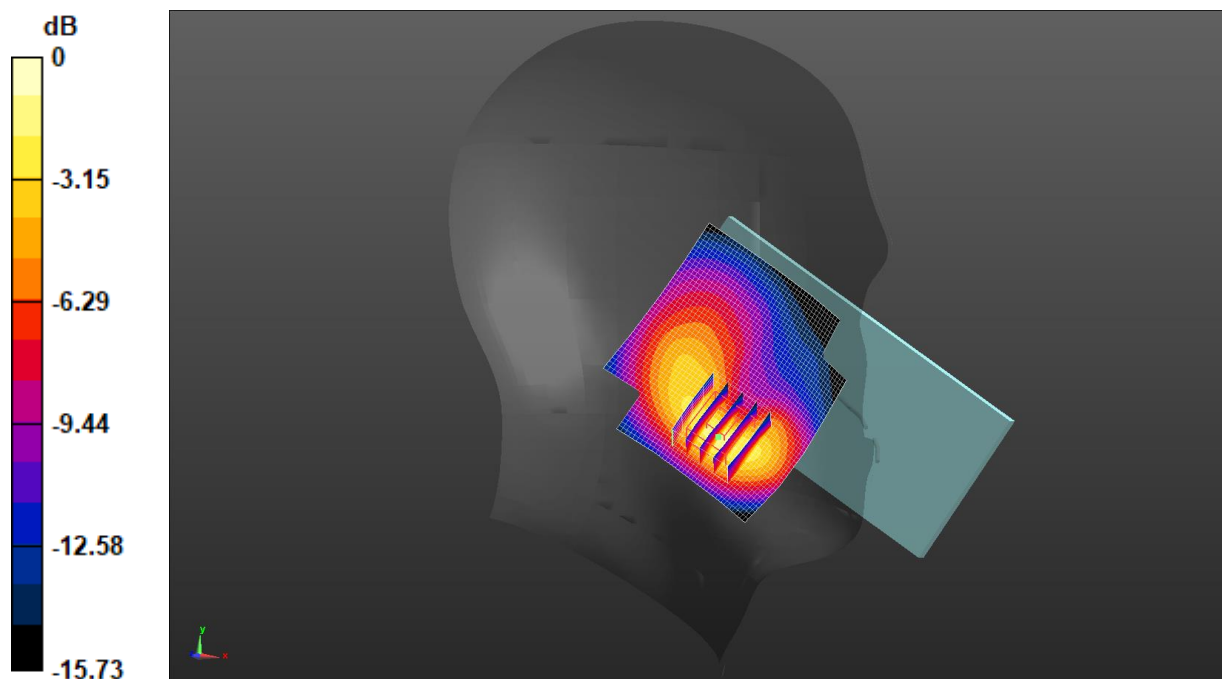
Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.369 W/kg ; SAR(10 g) = 0.197 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 45.4%

Maximum value of SAR (measured) = 0.582 W/kg



$0 \text{ dB} = 0.582 \text{ W/kg} = -2.35 \text{ dBW/kg}$