

TEST REPORT

Applicant: INFINIX MOBILITY LIMITED
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL
CENTRE 19-25 SHAN MEI STREET FOTAN NT
HONGKONG
Equipment Type: Mobile Phone
Model Name: X6840
Brand Name: Infinix
FCC ID 2AIZN-X6840
Test Standard: FCC 47 CFR Part 2.1093
(refer section 3.1)
Maximum SAR: Head (1 g@0mm): 0.80 W/kg
Body-worn (1 g@10mm): 0.48 W/kg
Hotspot (1 g@10mm): 0.51 W/kg
Specific (10 g@10mm): 0.43 W/kg
Sample Arrival Date: Nov. 26, 2025
Test Date: Dec. 01, 2025 - Dec.10, 2025
Date of Issue: Jan. 04, 2026

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center



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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jan. 04, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 29671.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

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

2.2 Manufacturer Information

Manufacturer	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	X6840
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment	Battery	
	Brand Name	Infinix
	Model No.	BL-51EX
	Serial No.	N/A
	Capacity	5100mAh
	Rated Voltage	3.85V
	Limit Charge Voltage	4.45V

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM850/1900 3G Network WCDMA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b,802.11g,802.11n HT20 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) 5.8G SRD,GPS,GLONASS, BDS, Galileo, SBAS, FM receiver
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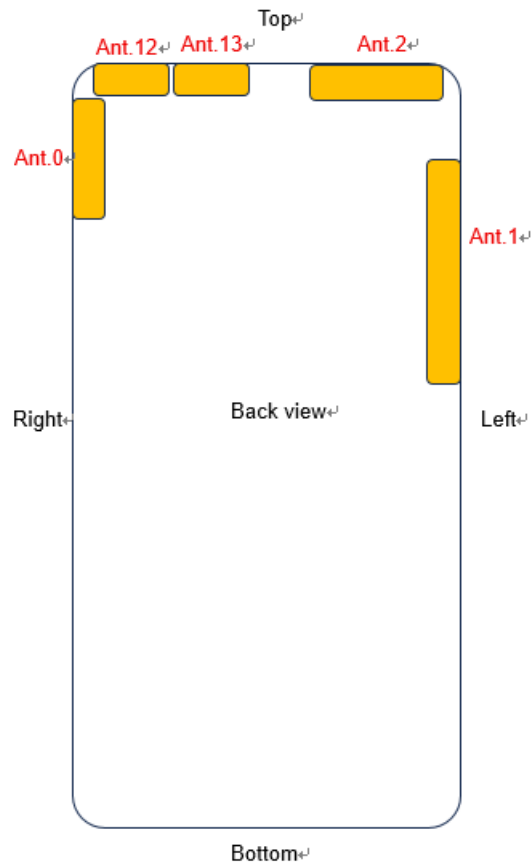
Note:

The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA and LTE, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, WIFI, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	2.4G WIFI	2412 ~ 2462 MHz	
	5G WIFI	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
5725 ~ 5850 MHz			
Bluetooth	2402 ~ 2480 MHz		
Antenna Type	WWAN: PIFA Antenna WIFI: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	N/A		
Hotspot Function	Support		
Power Reduction	Support		
Exposure Category	General Population/Uncontrolled exposure		
Product Type	Portable Device		
EUT Type	☒ Production unit	☐ Identical prototype	

2.6 Antenna Location



Antenna	Support Bands
Ant.0	Only RX
Ant.1	GSM 850/1900 WCDMA B2/B4/B5 LTE /B5//B7/B38/B41
Ant.2	GSM 850/1900 WCDMA B2/B4/B5 LTE B2/B4/B5//B7/B38/B41
Ant.12	BT/WIFI 2.4G
Ant.13	WIFI 5G

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
5	KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	KDB 941225 D05A v01r02	REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES
7	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
8	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	KDB 865664 D02 v01r02	RF Exposure Reporting
10	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
11	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. 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.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. 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.

3.3 Test Result Summary

3.3.1 Highest SAR Values

Equipment Class	Frequency Band	Maximum Scaled SAR				Maximum Report SAR (W/kg)			
		1 g(W/kg)			10 g(W/kg)	1 g(W/kg)			10 g(W/kg)
		Head	Body-worn	Hotspot	Specific	Head	Body-worn	Hotspot	Specific
		(Separation 0 mm)	(Separation 10 mm)	(Separation 10 mm)	(Separation 0 mm)	(Separation 0 mm)	(Separation 10 mm)	(Separation 10 mm)	(Separation 0 mm)
PCE	GSM 850	0.36	0.21	0.21	/	0.80	0.48	0.51	0.43
	GSM 1900	0.61	0.22	0.31	/				
	WCDMA B2	0.73	0.26	0.37	/				
	WCDMA B4	0.78	0.26	0.37	/				
	WCDMA B5	0.32	0.23	0.23	/				
	LTE B2	0.76	0.27	0.32	/				
	LTE B4	0.80	0.25	0.32	/				
	LTE B5	0.37	0.25	0.25	/				
	LTE B7	0.60	0.31	0.33	/				
	LTE B38	0.52	0.42	0.50	/				
	LTE B41	0.53	0.41	0.51	/				
DTS	2.4G WIFI	0.53	0.48	0.50	/				
NII	5G WIFI	0.68	0.19	0.31	0.43				
DSS	Bluetooth	0.06	0.03	0.03	/				
Limits (W/kg)		1.6			4	1.6			4
Test Verdict		Pass							

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)			
	Head 1g (0mm)	Body-worn 1g (10mm)	Hotspot 1g (10mm)	Specific 10g (0mm)
PCE	1.35	0.94	1.03	/
DTS	1.06	0.94	0.67	/
NII	1.35	0.63	1.03	/
DSS	1.35	0.94	1.03	/
Limit (W/kg)	1.60	1.60	1.60	4.00
Verdict	Pass			
Note: The highest simultaneous SAR please refer section 10				

3.4 Test Uncertainty

3.4.1 Measurement uncertainty evaluation for SAR test

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEC/IEEE 62209-1528. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1) System Measurement Uncertainty (Frequency range from 300 MHz to 3 GHz)

DASY5 Uncertainty Budget (Frequency band: 300 MHz - 3 GHz range)								
Symbol	Error Description	Uncert. value	Prob Dist.	Div	(c) 1g	(c) 10g	Std. Unc. (1g)	Std. Unc. (10g)
Measurement System Errors								
CF	Probe Calibration	$\pm 12.0\%$	N	2	1	1	$\pm 6.0\%$	$\pm 6.0\%$
CF _{drift}	Probe Calibration Drift	$\pm 1.0\%$	N	1	1	1	$\pm 1.0\%$	$\pm 1.0\%$
LIN	Probe Linearity	$\pm 4.7\%$	R	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$
BBS	Broadband Signal	$\pm 3.0\%$	N	2	1	1	$\pm 1.5\%$	$\pm 1.5\%$
ISO	Probe Isotropy	$\pm 7.6\%$	R	$\sqrt{3}$	1	1	$\pm 4.4\%$	$\pm 4.4\%$
DAE	Data Acquisition	$\pm 0.3\%$	N	1	1	1	$\pm 0.3\%$	$\pm 0.3\%$
AMB	RF Ambient	$\pm 1.8\%$	N	1	1	1	$\pm 1.8\%$	$\pm 1.8\%$
Δ_{sys}	Probe Positioning	$\pm 0.2\%$	N	1	0.1 4	0.14	$\pm 0\%$	$\pm 0\%$
DAT	Data Processing	$\pm 1.2\%$	N	1	1	1	$\pm 1.2\%$	$\pm 1.2\%$
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	$\pm 2.5\%$	N	1	0.7 8	0.71	$\pm 2.0\%$	$\pm 1.8\%$
LIQ(T_{σ})	Conductivity (temp.) ^{BB}	$\pm 3.3\%$	R	$\sqrt{3}$	0.7 8	0.71	$\pm 1.5\%$	$\pm 1.4\%$
EPS	Phantom Permittivity	$\pm 14.0\%$	R	$\sqrt{3}$	0	0	$\pm 0\%$	$\pm 0\%$
DAS	Distance DUT - TSL	$\pm 2.1\%$	N	1	2	2	$\pm 4.2\%$	$\pm 4.2\%$
H	Device Holder	$\pm 3.8\%$	N	1	1	1	$\pm 3.8\%$	$\pm 3.8\%$
MOD	DUT Modulation ^m	$\pm 2.4\%$	R	$\sqrt{3}$	1	1	$\pm 1.4\%$	$\pm 1.4\%$
TAS	Time-average SAR	$\pm 2.6\%$	R	$\sqrt{3}$	1	1	$\pm 1.5\%$	$\pm 1.5\%$
RF _{drift}	DUT drift	$\pm 5.0\%$	R	$\sqrt{3}$	1	1	$\pm 2.9\%$	$\pm 2.9\%$
Correction to the SAR results								
C(ϵ , σ)	Deviation to Target	$\pm 1.9\%$	N	1	1	0.84	$\pm 1.9\%$	$\pm 1.6\%$
C(R)	SAR scaling ^p	$\pm 0\%$	R	$\sqrt{3}$	1	1	$\pm 0\%$	$\pm 0\%$
u(ΔSAR)	Combined Uncertainty	/	/	/	/	/	$\pm 11.2\%$	$\pm 11.0\%$
U	Expanded Uncertainty	/	/	/	/	/	$\pm 22.3\%$	$\pm 22.2\%$

2) System Measurement Uncertainty (Frequency range from 3 GHz to 6 GHz)

DASY5 Uncertainty Budget (Frequency band: 3 GHz - 6 GHz range)								
Symbol	Error Description	Uncert. value	Prob. Dist.	Div	(ci) 1g	(ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)
Measurement System Errors								
CF	Probe Calibration	±14.0%	N	2	1	1	±7.0%	±7.0%
CF _{drift}	Probe Calibration Drift	±1.0%	N	1	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±3.0%	N	2	1	1	±1.5%	±1.5%
ISO	Probe Isotropy	±7.6%	R	√3	1	1	±4.4%	±4.4%
DAE	Data Acquisition	±0.3%	N	1	1	1	±0.3%	±0.3%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.2%	N	1	0.3 3	0.33	±0.1%	±0.1%
DAT	Data Processing	±2.3%	N	1	1	1	±2.3%	±2.3%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	±2.5%	N	1	0.7 8	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.) ^{BB}	±3.4%	R	√3	0.7 8	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	√3	0.2 5	0.25	±2.0%	±2.0%
DAS	Distance DUT - TSL	±2.1%	N	1	2	2	±4.2%	±4.2%
H	Device Holder	±3.8%	N	1	1	1	±3.8%	±3.8%
MOD	DUT Modulation ^m	±2.4%	R	√3	1	1	±1.4%	±1.4%
TAS	Time-average SAR	±2.6%	R	√3	1	1	±1.5%	±1.5%
RF _{drift}	DUT drift	±5.0%	R	√3	1	1	±2.9%	±2.9%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
C(R)	SAR scaling ^p	±0%	R	√3	1	1	±0%	±0%
u(ΔSAR)	Combined Uncertainty	/	/	/	/	/	±12.1%	±12.0%
U	Expanded Uncertainty	/	/	/	/	/	±24.2%	±24.0%

3.4.2 Measurement uncertainty evaluation for system check

This measurement uncertainty budget is suggested by IEC/IEEE 62209-1528. The breakdown of the individual uncertainties is as follows:

DASY5 Uncertainty Budget (Frequency band: 300 MHz - 6 GHz range)								
Symbol	Error Description	Uncert. value	Prob. Dist.	Div.	(c _i) 1g	(c _i) 10g	Std. Unc. (1g)	Std. Unc. (10g)
Measurement System Errors								
CF	Probe Calibration	±14.0%	N	2	1	1	±7.0%	±7.0%
CF _{drift}	Probe Calibration Drift	±1.0%	N	1	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±0.0%	N	2	1	1	±0.0%	±0.0%
ISO	Probe Isotropy	±7.6%	R	√3	1	1	±4.4%	±4.4%
DAE	Data Acquisition	±0.3%	N	1	1	1	±0.3%	±0.3%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.2%	N	1	0.33	0.33	±0%	±0%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.) ^{BB}	±3.4%	R	√3	0.78	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	√3	0.25	0.25	±2.0%	±2.0%
DAS	Distance DUT - TSL	±1.0%	N	1	2	2	±2.0%	±2.0%
VAL	Validation antenna	±0.0%	R	√3	1	1	±0.0%	±0.0%
P _{in}	Accepted power	±1.2%	N	1	1	1	±1.2%	±1.2%
RF _{drift}	DUT drift	±5.0%	R	√3	1	1	±2.9%	±2.9%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
u(ΔSAR)	Combined Uncertainty						±10.4%	±10.3%
U	Expanded Uncertainty						±20.7%	±20.5%

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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.

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:

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

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

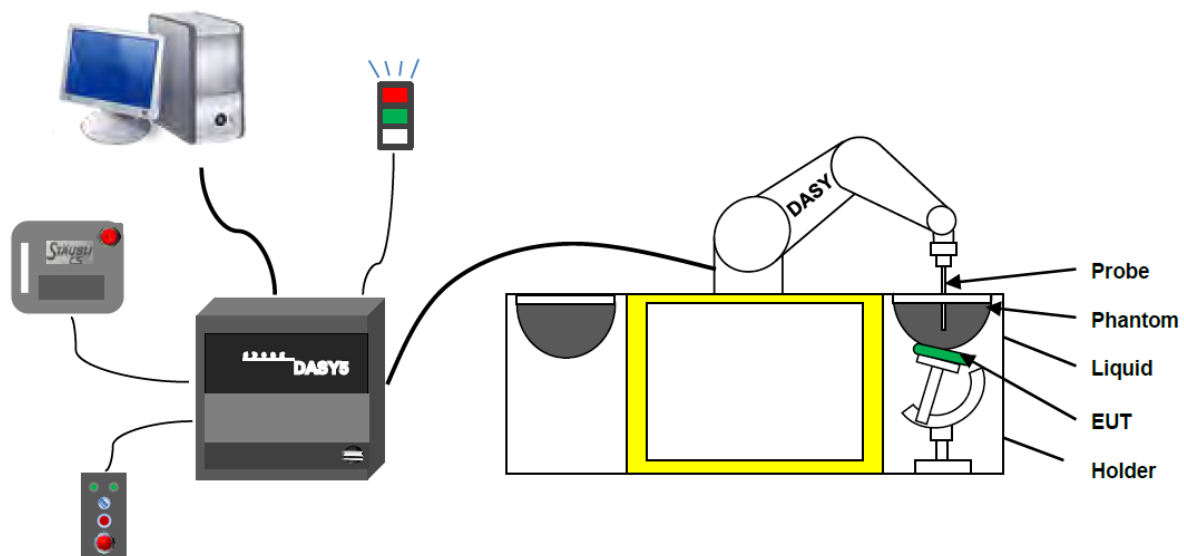
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram

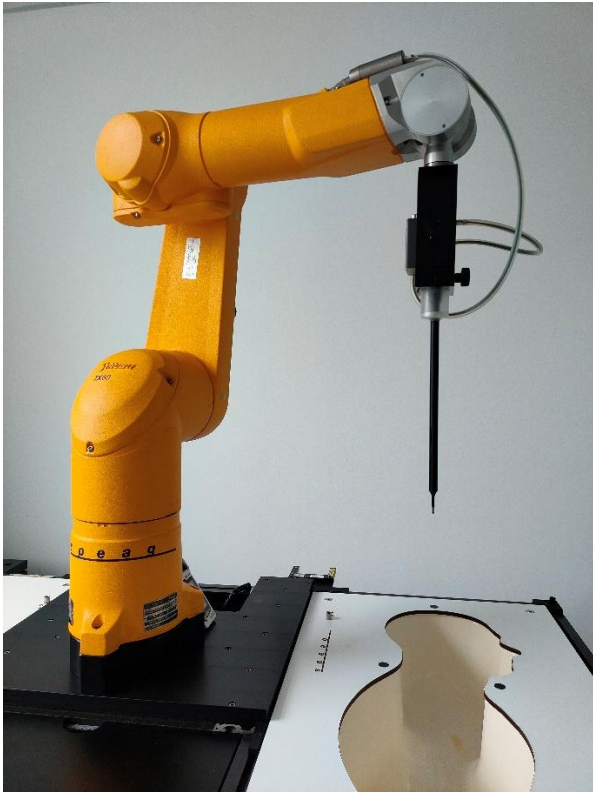


The DASY5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The 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; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz; Linearity: ± 0.2 dB
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

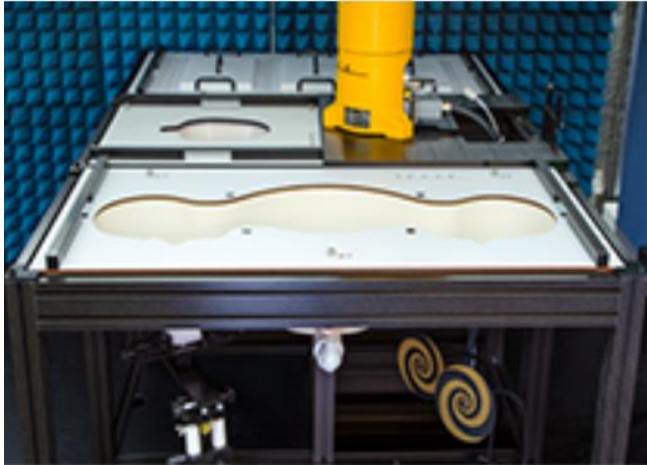
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200M Ω
- The Inputs: Symmetrical and Floating
- Common Mode Rejection: Above 80dB

4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left head
- Right head
- Flat phantom

Photo of Phantom SN1857



Serial Number	Material	Length	Height
SN 1857 SAM1	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . 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. This device holder is used for standard mobile phones or PDA's only. If necessary an additional support of polystyrene material is used. Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.

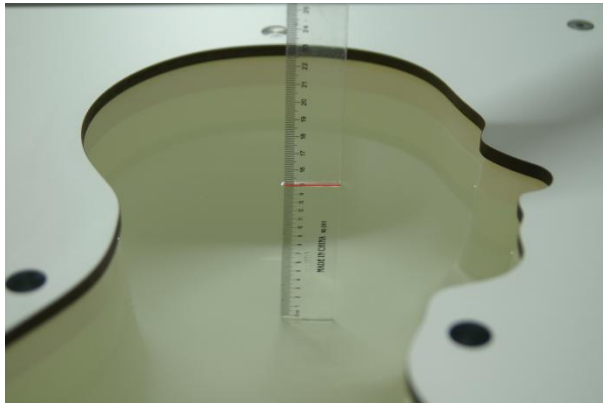


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1° .

4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. 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. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.

Head Liquid Depth



Body Liquid Depth



The following table gives the recipes for tissue simulating liquid.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

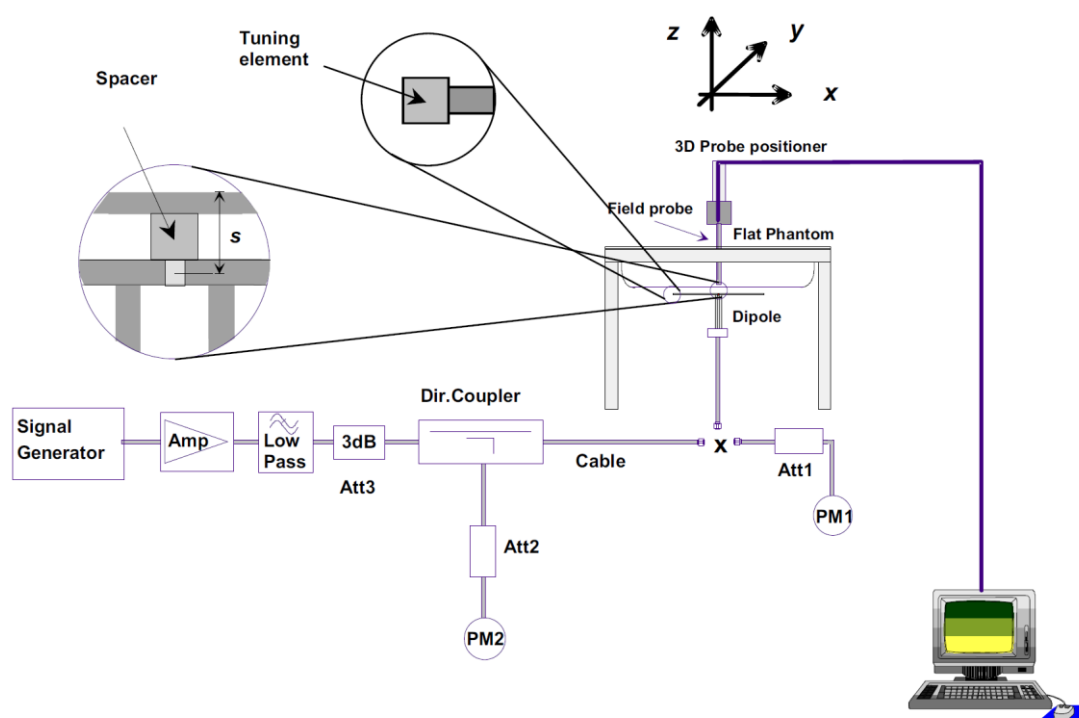
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

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.

5.2 System Check Setup

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:



6 TEST POSITION CONFIGURATIONS

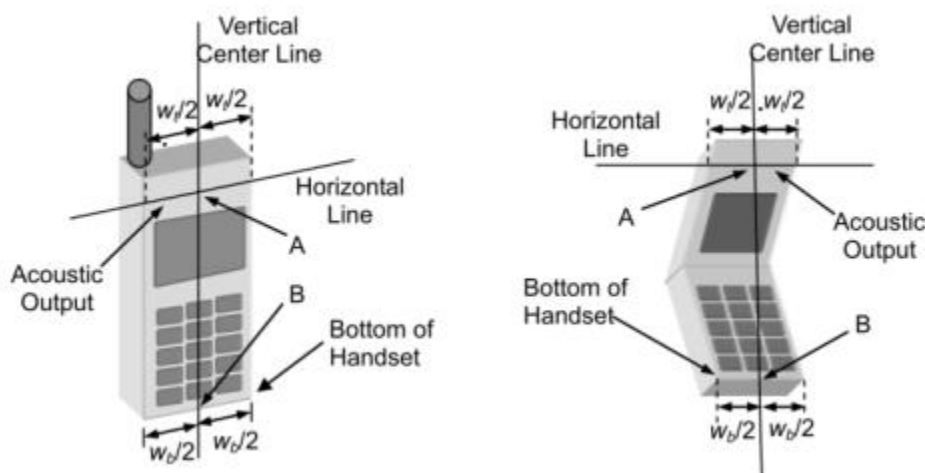
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

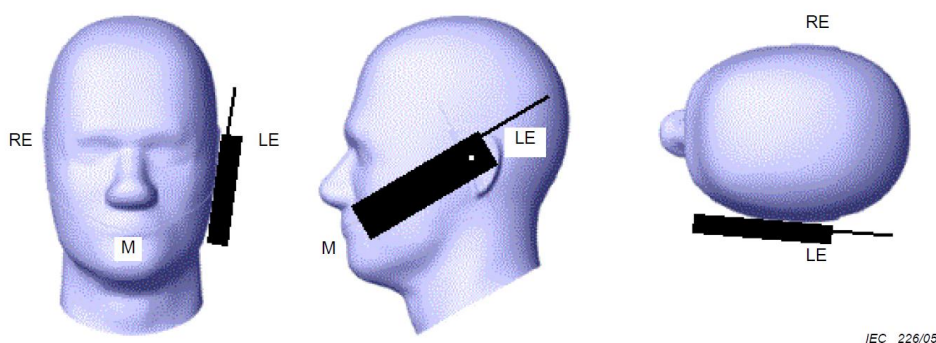
6.1.1 Two Imaginary Lines on the Handset

- The vertical center line 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 centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of 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 center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



6.1.2 Cheek Position

- (a) 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.
- (b) 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.



6.1.3 Tilted Position

- (a) To position the device in the “cheek” position described above.
- (b) 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.

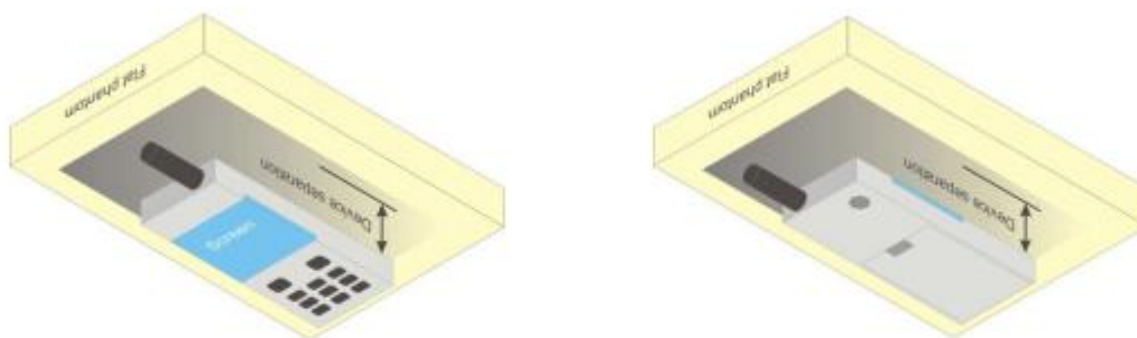


6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

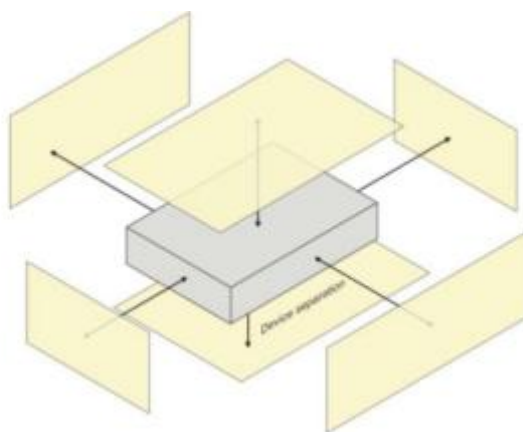
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 5 mm to support compliance.



6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



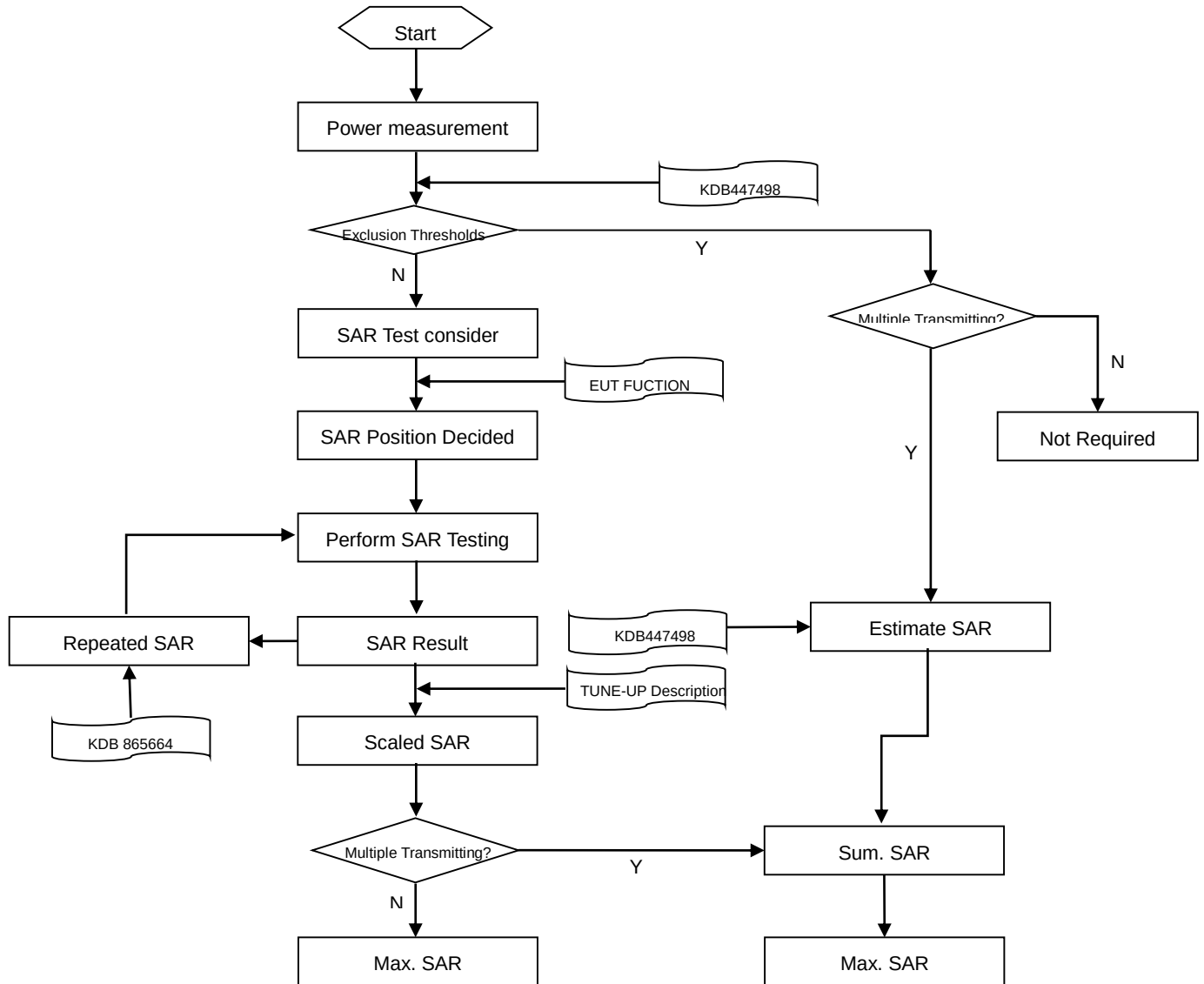
6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	½·δ·ln(2)±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 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
		Δz Zoom (n>1): between subsequent points	≤ 1.5·Δz Zoom (n-1)	
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:

1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

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 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

8 CONDUCTED RF OUPUT POWER

8.1 GSM

Please refer the document “BL-SH25B1334-AP.pdf”.

8.2 WCDMA

Please refer the document “BL-SH25B1334-AP.pdf”.

8.3 LTE

Please refer the document “BL-SH25B1334-AP.pdf”.

8.4 WIFI

8.4.1 2.4G WIFI ANT12-Full Power

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	16.77	18.00	No
		6	2437	16.91	18.00	Yes
		11	2462	16.80	18.00	No
	802.11g	1	2412	15.96	17.00	No
		6	2437	15.71	16.50	No
		11	2462	15.63	16.50	No
	802.11n(HT20)	1	2412	17.41	18.50	No
		6	2437	17.67	18.50	Yes
		11	2462	15.00	16.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.

8.4.2 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	14.80	16.00	No
		44	5220	15.07	16.00	No
		48	5240	15.66	16.50	No
	802.11n(HT20)	36	5180	16.88	18.00	No
		44	5220	16.55	17.50	No
		48	5240	16.94	18.00	Yes
	802.11n(HT40)	38	5190	15.19	16.00	No
		46	5230	16.59	17.50	No
	802.11ac(VHT20)	36	5180	15.58	16.50	No
		44	5220	14.95	16.00	No
		48	5240	15.38	16.50	No
	802.11ac(VHT40)	38	5190	15.35	16.00	No
		46	5230	15.07	16.00	No
	802.11ac(VHT80)	42	5210	15.82	17.00	No

5.3 (5.25~5.35)	802.11a	52	5260	13.20	14.00	No
		60	5300	13.05	14.00	No
		64	5320	13.18	14.00	No
	802.11n(HT20)	52	5260	14.71	15.50	Yes
		60	5300	14.57	15.50	No
		64	5320	13.07	14.00	No
	802.11n(HT40)	54	5270	14.50	15.00	No
		62	5310	10.44	11.00	No
	802.11ac(VHT20)	52	5260	12.73	13.50	No
		60	5300	12.95	14.00	No
		64	5320	12.59	13.50	No
	802.11ac(VHT40)	54	5270	13.03	14.00	No
		62	5310	12.62	13.50	No
	802.11ac(VHT80)	58	5290	11.03	12.00	Yes
5.6 (5.47~5.725)	802.11a	100	5500	12.19	13.00	No
		116	5580	13.01	14.00	No
		140	5700	6.69	7.50	No
	802.11n(HT20)	100	5500	10.62	11.50	No
		116	5580	13.89	15.00	No
		140	5700	8.69	9.50	No
	802.11n(HT40)	102	5510	8.90	10.00	No
		118	5590	14.22	15.00	Yes
		134	5670	12.10	13.00	No
	802.11ac(VHT20)	100	5500	13.77	15.00	No
		116	5580	13.73	14.50	No
		140	5700	13.16	14.00	No
	802.11ac(VHT40)	102	5510	13.93	15.00	No
		118	5590	13.65	14.50	No
		134	5670	14.13	15.00	No
	802.11ac(VHT80)	106	5530	13.94	14.50	No
		122	5690	14.15	14.50	No
5.8 (5.725~5.850)	802.11a	149	5745	13.30	14.00	No
		157	5785	12.41	13.00	No
		165	5825	12.74	13.50	No
	802.11n(HT20)	149	5745	14.23	15.00	Yes
		157	5785	13.93	14.50	No
		165	5825	13.70	14.50	No
	802.11n(HT40)	151	5755	14.08	15.00	No
		159	5795	14.19	15.00	No

	802.11ac(VHT20)	149	5745	14.26	15.00	No
		157	5785	13.90	14.50	No
		165	5825	13.28	14.00	No
	802.11ac(VHT40)	151	5755	14.09	15.00	No
		159	5795	14.10	15.00	No
	802.11ac(VHT80)	155	5775	13.06	14.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
- 2) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.
- 3) When multiple transmission modes (802.11a/g/n/ac) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac.

8.5 Bluetooth

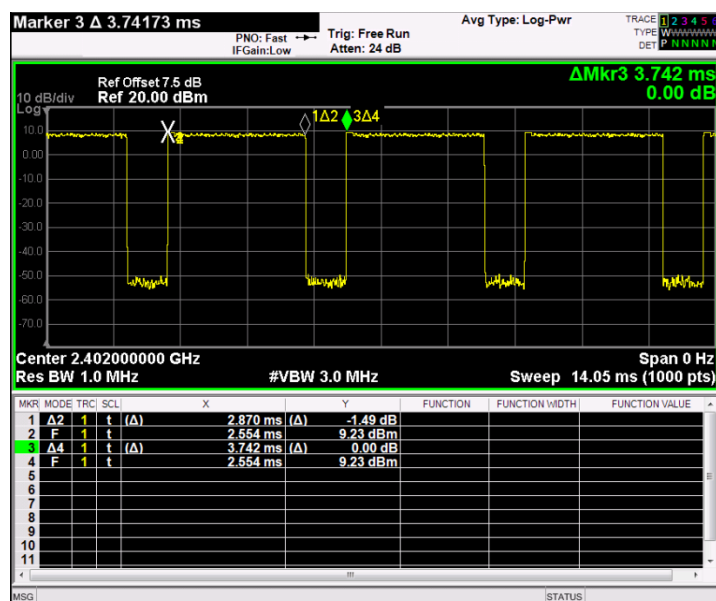
8.5.1 Bluetooth

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conduct Power (dBm)	10.15	11.36	12.16	9.39	10.80	12.12
Tune-Up Limit (dBm)	11.00	12.00	12.50	10.50	12.00	12.50
SAR Test Require	NO	NO	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conduct Power (dBm)	9.55	10.71	12.79	/	/	/
Tune-Up Limit (dBm)	10.50	11.50	13.00	/	/	/
SAR Test Require	NO	NO	Yes	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Conduct Power (dBm)	3.92	3.50	3.30	3.35	3.50	3.44
Tune-Up Limit (dBm)	4.50	4.50	4.50	4.50	4.50	4.50
SAR Test Require	NO	NO	NO	NO	NO	NO

Note 1: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

Note: The Bluetooth duty cycle is 76.70% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle



9 TEST RESULT

Note: Refer to ANNEX C for the detailed test data for each test configuration.

9.1 GSM 850

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
Ant.1	GPRS 4TX	Left cheek	0	190	836.6	-0.14	0.065	29.03	29.50	1.114	0.072	
		Left tilt		190	836.6	0.11	0.032	29.03	29.50	1.114	0.036	
		Right cheek		190	836.6	0.05	0.099	29.03	29.50	1.114	0.110	
		Right tilt		190	836.6	0.12	0.021	29.03	29.50	1.114	0.023	
Ant.2	GPRS 4TX	Left cheek	0	190	836.6	0.19	0.236	28.55	29.50	1.245	0.294	
		Left tilt		190	836.6	0.12	0.220	28.55	29.50	1.245	0.274	
		Right cheek		190	836.6	0.19	0.287	28.55	29.50	1.245	0.357	1
		Right tilt		190	836.6	-0.07	0.188	28.55	29.50	1.245	0.234	
Body-worn& Hotspot												
Ant.1	GPRS 4TX	Front side	10	190	836.6	0.19	0.049	29.03	29.50	1.114	0.055	
		Back side		190	836.6	0.14	0.191	29.03	29.50	1.114	0.213	2
		Left side		190	836.6	-0.17	0.102	29.03	29.50	1.114	0.114	
		Right side		190	836.6	0.13	0.030	29.03	29.50	1.114	0.033	
		Top side		190	836.6	0.13	0.025	29.03	29.50	1.114	0.028	
		Bottom side		190	836.6	-0.11	0.035	29.03	29.50	1.114	0.039	
Ant.2	GPRS 4TX	Front side	10	190	836.6	0.12	0.047	28.55	29.50	1.245	0.058	
		Back side		190	836.6	-0.1	0.080	28.55	29.50	1.245	0.100	
		Left side		190	836.6	0.03	0.036	28.55	29.50	1.245	0.045	
		Right side		190	836.6	0.04	0.028	28.55	29.50	1.245	0.035	
		Top side		190	836.6	0.08	0.063	28.55	29.50	1.245	0.078	
		Bottom side		190	836.6	0.08	0.027	28.55	29.50	1.245	0.034	
		Front side		190	836.6	-0.14	0.065	29.03	29.50	1.114	0.072	

9.2 GSM 1900

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
Ant.1	GPRS 3TX	Left cheek	0	661	1880	0.05	0.035	26.75	27.50	1.189	0.042	
		Left tilt		661	1880	0.04	0.024	26.75	27.50	1.189	0.029	

		Right cheek		661	1880	0.1	0.018	26.75	27.50	1.189	0.021	
		Right tilt		661	1880	0.11	0.013	26.75	27.50	1.189	0.015	
Ant.2	GPRS 3TX	Left cheek	0	661	1880	0.04	0.263	26.98	28.00	1.265	0.333	
		Left tilt		661	1880	-0.09	0.300	26.98	28.00	1.265	0.379	
		Right cheek		661	1880	0.18	0.314	26.98	28.00	1.265	0.397	
		Right tilt		661	1880	0.15	0.478	26.98	28.00	1.265	0.605	3
Body-worn& Hotspot												
Ant.1	GPRS 3TX	Front side	10	661	1880	0.13	0.035	26.75	27.50	1.189	0.042	
		Back side		661	1880	0.1	0.040	26.75	27.50	1.189	0.048	
		Left side		661	1880	-0.19	0.050	26.75	27.50	1.189	0.059	
		Right side		661	1880	-0.18	0.030	26.75	27.50	1.189	0.036	
		Top side		661	1880	-0.07	0.025	26.75	27.50	1.189	0.030	
		Bottom side		661	1880	0.01	0.018	26.75	27.50	1.189	0.021	
Ant.2	GPRS 3TX	Front side	10	661	1880	-0.13	0.106	26.98	28.00	1.265	0.134	
		Back side		661	1880	-0.07	0.174	26.98	28.00	1.265	0.220	
		Left side		661	1880	-0.05	0.041	26.98	28.00	1.265	0.052	
		Right side		661	1880	-0.02	0.031	26.98	28.00	1.265	0.039	
		Top side		661	1880	0.12	0.241	26.98	28.00	1.265	0.305	4
		Bottom side		661	1880	-0.01	0.026	26.98	28.00	1.265	0.033	

9.3 WCDMA Band 2

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
Ant.1	RMC	Left cheek	0	9400	1880	0.16	0.036	13.68	14.50	1.208	0.043	
		Left tilt		9400	1880	-0.19	0.027	13.68	14.50	1.208	0.033	
		Right cheek		9400	1880	0.12	0.021	13.68	14.50	1.208	0.025	
		Right tilt		9400	1880	0.04	0.014	13.68	14.50	1.208	0.017	
Ant.2	RMC	Left cheek	0	9400	1880	-0.05	0.257	13.81	14.50	1.172	0.301	
		Left tilt		9400	1880	-0.02	0.311	13.81	14.50	1.172	0.365	
		Right cheek		9400	1880	0.03	0.339	13.81	14.50	1.172	0.397	
		Right tilt		9400	1880	0.04	0.622	13.81	14.50	1.172	0.729	5
Body-worn& Hotspot												
Ant.1	RMC	Front side	10	9400	1880	0.14	0.028	13.68	14.50	1.208	0.034	
		Back side		9400	1880	0.13	0.033	13.68	14.50	1.208	0.040	
		Left side		9400	1880	-0.07	0.040	13.68	14.50	1.208	0.048	
		Right side		9400	1880	0.17	0.026	13.68	14.50	1.208	0.031	
		Top side		9400	1880	-0.1	0.020	13.68	14.50	1.208	0.024	
		Bottom side		9400	1880	0.18	0.021	13.68	14.50	1.208	0.025	
Ant.2	RMC	Front side	10	9400	1880	0.06	0.124	13.81	14.50	1.172	0.145	
		Back side		9400	1880	-0.02	0.222	13.81	14.50	1.172	0.260	

		Left side		9400	1880	0.06	0.039	13.81	14.50	1.172	0.046	6
		Right side		9400	1880	0.19	0.031	13.81	14.50	1.172	0.036	
		Top side		9400	1880	0.13	0.312	13.81	14.50	1.172	0.366	
		Bottom side		9400	1880	-0.17	0.026	13.81	14.50	1.172	0.030	

9.4 WCDMA Band 4

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
Ant.1	RMC	Left cheek	0	1413	1638	0.07	0.033	14.91	16.00	1.285	0.042	
		Left tilt		1413	1638	0.05	0.029	14.91	16.00	1.285	0.037	
		Right cheek		1413	1638	0.13	0.027	14.91	16.00	1.285	0.035	
		Right tilt		1413	1638	0.03	0.018	14.91	16.00	1.285	0.023	
Ant.2	RMC	Left cheek	0	1413	1638	0.11	0.305	14.96	16.00	1.271	0.388	
		Left tilt		1413	1638	-0.09	0.360	14.96	16.00	1.271	0.457	
		Right cheek		1413	1638	0.12	0.450	14.96	16.00	1.271	0.572	
		Right tilt		1413	1638	0.02	0.610	14.96	16.00	1.271	0.775	7
Body-worn& Hotspot												
Ant.1	RMC	Front side	10	1413	1638	-0.03	0.030	14.91	16.00	1.285	0.039	
		Back side		1413	1638	0.17	0.033	14.91	16.00	1.285	0.042	
		Left side		1413	1638	-0.12	0.048	14.91	16.00	1.285	0.062	
		Right side		1413	1638	-0.03	0.021	14.91	16.00	1.285	0.027	
		Top side		1413	1638	-0.15	0.029	14.91	16.00	1.285	0.037	
		Bottom side		1413	1638	-0.18	0.020	14.91	16.00	1.285	0.026	
Ant.2	RMC	Front side	10	1413	1638	-0.19	0.144	14.96	16.00	1.271	0.183	
		Back side		1413	1638	-0.07	0.203	14.96	16.00	1.271	0.258	
		Left side		1413	1638	-0.12	0.038	14.96	16.00	1.271	0.048	
		Right side		1413	1638	0.03	0.034	14.96	16.00	1.271	0.043	
		Top side		1413	1638	0.09	0.293	14.96	16.00	1.271	0.372	8
		Bottom side		1413	1638	0.18	0.028	14.96	16.00	1.271	0.036	

9.5 WCDMA Band 5

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
Ant.1	RMC	Left cheek	0	4182	836.4	-0.02	0.079	18.67	19.50	1.211	0.096	
		Left tilt		4182	836.4	-0.06	0.021	18.67	19.50	1.211	0.025	
		Right cheek		4182	836.4	-0.05	0.064	18.67	19.50	1.211	0.077	
		Right tilt		4182	836.4	0.13	0.018	18.67	19.50	1.211	0.022	
Ant.2	RMC	Left cheek	0	4182	836.4	0.05	0.250	18.97	20.00	1.268	0.317	9
		Left tilt		4182	836.4	0.02	0.232	18.97	20.00	1.268	0.294	
		Right cheek		4182	836.4	0.19	0.220	18.97	20.00	1.268	0.279	
		Right tilt		4182	836.4	0.16	0.182	18.97	20.00	1.268	0.231	
Body-worn& Hotspot												
Ant.1	RMC	Front side	10	4182	836.4	-0.11	0.053	18.67	19.50	1.211	0.064	
		Back side		4182	836.4	-0.18	0.191	18.67	19.50	1.211	0.231	10
		Left side		4182	836.4	0.15	0.108	18.67	19.50	1.211	0.131	
		Right side		4182	836.4	-0.02	0.036	18.67	19.50	1.211	0.044	
		Top side		4182	836.4	0.07	0.040	18.67	19.50	1.211	0.048	
		Bottom side		4182	836.4	0.13	0.020	18.67	19.50	1.211	0.024	
Ant.2	RMC	Front side	10	4182	836.4	-0.12	0.062	18.97	20.00	1.268	0.079	
		Back side		4182	836.4	0.07	0.109	18.97	20.00	1.268	0.138	
		Left side		4182	836.4	0.14	0.039	18.97	20.00	1.268	0.049	
		Right side		4182	836.4	0.14	0.030	18.97	20.00	1.268	0.038	
		Top side		4182	836.4	0.03	0.095	18.97	20.00	1.268	0.120	
		Bottom side		4182	836.4	0.07	0.029	18.97	20.00	1.268	0.037	

9.6 LTE Band 2 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/ kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.2	QPSK	Left cheek	0	18900	1880	1	0	0.01	0.251	14.15	15.00	1.216	0.305	
		Left tilt		18900	1880	1	0	-0.14	0.307	14.15	15.00	1.216	0.373	
		Right cheek		18900	1880	1	0	-0.12	0.300	14.15	15.00	1.216	0.365	
		Right tilt		18900	1880	1	0	-0.11	0.622	14.15	15.00	1.216	0.756	11
		Left cheek		18900	1880	50	0	0.04	0.216	13.06	14.00	1.242	0.268	
		Left tilt		18900	1880	50	0	0.02	0.262	13.06	14.00	1.242	0.325	
		Right cheek		18900	1880	50	0	-0.15	0.292	13.06	14.00	1.242	0.363	

		Right tilt		18900	1880	50	0	0.17	0.349	13.06	14.00	1.242	0.433	
Body-worn& Hotspot														
Ant.2	QPSK	Front side	10	18900	1880	1	0	-0.13	0.119	14.15	15.00	1.216	0.145	
		Back side		18900	1880	1	0	0.03	0.224	14.15	15.00	1.216	0.272	
		Left side		18900	1880	1	0	0.09	0.040	14.15	15.00	1.216	0.049	
		Right side		18900	1880	1	0	-0.13	0.036	14.15	15.00	1.216	0.044	
		Top side		18900	1880	1	0	-0.12	0.263	14.15	15.00	1.216	0.320	12
		Bottom side		18900	1880	1	0	0.17	0.028	14.15	15.00	1.216	0.034	
		Front side		18900	1880	50	0	0.1	0.108	13.06	14.00	1.242	0.134	
		Back side		18900	1880	50	0	-0.16	0.189	13.06	14.00	1.242	0.235	
		Left side		18900	1880	50	0	-0.07	0.038	13.06	14.00	1.242	0.047	
		Right side		18900	1880	50	0	0.05	0.031	13.06	14.00	1.242	0.038	
		Top side		18900	1880	50	0	-0.14	0.222	13.06	14.00	1.242	0.276	
		Bottom side		18900	1880	50	0	0.06	0.024	13.06	14.00	1.242	0.030	

9.7 LTE Band 4 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/ kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.2	QPSK	Left cheek	0	20175	1732.5	1	0	-0.06	0.312	15.55	16.50	1.245	0.388	
		Left tilt		20175	1732.5	1	0	-0.02	0.376	15.55	16.50	1.245	0.468	
		Right cheek		20175	1732.5	1	0	-0.08	0.385	15.55	16.50	1.245	0.479	
		Right tilt		20175	1732.5	1	0	0.12	0.643	15.55	16.50	1.245	0.800	13
		Right tilt		20050	1720	1	0	0.03	0.618	15.49	16.50	1.262	0.780	
		Right tilt		20300	1745	1	0	0.06	0.621	15.41	16.50	1.285	0.798	
		Left cheek		20175	1732.5	50	0	0.18	0.273	14.46	15.50	1.271	0.347	
		Left tilt		20175	1732.5	50	0	-0.02	0.327	14.46	15.50	1.271	0.415	
		Right cheek		20175	1732.5	50	0	-0.05	0.375	14.46	15.50	1.271	0.476	
		Right tilt		20175	1732.5	50	0	0.12	0.400	14.46	15.50	1.271	0.508	
Body-worn& Hotspot														
Ant.2	QPSK	Front side	10	20175	1732.5	1	0	-0.16	0.146	15.55	16.50	1.245	0.182	
		Back side		20175	1732.5	1	0	-0.05	0.198	15.55	16.50	1.245	0.246	
		Left side		20175	1732.5	1	0	-0.16	0.039	15.55	16.50	1.245	0.049	
		Right side		20175	1732.5	1	0	-0.03	0.032	15.55	16.50	1.245	0.040	
		Top side		20175	1732.5	1	0	0.01	0.261	15.55	16.50	1.245	0.325	14
		Bottom side		20175	1732.5	1	0	0.09	0.030	15.55	16.50	1.245	0.037	
		Front side		20175	1732.5	50	0	0.13	0.135	14.46	15.50	1.271	0.172	
		Back side		20175	1732.5	50	0	0.09	0.174	14.46	15.50	1.271	0.221	
		Left side		20175	1732.5	50	0	0.19	0.036	14.46	15.50	1.271	0.046	
		Right side		20175	1732.5	50	0	-0.04	0.030	14.46	15.50	1.271	0.038	

		Top side		20175	1732.5	50	0	0.06	0.223	14.46	15.50	1.271	0.283	
		Bottom side		20175	1732.5	50	0	-0.15	0.026	14.46	15.50	1.271	0.033	

9.8 LTE Band 5 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/ kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.1	QPSK	Left cheek	0	20525	836.5	1	0	-0.17	0.085	19.74	20.50	1.191	0.101	
		Left tilt		20525	836.5	1	0	0.06	0.041	19.74	20.50	1.191	0.049	
		Right cheek		20525	836.5	1	0	-0.04	0.062	19.74	20.50	1.191	0.074	
		Right tilt		20525	836.5	1	0	-0.14	0.037	19.74	20.50	1.191	0.044	
		Left cheek		20525	836.5	25	0	-0.13	0.072	18.65	19.50	1.216	0.088	
		Left tilt		20525	836.5	25	0	0.08	0.032	18.65	19.50	1.216	0.039	
		Right cheek		20525	836.5	25	0	0.16	0.060	18.65	19.50	1.216	0.073	
		Right tilt		20525	836.5	25	0	0.19	0.036	18.65	19.50	1.216	0.044	
Ant.2	QPSK	Left cheek	0	20525	836.5	1	0	0.04	0.292	19.99	21.00	1.262	0.368	15
		Left tilt		20525	836.5	1	0	-0.14	0.271	19.99	21.00	1.262	0.342	
		Right cheek		20525	836.5	1	0	-0.18	0.275	19.99	21.00	1.262	0.347	
		Right tilt		20525	836.5	1	0	-0.04	0.206	19.99	21.00	1.262	0.260	
		Left cheek		20525	836.5	25	0	0.01	0.262	18.86	20.00	1.300	0.341	
		Left tilt		20525	836.5	25	0	0.17	0.278	18.86	20.00	1.300	0.361	
		Right cheek		20525	836.5	25	0	-0.09	0.270	18.86	20.00	1.300	0.351	
		Right tilt		20525	836.5	25	0	-0.02	0.200	18.86	20.00	1.300	0.260	
Body-worn& Hotspot														
Ant.1	QPSK	Front side	10	20525	836.5	1	0	0.09	0.060	19.74	20.50	1.191	0.071	
		Back side		20525	836.5	1	0	0.06	0.208	19.74	20.50	1.191	0.248	16
		Left side		20525	836.5	1	0	0.02	0.132	19.74	20.50	1.191	0.157	
		Right side		20525	836.5	1	0	-0.1	0.032	19.74	20.50	1.191	0.038	
		Top side		20525	836.5	1	0	0.04	0.030	19.74	20.50	1.191	0.036	
		Bottom side		20525	836.5	1	0	-0.02	0.020	19.74	20.50	1.191	0.024	
		Front side		20525	836.5	25	0	-0.07	0.051	18.65	19.50	1.216	0.062	
		Back side		20525	836.5	25	0	-0.18	0.152	18.65	19.50	1.216	0.185	
		Left side		20525	836.5	25	0	0.02	0.105	18.65	19.50	1.216	0.128	
		Right side		20525	836.5	25	0	0.01	0.030	18.65	19.50	1.216	0.036	
		Top side		20525	836.5	25	0	0.19	0.028	18.65	19.50	1.216	0.034	
		Bottom side		20525	836.5	25	0	-0.12	0.015	18.65	19.50	1.216	0.018	
Ant.2	QPSK	Front side	10	20525	836.5	1	0	0.14	0.073	19.99	21.00	1.262	0.092	
		Back side		20525	836.5	1	0	-0.03	0.115	19.99	21.00	1.262	0.145	
		Left side		20525	836.5	1	0	0.04	0.039	19.99	21.00	1.262	0.049	
		Right side		20525	836.5	1	0	-0.08	0.031	19.99	21.00	1.262	0.039	

		Top side		20525	836.5	1	0	-0.06	0.107	19.99	21.00	1.262	0.135	
		Bottom side		20525	836.5	1	0	0.06	0.029	19.99	21.00	1.262	0.037	
		Front side		20525	836.5	25	0	-0.17	0.061	18.86	20.00	1.300	0.079	
		Back side		20525	836.5	25	0	0.06	0.110	18.86	20.00	1.300	0.143	
		Left side		20525	836.5	25	0	-0.04	0.034	18.86	20.00	1.300	0.044	
		Right side		20525	836.5	25	0	0.16	0.030	18.86	20.00	1.300	0.039	
		Top side		20525	836.5	25	0	-0.17	0.096	18.86	20.00	1.300	0.125	
		Bottom side		20525	836.5	25	0	-0.15	0.026	18.86	20.00	1.300	0.034	

9.9 LTE Band 7 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/ kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.1	QPSK	Left cheek	0	21100	2535	1	0	0.09	0.202	15.15	16.00	1.216	0.246	
		Left tilt		21100	2535	1	0	-0.07	0.046	15.15	16.00	1.216	0.056	
		Right cheek		21100	2535	1	0	0.11	0.136	15.15	16.00	1.216	0.165	
		Right tilt		21100	2535	1	0	-0.02	0.029	15.15	16.00	1.216	0.035	
		Left cheek		21100	2535	50	0	0.05	0.187	14.09	15.00	1.233	0.231	
		Left tilt		21100	2535	50	0	-0.19	0.041	14.09	15.00	1.233	0.051	
		Right cheek		21100	2535	50	0	0.11	0.131	14.09	15.00	1.233	0.162	
		Right tilt		21100	2535	50	0	-0.18	0.028	14.09	15.00	1.233	0.035	
Ant.2	QPSK	Left cheek	0	21100	2535	1	0	-0.08	0.165	15.55	16.50	1.245	0.205	
		Left tilt		21100	2535	1	0	-0.06	0.212	15.55	16.50	1.245	0.264	
		Right cheek		21100	2535	1	0	-0.19	0.335	15.55	16.50	1.245	0.417	
		Right tilt		21100	2535	1	0	-0.19	0.485	15.55	16.50	1.245	0.604	17
		Left cheek		21100	2535	50	0	-0.07	0.145	14.49	15.50	1.262	0.183	
		Left tilt		21100	2535	50	0	0.16	0.181	14.49	15.50	1.262	0.228	
		Right cheek		21100	2535	50	0	-0.17	0.285	14.49	15.50	1.262	0.360	
		Right tilt		21100	2535	50	0	-0.11	0.303	14.49	15.50	1.262	0.382	
Body-worn& Hotspot														
Ant.1	QPSK	Front side	10	21100	2535	1	0	0.08	0.074	15.15	16.00	1.216	0.090	
		Back side		21100	2535	1	0	0.1	0.254	15.15	16.00	1.216	0.309	
		Left side		21100	2535	1	0	0.02	0.270	15.15	16.00	1.216	0.328	18
		Right side		21100	2535	1	0	-0.13	0.040	15.15	16.00	1.216	0.049	
		Top side		21100	2535	1	0	0.17	0.045	15.15	16.00	1.216	0.055	
		Bottom side		21100	2535	1	0	0.11	0.030	15.15	16.00	1.216	0.036	
		Front side		21100	2535	50	0	-0.1	0.071	14.09	15.00	1.233	0.088	
		Back side		21100	2535	50	0	0.03	0.230	14.09	15.00	1.233	0.284	
Ant.2	QPSK	Left side	10	21100	2535	50	0	-0.15	0.265	14.09	15.00	1.233	0.327	
		Right side		21100	2535	50	0	-0.14	0.036	14.09	15.00	1.233	0.044	

		Top side		21100	2535	50	0	0.11	0.032	14.09	15.00	1.233	0.039	
		Bottom side		21100	2535	50	0	0.08	0.020	14.09	15.00	1.233	0.025	
		Front side		21100	2535	1	0	-0.16	0.111	15.55	16.50	1.245	0.138	
		Back side		21100	2535	1	0	0.05	0.240	15.55	16.50	1.245	0.299	
		Left side		21100	2535	1	0	0.09	0.081	15.55	16.50	1.245	0.101	
		Right side		21100	2535	1	0	-0.12	0.036	15.55	16.50	1.245	0.045	

9.10LTE Band 38 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/ kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.1	QPSK	Left cheek	0	38000	2595	1	0	-0.02	0.229	16.66	17.50	1.213	0.278	
		Left tilt		38000	2595	1	0	-0.13	0.044	16.66	17.50	1.213	0.053	
		Right cheek		38000	2595	1	0	-0.05	0.167	16.66	17.50	1.213	0.203	
		Right tilt		38000	2595	1	0	0.11	0.045	16.66	17.50	1.213	0.055	
		Left cheek		38000	2595	50	0	0.11	0.194	15.52	16.50	1.253	0.243	
		Left tilt		38000	2595	50	0	0.11	0.038	15.52	16.50	1.253	0.048	
		Right cheek		38000	2595	50	0	-0.01	0.161	15.52	16.50	1.253	0.202	
		Right tilt		38000	2595	50	0	0.07	0.043	15.52	16.50	1.253	0.054	
Ant.2	QPSK	Left cheek	0	38000	2595	1	0	0.09	0.146	17.18	18.00	1.208	0.176	
		Left tilt		38000	2595	1	0	-0.14	0.197	17.18	18.00	1.208	0.238	
		Right cheek		38000	2595	1	0	-0.06	0.227	17.18	18.00	1.208	0.274	
		Right tilt		38000	2595	1	0	0.16	0.428	17.18	18.00	1.208	0.517	19
		Left cheek		38000	2595	50	0	0.03	0.130	16.11	17.00	1.227	0.160	
		Left tilt		38000	2595	50	0	-0.05	0.152	16.11	17.00	1.227	0.187	
		Right cheek		38000	2595	50	0	0.04	0.221	16.11	17.00	1.227	0.271	
		Right tilt		38000	2595	50	0	0.07	0.259	16.11	17.00	1.227	0.318	
Body-worn& Hotspot														
Ant.1	QPSK	Front side	10	38000	2595	1	0	0.13	0.116	16.66	17.50	1.213	0.141	
		Back side		38000	2595	1	0	-0.1	0.347	16.66	17.50	1.213	0.421	
		Left side		38000	2595	1	0	0.07	0.409	16.66	17.50	1.213	0.496	20
		Right side		38000	2595	1	0	-0.13	0.038	16.66	17.50	1.213	0.046	
		Top side		38000	2595	1	0	0.11	0.040	16.66	17.50	1.213	0.049	
		Bottom side		38000	2595	1	0	-0.08	0.030	16.66	17.50	1.213	0.036	
		Front side		38000	2595	50	0	-0.19	0.097	15.52	16.50	1.253	0.122	
		Back side		38000	2595	50	0	0.14	0.285	15.52	16.50	1.253	0.357	
		Left side		38000	2595	50	0	0.12	0.393	15.52	16.50	1.253	0.492	
		Right side		38000	2595	50	0	0.19	0.034	15.52	16.50	1.253	0.043	
		Top side		38000	2595	50	0	-0.17	0.032	15.52	16.50	1.253	0.040	
		Bottom side		38000	2595	50	0	0.02	0.018	15.52	16.50	1.253	0.023	

Ant.2	QPSK	Front side	10	38000	2595	1	0	-0.14	0.104	17.18	18.00	1.208	0.126	
		Back side		38000	2595	1	0	-0.13	0.303	17.18	18.00	1.208	0.366	
		Left side		38000	2595	1	0	-0.03	0.087	17.18	18.00	1.208	0.105	
		Right side		38000	2595	1	0	0.02	0.032	17.18	18.00	1.208	0.039	
		Top side		38000	2595	1	0	-0.01	0.297	17.18	18.00	1.208	0.359	
		Bottom side		38000	2595	1	0	0.08	0.031	17.18	18.00	1.208	0.037	
		Front side		38000	2595	50	0	0.12	0.096	16.11	17.00	1.227	0.118	
		Back side		38000	2595	50	0	0.19	0.254	16.11	17.00	1.227	0.312	
		Left side		38000	2595	50	0	0.04	0.080	16.11	17.00	1.227	0.098	
		Right side		38000	2595	50	0	0.04	0.030	16.11	17.00	1.227	0.037	
		Top side		38000	2595	50	0	0.08	0.237	16.11	17.00	1.227	0.291	
		Bottom side		38000	2595	50	0	-0.04	0.028	16.11	17.00	1.227	0.034	

9.11LTE Band 41 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/ kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.1	QPSK	Left cheek	0	40640	2595	1	0	-0.18	0.218	16.48	17.50	1.265	0.276	
		Left tilt		40640	2595	1	0	-0.09	0.042	16.48	17.50	1.265	0.053	
		Right cheek		40640	2595	1	0	0.15	0.165	16.48	17.50	1.265	0.209	
		Right tilt		40640	2595	1	0	0.15	0.043	16.48	17.50	1.265	0.054	
		Left cheek		40640	2595	50	0	0.15	0.191	15.41	16.50	1.285	0.245	
		Left tilt		40640	2595	50	0	0.11	0.037	15.41	16.50	1.285	0.048	
		Right cheek		40640	2595	50	0	-0.15	0.159	15.41	16.50	1.285	0.204	
		Right tilt		40640	2595	50	0	-0.04	0.042	15.41	16.50	1.285	0.054	
Ant.2	QPSK	Left cheek	0	40640	2595	1	0	0.15	0.142	16.91	18.00	1.285	0.183	
		Left tilt		40640	2595	1	0	0.11	0.191	16.91	18.00	1.285	0.245	
		Right cheek		40640	2595	1	0	-0.07	0.238	16.91	18.00	1.285	0.306	
		Right tilt		40640	2595	1	0	0.05	0.415	16.91	18.00	1.285	0.533	21
		Left cheek		40640	2595	50	0	-0.13	0.130	16.06	17.00	1.242	0.161	
		Left tilt		40640	2595	50	0	0.06	0.161	16.06	17.00	1.242	0.200	
		Right cheek		40640	2595	50	0	-0.03	0.232	16.06	17.00	1.242	0.288	
		Right tilt		40640	2595	50	0	0.03	0.244	16.06	17.00	1.242	0.303	
Body-worn& Hotspot														
Ant.1	QPSK	Front side	10	40640	2595	1	0	0.17	0.109	16.48	17.50	1.265	0.138	
		Back side		40640	2595	1	0	-0.18	0.327	16.48	17.50	1.265	0.414	
		Left side		40640	2595	1	0	0.05	0.399	16.48	17.50	1.265	0.505	22
		Right side		40640	2595	1	0	-0.19	0.040	16.48	17.50	1.265	0.051	
		Top side		40640	2595	1	0	-0.13	0.030	16.48	17.50	1.265	0.038	
		Bottom side		40640	2595	1	0	-0.04	0.018	16.48	17.50	1.265	0.023	

		Front side		40640	2595	50	0	-0.09	0.092	15.41	16.50	1.285	0.118	
		Back side		40640	2595	50	0	0.19	0.301	15.41	16.50	1.285	0.387	
		Left side		40640	2595	50	0	0.08	0.369	15.41	16.50	1.285	0.475	
		Right side		40640	2595	50	0	-0.13	0.035	15.41	16.50	1.285	0.045	
		Top side		40640	2595	50	0	-0.07	0.025	15.41	16.50	1.285	0.032	
		Bottom side		40640	2595	50	0	0.01	0.013	15.41	16.50	1.285	0.017	
Ant.2	QPSK	Front side	10	40640	2595	1	0	-0.01	0.107	16.91	18.00	1.285	0.138	
		Back side		40640	2595	1	0	0.16	0.318	16.91	18.00	1.285	0.409	
		Left side		40640	2595	1	0	0.1	0.088	16.91	18.00	1.285	0.113	
		Right side		40640	2595	1	0	0.08	0.038	16.91	18.00	1.285	0.049	
		Top side		40640	2595	1	0	-0.01	0.296	16.91	18.00	1.285	0.380	
		Bottom side		40640	2595	1	0	-0.1	0.300	16.91	18.00	1.285	0.386	
		Front side		40640	2595	50	0	-0.17	0.095	16.06	17.00	1.242	0.118	
		Back side		40640	2595	50	0	-0.16	0.257	16.06	17.00	1.242	0.319	
		Left side		40640	2595	50	0	0.07	0.074	16.06	17.00	1.242	0.092	
		Right side		40640	2595	50	0	0.08	0.032	16.06	17.00	1.242	0.040	
		Top side		40640	2595	50	0	-0.18	0.222	16.06	17.00	1.242	0.276	
		Bottom side		40640	2595	50	0	0.06	0.028	16.06	17.00	1.242	0.035	

9.12 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle(%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.12	3DH5	Left cheek	0	78	2480	-0.18	0.043	12.79	13.00	1.051	76.70	1.304	0.059	23
		Left tilt		78	2480	0.14	0.038	12.79	13.00	1.051	76.70	1.304	0.052	
		Right cheek		78	2480	0.13	0.020	12.79	13.00	1.051	76.70	1.304	0.027	
		Right tilt		78	2480	-0.05	0.015	12.79	13.00	1.051	76.70	1.304	0.021	
Body-worn& Hotspot														
Ant.12	3DH5	Front side	10	78	2480	0.19	0.013	12.79	13.00	1.051	76.70	1.304	0.017	
		Back side		78	2480	0.03	0.013	12.79	13.00	1.051	76.70	1.304	0.018	
		Left side		78	2480	0.05	0.013	12.79	13.00	1.051	76.70	1.304	0.018	
		Right side		78	2480	-0.11	0.014	12.79	13.00	1.051	76.70	1.304	0.019	
		Top side		78	2480	0.01	0.019	12.79	13.00	1.051	76.70	1.304	0.026	24
		Bottom side		78	2480	-0.09	0.015	12.79	13.00	1.051	76.70	1.304	0.021	

9.132.4G WIFI

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle(%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.12	802.11b	Left Cheek	0	6	2437	-0.11	0.300	16.91	18.00	1.285	100	1.000	0.386	25
		Left Tilt		6	2437	0.02	0.414	16.91	18.00	1.285	100	1.000	0.532	
		Right Cheek		6	2437	-0.19	0.146	16.91	18.00	1.285	100	1.000	0.188	
		Right Tilt		6	2437	0.07	0.185	16.91	18.00	1.285	100	1.000	0.238	
Ant.12	802.11n (HT20)	Left Cheek	0	6	2437	-0.1	0.290	17.67	18.50	1.210	96.58	1.035	0.363	26
		Left Tilt		6	2437	-0.1	0.395	17.67	18.50	1.210	96.58	1.035	0.495	
		Right Cheek		6	2437	0.1	0.143	17.67	18.50	1.210	96.58	1.035	0.179	
		Right Tilt		6	2437	-0.13	0.202	17.67	18.50	1.210	96.58	1.035	0.253	
Body-worn& Hotspot														
Ant.12	802.11b	Front side	10	6	2437	-0.1	0.074	16.91	18.00	1.285	100	1.000	0.095	27
		Back side		6	2437	0.08	0.290	16.91	18.00	1.285	100	1.000	0.373	
		Left side		6	2437	0.05	0.033	16.91	18.00	1.285	100	1.000	0.042	
		Right side		6	2437	-0.19	0.061	16.91	18.00	1.285	100	1.000	0.078	
		Top side		6	2437	-0.19	0.213	16.91	18.00	1.285	100	1.000	0.274	
		Bottom side		6	2437	-0.13	0.028	16.91	18.00	1.285	100	1.000	0.036	
Ant.12	802.11n (HT20)	Front side	10	6	2437	-0.05	0.081	17.67	18.50	1.210	96.58	1.035	0.101	28
		Back side		6	2437	0.01	0.379	17.67	18.50	1.210	96.58	1.035	0.475	
		Left side		6	2437	-0.12	0.021	17.67	18.50	1.210	96.58	1.035	0.026	
		Right side		6	2437	-0.15	0.085	17.67	18.50	1.210	96.58	1.035	0.106	
		Top side		6	2437	0.03	0.212	17.67	18.50	1.210	96.58	1.035	0.266	
		Bottom side		6	2437	-0.03	0.020	17.67	18.50	1.210	96.58	1.035	0.025	

9.145G WIFI

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune -up power(dBm)	Scaling Factor	Duty cycle(%))	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.13	WLAN 5.2G 802.11n (HT20)	Left Cheek	0	48	5240	0.03	0.500	15.79	17.00	1.320	96.28	1.039	0.686	
		Left Tilt		48	5240	0.05	0.643	15.79	17.00	1.320	96.28	1.039	0.882	29
		Right Cheek		48	5240	0.01	0.348	15.79	17.00	1.320	96.28	1.039	0.477	
		Right Tilt		48	5240	0.06	0.334	15.79	17.00	1.320	96.28	1.039	0.458	
Ant.13	WLAN 5.3G 802.11n (HT20)	Left Cheek	0	52	5260	0.08	0.545	14.71	15.50	1.199	96.28	1.039	0.679	30
		Left Tilt		52	5260	-0.17	0.525	14.71	15.50	1.199	96.28	1.039	0.654	
		Right Cheek		52	5260	-0.14	0.353	14.71	15.50	1.199	96.28	1.039	0.440	
		Right Tilt		52	5260	-0.08	0.338	14.71	15.50	1.199	96.28	1.039	0.421	
Ant.13		Left Cheek	0	118	5590	0.16	0.401	14.22	15.00	1.197	93.37	1.071	0.514	

	WLAN 5.6G	Left Tilt		118	5590	-0.08	0.485	14.22	15.00	1.197	93.37	1.071	0.622	31
	802.11n	Right Cheek		118	5590	-0.14	0.285	14.22	15.00	1.197	93.37	1.071	0.365	
	(HT40)	Right Tilt		118	5590	-0.03	0.304	14.22	15.00	1.197	93.37	1.071	0.390	
Ant.13	WLAN 5.8G	Left Cheek	0	149	5745	-0.13	0.449	14.23	15.00	1.194	96.28	1.039	0.557	
	802.11n	Left Tilt		149	5745	-0.06	0.494	14.23	15.00	1.194	96.28	1.039	0.613	32
	(HT20)	Right Cheek		149	5745	-0.19	0.400	14.23	15.00	1.194	96.28	1.039	0.496	
		Right Tilt		149	5745	0.17	0.422	14.23	15.00	1.194	96.28	1.039	0.524	
Body-worn														
Ant.13	WLAN 5.3G	Front side	10	52	5260	-0.15	0.126	14.71	15.50	1.199	96.28	1.039	0.157	
	802.11n	Back side		52	5260	0.03	0.151	14.71	15.50	1.199	96.28	1.039	0.188	33
Ant.13	WLAN 5.6G	Front side	10	118	5590	0.18	0.100	14.22	15.00	1.197	93.37	1.071	0.128	
	802.11n	Back side		118	5590	0.06	0.113	14.22	15.00	1.197	93.37	1.071	0.145	34
Hotspot														
Ant.13	WLAN 5.2G	Front side	10	48	5240	-0.01	0.158	15.79	17.00	1.320	96.28	1.039	0.217	
		Back side		48	5240	0.06	0.173	15.79	17.00	1.320	96.28	1.039	0.237	
		Left side		48	5240	-0.04	0.058	15.79	17.00	1.320	96.28	1.039	0.080	
		Right side		48	5240	-0.12	0.108	15.79	17.00	1.320	96.28	1.039	0.148	
		Top side		48	5240	-0.05	0.227	15.79	17.00	1.320	96.28	1.039	0.311	35
		Bottom side		48	5240	0.13	0.057	15.79	17.00	1.320	96.28	1.039	0.078	
Ant.13	WLAN 5.8G	Front side	10	149	5745	0.08	0.125	14.23	15.00	1.194	96.28	1.039	0.155	
		Back side		149	5745	0.13	0.160	14.23	15.00	1.194	96.28	1.039	0.198	
		Left side		149	5745	-0.19	0.063	14.23	15.00	1.194	96.28	1.039	0.078	
		Right side		149	5745	-0.12	0.081	14.23	15.00	1.194	96.28	1.039	0.100	
		Top side		149	5745	-0.14	0.161	14.23	15.00	1.194	96.28	1.039	0.200	36
		Bottom side		149	5745	0.05	0.077	14.23	15.00	1.194	96.28	1.039	0.096	
Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Powe r Drift (dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle(%)	Duty Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific														
Ant.13	WLAN 5.3G	Front side	0	52	5260	-0.11	0.323	14.71	15.50	1.199	96.28	1.039	0.403	
		Back side		52	5260	0.06	0.285	14.71	15.50	1.199	96.28	1.039	0.355	
		Left side		52	5260	-0.07	0.088	14.71	15.50	1.199	96.28	1.039	0.110	
		Right side		52	5260	-0.17	0.149	14.71	15.50	1.199	96.28	1.039	0.186	
		Top side		52	5260	0.14	0.330	14.71	15.50	1.199	96.28	1.039	0.411	37
		Bottom side		52	5260	0.07	0.017	14.71	15.50	1.199	96.28	1.039	0.021	
Ant.13	WLAN 5.6G	Front side	0	118	5590	-0.08	0.263	14.22	15.00	1.197	93.37	1.071	0.337	
		Back side		118	5590	-0.14	0.280	14.22	15.00	1.197	93.37	1.071	0.359	
		Left side		118	5590	0.08	0.060	14.22	15.00	1.197	93.37	1.071	0.077	
		Right side		118	5590	-0.14	0.093	14.22	15.00	1.197	93.37	1.071	0.119	
		Top side		118	5590	0.11	0.332	14.22	15.00	1.197	93.37	1.071	0.426	38
		Bottom side		118	5590	0.17	0.015	14.22	15.00	1.197	93.37	1.071	0.019	

10 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

10.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Limb
1	WWAN+WLAN 2.4G+BT	Yes	Yes	Yes	Yes
2	WWAN+WLAN 5G+BT	Yes	Yes	Yes	Yes

Note:

1. When stand-alone SAR is not required for a side of antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
2. The maximum SAR summation is calculated based on the same configuration and test position.
3. The simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst simultaneous transmission combinations is shown in this report.

10.2 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WIFI and Bluetooth

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4		
			WWAN	2.4GWIFI	5G WIFI	Bluetooth	1+2+4	1+3+4
GSM 850	Ant.1	Left Cheek	0.072	0.386	0.679	0.059	0.517	0.810
GSM 850	Ant.1	Left Tilt	0.036	0.532	0.654	0.052	0.620	0.742
GSM 850	Ant.1	Right Cheek	0.110	0.188	0.496	0.027	0.325	0.633
GSM 850	Ant.1	Right Tilt	0.023	0.238	0.524	0.021	0.282	0.568
GSM 850	Ant.2	Left Cheek	0.294	0.386	0.679	0.059	0.739	1.032
GSM 850	Ant.2	Left Tilt	0.274	0.532	0.654	0.052	0.858	0.980
GSM 850	Ant.2	Right Cheek	0.357	0.188	0.496	0.027	0.572	0.880
GSM 850	Ant.2	Right Tilt	0.234	0.238	0.524	0.021	0.493	0.779
GSM 1900	Ant.1	Left Cheek	0.042	0.386	0.679	0.059	0.487	0.780
GSM 1900	Ant.1	Left Tilt	0.029	0.532	0.654	0.052	0.613	0.735
GSM 1900	Ant.1	Right Cheek	0.021	0.188	0.496	0.027	0.236	0.544
GSM 1900	Ant.1	Right Tilt	0.015	0.238	0.524	0.021	0.274	0.560

GSM 1900	Ant.2	Left Cheek	0.333	0.386	0.679	0.059	0.778	1.071
GSM 1900	Ant.2	Left Tilt	0.379	0.532	0.654	0.052	0.963	1.085
GSM 1900	Ant.2	Right Cheek	0.397	0.188	0.496	0.027	0.612	0.920
GSM 1900	Ant.2	Right Tilt	0.605	0.238	0.524	0.021	0.864	1.150
WCDMA B2	Ant.1	Left Cheek	0.043	0.386	0.679	0.059	0.488	0.781
WCDMA B2	Ant.1	Left Tilt	0.033	0.532	0.654	0.052	0.617	0.739
WCDMA B2	Ant.1	Right Cheek	0.025	0.188	0.496	0.027	0.240	0.548
WCDMA B2	Ant.1	Right Tilt	0.017	0.238	0.524	0.021	0.276	0.562
WCDMA B2	Ant.2	Left Cheek	0.301	0.386	0.679	0.059	0.746	1.039
WCDMA B2	Ant.2	Left Tilt	0.365	0.532	0.654	0.052	0.949	1.071
WCDMA B2	Ant.2	Right Cheek	0.397	0.188	0.496	0.027	0.612	0.920
WCDMA B2	Ant.2	Right Tilt	0.729	0.238	0.524	0.021	0.988	1.274
WCDMA B4	Ant.1	Left Cheek	0.042	0.386	0.679	0.059	0.487	0.780
WCDMA B4	Ant.1	Left Tilt	0.037	0.532	0.654	0.052	0.621	0.743
WCDMA B4	Ant.1	Right Cheek	0.035	0.188	0.496	0.027	0.250	0.558
WCDMA B4	Ant.1	Right Tilt	0.023	0.238	0.524	0.021	0.282	0.568
WCDMA B4	Ant.2	Left Cheek	0.388	0.386	0.679	0.059	0.833	1.126
WCDMA B4	Ant.2	Left Tilt	0.457	0.532	0.654	0.052	1.041	1.163
WCDMA B4	Ant.2	Right Cheek	0.572	0.188	0.496	0.027	0.787	1.095
WCDMA B4	Ant.2	Right Tilt	0.775	0.238	0.524	0.021	1.034	1.320
WCDMA B5	Ant.1	Left Cheek	0.096	0.386	0.679	0.059	0.541	0.834
WCDMA B5	Ant.1	Left Tilt	0.025	0.532	0.654	0.052	0.609	0.731
WCDMA B5	Ant.1	Right Cheek	0.077	0.188	0.496	0.027	0.292	0.600
WCDMA B5	Ant.1	Right Tilt	0.022	0.238	0.524	0.021	0.281	0.567
WCDMA B5	Ant.2	Left Cheek	0.317	0.386	0.679	0.059	0.762	1.055
WCDMA B5	Ant.2	Left Tilt	0.294	0.532	0.654	0.052	0.878	1.000
WCDMA B5	Ant.2	Right Cheek	0.279	0.188	0.496	0.027	0.494	0.802
WCDMA B5	Ant.2	Right Tilt	0.231	0.238	0.524	0.021	0.490	0.776
LTE B2	Ant.2	Left Cheek	0.305	0.386	0.679	0.059	0.750	1.043
LTE B2	Ant.2	Left Tilt	0.373	0.532	0.654	0.052	0.957	1.079
LTE B2	Ant.2	Right Cheek	0.365	0.188	0.496	0.027	0.580	0.888
LTE B2	Ant.2	Right Tilt	0.756	0.238	0.524	0.021	1.015	1.301
LTE B4	Ant.2	Left Cheek	0.388	0.386	0.679	0.059	0.833	1.126
LTE B4	Ant.2	Left Tilt	0.468	0.532	0.654	0.052	1.052	1.174
LTE B4	Ant.2	Right Cheek	0.479	0.188	0.496	0.027	0.694	1.002
LTE B4	Ant.2	Right Tilt	0.800	0.238	0.524	0.021	1.059	1.345
LTE B5	Ant.2	Left Cheek	0.368	0.386	0.679	0.059	0.813	1.106
LTE B5	Ant.2	Left Tilt	0.361	0.532	0.654	0.052	0.945	1.067
LTE B5	Ant.2	Right Cheek	0.351	0.188	0.496	0.027	0.566	0.874
LTE B5	Ant.2	Right Tilt	0.260	0.238	0.524	0.021	0.519	0.805
LTE B7	Ant.2	Left Cheek	0.205	0.386	0.679	0.059	0.650	0.943
LTE B7	Ant.2	Left Tilt	0.264	0.532	0.654	0.052	0.848	0.970
LTE B7	Ant.2	Right Cheek	0.417	0.188	0.496	0.027	0.632	0.940

LTE B7	Ant.2	Right Tilt	0.604	0.238	0.524	0.021	0.863	1.149
LTE B38	Ant.1	Left Cheek	0.278	0.386	0.679	0.059	0.723	1.016
LTE B38	Ant.1	Left Tilt	0.053	0.532	0.654	0.052	0.637	0.759
LTE B38	Ant.1	Right Cheek	0.203	0.188	0.496	0.027	0.418	0.726
LTE B38	Ant.1	Right Tilt	0.055	0.238	0.524	0.021	0.314	0.600
LTE B38	Ant.2	Left Cheek	0.176	0.386	0.679	0.059	0.621	0.914
LTE B38	Ant.2	Left Tilt	0.238	0.532	0.654	0.052	0.822	0.944
LTE B38	Ant.2	Right Cheek	0.274	0.188	0.496	0.027	0.489	0.797
LTE B38	Ant.2	Right Tilt	0.517	0.238	0.524	0.021	0.776	1.062
LTE B41	Ant.1	Left Cheek	0.276	0.386	0.679	0.059	0.721	1.014
LTE B41	Ant.1	Left Tilt	0.053	0.532	0.654	0.052	0.637	0.759
LTE B41	Ant.1	Right Cheek	0.209	0.188	0.496	0.027	0.424	0.732
LTE B41	Ant.1	Right Tilt	0.054	0.238	0.524	0.021	0.313	0.599
LTE B41	Ant.2	Left Cheek	0.183	0.386	0.679	0.059	0.628	0.921
LTE B41	Ant.2	Left Tilt	0.245	0.532	0.654	0.052	0.829	0.951
LTE B41	Ant.2	Right Cheek	0.306	0.188	0.496	0.027	0.521	0.829
LTE B41	Ant.2	Right Tilt	0.533	0.238	0.524	0.021	0.792	1.078

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.345 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

10.3 Body Simultaneous Transmission SAR Evaluation for WWAN Antenna with WIFI and Bluetooth

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4		
			WWAN	2.4GWIFI	5G WIFI	Bluetooth	1+2+4	1+3+4
GSM 850	Ant.1	Front Side	0.055	0.108	0.157	0.017	0.180	0.229
GSM 850	Ant.1	Back Side	0.213	0.504	0.188	0.018	0.735	0.419
GSM 850	Ant.2	Front Side	0.058	0.108	0.157	0.017	0.183	0.232
GSM 850	Ant.2	Back Side	0.100	0.504	0.188	0.018	0.622	0.306
GSM 1900	Ant.1	Front Side	0.042	0.108	0.157	0.017	0.167	0.216
GSM 1900	Ant.1	Back Side	0.048	0.504	0.188	0.018	0.570	0.254
GSM 1900	Ant.2	Front Side	0.134	0.108	0.157	0.017	0.259	0.308
GSM 1900	Ant.2	Back Side	0.220	0.504	0.188	0.018	0.742	0.426
WCDMA B2	Ant.1	Front Side	0.034	0.108	0.157	0.017	0.159	0.208
WCDMA B2	Ant.1	Back Side	0.040	0.504	0.188	0.018	0.562	0.246
WCDMA B2	Ant.2	Front Side	0.145	0.108	0.157	0.017	0.270	0.319
WCDMA B2	Ant.2	Back Side	0.260	0.504	0.188	0.018	0.782	0.466

WCDMA B4	Ant.1	Front Side	0.039	0.108	0.157	0.017	0.164	0.213
WCDMA B4	Ant.1	Back Side	0.042	0.504	0.188	0.018	0.564	0.248
WCDMA B4	Ant.2	Front Side	0.183	0.108	0.157	0.017	0.308	0.357
WCDMA B4	Ant.2	Back Side	0.258	0.504	0.188	0.018	0.780	0.464
WCDMA B5	Ant.1	Front Side	0.064	0.108	0.157	0.017	0.189	0.238
WCDMA B5	Ant.1	Back Side	0.231	0.504	0.188	0.018	0.753	0.437
WCDMA B5	Ant.2	Front Side	0.079	0.108	0.157	0.017	0.204	0.253
WCDMA B5	Ant.2	Back Side	0.138	0.504	0.188	0.018	0.660	0.344
LTE B2	Ant.2	Front Side	0.145	0.108	0.157	0.017	0.270	0.319
LTE B2	Ant.2	Back Side	0.272	0.504	0.188	0.018	0.794	0.478
LTE B4	Ant.2	Front Side	0.182	0.108	0.157	0.017	0.307	0.356
LTE B4	Ant.2	Back Side	0.246	0.504	0.188	0.018	0.768	0.452
LTE B5	Ant.1	Front Side	0.071	0.108	0.157	0.017	0.196	0.245
LTE B5	Ant.1	Back Side	0.248	0.504	0.188	0.018	0.770	0.454
LTE B5	Ant.2	Front Side	0.092	0.108	0.157	0.017	0.217	0.266
LTE B5	Ant.2	Back Side	0.145	0.504	0.188	0.018	0.667	0.351
LTE B7	Ant.1	Front Side	0.090	0.108	0.157	0.017	0.215	0.264
LTE B7	Ant.1	Back Side	0.309	0.504	0.188	0.018	0.831	0.515
LTE B7	Ant.2	Front Side	0.138	0.108	0.157	0.017	0.263	0.312
LTE B7	Ant.2	Back Side	0.299	0.504	0.188	0.018	0.821	0.505
LTE B38	Ant.1	Front Side	0.141	0.108	0.157	0.017	0.266	0.315
LTE B38	Ant.1	Back Side	0.421	0.504	0.188	0.018	0.943	0.627
LTE B38	Ant.2	Front Side	0.126	0.108	0.157	0.017	0.251	0.300
LTE B38	Ant.2	Back Side	0.366	0.504	0.188	0.018	0.888	0.572
LTE B41	Ant.1	Front Side	0.138	0.108	0.157	0.017	0.263	0.312
LTE B41	Ant.1	Back Side	0.414	0.504	0.188	0.018	0.936	0.620
LTE B41	Ant.2	Front Side	0.138	0.108	0.157	0.017	0.263	0.312
LTE B41	Ant.2	Back Side	0.409	0.504	0.188	0.018	0.931	0.615

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.943 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

10.4 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WIFI and Bluetooth

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4		
			WWAN	2.4GWIFI	5G WIFI	Bluetooth	1+2+4	1+3+4
GSM 850	Ant.1	Front Side	0.055	0.095	0.507	0.017	0.167	0.579
GSM 850	Ant.1	Back Side	0.213	0.373	0.482	0.018	0.604	0.713
GSM 850	Ant.1	Left Side	0.114	0.042	0.172	0.018	0.174	0.304
GSM 850	Ant.1	Right Side	0.033	0.078	0.297	0.019	0.130	0.349
GSM 850	Ant.1	Top Side	0.028	0.274	0.578	0.026	0.328	0.632
GSM 850	Ant.1	Bottom Side	0.039	0.036	0.096	0.021	0.096	0.156
GSM 850	Ant.2	Front Side	0.058	0.095	0.507	0.017	0.170	0.582
GSM 850	Ant.2	Back Side	0.100	0.373	0.482	0.018	0.491	0.600
GSM 850	Ant.2	Left Side	0.045	0.042	0.172	0.018	0.105	0.235
GSM 850	Ant.2	Right Side	0.035	0.078	0.297	0.019	0.132	0.351
GSM 850	Ant.2	Top Side	0.078	0.274	0.578	0.026	0.378	0.682
GSM 850	Ant.2	Bottom Side	0.034	0.036	0.096	0.021	0.091	0.151
GSM 1900	Ant.1	Front Side	0.042	0.095	0.507	0.017	0.154	0.566
GSM 1900	Ant.1	Back Side	0.048	0.373	0.482	0.018	0.439	0.548
GSM 1900	Ant.1	Left Side	0.059	0.042	0.172	0.018	0.119	0.249
GSM 1900	Ant.1	Right Side	0.036	0.078	0.297	0.019	0.133	0.352
GSM 1900	Ant.1	Top Side	0.030	0.274	0.578	0.026	0.330	0.634
GSM 1900	Ant.1	Bottom Side	0.021	0.036	0.096	0.021	0.078	0.138
GSM 1900	Ant.2	Front Side	0.134	0.095	0.507	0.017	0.246	0.658
GSM 1900	Ant.2	Back Side	0.220	0.373	0.482	0.018	0.611	0.720
GSM 1900	Ant.2	Left Side	0.052	0.042	0.172	0.018	0.112	0.242
GSM 1900	Ant.2	Right Side	0.039	0.078	0.297	0.019	0.136	0.355
GSM 1900	Ant.2	Top Side	0.305	0.274	0.578	0.026	0.605	0.909
GSM 1900	Ant.2	Bottom Side	0.033	0.036	0.096	0.021	0.090	0.150
WCDMA B2	Ant.1	Front Side	0.034	0.095	0.507	0.017	0.146	0.558
WCDMA B2	Ant.1	Back Side	0.040	0.373	0.482	0.018	0.431	0.540
WCDMA B2	Ant.1	Left Side	0.048	0.042	0.172	0.018	0.108	0.238
WCDMA B2	Ant.1	Right Side	0.031	0.078	0.297	0.019	0.128	0.347
WCDMA B2	Ant.1	Top Side	0.024	0.274	0.578	0.026	0.324	0.628
WCDMA B2	Ant.1	Bottom Side	0.025	0.036	0.096	0.021	0.082	0.142
WCDMA B2	Ant.2	Front Side	0.145	0.095	0.507	0.017	0.257	0.669
WCDMA B2	Ant.2	Back Side	0.260	0.373	0.482	0.018	0.651	0.760
WCDMA B2	Ant.2	Left Side	0.046	0.042	0.172	0.018	0.106	0.236
WCDMA B2	Ant.2	Right Side	0.036	0.078	0.297	0.019	0.133	0.352
WCDMA B2	Ant.2	Top Side	0.366	0.274	0.578	0.026	0.666	0.970

WCDMA B2	Ant.2	Bottom Side	0.030	0.036	0.096	0.021	0.087	0.147
WCDMA B4	Ant.1	Front Side	0.039	0.095	0.507	0.017	0.151	0.563
WCDMA B4	Ant.1	Back Side	0.042	0.373	0.482	0.018	0.433	0.542
WCDMA B4	Ant.1	Left Side	0.062	0.042	0.172	0.018	0.122	0.252
WCDMA B4	Ant.1	Right Side	0.027	0.078	0.297	0.019	0.124	0.343
WCDMA B4	Ant.1	Top Side	0.037	0.274	0.578	0.026	0.337	0.641
WCDMA B4	Ant.1	Bottom Side	0.026	0.036	0.096	0.021	0.083	0.143
WCDMA B4	Ant.2	Front Side	0.183	0.095	0.507	0.017	0.295	0.707
WCDMA B4	Ant.2	Back Side	0.258	0.373	0.482	0.018	0.649	0.758
WCDMA B4	Ant.2	Left Side	0.048	0.042	0.172	0.018	0.108	0.238
WCDMA B4	Ant.2	Right Side	0.043	0.078	0.297	0.019	0.140	0.359
WCDMA B4	Ant.2	Top Side	0.372	0.274	0.578	0.026	0.672	0.976
WCDMA B4	Ant.2	Bottom Side	0.036	0.036	0.096	0.021	0.093	0.153
WCDMA B5	Ant.1	Front Side	0.064	0.095	0.507	0.017	0.176	0.588
WCDMA B5	Ant.1	Back Side	0.231	0.373	0.482	0.018	0.622	0.731
WCDMA B5	Ant.1	Left Side	0.131	0.042	0.172	0.018	0.191	0.321
WCDMA B5	Ant.1	Right Side	0.044	0.078	0.297	0.019	0.141	0.360
WCDMA B5	Ant.1	Top Side	0.048	0.042	0.172	0.018	0.108	0.238
WCDMA B5	Ant.1	Bottom Side	0.024	0.078	0.297	0.019	0.121	0.340
WCDMA B5	Ant.2	Front Side	0.079	0.095	0.507	0.017	0.191	0.603
WCDMA B5	Ant.2	Back Side	0.138	0.373	0.482	0.018	0.529	0.638
WCDMA B5	Ant.2	Left Side	0.049	0.042	0.172	0.018	0.109	0.239
WCDMA B5	Ant.2	Right Side	0.038	0.078	0.297	0.019	0.135	0.354
WCDMA B5	Ant.2	Top Side	0.120	0.042	0.172	0.018	0.180	0.310
WCDMA B5	Ant.2	Bottom Side	0.037	0.078	0.297	0.019	0.134	0.353
LTE B2	Ant.2	Front Side	0.145	0.274	0.578	0.026	0.445	0.749
LTE B2	Ant.2	Back Side	0.272	0.036	0.096	0.021	0.329	0.389
LTE B2	Ant.2	Left Side	0.049	0.095	0.507	0.017	0.161	0.573
LTE B2	Ant.2	Right Side	0.044	0.373	0.482	0.018	0.435	0.544
LTE B2	Ant.2	Top Side	0.320	0.042	0.172	0.018	0.380	0.510
LTE B2	Ant.2	Bottom Side	0.034	0.078	0.297	0.019	0.131	0.350
LTE B4	Ant.2	Front Side	0.182	0.274	0.578	0.026	0.482	0.786
LTE B4	Ant.2	Back Side	0.246	0.036	0.096	0.021	0.303	0.363
LTE B4	Ant.2	Left Side	0.049	0.095	0.507	0.017	0.161	0.573
LTE B4	Ant.2	Right Side	0.040	0.373	0.482	0.018	0.431	0.540
LTE B4	Ant.2	Top Side	0.325	0.042	0.172	0.018	0.385	0.515
LTE B4	Ant.2	Bottom Side	0.037	0.078	0.297	0.019	0.134	0.353
LTE B5	Ant.1	Front Side	0.071	0.274	0.578	0.026	0.371	0.675
LTE B5	Ant.1	Back Side	0.248	0.036	0.096	0.021	0.305	0.365
LTE B5	Ant.1	Left Side	0.157	0.095	0.507	0.017	0.269	0.681
LTE B5	Ant.1	Right Side	0.038	0.373	0.482	0.018	0.429	0.538
LTE B5	Ant.1	Top Side	0.036	0.042	0.172	0.018	0.096	0.226
LTE B5	Ant.1	Bottom Side	0.024	0.078	0.297	0.019	0.121	0.340

LTE B5	Ant.2	Front Side	0.092	0.274	0.578	0.026	0.392	0.696
LTE B5	Ant.2	Back Side	0.145	0.036	0.096	0.021	0.202	0.262
LTE B5	Ant.2	Left Side	0.049	0.095	0.507	0.017	0.161	0.573
LTE B5	Ant.2	Right Side	0.039	0.373	0.482	0.018	0.430	0.539
LTE B5	Ant.2	Top Side	0.135	0.042	0.172	0.018	0.195	0.325
LTE B5	Ant.2	Bottom Side	0.037	0.078	0.297	0.019	0.134	0.353
LTE B7	Ant.1	Front Side	0.090	0.274	0.578	0.026	0.390	0.694
LTE B7	Ant.1	Back Side	0.309	0.036	0.096	0.021	0.366	0.426
LTE B7	Ant.1	Left Side	0.328	0.095	0.507	0.017	0.440	0.852
LTE B7	Ant.1	Right Side	0.049	0.373	0.482	0.018	0.440	0.549
LTE B7	Ant.1	Top Side	0.055	0.042	0.172	0.018	0.115	0.245
LTE B7	Ant.1	Bottom Side	0.036	0.078	0.297	0.019	0.133	0.352
LTE B7	Ant.2	Front Side	0.138	0.274	0.578	0.026	0.438	0.742
LTE B7	Ant.2	Back Side	0.299	0.036	0.096	0.021	0.356	0.416
LTE B7	Ant.2	Left Side	0.101	0.095	0.507	0.017	0.213	0.625
LTE B7	Ant.2	Right Side	0.045	0.373	0.482	0.018	0.436	0.545
LTE B7	Ant.2	Top Side	0.256	0.042	0.172	0.018	0.316	0.446
LTE B7	Ant.2	Bottom Side	0.039	0.078	0.297	0.019	0.136	0.355
LTE B38	Ant.1	Front Side	0.141	0.274	0.578	0.026	0.441	0.745
LTE B38	Ant.1	Back Side	0.421	0.036	0.096	0.021	0.478	0.538
LTE B38	Ant.1	Left Side	0.496	0.095	0.507	0.017	0.608	1.020
LTE B38	Ant.1	Right Side	0.046	0.373	0.482	0.018	0.437	0.546
LTE B38	Ant.1	Top Side	0.049	0.042	0.172	0.018	0.109	0.239
LTE B38	Ant.1	Bottom Side	0.036	0.078	0.297	0.019	0.133	0.352
LTE B38	Ant.2	Front Side	0.126	0.274	0.578	0.026	0.426	0.730
LTE B38	Ant.2	Back Side	0.366	0.036	0.096	0.021	0.423	0.483
LTE B38	Ant.2	Left Side	0.105	0.095	0.507	0.017	0.217	0.629
LTE B38	Ant.2	Right Side	0.039	0.373	0.482	0.018	0.430	0.539
LTE B38	Ant.2	Top Side	0.359	0.042	0.172	0.018	0.419	0.549
LTE B38	Ant.2	Bottom Side	0.037	0.078	0.297	0.019	0.134	0.353
LTE B41	Ant.1	Front Side	0.138	0.274	0.578	0.026	0.438	0.742
LTE B41	Ant.1	Back Side	0.414	0.036	0.096	0.021	0.471	0.531
LTE B41	Ant.1	Left Side	0.505	0.095	0.507	0.017	0.617	1.029
LTE B41	Ant.1	Right Side	0.051	0.373	0.482	0.018	0.442	0.551
LTE B41	Ant.1	Top Side	0.038	0.042	0.172	0.018	0.098	0.228
LTE B41	Ant.1	Bottom Side	0.023	0.078	0.297	0.019	0.120	0.339
LTE B41	Ant.2	Front Side	0.138	0.274	0.578	0.026	0.438	0.742
LTE B41	Ant.2	Back Side	0.409	0.036	0.096	0.021	0.466	0.526
LTE B41	Ant.2	Left Side	0.113	0.095	0.507	0.017	0.225	0.637
LTE B41	Ant.2	Right Side	0.049	0.373	0.482	0.018	0.440	0.549
LTE B41	Ant.2	Top Side	0.380	0.042	0.172	0.018	0.440	0.570
LTE B41	Ant.2	Bottom Side	0.386	0.078	0.297	0.019	0.483	0.702

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest summed 1g SAR is $1.029 \text{ W/Kg} < 1.6 \text{ W/kg}$, so Simultaneous Transmission SAR test is not required.

11 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.10.4.1535	N/A	N/A
835MHz Validation Dipole	Speag	D835V2	4d277	2024/08/30	2027/08/30
1750MHz Validation Dipole	Speag	D1750V2	1183	2024/09/03	2027/09/03
1900MHz Validation Dipole	Speag	D1900V2	5d155	2024/09/02	2027/09/02
2450MHz Validation Dipole	Speag	D2450V2	1065	2024/09/05	2027/09/05
2600MHz Validation Dipole	Speag	D2600V2	1184	2024/08/30	2027/08/30
5GHz Validation Dipole	Speag	D5GHzV2	1333	2024/09/04	2027/09/04
Data Acquisition Electronics	Speag	DAE4	SN: 540	2025/04/21	2026/04/20
E-Field Probe	Speag	EX3DV4	SN: 3748	2025/04/24	2026/04/23
Signal Generator	R&S	SMB100A	182635	2025/02/12	2026/02/12
Power Meter	Agilent	E4419B	MY45104512	2025/02/11	2026/02/11
Power Sensor	Agilent	E9304A	MY41499059	2025/02/11	2026/02/11
Power Sensor	Agilent	E9304A	MY41499060	2025/02/11	2026/02/11
Wireless Communication Test Set	R&S	CMW500	168792	2025/02/11	2026/02/11
Wireless Communication Test Set	Anritsu	MT8820C	6201061029	2025/02/12	2026/02/12
Network Analyzer	Agilent	E5071C	MY56301409	2025/02/12	2026/02/12
Thermometer	CEM	DT-322	210402350	2025/01/22	2026/01/22
Thermometer	Elitech	RC-4HC	EF7247001275	2025/01/22	2026/01/22
Power Amplifier	COM-MW	PAO.4	201704001	N/A	N/A
Dielectric Probe Kit	Speag	85070E	MY44300524	N/A	N/A
Phantom	Speag	SAM	1857	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A

Note: For dipole antennas, Tejet has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an 85070E Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity(σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2025.12.1	Head	835	21.3	0.90	42.32	0.90	41.50	0.00	1.98
2025.12.2	Head	835	21.4	0.91	42.37	0.90	41.50	1.11	2.10
2025.12.3	Head	1750	21.2	1.39	39.26	1.37	40.08	1.46	-2.05
2025.12.4	Head	1900	20.9	1.45	38.97	1.40	40.00	3.57	-2.58
2025.12.5	Head	2450	21.0	1.82	38.44	1.80	39.20	1.11	-1.94
2025.12.6	Head	2600	20.9	1.96	38.11	1.96	39.01	0.00	-2.31
2025.12.7	Head	2600	20.5	1.97	38.07	1.96	39.01	0.51	-2.41
2025.12.8	Head	2600	20.6	1.98	38.33	1.96	39.01	1.02	-1.74
2025.12.9	Head	5300	21.0	4.87	34.99	4.76	35.87	2.31	-2.45
2025.12.10	Head	5600	21.3	4.96	34.58	5.07	35.53	-2.17	-2.67
2025.12.10	Head	5800	21.3	5.16	34.18	5.27	35.30	-2.09	-3.17

Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by Speag, the validation data should be within its specification of 10 %.

Head 1g

Date	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.12.1	835	100	0.900	9.00	9.59	-6.15
2025.12.2	835	100	0.997	9.97	9.59	3.96
2025.12.3	1750	100	3.830	38.30	36.50	4.93
2025.12.4	1900	100	3.950	39.50	39.90	-1.00
2025.12.5	2450	100	5.250	52.50	52.60	-0.19
2025.12.6	2600	100	5.710	57.10	55.30	3.25
2025.12.7	2600	100	5.510	55.10	55.30	-0.36
2025.12.8	2600	100	5.250	52.50	55.30	-5.06
2025.12.9	5300	100	7.610	76.10	79.00	-3.67
2025.12.10	5600	100	8.520	85.20	82.80	2.90
2025.12.10	5800	100	7.810	78.10	78.50	-0.51

Limb 10g

Date	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.12.9	5300	100	2.150	21.50	23.00	-6.52
2025.12.10	5600	100	2.400	24.00	24.00	0.00

Note: The tolerance limit of System validation $\pm 10\%$.

Please refer the document "BL-SH25B1334-ASC.pdf".

ANNEX C TEST DATA

Please refer the document “BL-SH25B1334-ATD.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SH25B1334-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SH25B1334-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SH25B1334-AC.pdf”.

Statement

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--END OF REPORT--