

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: X6895
Brand Name: Infinix
FCC ID: 2AIZN-X6895
Test Standard: FCC 47 CFR Part 2.1093
(refer section 3.1)
Maximum SAR: Head (1g@0mm): 0.61W/kg
Body-worn (1g@10mm): 0.33W/kg
Hotspot (1g@10mm): 0.33W/kg
Sample Arrival Date: Jan. 26, 2026
Test Date: Feb. 01, 2026 - Feb. 08, 2026
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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>Mar. 12, 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	X6895
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	CC26010335-001-S13
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	L:167.92 mm*W:79.12mm*H:7.64mm
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	BL-54DX
	Serial No.	N/A
	Capacity	5430mAh
	Rated Voltage	3.92V
	Limit Charge Voltage	4.53V

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7 LTE TDD Band 38/41 UL CA:CA_2C,CA_5B,CA_7C,CA_38C,CA_41C 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) GPS, GLONASS, BDS, Galileo, SBAS,FM receiver, NFC
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, NFC		
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		
NFC	13.56 MHz		
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna NFC: Coil Antenna		
DTM	N/A		
Hotspot Function	Support		
Power Reduction	N/A		

Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype

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)			1 g(W/kg)		
		Head	Body-worn	Hotspot	Head	Body-worn	Hotspot
		(Separation 0 mm)	(Separation 10 mm)	(Separation 10 mm)	(Separation 0 mm)	(Separation 10 mm)	(Separation 10 mm)
PCE	GSM 850	0.30	0.17	0.17	0.61	0.33	0.33
	GSM 1900	0.23	0.15	0.20			
	WCDMA B2	0.34	0.16	0.28			
	WCDMA B4	0.26	0.12	0.20			
	WCDMA B5	0.61	0.20	0.20			
	LTE B2	0.47	0.18	0.19			
	LTE B4	0.39	0.13	0.13			
	LTE B5	0.52	0.16	0.16			
	LTE B7	0.52	0.24	0.24			
	LTE B41	0.51	0.22	0.24			
DTS	2.4G WIFI	0.58	0.33	0.33			
U-NII	5G WIFI	0.43	0.25	0.25			
DSS	Bluetooth	0.30	0.12	0.12			
Limits (W/kg)		1.6			1.6		
Test Verdict		Pass					
Note: This device supports LTE B38 and LTE B41. Since the supported frequency span for LTE B38 falls completely within the supports frequency span for LTE B41, these LTE bands share the same transmission path, and B38 have lower or the same target power as LTE B41; Therefore, SAR was only assessed for LTE B41.							

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)
PCE	1.24	0.60	0.60
Limit (W/Kg)	1.60	1.60	1.60
Verdict	Pass		
Note: The highest simultaneous SAR please refer section 12			

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	(c) 1g	(c) 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:

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

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

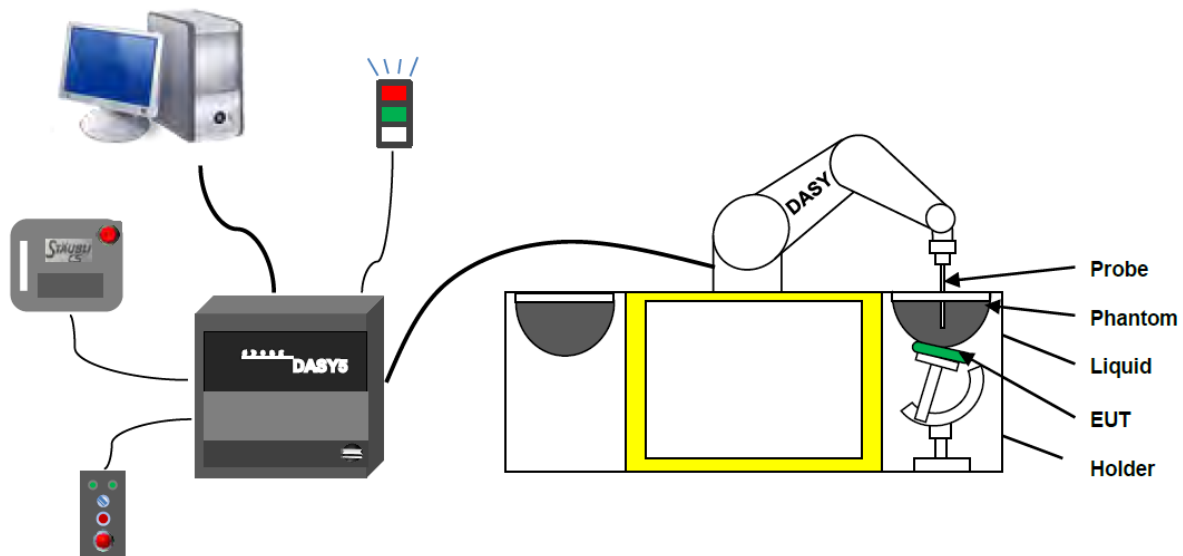
$$SAR = \frac{\sigma E^2}{\rho}$$

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

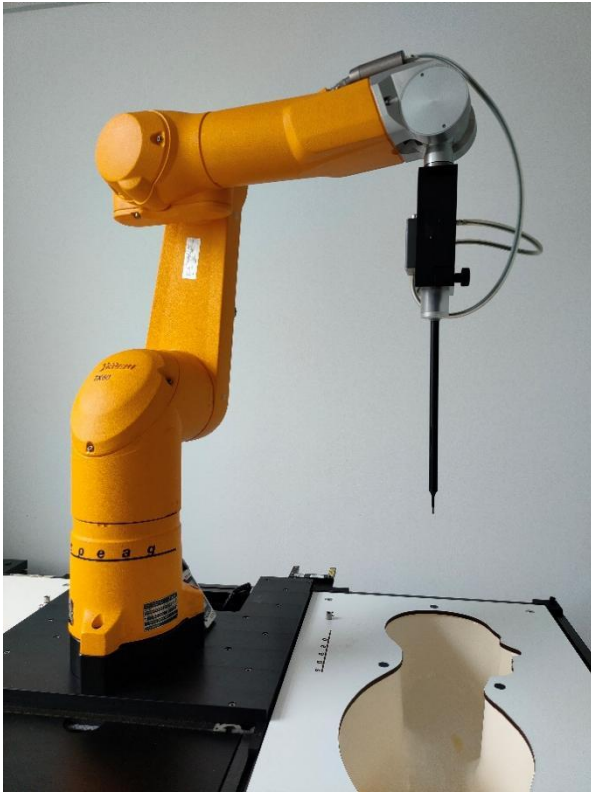


The DASY5 system for performing compliance tests consists of the following items:

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., glycoether)
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

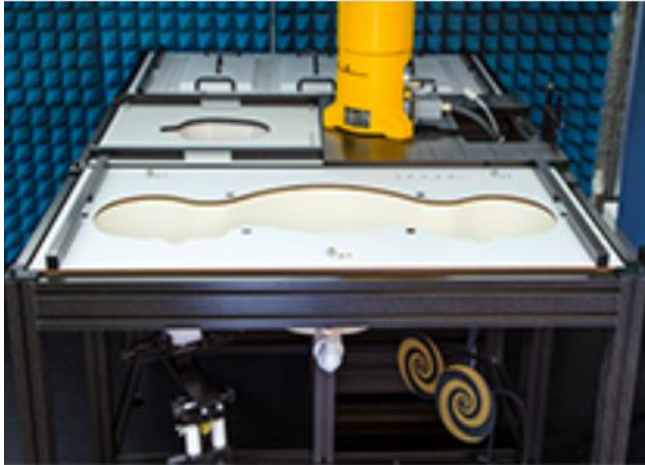
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



- Input Impedance: 200M Ω m
- The Inputs: Symmetrical and Floating
- Commom 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 SN1473



Serial Number	Material	Length	Height
SN1473 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.

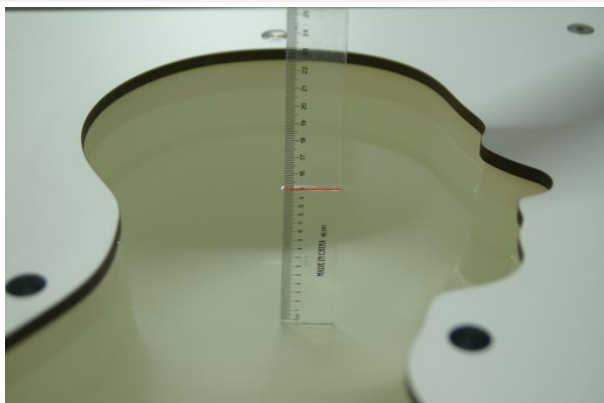


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1° .

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

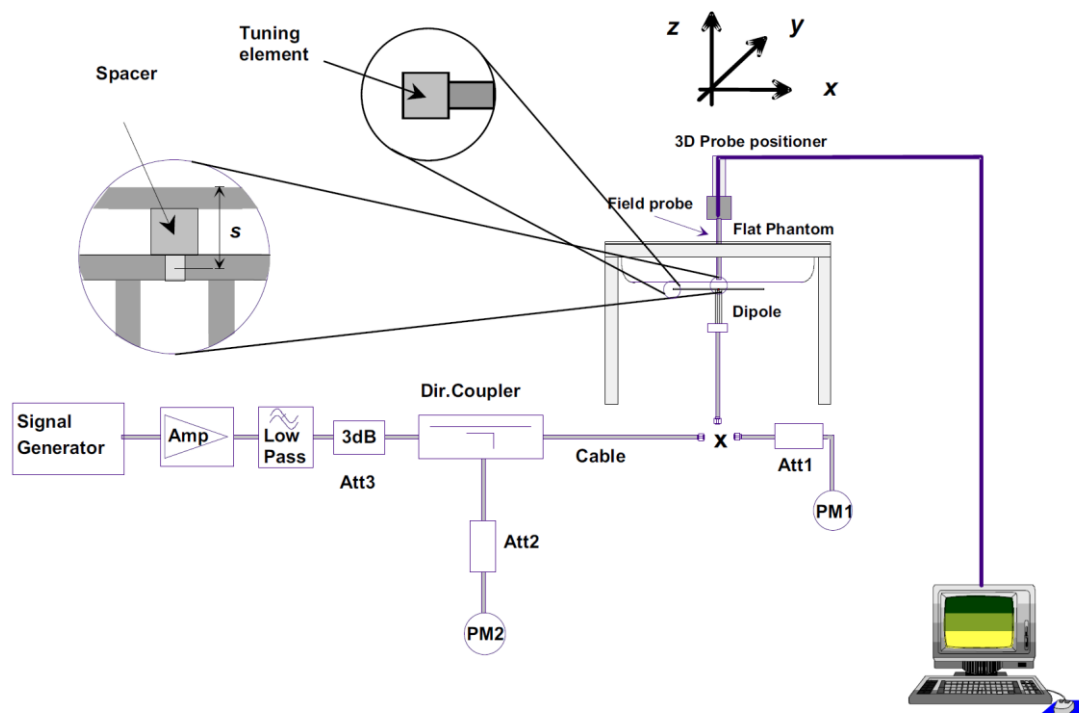
5 SYSTEM VERIFICATION

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

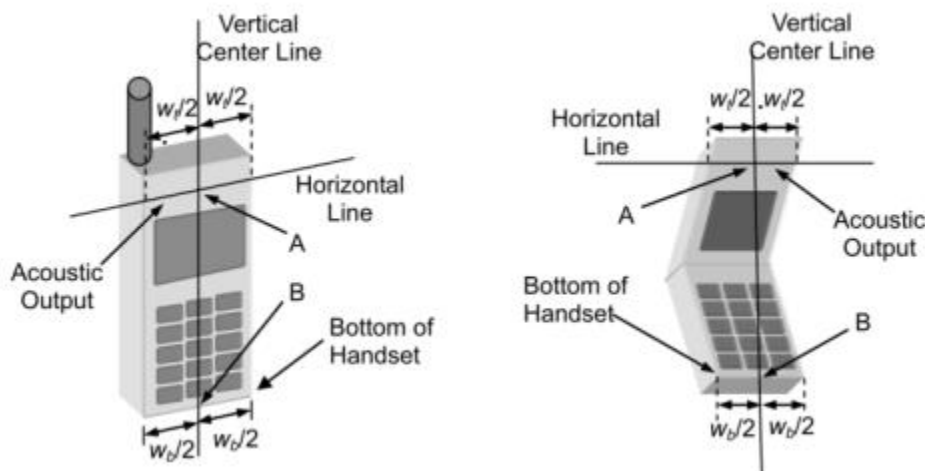
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.

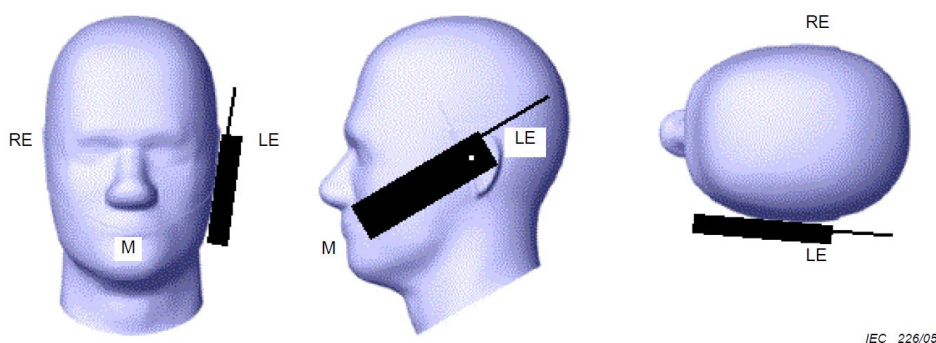
6.1.1 Two Imaginary Lines on the Handset

- 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.

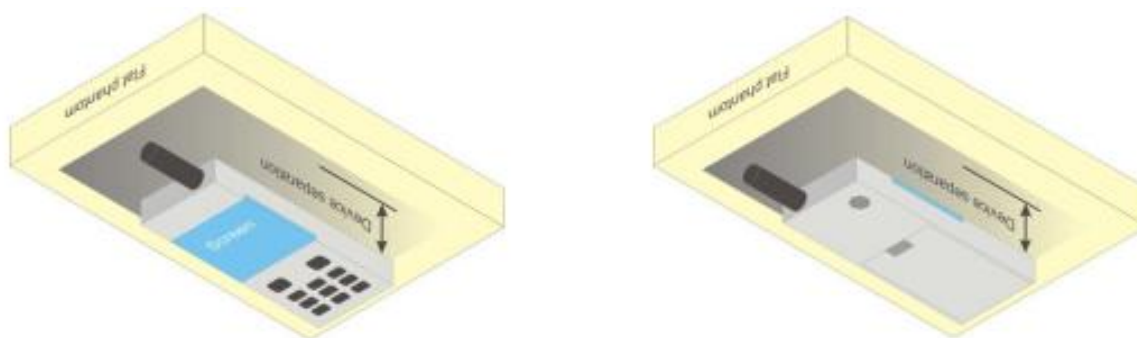


6.2 Body-worn Position Conditions

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.

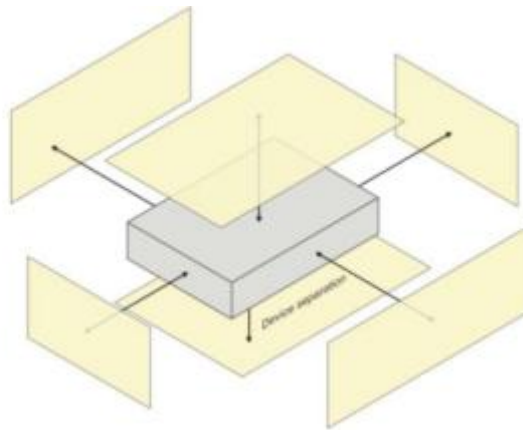
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



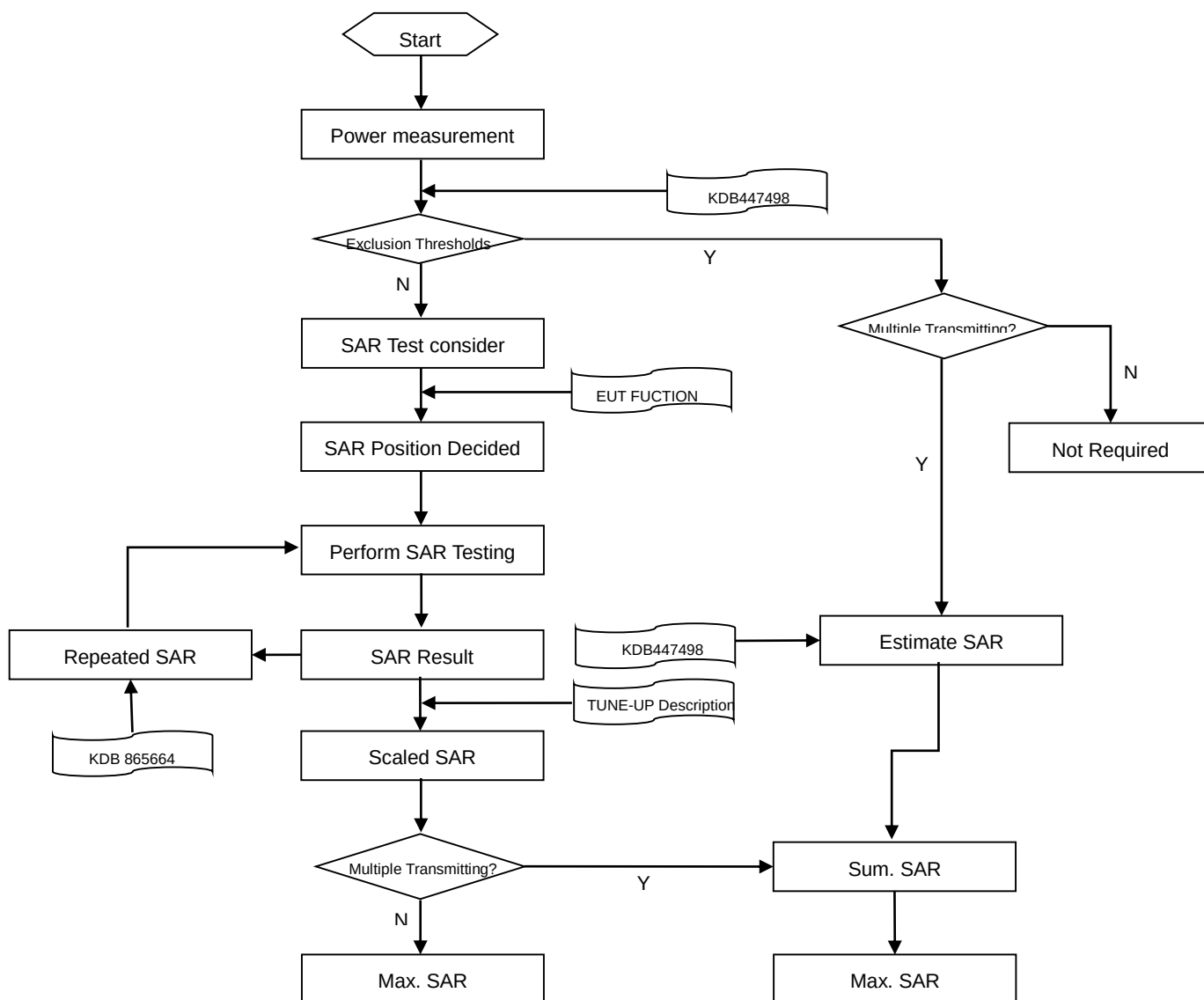
6.4 Product Specific 10g Exposure Consideration

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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±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 "Ti-CC26010298-AP.pdf".

8.2 WCDMA

Please refer the document "Ti-CC26010298-AP.pdf".

8.3 LTE

Please refer the document "Ti-CC26010298-AP.pdf".

8.4 Intra-Band Uplink CA Normal Power

Please refer the document "Ti-CC26010298-AP.pdf".

8.5 WIFI

8.5.1 2.4G WIFI -Ant.12

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	16.11	17.50	No
		6	2437	16.49	17.50	Yes
		11	2462	16.46	17.50	No
	802.11g	1	2412	14.04	15.50	No
		6	2437	14.32	15.50	No
		11	2462	14.21	15.50	No
	802.11n(HT20)	1	2412	14.77	16.50	No
		6	2437	15.09	16.50	No
		11	2462	15.02	16.50	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.

8.5.2.2.4G WIFI -Ant.13

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	16.49	17.50	No
		6	2437	17.03	17.50	Yes
		11	2462	16.69	17.50	No
	802.11g	1	2412	14.44	15.50	No
		6	2437	14.77	15.50	No
		11	2462	14.47	15.50	No
	802.11n(HT20)	1	2412	15.23	16.50	No
		6	2437	15.61	16.50	No
		11	2462	15.30	16.50	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.

8.5.3 5G WIFI-Ant.14

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	14.70	15.50	No
		44	5220	14.61	15.50	No
		48	5240	14.58	15.50	No
	802.11n(HT20)	36	5180	15.72	16.50	No
		44	5220	16.21	17.00	Yes
		48	5240	15.67	16.50	No
	802.11n(HT40)	38	5190	15.78	16.50	No
		46	5230	16.12	16.50	No
	802.11ac(VHT20)	36	5180	15.29	16.50	No
		44	5220	15.67	16.50	No
		48	5240	15.61	16.50	No
	802.11ac(VHT40)	38	5190	15.77	16.50	No
		46	5230	15.10	16.00	No

	802.11ac(VHT80)	42	5210	14.88	15.50	No
5.3 (5.25~5.35)	802.11a	52	5260	10.08	11.00	No
		60	5300	9.89	11.00	No
		64	5320	10.29	11.00	No
	802.11n(HT20)	52	5260	11.45	12.50	No
		60	5300	11.81	12.50	Yes
		64	5320	11.70	12.50	No
	802.11n(HT40)	54	5270	11.41	12.00	No
		62	5310	11.73	12.00	No
	802.11ac(VHT20)	52	5260	10.98	11.50	No
		60	5300	10.79	11.50	No
		64	5320	10.71	11.50	No
	802.11ac(VHT40)	54	5270	10.87	11.50	No
		62	5310	11.25	11.50	No
	802.11ac(VHT80)	58	5290	10.50	11.50	No
5.6 (5.47~5.725)	802.11a	100	5500	12.16	13.50	No
		116	5580	12.84	13.50	No
		140	5700	12.55	13.50	No
	802.11n(HT20)	100	5500	13.43	14.50	No
		116	5580	14.04	15.00	No
		140	5700	14.33	15.00	Yes
	802.11n(HT40)	102	5510	13.38	14.50	No
		118	5590	14.04	14.50	No
		134	5670	13.78	14.50	No
	802.11ac(VHT20)	100	5500	12.92	14.00	No
		116	5580	13.08	14.00	No
		140	5700	13.31	14.00	No
	802.11ac(VHT40)	102	5510	12.87	14.00	No
		118	5590	13.08	14.00	No
		134	5670	13.29	14.00	No
	802.11ac(VHT80)	106	5530	12.56	13.50	No
		122	5690	12.87	13.50	No
5.8 (5.725~5.850)	802.11a	149	5745	14.15	15.00	No
		157	5785	14.24	15.00	No
		165	5825	14.15	15.00	No
	802.11n(HT20)	149	5745	15.59	17.00	No
		157	5785	16.13	17.00	Yes
		165	5825	16.03	17.00	No
	802.11n(HT40)	151	5755	15.53	16.50	No

		159	5795	15.58	16.50	No
	802.11ac(VHT20)	149	5745	15.06	16.00	No
		157	5785	15.18	16.00	No
		165	5825	15.10	16.00	No
	802.11ac(VHT40)	151	5755	15.07	16.00	No
		159	5795	15.09	16.00	No
	802.11ac(VHT80)	155	5775	14.79	16.00	No

Note: 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.

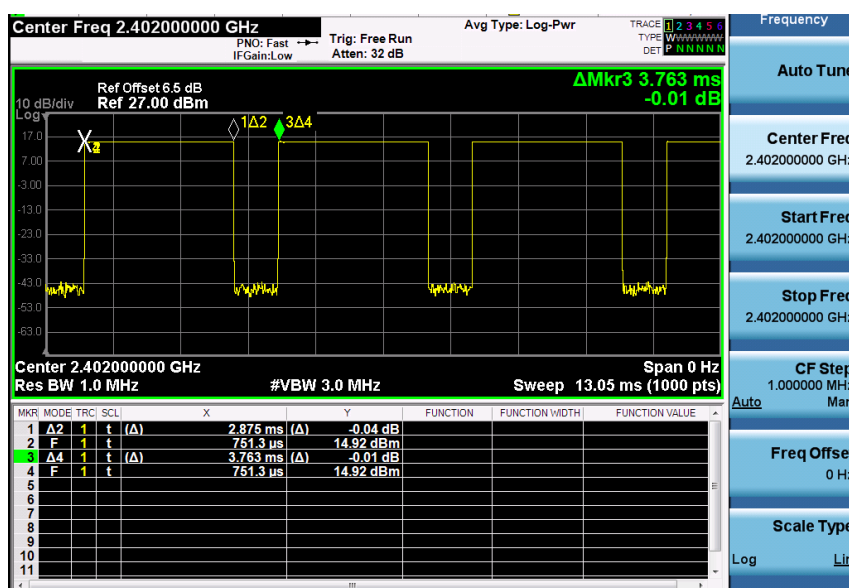
8.6 Bluetooth

8.6.1 Bluetooth -Ant.12

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	14.22	14.42	14.19	13.61	13.70	13.57
Tune-Up Limit (dBm)	15.00	15.00	15.00	14.50	14.50	14.50
SAR Test Require	NO	YES	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conducted Power (dBm)	13.64	13.75	13.55	/	/	/
Tune-Up Limit (dBm)	14.50	14.50	14.50	/	/	/
SAR Test Require	NO	NO	NO	NO	NO	NO
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	38	0	19	38
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Conducted Power (dBm)	14.30	14.26	13.94	14.19	14.41	14.39
Tune-Up Limit (dBm)	15.00	15.00	15.00	15.00	15.00	15.00
SAR Test Require	NO	NO	NO	NO	NO	NO

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

The Bluetooth duty cycle is 76.40% 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.

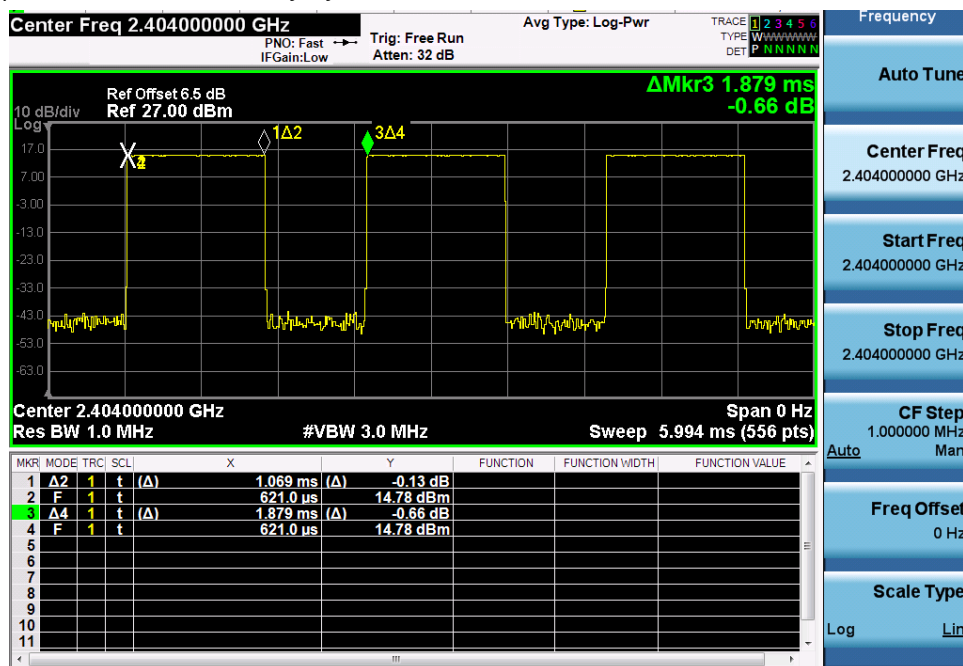


8.6.2 Bluetooth I -Ant.13

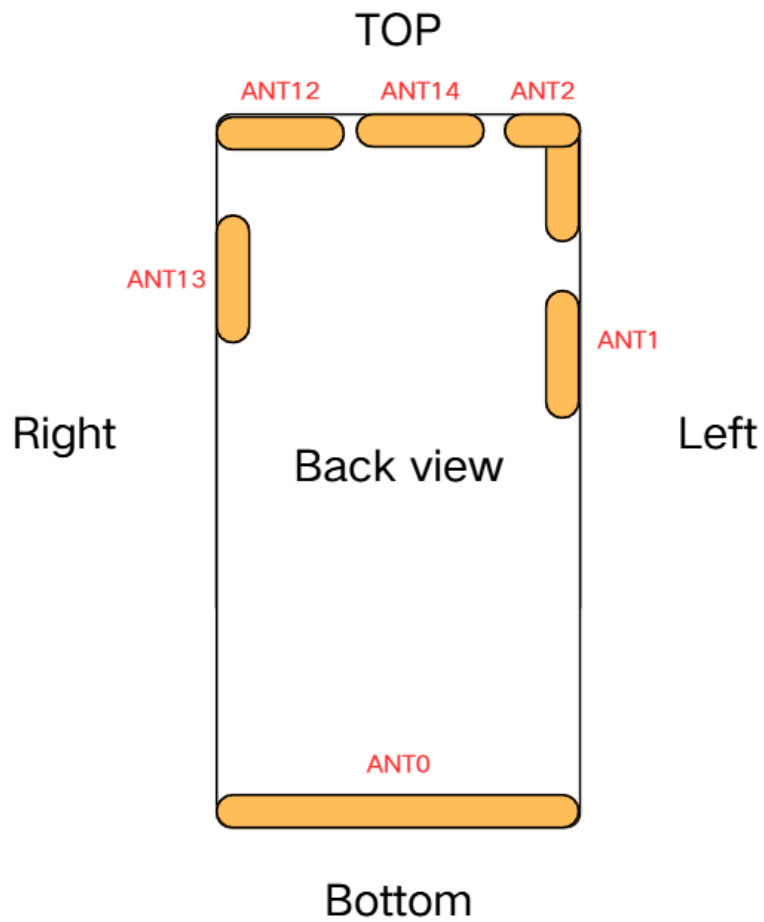
Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	13.57	13.48	14.01	12.86	12.79	13.26
Tune-Up Limit (dBm)	14.50	14.50	15.00	13.50	13.50	14.00
SAR Test Require	NO	NO	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conducted Power (dBm)	12.87	12.84	13.35	/	/	/
Tune-Up Limit (dBm)	13.50	13.50	14.00	/	/	/
SAR Test Require	NO	NO	NO	NO	NO	NO
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	38	0	19	38
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Conducted Power (dBm)	13.47	13.44	13.88	13.95	13.67	14.40
Tune-Up Limit (dBm)	14.50	14.50	14.50	14.50	14.50	15.00
SAR Test Require	NO	NO	NO	NO	NO	YES

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

The Bluetooth duty cycle is 56.89% 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 Antenna Location



Antenna	Support Bands
Ant.2	2G/3G/4G
Ant.12	WIFI 2.4G/BT
Ant.13	WIFI 2.4G/BT
Ant.14	WIFI 5G
Ant.0	Only Receive
Ant.1	Only Receive

10 TEST RESULT

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

10.1 GSM 850

Test Band	Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
	Head												
GSM 850	Ant.2	Left cheek	0mm	GPRS 2TX	190	836.6	0.06	0.233	26.38	27.50	1.294	0.302	1
GSM 850	Ant.2	Left tilt	0mm		190	836.6	0.15	0.211	26.38	27.50	1.294	0.273	/
GSM 850	Ant.2	Right cheek	0mm		190	836.6	0.06	0.209	26.38	27.50	1.294	0.270	/
GSM 850	Ant.2	Right tilt	0mm		190	836.6	0.13	0.144	26.38	27.50	1.294	0.186	/
	Body-worn&Hotspot												
GSM 850	Ant.2	Front side	10mm	GPRS 2TX	190	836.6	0.10	0.122	26.38	27.50	1.294	0.158	/
GSM 850	Ant.2	Back side	10mm		190	836.6	-0.20	0.130	26.38	27.50	1.294	0.168	2
GSM 850	Ant.2	Left side	10mm		190	836.6	-0.17	0.068	26.38	27.50	1.294	0.088	/
GSM 850	Ant.2	Right side	10mm		190	836.6	0.11	0.052	26.38	27.50	1.294	0.067	/
GSM 850	Ant.2	Top side	10mm		190	836.6	0.03	0.121	26.38	27.50	1.294	0.157	/
GSM 850	Ant.2	Bottom side	10mm		190	836.6	0.13	0.031	26.38	27.50	1.294	0.040	/

10.2 GSM 1900

Test Band	Antenna	Test Position	Dist.	Test Mode	Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. No.
	Head												
GSM 1900	Ant.2	Left cheek	0mm	GPRS 2TX	661	1880	-0.14	0.127	20.79	22.00	1.321	0.168	/
GSM 1900	Ant.2	Left tilt	0mm		661	1880	-0.02	0.174	20.79	22.00	1.321	0.230	3
GSM 1900	Ant.2	Right cheek	0mm		661	1880	0.04	0.108	20.79	22.00	1.321	0.143	/
GSM 1900	Ant.2	Right tilt	0mm		661	1880	-0.13	0.101	20.79	22.00	1.321	0.133	/
	Body-worn&Hotspot												
GSM 1900	Ant.2	Front side	10mm	GPRS 2TX	661	1880	-0.09	0.076	20.79	22.00	1.321	0.100	/
GSM 1900	Ant.2	Back side	10mm		661	1880	0.16	0.114	20.79	22.00	1.321	0.151	/
GSM 1900	Ant.2	Left side	10mm		661	1880	-0.19	0.032	20.79	22.00	1.321	0.042	/
GSM 1900	Ant.2	Right side	10mm		661	1880	0.07	0.028	20.79	22.00	1.321	0.037	/
GSM 1900	Ant.2	Top side	10mm		661	1880	0.19	0.154	20.79	22.00	1.321	0.203	4
GSM 1900	Ant.2	Bottom side	10mm		661	1880	0.12	0.025	20.79	22.00	1.321	0.033	/

10.3 WCDMA Band 2

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
Head													
WCDMA B2	Ant.2	Left cheek	0mm	RMC 12.2Kbps	9400	1880	-0.05	0.173	13.46	14.50	1.271	0.220	/
WCDMA B2	Ant.2	Left tilt	0mm		9400	1880	-0.04	0.220	13.46	14.50	1.271	0.280	/
WCDMA B2	Ant.2	Right cheek	0mm		9400	1880	-0.18	0.271	13.46	14.50	1.271	0.344	5
WCDMA B2	Ant.2	Right tilt	0mm		9400	1880	0.10	0.221	13.46	14.50	1.271	0.281	/
Body-worn&Hotspot													
WCDMA B2	Ant.2	Front side	10mm	RMC 12.2Kbps	9400	1880	-0.09	0.088	13.46	14.50	1.271	0.112	/
WCDMA B2	Ant.2	Back side	10mm		9400	1880	-0.02	0.129	13.46	14.50	1.271	0.164	/
WCDMA B2	Ant.2	Left side	10mm		9400	1880	-0.08	0.030	13.46	14.50	1.271	0.038	/
WCDMA B2	Ant.2	Right side	10mm		9400	1880	0.07	0.026	13.46	14.50	1.271	0.033	/
WCDMA B2	Ant.2	Top side	10mm		9400	1880	-0.03	0.223	13.46	14.50	1.271	0.283	6
WCDMA B2	Ant.2	Bottom side	10mm		9400	1880	0.05	0.018	13.46	14.50	1.271	0.023	/

10.4 WCDMA Band 4

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
	Head												
WCDMA B4	Ant.2	Left cheek	0mm	RMC 12.2Kbps	1413	1732.6	0.07	0.153	13.54	14.50	1.247	0.191	/
WCDMA B4	Ant.2	Left tilt	0mm		1413	1732.6	0.04	0.212	13.54	14.50	1.247	0.264	7
WCDMA B4	Ant.2	Right cheek	0mm		1413	1732.6	0.07	0.201	13.54	14.50	1.247	0.251	/
WCDMA B4	Ant.2	Right tilt	0mm		1413	1732.6	-0.12	0.193	13.54	14.50	1.247	0.241	/
	Body-worn&Hotspot												
WCDMA B4	Ant.2	Front side	10mm	RMC 12.2Kbps	1413	1732.6	-0.11	0.078	13.54	14.50	1.247	0.097	/
WCDMA B4	Ant.2	Back side	10mm		1413	1732.6	0.08	0.097	13.54	14.50	1.247	0.121	/
WCDMA B4	Ant.2	Left side	10mm		1413	1732.6	0.03	0.030	13.54	14.50	1.247	0.037	/
WCDMA B4	Ant.2	Right side	10mm		1413	1732.6	-0.12	0.028	13.54	14.50	1.247	0.035	/
WCDMA B4	Ant.2	Top side	10mm		1413	1732.6	-0.15	0.158	13.54	14.50	1.247	0.197	8
WCDMA B4	Ant.2	Bottom side	10mm		1413	1732.6	-0.11	0.022	13.54	14.50	1.247	0.027	/

10.5 WCDMA Band 5

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
	Head												
WCDMA B5	Ant.2	Left cheek	0mm	RMC 12.2Kbps	4182	836.4	0.09	0.460	21.07	22.00	1.239	0.570	/
WCDMA B5	Ant.2	Left tilt	0mm		4182	836.4	-0.16	0.465	21.07	22.00	1.239	0.576	/
WCDMA B5	Ant.2	Right cheek	0mm		4182	836.4	0.08	0.492	21.07	22.00	1.239	0.609	9
WCDMA B5	Ant.2	Right tilt	0mm		4182	836.4	0.11	0.480	21.07	22.00	1.239	0.595	/
	Body-worn&Hotspot												
WCDMA B5	Ant.2	Front side	10mm	RMC 12.2Kbps	4182	836.4	-0.01	0.134	21.07	22.00	1.239	0.166	/
WCDMA B5	Ant.2	Back side	10mm		4182	836.4	-0.14	0.162	21.07	22.00	1.239	0.201	10
WCDMA B5	Ant.2	Left side	10mm		4182	836.4	-0.12	0.075	21.07	22.00	1.239	0.093	/
WCDMA B5	Ant.2	Right side	10mm		4182	836.4	0.01	0.073	21.07	22.00	1.239	0.090	/
WCDMA B5	Ant.2	Top side	10mm		4182	836.4	-0.18	0.160	21.07	22.00	1.239	0.198	/
WCDMA B5	Ant.2	Bottom side	10mm		4182	836.4	0.13	0.029	21.07	22.00	1.239	0.036	/

10.6 LTE Band 2

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
	Head														
LTE B2	Ant.2	Left cheek	0mm	QPSK-20MHz	18900	1880	1	0	-0.16	0.199	13.60	14.50	1.230	0.245	/
LTE B2	Ant.2	Left tilt	0mm		18900	1880	1	0	-0.12	0.229	13.60	14.50	1.230	0.282	/
LTE B2	Ant.2	Right cheek	0mm		18900	1880	1	0	0.09	0.260	13.60	14.50	1.230	0.320	/
LTE B2	Ant.2	Right tilt	0mm		18900	1880	1	0	0.12	0.381	13.60	14.50	1.230	0.469	11
LTE B2	Ant.2	Left cheek	0mm		18900	1880	50	0	0.03	0.148	12.47	13.50	1.268	0.188	/
LTE B2	Ant.2	Left tilt	0mm		18900	1880	50	0	0.05	0.175	12.47	13.50	1.268	0.222	/
LTE B2	Ant.2	Right cheek	0mm		18900	1880	50	0	0.13	0.207	12.47	13.50	1.268	0.262	/
LTE B2	Ant.2	Right tilt	0mm		18900	1880	50	0	0.17	0.241	12.47	13.50	1.268	0.306	/
	Body-worn&Hotspot														
LTE B2	Ant.2	Front side	10mm	QPSK-20MHz	18900	1880	1	0	-0.12	0.096	13.60	14.50	1.230	0.118	/
LTE B2	Ant.2	Back side	10mm		18900	1880	1	0	0.17	0.145	13.60	14.50	1.230	0.178	/
LTE B2	Ant.2	Left side	10mm		18900	1880	1	0	-0.01	0.033	13.60	14.50	1.230	0.041	/
LTE B2	Ant.2	Right side	10mm		18900	1880	1	0	-0.1	0.029	13.60	14.50	1.230	0.036	/
LTE B2	Ant.2	Top side	10mm		18900	1880	1	0	0.09	0.153	13.60	14.50	1.230	0.188	12
LTE B2	Ant.2	Bottom side	10mm		18900	1880	1	0	0.07	0.023	13.60	14.50	1.230	0.028	/
LTE B2	Ant.2	Front side	10mm		18900	1880	50	0	0.02	0.075	12.47	13.50	1.268	0.095	/
LTE B2	Ant.2	Back side	10mm		18900	1880	50	0	0.14	0.113	12.47	13.50	1.268	0.143	/
LTE B2	Ant.2	Left side	10mm		18900	1880	50	0	0.14	0.031	12.47	13.50	1.268	0.039	/
LTE B2	Ant.2	Right side	10mm		18900	1880	50	0	-0.04	0.026	12.47	13.50	1.268	0.033	/
LTE B2	Ant.2	Top side	10mm		18900	1880	50	0	-0.16	0.148	12.47	13.50	1.268	0.188	/
LTE B2	Ant.2	Bottom side	10mm		18900	1880	50	0	0.09	0.024	12.47	13.50	1.268	0.030	/

10.7 LTE Band 2 Worse case for CA Test

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
Head															
LTE B2	Ant.2	Right tilt	0mm	QPSK-20MHz	188011+18999	1870.1	1+99	1+0	0.12	0.362	13.52	14.50	1.253	0.454	/
Body-worn&Hotspot															
LTE B2	Ant.2	Top side	10mm	QPSK-20MHz	188011+18999	1870.1	1+99	1+0	-0.11	0.139	13.52	14.50	1.253	0.174	/

10.8 LTE Band 4

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
	Head														
LTE B4	Ant.2	Left cheek	0mm	QPSK-20MHz	20175	1732.5	1	0	0.04	0.182	14.09	15.00	1.233	0.224	/
LTE B4	Ant.2	Left tilt	0mm		20175	1732.5	1	0	-0.18	0.229	14.09	15.00	1.233	0.282	/
LTE B4	Ant.2	Right cheek	0mm		20175	1732.5	1	0	-0.18	0.191	14.09	15.00	1.233	0.236	/
LTE B4	Ant.2	Right tilt	0mm		20175	1732.5	1	0	0.11	0.314	14.09	15.00	1.233	0.387	13
LTE B4	Ant.2	Left cheek	0mm		20175	1732.5	50	0	-0.17	0.144	13.02	14.00	1.253	0.180	/
LTE B4	Ant.2	Left tilt	0mm		20175	1732.5	50	0	0.14	0.177	13.02	14.00	1.253	0.222	/
LTE B4	Ant.2	Right cheek	0mm		20175	1732.5	50	0	-0.05	0.170	13.02	14.00	1.253	0.213	/
LTE B4	Ant.2	Right tilt	0mm		20175	1732.5	50	0	0.15	0.224	13.02	14.00	1.253	0.281	/
	Body-worn&Hotspot														
LTE B4	Ant.2	Front side	10mm	QPSK-20MHz	20175	1732.5	1	0	-0.04	0.085	14.09	15.00	1.233	0.105	/
LTE B4	Ant.2	Back side	10mm		20175	1732.5	1	0	0.17	0.103	14.09	15.00	1.233	0.127	/
LTE B4	Ant.2	Left side	10mm		20175	1732.5	1	0	0.18	0.033	14.09	15.00	1.233	0.041	/
LTE B4	Ant.2	Right side	10mm		20175	1732.5	1	0	-0.07	0.029	14.09	15.00	1.233	0.036	/
LTE B4	Ant.2	Top side	10mm		20175	1732.5	1	0	0.09	0.107	14.09	15.00	1.233	0.132	14
LTE B4	Ant.2	Bottom side	10mm		20175	1732.5	1	0	-0.1	0.028	14.09	15.00	1.233	0.035	/
LTE B4	Ant.2	Front side	10mm		20175	1732.5	50	0	0.05	0.066	13.02	14.00	1.253	0.083	/
LTE B4	Ant.2	Back side	10mm		20175	1732.5	50	0	0.06	0.087	13.02	14.00	1.253	0.109	/
LTE B4	Ant.2	Left side	10mm		20175	1732.5	50	0	-0.02	0.030	13.02	14.00	1.253	0.038	/
LTE B4	Ant.2	Right side	10mm		20175	1732.5	50	0	0.18	0.028	13.02	14.00	1.253	0.035	/
LTE B4	Ant.2	Top side	10mm		20175	1732.5	50	0	0.09	0.104	13.02	14.00	1.253	0.130	/
LTE B4	Ant.2	Bottom side	10mm		20175	1732.5	50	0	0.16	0.024	13.02	14.00	1.253	0.030	/

10.9 LTE Band 5

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
Head															
LTE B5	Ant.2	Left cheek	0mm	QPSK-10MHz	20525	836.5	1	0	-0.18	0.417	21.07	22.00	1.239	0.517	/
LTE B5	Ant.2	Left tilt	0mm		20525	836.5	1	0	0.09	0.413	21.07	22.00	1.239	0.512	/
LTE B5	Ant.2	Right cheek	0mm		20525	836.5	1	0	-0.12	0.422	21.07	22.00	1.239	0.523	15
LTE B5	Ant.2	Right tilt	0mm		20525	836.5	1	0	0.07	0.402	21.07	22.00	1.239	0.498	/
LTE B5	Ant.2	Left cheek	0mm		20525	836.5	25	0	0.15	0.370	19.97	21.00	1.268	0.469	/
LTE B5	Ant.2	Left tilt	0mm		20525	836.5	25	0	-0.09	0.360	19.97	21.00	1.268	0.456	/
LTE B5	Ant.2	Right cheek	0mm		20525	836.5	25	0	0.07	0.407	19.97	21.00	1.268	0.516	/
LTE B5	Ant.2	Right tilt	0mm		20525	836.5	25	0	0.09	0.402	19.97	21.00	1.268	0.510	/
Body-worn&Hotspot															
LTE B5	Ant.2	Front side	10mm	QPSK-10MHz	20525	836.5	1	0	-0.14	0.105	21.07	22.00	1.239	0.130	/
LTE B5	Ant.2	Back side	10mm		20525	836.5	1	0	0.04	0.126	21.07	22.00	1.239	0.156	16
LTE B5	Ant.2	Left side	10mm		20525	836.5	1	0	0.16	0.059	21.07	22.00	1.239	0.073	/
LTE B5	Ant.2	Right side	10mm		20525	836.5	1	0	0.1	0.055	21.07	22.00	1.239	0.068	/
LTE B5	Ant.2	Top side	10mm		20525	836.5	1	0	0.01	0.110	21.07	22.00	1.239	0.136	/
LTE B5	Ant.2	Bottom side	10mm		20525	836.5	1	0	-0.01	0.030	21.07	22.00	1.239	0.037	/
LTE B5	Ant.2	Front side	10mm		20525	836.5	25	0	0.17	0.111	19.97	21.00	1.268	0.141	/
LTE B5	Ant.2	Back side	10mm		20525	836.5	25	0	0.08	0.115	19.97	21.00	1.268	0.146	/
LTE B5	Ant.2	Left side	10mm		20525	836.5	25	0	-0.11	0.059	19.97	21.00	1.268	0.075	/
LTE B5	Ant.2	Right side	10mm		20525	836.5	25	0	0.19	0.046	19.97	21.00	1.268	0.058	/
LTE B5	Ant.2	Top side	10mm		20525	836.5	25	0	0.02	0.110	19.97	21.00	1.268	0.139	/
LTE B5	Ant.2	Bottom side	10mm		20525	836.5	25	0	0.11	0.029	19.97	21.00	1.268	0.037	/

10.10 LTE Band 5 Worse case for CA Test

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
Head															
LTE B5	Ant.2	Right cheek	0mm	QPSK-10MHz	20476+20575	831.6	1+49	1+0	-0.05	0.401	20.94	22.00	1.276	0.512	/
Body-worn&Hotspot															
LTE B5	Ant.2	Back side	10mm	QPSK-10MHz	20476+20575	831.6	1+49	1+0	0.07	0.105	20.94	22.00	1.276	0.134	/

10.11 LTE Band 7

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	RB num.	RB Start	-0.05	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
	Head														
LTE B7	Ant.2	Left cheek	0mm	QPSK-20MHz	21100	2535	1	0	0.15	0.121	13.76	14.50	1.186	0.143	/
LTE B7	Ant.2	Left tilt	0mm		21100	2535	1	0	0.03	0.147	13.76	14.50	1.186	0.174	/
LTE B7	Ant.2	Right cheek	0mm		21100	2535	1	0	0.15	0.183	13.76	14.50	1.186	0.217	/
LTE B7	Ant.2	Right tilt	0mm		21100	2535	1	0	0.1	0.438	13.76	14.50	1.186	0.519	17
LTE B7	Ant.2	Left cheek	0mm		21100	2535	50	0	0.14	0.095	12.65	13.50	1.216	0.116	/
LTE B7	Ant.2	Left tilt	0mm		21100	2535	50	0	-0.16	0.120	12.65	13.50	1.216	0.146	/
LTE B7	Ant.2	Right cheek	0mm		21100	2535	50	0	-0.07	0.163	12.65	13.50	1.216	0.198	/
LTE B7	Ant.2	Right tilt	0mm		21100	2535	50	0	-0.12	0.423	12.65	13.50	1.216	0.514	/
	Body-worn&Hotspot														
LTE B7	Ant.2	Front side	10mm	QPSK-20MHz	21100	2535	1	0	0.02	0.093	13.76	14.50	1.186	0.110	/
LTE B7	Ant.2	Back side	10mm		21100	2535	1	0	0.06	0.200	13.76	14.50	1.186	0.237	/
LTE B7	Ant.2	Left side	10mm		21100	2535	1	0	-0.02	0.049	13.76	14.50	1.186	0.058	/
LTE B7	Ant.2	Right side	10mm		21100	2535	1	0	0.15	0.030	13.76	14.50	1.186	0.036	/
LTE B7	Ant.2	Top side	10mm		21100	2535	1	0	0.15	0.206	13.76	14.50	1.186	0.244	18
LTE B7	Ant.2	Bottom side	10mm		21100	2535	1	0	0.12	0.029	13.76	14.50	1.186	0.034	/
LTE B7	Ant.2	Front side	10mm		21100	2535	50	0	-0.07	0.078	12.65	13.50	1.216	0.095	/
LTE B7	Ant.2	Back side	10mm		21100	2535	50	0	0.06	0.178	12.65	13.50	1.216	0.216	/
LTE B7	Ant.2	Left side	10mm		21100	2535	50	0	-0.14	0.039	12.65	13.50	1.216	0.047	/
LTE B7	Ant.2	Right side	10mm		21100	2535	50	0	0.03	0.042	12.65	13.50	1.216	0.051	/
LTE B7	Ant.2	Top side	10mm		21100	2535	50	0	-0.19	0.192	12.65	13.50	1.216	0.234	/
LTE B7	Ant.2	Bottom side	10mm		21100	2535	50	0	0.02	0.024	12.65	13.50	1.216	0.029	/

10.12 LTE Band 7 Worse case for CA Test

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
Head															
LTE B7	Ant.2	Right tilt	0mm	QPSK-20MHz	21001+21199	2525.1	1+99	1+0	0.09	0.412	13.67	14.50	1.211	0.499	/
Body-worn&Hotspot															
LTE B7	Ant.2	Top side	10mm	QPSK-20MHz	21001+21199	2525.1	1+99	1+0	0.15	0.192	13.67	14.50	1.211	0.232	/

10.13 LTE Band 41

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
	Head														
LTE B41	Ant.2	Left cheek	0mm	QPSK-20MHz	40620	2593	1	0	-0.1	0.124	15.46	16.50	1.271	0.158	/
LTE B41	Ant.2	Left tilt	0mm		40620	2593	1	0	0.09	0.160	15.46	16.50	1.271	0.203	/
LTE B41	Ant.2	Right cheek	0mm		40620	2593	1	0	0.05	0.149	15.46	16.50	1.271	0.189	/
LTE B41	Ant.2	Right tilt	0mm		40620	2593	1	0	0.18	0.399	15.46	16.50	1.271	0.507	19
LTE B41	Ant.2	Left cheek	0mm		40620	2593	50	0	0.03	0.084	14.42	15.50	1.282	0.108	/
LTE B41	Ant.2	Left tilt	0mm		40620	2593	50	0	0.16	0.121	14.42	15.50	1.282	0.155	/
LTE B41	Ant.2	Right cheek	0mm		40620	2593	50	0	0.13	0.133	14.42	15.50	1.282	0.171	/
LTE B41	Ant.2	Right tilt	0mm		40620	2593	50	0	0.02	0.321	14.42	15.50	1.282	0.412	/
	Body-worn&Hotspot														
LTE B41	Ant.2	Front side	10mm	QPSK-20MHz	40620	2593	1	0	0.17	0.079	15.46	16.50	1.271	0.100	/
LTE B41	Ant.2	Back side	10mm		40620	2593	1	0	0.13	0.170	15.46	16.50	1.271	0.216	/
LTE B41	Ant.2	Left side	10mm		40620	2593	1	0	-0.04	0.041	15.46	16.50	1.271	0.052	/
LTE B41	Ant.2	Right side	10mm		40620	2593	1	0	0.19	0.040	15.46	16.50	1.271	0.051	/
LTE B41	Ant.2	Top side	10mm		40620	2593	1	0	-0.09	0.187	15.46	16.50	1.271	0.238	20
LTE B41	Ant.2	Bottom side	10mm		40620	2593	1	0	-0.17	0.031	15.46	16.50	1.271	0.039	/
LTE B41	Ant.2	Front side	10mm		40620	2593	50	0	0.02	0.062	14.42	15.50	1.282	0.080	/
LTE B41	Ant.2	Back side	10mm		40620	2593	50	0	-0.11	0.149	14.42	15.50	1.282	0.191	/
LTE B41	Ant.2	Left side	10mm		40620	2593	50	0	-0.16	0.032	14.42	15.50	1.282	0.041	/
LTE B41	Ant.2	Right side	10mm		40620	2593	50	0	-0.02	0.028	14.42	15.50	1.282	0.036	/
LTE B41	Ant.2	Top side	10mm		40620	2593	50	0	0.12	0.173	14.42	15.50	1.282	0.222	/
LTE B41	Ant.2	Bottom side	10mm		40620	2593	50	0	0.04	0.026	14.42	15.50	1.282	0.033	/

10.14 LTE Band 41 Worse case for CA Test

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	RB num.	RB Start	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Reported 1g SAR (W/kg)	Meas. no.
Head															
LTE B41	Ant.2	Right tilt	0mm	QPSK-20MHz	40521+40719	2583.1	1+99	1+0	0.16	0.367	15.38	16.50	1.294	0.475	/
Body-worn&Hotspot															
LTE B41	Ant.2	Top side	10mm	QPSK-20MHz	40521+40719	2583.1	1+99	1+0	0.18	0.164	15.38	16.50	1.294	0.212	/

10.15 WIFI 2.4GHZ

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq.(MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.
Head															
WLAN 2.4G	Ant.12	Left cheek	0mm	802.11b	6	2437	-0.16	0.455	16.49	17.50	1.262	99.52	1.005	0.577	21
WLAN 2.4G	Ant.12	Left tilt	0mm		6	2437	0.12	0.369	16.49	17.50	1.262	99.52	1.005	0.468	
WLAN 2.4G	Ant.12	Right cheek	0mm		6	2437	0.06	0.206	16.49	17.50	1.262	99.52	1.005	0.261	
WLAN 2.4G	Ant.12	Right tilt	0mm		6	2437	-0.12	0.270	16.49	17.50	1.262	99.52	1.005	0.342	
WLAN 2.4G	Ant.13	Left cheek	0mm	802.11b	6	2437	-0.17	0.434	17.03	17.50	1.114	99.52	1.005	0.486	
WLAN 2.4G	Ant.13	Left tilt	0mm		6	2437	0.05	0.184	17.03	17.50	1.114	99.52	1.005	0.206	
WLAN 2.4G	Ant.13	Right cheek	0mm		6	2437	-0.06	0.132	17.03	17.50	1.114	99.52	1.005	0.148	
WLAN 2.4G	Ant.13	Right tilt	0mm		6	2437	-0.14	0.073	17.03	17.50	1.114	99.52	1.005	0.082	
Body-worn&Hotspot															
WLAN 2.4G	Ant.12	Front side	10mm	802.11b	6	2437	-0.04	0.108	16.49	17.50	1.262	99.52	1.005	0.137	
WLAN 2.4G	Ant.12	Back side	10mm		6	2437	0.15	0.193	16.49	17.50	1.262	99.52	1.005	0.245	
WLAN 2.4G	Ant.12	Left side	10mm		6	2437	-0.04	0.033	16.49	17.50	1.262	99.52	1.005	0.042	
WLAN 2.4G	Ant.12	Right side	10mm		6	2437	-0.17	0.080	16.49	17.50	1.262	99.52	1.005	0.101	
WLAN 2.4G	Ant.12	Top side	10mm		6	2437	-0.12	0.124	16.49	17.50	1.262	99.52	1.005	0.157	
WLAN 2.4G	Ant.12	Bottom side	10mm		6	2437	0.17	0.028	16.49	17.50	1.262	99.52	1.005	0.036	
WLAN 2.4G	Ant.13	Front side	10mm	802.11b	6	2437	-0.05	0.086	17.03	17.50	1.114	99.52	1.005	0.096	
WLAN 2.4G	Ant.13	Back side	10mm		6	2437	0.01	0.291	17.03	17.50	1.114	99.52	1.005	0.326	22
WLAN 2.4G	Ant.13	Left side	10mm		6	2437	0.05	0.027	17.03	17.50	1.114	99.52	1.005	0.030	
WLAN 2.4G	Ant.13	Right side	10mm		6	2437	0.15	0.084	17.03	17.50	1.114	99.52	1.005	0.094	
WLAN 2.4G	Ant.13	Top side	10mm		6	2437	-0.17	0.061	17.03	17.50	1.114	99.52	1.005	0.068	
WLAN 2.4G	Ant.13	Bottom side	10mm		6	2437	-0.08	0.030	17.03	17.50	1.114	99.52	1.005	0.034	

10.16 WIFI 5GHZ

Test Band	Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq.(MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Duty Cycle (%)
Head															
WLAN 5.2G	Ant.14	Left cheek	0mm	802.11n(HT20)	44	5220	-0.17	0.212	16.21	17.00	1.199	97.23	1.028	0.261	
WLAN 5.2G	Ant.14	Left tilt	0mm		44	5220	0.06	0.323	16.21	17.00	1.199	97.23	1.028	0.398	23
WLAN 5.2G	Ant.14	Right cheek	0mm		44	5220	-0.14	0.212	16.21	17.00	1.199	97.23	1.028	0.261	
WLAN 5.2G	Ant.14	Right tilt	0mm		44	5220	-0.16	0.202	16.21	17.00	1.199	97.23	1.028	0.249	
WLAN 5.3G	Ant.14	Left cheek	0mm	802.11n(HT20)	60	5300	-0.09	0.185	11.81	12.50	1.172	97.23	1.028	0.223	
WLAN 5.3G	Ant.14	Left tilt	0mm		60	5300	0.14	0.220	11.81	12.50	1.172	97.23	1.028	0.265	24
WLAN 5.3G	Ant.14	Right cheek	0mm		60	5300	0.16	0.157	11.81	12.50	1.172	97.23	1.028	0.189	
WLAN 5.3G	Ant.14	Right tilt	0mm		60	5300	0.12	0.174	11.81	12.50	1.172	97.23	1.028	0.210	
WLAN 5.6G	Ant.14	Left cheek	0mm	802.11n(HT20)	140	5700	-0.08	0.197	14.33	15.00	1.167	97.23	1.028	0.236	
WLAN 5.6G	Ant.14	Left tilt	0mm		140	5700	0.05	0.254	14.33	15.00	1.167	97.23	1.028	0.305	25
WLAN 5.6G	Ant.14	Right cheek	0mm		140	5700	0.03	0.207	14.33	15.00	1.167	97.23	1.028	0.248	
WLAN 5.6G	Ant.14	Right tilt	0mm		140	5700	0.07	0.231	14.33	15.00	1.167	97.23	1.028	0.277	
WLAN 5.8G	Ant.14	Left cheek	0mm	802.11n(HT20)	157	5785	-0.18	0.267	16.13	17.00	1.222	97.23	1.028	0.335	
WLAN 5.8G	Ant.14	Left tilt	0mm		157	5785	0.17	0.313	16.13	17.00	1.222	97.23	1.028	0.393	
WLAN 5.8G	Ant.14	Right cheek	0mm		157	5785	0.13	0.341	16.13	17.00	1.222	97.23	1.028	0.428	26
WLAN 5.8G	Ant.14	Right tilt	0mm		157	5785	0.08	0.334	16.13	17.00	1.222	97.23	1.028	0.420	
Body-worn&Hotspot															
WLAN 5.2G	Ant.14	Front side	10mm	802.11n(HT20)	44	5220	-0.07	0.063	16.21	17.00	1.199	97.23	1.028	0.078	
WLAN 5.2G	Ant.14	Back side	10mm		44	5220	-0.07	0.129	16.21	17.00	1.199	97.23	1.028	0.159	27
WLAN 5.2G	Ant.14	Left side	10mm		44	5220	0.11	0.076	16.21	17.00	1.199	97.23	1.028	0.094	
WLAN 5.2G	Ant.14	Right side	10mm		44	5220	0.07	0.058	16.21	17.00	1.199	97.23	1.028	0.072	
WLAN 5.2G	Ant.14	Top side	10mm		44	5220	0.03	0.115	16.21	17.00	1.199	97.23	1.028	0.142	
WLAN 5.2G	Ant.14	Bottom side	10mm		44	5220	-0.01	0.030	16.21	17.00	1.199	97.23	1.028	0.037	
WLAN 5.3G	Ant.14	Front side	10mm	802.11n(HT20)	60	5300	0.18	0.062	11.81	12.50	1.172	97.23	1.028	0.075	
WLAN 5.3G	Ant.14	Back side	10mm		60	5300	0.05	0.119	11.81	12.50	1.172	97.23	1.028	0.143	28
WLAN 5.3G	Ant.14	Left side	10mm		60	5300	0.15	0.073	11.81	12.50	1.172	97.23	1.028	0.088	
WLAN 5.3G	Ant.14	Right side	10mm		60	5300	0.06	0.050	11.81	12.50	1.172	97.23	1.028	0.060	
WLAN 5.3G	Ant.14	Top side	10mm		60	5300	0.07	0.085	11.81	12.50	1.172	97.23	1.028	0.102	
WLAN 5.3G	Ant.14	Bottom side	10mm		60	5300	-0.12	0.023	11.81	12.50	1.172	97.23	1.028	0.028	
WLAN 5.6G	Ant.14	Front side	10mm	802.11n(HT20)	140	5700	0.11	0.066	14.33	15.00	1.167	97.23	1.028	0.079	
WLAN 5.6G	Ant.14	Back side	10mm		140	5700	0.12	0.136	14.33	15.00	1.167	97.23	1.028	0.163	29
WLAN 5.6G	Ant.14	Left side	10mm		140	5700	0.05	0.064	14.33	15.00	1.167	97.23	1.028	0.077	
WLAN 5.6G	Ant.14	Right side	10mm		140	5700	-0.01	0.086	14.33	15.00	1.167	97.23	1.028	0.103	
WLAN 5.6G	Ant.14	Top side	10mm		140	5700	-0.15	0.105	14.33	15.00	1.167	97.23	1.028	0.126	
WLAN 5.6G	Ant.14	Bottom side	10mm		140	5700	0.09	0.033	14.33	15.00	1.167	97.23	1.028	0.040	
WLAN 5.8G	Ant.14	Front side	10mm	802.11n(HT20)	157	5785	-0.12	0.079	16.13	17.00	1.222	97.23	1.028	0.099	
WLAN 5.8G	Ant.14	Back side	10mm		157	5785	-0.05	0.195	16.13	17.00	1.222	97.23	1.028	0.245	30
WLAN 5.8G	Ant.14	Left side	10mm		157	5785	-0.18	0.079	16.13	17.00	1.222	97.23	1.028	0.099	
WLAN 5.8G	Ant.14	Right side	10mm		157	5785	-0.19	0.092	16.13	17.00	1.222	97.23	1.028	0.116	
WLAN 5.8G	Ant.14	Top side	10mm		157	5785	-0.01	0.120	16.13	17.00	1.222	97.23	1.028	0.151	
WLAN 5.8G	Ant.14	Bottom side	10mm		157	5785	-0.14	0.029	16.13	17.00	1.222	97.23	1.028	0.036	

10.17 Bluetooth

Band	Antenna	Position	Dist.	Test Mode	Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Average Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. no.
	Head														
Bluetooth	Ant.12	Left cheek	0mm	BR/EDR 1Mbps	39	2441	0.14	0.199	14.42	15.00	1.143	76.40	1.309	0.298	31
Bluetooth	Ant.12	Left tilt	0mm		39	2441	0.13	0.157	14.42	15.00	1.143	76.40	1.309	0.235	
Bluetooth	Ant.12	Right cheek	0mm		39	2441	-0.11	0.116	14.42	15.00	1.143	76.40	1.309	0.174	
Bluetooth	Ant.12	Right tilt	0mm		39	2441	0.19	0.144	14.42	15.00	1.143	76.40	1.309	0.215	
Bluetooth	Ant.13	Left cheek	0mm	BLE 2Mbps	38	2480	0.15	0.145	14.40	15.00	1.148	56.89	1.758	0.293	
Bluetooth	Ant.13	Left tilt	0mm		38	2480	0.13	0.053	14.40	15.00	1.148	56.89	1.758	0.107	
Bluetooth	Ant.13	Right cheek	0mm		38	2480	0.03	0.102	14.40	15.00	1.148	56.89	1.758	0.206	
Bluetooth	Ant.13	Right tilt	0mm		38	2480	-0.17	0.041	14.40	15.00	1.148	56.89	1.758	0.083	
	Body-worn&Hotspot														
Bluetooth	Ant.12	Front side	10mm	BR/EDR 1Mbps	39	2441	-0.1	0.047	14.42	15.00	1.143	76.88	1.301	0.070	
Bluetooth	Ant.12	Back side	10mm		39	2441	0.17	0.080	14.42	15.00	1.143	76.88	1.301	0.119	32
Bluetooth	Ant.12	Right side	10mm		39	2441	-0.12	0.032	14.42	15.00	1.143	76.88	1.301	0.048	
Bluetooth	Ant.12	Left side	10mm		39	2441	-0.13	0.039	14.42	15.00	1.143	76.88	1.301	0.058	
Bluetooth	Ant.12	Top side	10mm		39	2441	-0.12	0.057	14.42	15.00	1.143	76.88	1.301	0.085	
Bluetooth	Ant.12	Bottom side	10mm		39	2441	0.15	0.027	14.42	15.00	1.143	76.88	1.301	0.040	
Bluetooth	Ant.13	Front side	10mm	BLE 2Mbps	38	2480	0.04	0.022	14.40	15.00	1.148	56.89	1.758	0.044	
Bluetooth	Ant.13	Back side	10mm		38	2480	-0.17	0.051	14.40	15.00	1.148	56.89	1.758	0.103	
Bluetooth	Ant.13	Right side	10mm		38	2480	-0.18	0.031	14.40	15.00	1.148	56.89	1.758	0.063	
Bluetooth	Ant.13	Left side	10mm		38	2480	0.13	0.021	14.40	15.00	1.148	56.89	1.758	0.042	
Bluetooth	Ant.13	Top side	10mm		38	2480	-0.11	0.033	14.40	15.00	1.148	56.89	1.758	0.067	
Bluetooth	Ant.13	Bottom side	10mm		38	2480	0.14	0.020	14.40	15.00	1.148	56.89	1.758	0.040	

10.18 NFC

1. According to the 2022.04 TCBC Workshop meeting, the power threshold is $\leq 100\text{MHz}$, refer to P6s.

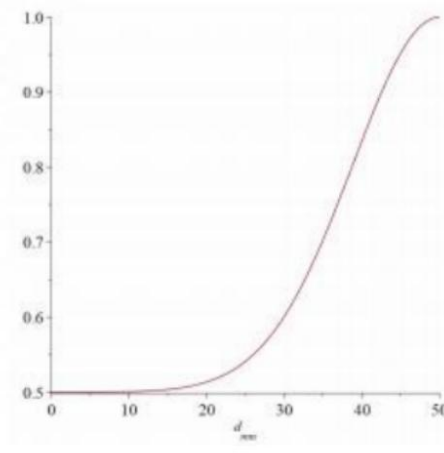
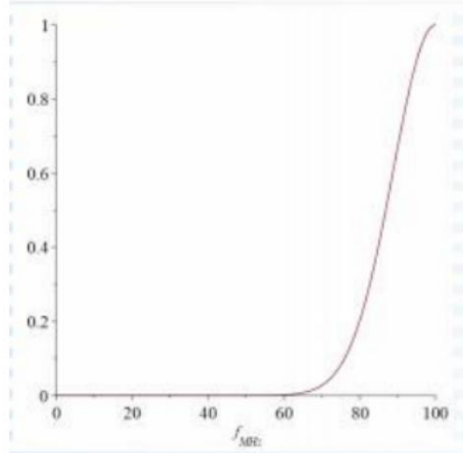
$$P_{7X}(d_{mm}, f_{MHz}) := \begin{cases} P_{6S}(d_{mm}, f_{MHz}) & f_{MHz} \leq 100 \\ P_{6to7}(d_{mm}, f_{MHz}) & 100 < f_{MHz} \leq 300 \\ P_7(d_{mm}, f_{MHz}) & 300 < f_{MHz} \end{cases}$$

2. For portable products, when using a distance of $\leq 50\text{mm}$, such as mobile phone NFC, P6s is calculated with the following formula calculate.

$$S_f(f_{MHz}) \cdot P_{431a}(d_{mm}, f_{MHz}) + (1 - S_f(f_{MHz})) \cdot S_d(d_{mm}) \cdot P_{431b1}(50., 100.) \cdot \left(1 + \log_{10}\left(\frac{100.}{f_{MHz}}\right)\right) \quad d_{mm} \leq 50 \text{ and } f_{MHz} \leq 100$$

3. The smoothing functions Sf and Sd in P6s calculate the limits based on KDB 447498 V06 and are calculated as follows.

$$S_f(f_{MHz}) := \exp\left(-10 \frac{(f_{MHz} - f_{max})^2}{\Delta f^2}\right) \quad S_d(d_{mm}) := 0.5 + 0.5 \cdot \exp\left(-10 \frac{(d_{mm} - d_{max})^2}{\Delta d^2}\right)$$



d≤50mm				
f Max(MHz)	100		d Max(mm)	50
f MHz	13.56		d(mm)	5
△ f(MHz)	100		△ d	50
S _f (f _{MHz})	0.000568861		S _d (dmm)	0.50015177
P6s(mW)	443.1257378			
Note: SAR testing is required when the distance is 5mm and the power is greater than 443.13mW.				

4. According to the ANSI C63.10 clause 11.12.2.2:

The value of maximum peak output power is according to the method described in ANSI C63.10 clause 11.12.2.2 General procedure for conducted measurements in restricted bands:

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the ERP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the ERP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant ERP level to an equivalent electric field strength using the following relationship: $E = ERP - 20\log D + 104.8$

where:

E = electric field strength in dB μ V/m,

ERP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Mode	f (MHz)	Max. E-Field strength (dB μ V/m)	D (m)	Ground reflection factor (dB)	ERP (dBm)
NFC (13.56MHz)	13.56	55.54	3	6	-23.26
Note: 1. Add the appropriate maximum ground reflection factor to the ERP level (6 dB for frequencies ≤ 30 MHz). 2. $ERP = 55.54 + 20 \cdot \log(10) - 104.8 + 6 = -23.26$ (dBm)					

According to the FCC KDB 447498 D04

Estimated SAR: $SAR_{test} = 1.6 \cdot P_{ant} / P_{th}$ [W/kg]

Estimated SAR	$1.6 \cdot P_{ant} / P_{th}$ [W/kg]		
P _{meas} .(dBm)	-23.26	P _{meas} .(mW)	0.005
P _{th} .(mW)	443.13		
NFC Estimated 1g SAR [W/kg]	<0.001		

11 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

12 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).

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot
1	WWAN+WiFi 2.4G	Yes	Yes	Yes
2	WWAN+WiFi 5G	Yes	Yes	Yes
3	WWAN+WIFI 5G+BT	Yes	Yes	Yes
4	WWAN+BT	Yes	Yes	Yes
5	WIFI 5G+BT	Yes	Yes	Yes

Note:

1. WiFi 2.4G and Bluetooth share the same antenna, and can't transmit simultaneously.
2. 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.
3. The maximum SAR summation is calculated based on the same configuration and test position.
4. 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.

12.2 Sum SAR of Simultaneous Transmission

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

Band	Antenna	Dist.	Position	Stand alone SAR				SUM SAR				
				1	2	3	4	1+2	1+3	1+3+4	1+4	3+4
				WWAN	2.4GWIFI	5G WIFI	Bluetooth					
GSM 850	Ant.2	0mm	Left Cheek	0.302	0.577	0.335	0.298	0.879	0.637	0.935	0.600	0.633
GSM 850	Ant.2	0mm	Left Tilt	0.273	0.468	0.398	0.235	0.741	0.671	0.906	0.508	0.633
GSM 850	Ant.2	0mm	Right Cheek	0.270	0.261	0.428	0.206	0.531	0.698	0.904	0.476	0.634
GSM 850	Ant.2	0mm	Right Tilt	0.186	0.342	0.420	0.215	0.528	0.606	0.821	0.401	0.635
GSM 1900	Ant.2	0mm	Left Cheek	0.168	0.577	0.335	0.298	0.745	0.503	0.801	0.466	0.633
GSM 1900	Ant.2	0mm	Left Tilt	0.230	0.468	0.398	0.235	0.698	0.628	0.863	0.465	0.633
GSM 1900	Ant.2	0mm	Right Cheek	0.143	0.261	0.428	0.206	0.404	0.571	0.777	0.349	0.634
GSM 1900	Ant.2	0mm	Right Tilt	0.133	0.342	0.420	0.215	0.475	0.553	0.768	0.348	0.635
WCDMA B2	Ant.2	0mm	Left Cheek	0.220	0.577	0.335	0.298	0.797	0.555	0.853	0.518	0.633
WCDMA B2	Ant.2	0mm	Left Tilt	0.280	0.468	0.398	0.235	0.748	0.678	0.913	0.515	0.633
WCDMA B2	Ant.2	0mm	Right Cheek	0.344	0.261	0.428	0.206	0.605	0.772	0.978	0.550	0.634
WCDMA B2	Ant.2	0mm	Right Tilt	0.281	0.342	0.420	0.215	0.623	0.701	0.916	0.496	0.635
WCDMA B4	Ant.2	0mm	Left Cheek	0.191	0.577	0.335	0.298	0.768	0.526	0.824	0.489	0.633
WCDMA B4	Ant.2	0mm	Left Tilt	0.264	0.468	0.398	0.235	0.732	0.662	0.897	0.499	0.633
WCDMA B4	Ant.2	0mm	Right Cheek	0.251	0.261	0.428	0.206	0.512	0.679	0.885	0.457	0.634
WCDMA B4	Ant.2	0mm	Right Tilt	0.241	0.342	0.420	0.215	0.583	0.661	0.876	0.456	0.635
WCDMA B5	Ant.2	0mm	Left Cheek	0.570	0.577	0.335	0.298	1.147	0.905	1.203	0.868	0.633
WCDMA B5	Ant.2	0mm	Left Tilt	0.576	0.468	0.398	0.235	1.044	0.974	1.209	0.811	0.633
WCDMA B5	Ant.2	0mm	Right Cheek	0.609	0.261	0.428	0.206	0.870	1.037	1.243	0.815	0.634
WCDMA B5	Ant.2	0mm	Right Tilt	0.595	0.342	0.420	0.215	0.937	1.015	1.230	0.810	0.635
LTE B2	Ant.2	0mm	Left Cheek	0.245	0.577	0.335	0.298	0.822	0.580	0.878	0.543	0.633
LTE B2	Ant.2	0mm	Left Tilt	0.282	0.468	0.398	0.235	0.750	0.680	0.915	0.517	0.633
LTE B2	Ant.2	0mm	Right Cheek	0.320	0.261	0.428	0.206	0.581	0.748	0.954	0.526	0.634
LTE B2	Ant.2	0mm	Right Tilt	0.469	0.342	0.420	0.215	0.811	0.889	1.104	0.684	0.635
LTE B4	Ant.2	0mm	Left Cheek	0.224	0.577	0.335	0.298	0.801	0.559	0.857	0.522	0.633
LTE B4	Ant.2	0mm	Left Tilt	0.282	0.468	0.398	0.235	0.750	0.680	0.915	0.517	0.633
LTE B4	Ant.2	0mm	Right Cheek	0.236	0.261	0.428	0.206	0.497	0.664	0.870	0.442	0.634
LTE B4	Ant.2	0mm	Right Tilt	0.387	0.342	0.420	0.215	0.729	0.807	1.022	0.602	0.635
LTE B5	Ant.2	0mm	Left Cheek	0.517	0.577	0.335	0.298	1.094	0.852	1.150	0.815	0.633
LTE B5	Ant.2	0mm	Left Tilt	0.512	0.468	0.398	0.235	0.980	0.910	1.145	0.747	0.633
LTE B5	Ant.2	0mm	Right Cheek	0.523	0.261	0.428	0.206	0.784	0.951	1.157	0.729	0.634
LTE B5	Ant.2	0mm	Right Tilt	0.510	0.342	0.420	0.215	0.852	0.930	1.145	0.725	0.635
LTE B7	Ant.2	0mm	Left Cheek	0.143	0.577	0.335	0.298	0.720	0.478	0.776	0.441	0.633
LTE B7	Ant.2	0mm	Left Tilt	0.174	0.468	0.398	0.235	0.642	0.572	0.807	0.409	0.633
LTE B7	Ant.2	0mm	Right Cheek	0.217	0.261	0.428	0.206	0.478	0.645	0.851	0.423	0.634
LTE B7	Ant.2	0mm	Right Tilt	0.519	0.342	0.420	0.215	0.861	0.939	1.154	0.734	0.635
LTE B41	Ant.2	0mm	Left Cheek	0.158	0.577	0.335	0.298	0.735	0.493	0.791	0.456	0.633
LTE B41	Ant.2	0mm	Left Tilt	0.203	0.468	0.398	0.235	0.671	0.601	0.836	0.438	0.633
LTE B41	Ant.2	0mm	Right Cheek	0.189	0.261	0.428	0.206	0.450	0.617	0.823	0.395	0.634
LTE B41	Ant.2	0mm	Right Tilt	0.507	0.342	0.420	0.215	0.849	0.927	1.142	0.722	0.635

Note:
1: The simultaneous transmission combinations of the antennas contain combinations of five antennas, so only the worst simultaneous transmission combinations was shown in this table.
2: The highest Summed 1g SAR is 1.243 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.2 Body-worn Simultaneous Transmission SAR Evaluation for WWAN Antenna with WIFI and Bluetooth

Band	Antenna	Dist.	Position	Stand alone SAR				SUM SAR				
				1	2	3	4					
				WWAN	2.4GWIFI	5G WIFI	Bluetooth	1+2	1+3	1+3+4	1+4	3+4
GSM 850	Ant.2	10mm	Front Side	0.158	0.137	0.099	0.070	0.295	0.257	0.327	0.257	0.169
GSM 850	Ant.2	10mm	Back Side	0.168	0.326	0.245	0.119	0.494	0.413	0.532	0.413	0.364
GSM 1900	Ant.2	10mm	Front Side	0.100	0.137	0.099	0.070	0.237	0.199	0.269	0.199	0.169
GSM 1900	Ant.2	10mm	Back Side	0.151	0.326	0.245	0.119	0.477	0.396	0.515	0.396	0.364
WCDMA B2	Ant.2	10mm	Front Side	0.112	0.137	0.099	0.070	0.249	0.211	0.281	0.211	0.169
WCDMA B2	Ant.2	10mm	Back Side	0.164	0.326	0.245	0.119	0.490	0.409	0.528	0.409	0.364
WCDMA B4	Ant.2	10mm	Front Side	0.097	0.137	0.099	0.070	0.234	0.196	0.266	0.196	0.169
WCDMA B4	Ant.2	10mm	Back Side	0.121	0.326	0.245	0.119	0.447	0.366	0.485	0.366	0.364
WCDMA B5	Ant.2	10mm	Front Side	0.166	0.137	0.099	0.070	0.303	0.265	0.335	0.265	0.169
WCDMA B5	Ant.2	10mm	Back Side	0.201	0.326	0.245	0.119	0.527	0.446	0.565	0.446	0.364
LTE B2	Ant.2	10mm	Front Side	0.118	0.137	0.099	0.070	0.255	0.217	0.287	0.217	0.169
LTE B2	Ant.2	10mm	Back Side	0.178	0.326	0.245	0.119	0.504	0.423	0.542	0.423	0.364
LTE B4	Ant.2	10mm	Front Side	0.105	0.137	0.099	0.070	0.242	0.204	0.274	0.204	0.169
LTE B4	Ant.2	10mm	Back Side	0.127	0.326	0.245	0.119	0.453	0.372	0.491	0.372	0.364
LTE B5	Ant.2	10mm	Front Side	0.141	0.137	0.099	0.070	0.278	0.240	0.310	0.240	0.169
LTE B5	Ant.2	10mm	Back Side	0.156	0.326	0.245	0.119	0.482	0.401	0.520	0.401	0.364
LTE B7	Ant.2	10mm	Front Side	0.110	0.137	0.099	0.070	0.247	0.209	0.279	0.209	0.169
LTE B7	Ant.2	10mm	Back Side	0.237	0.326	0.245	0.119	0.563	0.482	0.601	0.482	0.364
LTE B41	Ant.2	10mm	Front Side	0.100	0.137	0.099	0.070	0.237	0.199	0.269	0.199	0.169
LTE B41	Ant.2	10mm	Back Side	0.216	0.326	0.245	0.119	0.542	0.461	0.580	0.461	0.364

Note:

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

2: The highest Summed 1g SAR is 0.601 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

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

Band	Antenna	Dist.	Position	Stand alone SAR				SUM SAR				
				1	2	3	4					
				WWAN	2.4GWIFI	5G WIFI	Bluetooth	1+2	1+3	1+3+4	1+4	3+4
GSM 850	Ant.2	10mm	Front Side	0.158	0.137	0.099	0.070	0.295	0.257	0.327	0.257	0.169
GSM 850	Ant.2	10mm	Back Side	0.168	0.326	0.245	0.119	0.494	0.413	0.532	0.413	0.364
GSM 850	Ant.2	10mm	Left Side	0.088	0.042	0.099	0.058	0.130	0.187	0.245	0.187	0.157
GSM 850	Ant.2	10mm	Right Side	0.067	0.101	0.116	0.063	0.168	0.183	0.246	0.183	0.179
GSM 850	Ant.2	10mm	Top Side	0.157	0.157	0.151	0.085	0.314	0.308	0.393	0.308	0.236
GSM 850	Ant.2	10mm	Bottom Side	0.040	0.036	0.040	0.040	0.076	0.080	0.120	0.080	0.080
GSM 1900	Ant.2	10mm	Front Side	0.100	0.137	0.099	0.070	0.237	0.199	0.269	0.199	0.169
GSM 1900	Ant.2	10mm	Back Side	0.151	0.326	0.245	0.119	0.477	0.396	0.515	0.396	0.364
GSM 1900	Ant.2	10mm	Left Side	0.042	0.042	0.099	0.058	0.084	0.141	0.199	0.141	0.157
GSM 1900	Ant.2	10mm	Right Side	0.037	0.101	0.116	0.063	0.138	0.153	0.216	0.153	0.179
GSM 1900	Ant.2	10mm	Top Side	0.203	0.157	0.151	0.085	0.360	0.354	0.439	0.354	0.236
GSM 1900	Ant.2	10mm	Bottom Side	0.033	0.036	0.040	0.040	0.069	0.073	0.113	0.073	0.080
WCDMA B2	Ant.2	10mm	Front Side	0.112	0.137	0.099	0.070	0.249	0.211	0.281	0.211	0.169
WCDMA B2	Ant.2	10mm	Back Side	0.164	0.326	0.245	0.119	0.490	0.409	0.528	0.409	0.364
WCDMA B2	Ant.2	10mm	Left Side	0.038	0.042	0.099	0.058	0.080	0.137	0.195	0.137	0.157
WCDMA B2	Ant.2	10mm	Right Side	0.033	0.101	0.116	0.063	0.134	0.149	0.212	0.149	0.179
WCDMA B2	Ant.2	10mm	Top Side	0.283	0.157	0.151	0.085	0.440	0.434	0.519	0.434	0.236
WCDMA B2	Ant.2	10mm	Bottom Side	0.023	0.036	0.040	0.040	0.059	0.063	0.103	0.063	0.080
WCDMA B4	Ant.2	10mm	Front Side	0.097	0.137	0.099	0.070	0.234	0.196	0.266	0.196	0.169
WCDMA B4	Ant.2	10mm	Back Side	0.121	0.326	0.245	0.119	0.447	0.366	0.485	0.366	0.364
WCDMA B4	Ant.2	10mm	Left Side	0.037	0.042	0.099	0.058	0.079	0.136	0.194	0.136	0.157
WCDMA B4	Ant.2	10mm	Right Side	0.035	0.101	0.116	0.063	0.136	0.151	0.214	0.151	0.179
WCDMA B4	Ant.2	10mm	Top Side	0.197	0.157	0.151	0.085	0.354	0.348	0.433	0.348	0.236
WCDMA B4	Ant.2	10mm	Bottom Side	0.027	0.036	0.040	0.040	0.063	0.067	0.107	0.067	0.080
WCDMA B5	Ant.2	10mm	Front Side	0.166	0.137	0.099	0.070	0.303	0.265	0.335	0.265	0.169
WCDMA B5	Ant.2	10mm	Back Side	0.201	0.326	0.245	0.119	0.527	0.446	0.565	0.446	0.364
WCDMA B5	Ant.2	10mm	Left Side	0.093	0.042	0.099	0.058	0.135	0.192	0.250	0.192	0.157
WCDMA B5	Ant.2	10mm	Right Side	0.090	0.101	0.116	0.063	0.191	0.206	0.269	0.206	0.179
WCDMA B5	Ant.2	10mm	Top Side	0.198	0.157	0.151	0.085	0.355	0.349	0.434	0.349	0.236
WCDMA B5	Ant.2	10mm	Bottom Side	0.036	0.036	0.040	0.040	0.072	0.076	0.116	0.076	0.080
LTE B2	Ant.2	10mm	Front Side	0.118	0.137	0.099	0.070	0.255	0.217	0.287	0.217	0.169
LTE B2	Ant.2	10mm	Back Side	0.178	0.326	0.245	0.119	0.504	0.423	0.542	0.423	0.364
LTE B2	Ant.2	10mm	Left Side	0.041	0.042	0.099	0.058	0.083	0.140	0.198	0.140	0.157
LTE B2	Ant.2	10mm	Right Side	0.036	0.101	0.116	0.063	0.137	0.152	0.215	0.152	0.179
LTE B2	Ant.2	10mm	Top Side	0.188	0.157	0.151	0.085	0.345	0.339	0.424	0.339	0.236
LTE B2	Ant.2	10mm	Bottom Side	0.030	0.036	0.040	0.040	0.066	0.070	0.110	0.070	0.080
LTE B4	Ant.2	10mm	Front Side	0.105	0.137	0.099	0.070	0.242	0.204	0.274	0.204	0.169
LTE B4	Ant.2	10mm	Back Side	0.127	0.326	0.245	0.119	0.453	0.372	0.491	0.372	0.364
LTE B4	Ant.2	10mm	Left Side	0.041	0.042	0.099	0.058	0.083	0.140	0.198	0.140	0.157
LTE B4	Ant.2	10mm	Right Side	0.036	0.101	0.116	0.063	0.137	0.152	0.215	0.152	0.179
LTE B4	Ant.2	10mm	Top Side	0.132	0.157	0.151	0.085	0.289	0.283	0.368	0.283	0.236
LTE B4	Ant.2	10mm	Bottom Side	0.035	0.036	0.040	0.040	0.071	0.075	0.115	0.075	0.080
LTE B5	Ant.2	10mm	Front Side	0.141	0.137	0.099	0.070	0.278	0.240	0.310	0.240	0.169
LTE B5	Ant.2	10mm	Back Side	0.156	0.326	0.245	0.119	0.482	0.401	0.520	0.401	0.364
LTE B5	Ant.2	10mm	Left Side	0.075	0.042	0.099	0.058	0.117	0.174	0.232	0.174	0.157
LTE B5	Ant.2	10mm	Right Side	0.068	0.101	0.116	0.063	0.169	0.184	0.247	0.184	0.179
LTE B5	Ant.2	10mm	Top Side	0.139	0.157	0.151	0.085	0.296	0.290	0.375	0.290	0.236
LTE B5	Ant.2	10mm	Bottom Side	0.037	0.036	0.040	0.040	0.073	0.077	0.117	0.077	0.080
LTE B7	Ant.2	10mm	Front Side	0.110	0.137	0.099	0.070	0.247	0.209	0.279	0.209	0.169
LTE B7	Ant.2	10mm	Back Side	0.237	0.326	0.245	0.119	0.563	0.482	0.601	0.482	0.364
LTE B7	Ant.2	10mm	Left Side	0.058	0.042	0.099	0.058	0.100	0.157	0.215	0.157	0.157
LTE B7	Ant.2	10mm	Right Side	0.051	0.101	0.116	0.063	0.152	0.167	0.230	0.167	0.179
LTE B7	Ant.2	10mm	Top Side	0.244	0.157	0.151	0.085	0.401	0.395	0.480	0.395	0.236
LTE B7	Ant.2	10mm	Bottom Side	0.034	0.036	0.040	0.040	0.070	0.074	0.114	0.074	0.080
LTE B41	Ant.2	10mm	Front Side	0.100	0.137	0.099	0.070	0.237	0.199	0.269	0.199	0.169
LTE B41	Ant.2	10mm	Back Side	0.216	0.326	0.245	0.119	0.542	0.461	0.580	0.461	0.364
LTE B41	Ant.2	10mm	Left Side	0.052	0.042	0.099	0.058	0.094	0.151	0.209	0.151	0.157
LTE B41	Ant.2	10mm	Right Side	0.051	0.101	0.116	0.063	0.152	0.167	0.230	0.167	0.179
LTE B41	Ant.2	10mm	Top Side	0.238	0.157	0.151	0.085	0.395	0.389	0.474	0.389	0.236
LTE B41	Ant.2	10mm	Bottom Side	0.039	0.036	0.040	0.040	0.075	0.079	0.119	0.079	0.080

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of five antennas, so only the worst simultaneous transmission combinations was shown in this table.
2: The highest Summed 1g SAR is 0.601 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.3 Highest Total Exposure Ratio of Simultaneous Transmission

NFC multi-transmit requires the use of the TER formula:

$$TER = \sum_{k=1}^{N_s} \left(\frac{SAR_k}{SAR_{lim}} \right) + \sum_{k=1}^{N_f} \left(\frac{MPE_{field, k}}{MPE_{field, lim}} \right)^2 + \sum_{k=1}^{N_{PD}} \left(\frac{MPE_{PD, k}}{MPE_{PD, lim}} \right)$$

The
The

maximum SAR value for Simultaneous Transmission is 1.24 [W/kg]. Therefore, the worst TER = (1.24+0.001)/1.6 = 0.776, the NFC SAR transmit simultaneously Pass.

13 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	52.8.8.1222	N/A	N/A
835MHz Validation Dipole	Speag	D835V2	4d277	2024/08/30	2027/08/29
1750MHz Validation Dipole	Speag	D1750V2	1183	2024/09/03	2027/09/02
1900MHz Validation Dipole	Speag	D1900V2	5d155	2024/09/02	2027/09/01
2450MHz Validation Dipole	Speag	D2450V2	1065	2024/09/05	2027/09/04
2600MHz Validation Dipole	Speag	D2600V2	1184	2024/08/30	2027/08/29
5GHz Validation Dipole	Speag	D5GHzV2	1333	2024/09/05	2027/09/04
Data Acquisition Electronics	Speag	DAE4	1423	2025/06/05	2026/06/04
E-Field Probe	Speag	EX3DV4	3974	2025/06/05	2026/06/04
Signal Generator	R&S	SMB100A	182635	2025/02/12	2026/02/11
Power Meter	Agilent	E4419B	MY45104512	2025/02/11	2026/02/10
Power Sensor	Agilent	E9304A	MY41499059	2025/02/11	2026/02/10
Power Sensor	Agilent	E9304A	MY41499060	2025/02/11	2026/02/10
Wireless Communication Test Set	R&S	CMW500	168792	2025/02/11	2026/02/10
Network Analyzer	Agilent	E5071C	MY56301409	2025/02/12	2026/02/11
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Keysight	85070E	MY44300524	N/A	N/A
Phantom	Speag	SAM	SN: 1473	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 (%)
2026.2.1	Head	835	21.4	0.90	40.97	0.90	41.50	0.00	-1.28
2026.2.2	Head	1750	21.6	1.41	39.28	1.37	40.08	2.92	-2.00
2026.2.3	Head	1900	21.3	1.44	39.12	1.40	40.00	2.86	-2.20
2026.2.4	Head	2450	21.1	1.85	38.32	1.80	39.20	2.78	-2.24
2026.2.6	Head	2600	20.7	2.01	38.00	1.96	39.01	2.55	-2.59
2026.2.7	Head	5200	20.9	4.74	34.86	4.66	35.99	1.72	-3.14
2026.2.7	Head	5300	20.9	4.89	34.66	4.76	35.87	2.73	-3.37
2026.2.8	Head	5600	21.2	5.18	34.32	5.07	35.53	2.17	-3.41
2026.2.8	Head	5800	21.2	5.38	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 % (for 1 g).

Liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2026.2.1	Head	835	100	1.020	10.20	9.59	6.36
2026.2.2	Head	1750	100	3.700	37.00	36.50	1.37
2026.2.3	Head	1900	100	3.990	39.90	39.90	0.00
2026.2.4	Head	2450	100	5.010	50.10	52.60	-4.75
2026.2.6	Head	2600	100	5.620	56.20	55.30	1.63
2026.2.7	Head	5200	100	8.150	81.50	77.80	4.76
2026.2.7	Head	5300	100	7.530	75.30	79.00	-4.68
2026.2.8	Head	5600	100	8.530	85.30	82.80	3.02
2026.2.8	Head	5800	100	8.050	80.50	78.50	2.55
Note: The tolerance limit of System validation $\pm 10\%$.							

Please refer the document "Ti-CC26010298-ASC.pdf".

ANNEX C TEST DATA

Please refer the document “Ti-CC26010298-ATD.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26010298-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “Ti-CC26010298-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “Ti-CC26010298-AC.pdf”.

Statement

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--END OF REPORT--