

TEST REPORT

Applicant: BLU Products,inc.
Address: 8600 NW 36th Street, Suite #300 |Miami, FL 33166
Equipment Type: Hotspot
Model Name: M100
Brand Name: BLU
FCC ID: YHLBLUM100
Test Standard: FCC 47 CFR Part 2.1093
(refer section 3.1)
Maximum SAR: Body-worn (1 g@5mm): 1.17 W/kg
Hotspot (1 g@10mm): 1.26 W/kg
Sample Arrival Date: May 23, 2025
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ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center



Prepared by: Cai Xueguo

Reviewed by: Huang Xiaoqin

Approved by: Zhang Yanqing
(Laboratory Manager)

Cai Xueguo

Huang Xiaoqin

Zhang Yanqing

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jul. 21 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	5
1.1	Test Laboratory	5
1.2	Test Location	5
1.3	Test Environment Condition	5
2	PRODUCT INFORMATION.....	6
2.1	Applicant Information	6
2.2	Manufacturer Information	6
2.3	General Description for Equipment under Test (EUT)	6
2.4	Ancillary Equipment.....	6
2.5	Technical Information	7
3	SUMMARY OF TEST RESULT	8
3.1	Test Standards	8
3.2	Device Category and SAR Limit.....	9
3.3	Test Result Summary.....	10
3.4	Test Uncertainty	11
4	MEASUREMENT SYSTEM.....	14
4.1	Specific Absorption Rate (SAR) Definition	14
4.2	DASY SAR System	15
5	SYSTEM VERIFICATION.....	22
5.1	Purpose of System Check	22
5.2	System Check Setup.....	22
6	TEST POSITION CONFIGURATIONS.....	23
6.1	Body-worn Position Conditions.....	23
6.2	Hotspot Mode Exposure Position Conditions	24

6.3	Product Specific 10g Exposure Consideration	24
7	MEASUREMENT PROCEDURE.....	25
7.1	Measurement Process Diagram	25
7.2	SAR Scan General Requirement.....	26
7.3	Measurement Procedure	27
7.4	Area & Zoom Scan Procedure.....	27
7.5	LTE (TDD) Considerations.....	28
8	CONDUCTED RF OUPUT POWER.....	30
8.1	LTE.....	30
8.2	ENDC- NR.....	30
8.3	WIFI.....	30
8.4	Power Reduction List.....	34
9	PROXIMITY SENSOR TRIGGERING TEST	39
9.1	Procedures for determining proximity sensor distance.....	39
9.2	Procedures for determining EUT tilt angle influences to proximity sensor triggering	42
10	TEST EXCLUSION CONSIDERATION	44
10.1	SAR Test Exclusion Consideration Table	45
11	TEST RESULT	46
11.1	LTE Band 2 (20MHz Bandwidth)	46
11.2	LTE Band 4 (20MHz Bandwidth)	48
11.3	LTE Band 5 (10MHz Bandwidth)	51
11.4	LTE Band 7 (20MHz Bandwidth)	52
11.5	LTE Band 12 (10MHz Bandwidth)	53
11.6	LTE Band 13 (10MHz Bandwidth)	54
11.7	LTE Band 66 (20MHz Bandwidth)	55
11.8	LTE Band 48 (20MHz Bandwidth)	58
11.9	n2 (40MHz Bandwidth)	60
11.10	n5 (25MHz Bandwidth)	62
11.11	n66 (40MHz Bandwidth)	63

11.12	n77 (100MHz Bandwidth)	65
11.13	WIFI 2.4GHz.....	73
11.14	WIFI 5GHz.....	74
12	SAR Measurement Variability.....	76
13	SIMULTANEOUS TRANSMISSION	77
13.1	Simultaneous Transmission Mode Consider	77
13.2	Sum SAR of Simultaneous Transmission.....	78
14	TEST EQUIPMENTS LIST	92
ANNEX A	SIMULATING LIQUID VERIFICATION RESULT	93
ANNEX B	SYSTEM CHECK RESULT	94
ANNEX C	TEST DATA	113
ANNEX D	EUT EXTERNAL PHOTOS.....	113
ANNEX E	SAR TEST SETUP PHOTOS	113
ANNEX F	CALIBRATION REPORT.....	113

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	BLU Products,inc.
Address	8600 NW 36th Street, Suite #300 Miami, FL 33166

2.2 Manufacturer Information

Manufacturer	BLU Products,inc.
Address	8600 NW 36th Street, Suite #300 Miami, FL 33166

2.3 General Description for Equipment under Test (EUT)

EUT Name	Hotspot
Model Name Under Test	M100
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.0
Software Version	BLU_M100_V15.0.03.05.03.03_FSec
Dimensions (Approx.)	L:119mm* W:89mm* H:15mm
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Li-ion battery	
	Brand Name	N/A
	Model No.	C866748500PM1
	Serial No.	N/A
	Capacity	4900 mAh
	Nominal Voltage	2.87 V

2.5 Technical Information

Network and Wireless connectivity	4G Network FDD LTE Band 2/4/5/7/12/13/66 TDD LTE Band 48 LTE CA Uplink (UL): CA_2A_4A, CA_2A_5A, CA_2A_13A, CA_2A_66A, CA_4A_5A, CA_4A_13A, CA_5A_66A, CA_13A_66A 5G Network NSA: n2: DC_13A_n2A, DC_5A_n2A, DC_66A_n2A, DC_48A_n2A n5: DC_2A_n5A, DC_66A_n5A, DC_48A_n5A n66: DC_13A_n66A, DC_2A_n66A, DC_5A_n66A, DC_48A_n66A n77: DC_13A_n77A, DC_2A_n77A, DC_5A_n77A, DC_66A_n77A 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI, 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)

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

Operating Mode	LTE, ENDC, 2.4G WLAN, 5G WLAN		
Frequency Range	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 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	LTE Band 48	TX: 3550 ~ 3700 MHz	RX: 3550 ~ 3700 MHz
	n2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	n5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	n66	TX: 1710 ~ 1780 MHz	RX: 1710 ~ 1780 MHz
	n77	TX: 3450 ~ 3650 MHz	RX: 3450 ~ 3650 MHz
		TX: 3700 ~ 3980 MHz	RX: 3700 ~ 3980 MHz
	802.11b/g/n(HT20)	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40/ VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
Antenna Type	WWAN: Loop Antenna WLAN: Monopole 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	
Note:			

1. The device utilizes independent power reduction mechanisms for SAR compliance for the 4/5G transmitter for near to body exposure conditions.
2. The reduction power details please refer section 8.4.

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 D05 v02r05	SAR Evaluation Considerations for LTE Devices
6	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 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	Band	Maximum Scaled SAR (W/kg)		Maximum Report SAR (W/kg)	
		Body-worn (5mm)	Hotspot (10mm)	Body-worn (5mm)	Hotspot (10mm)
		1g SAR		1g SAR	
PCE	LTE Band 2	0.79	1.23	1.17	1.26
	LTE Band 4	1.16	1.16		
	LTE Band 5	0.58	0.67		
	LTE Band 7	1.17	0.58		
	LTE Band 12	0.50	0.38		
	LTE Band 13	0.63	0.59		
	LTE Band 66	1.06	1.26		
	LTE Band 48	1.16	1.25		
	NSA n2	0.58	0.66		
	NSA n5	0.63	0.64		
	NSA n66	0.80	0.62		
	NSA n77	0.85	0.92		
DTS	2.4G WLAN	/	0.29		
NII	5G WLAN	/	0.51		
Limit (W/kg)		1.6		1.6	
Verdict		PASS			

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)	
	Body-worn 1g (5mm)	Hotspot 1g (10mm)
PCE	1.57	1.54
DTS	/	1.50
NII	/	1.54
Limit (W/Kg)	1.60	1.60
Verdict	Pass	
Note: The highest simultaneous SAR please refer section 13.2		

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_i) 1g	(c_i) 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(Δ SAR)	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 _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	±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

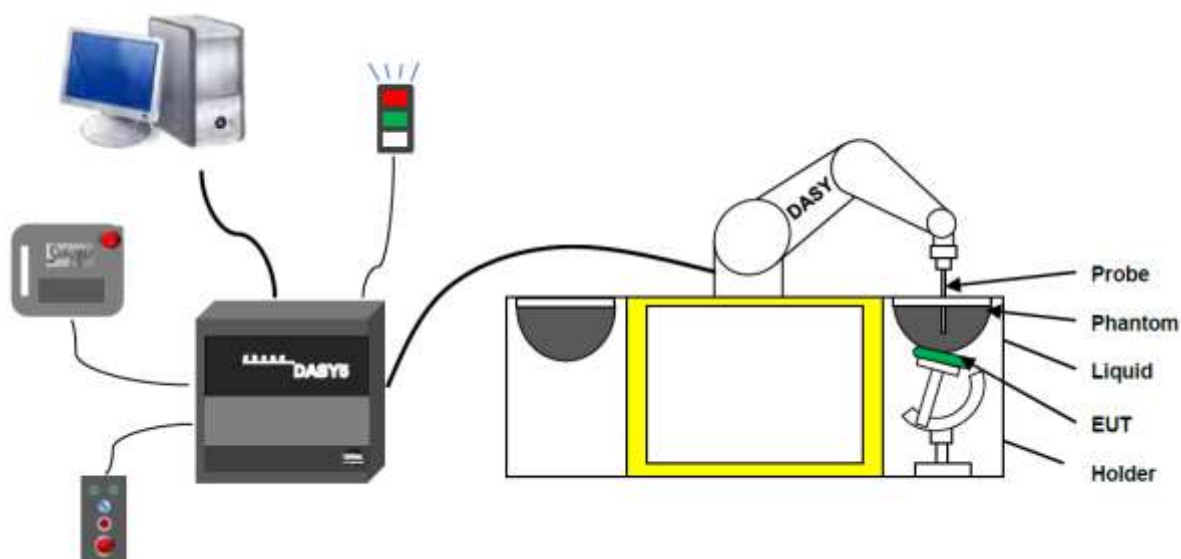
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

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

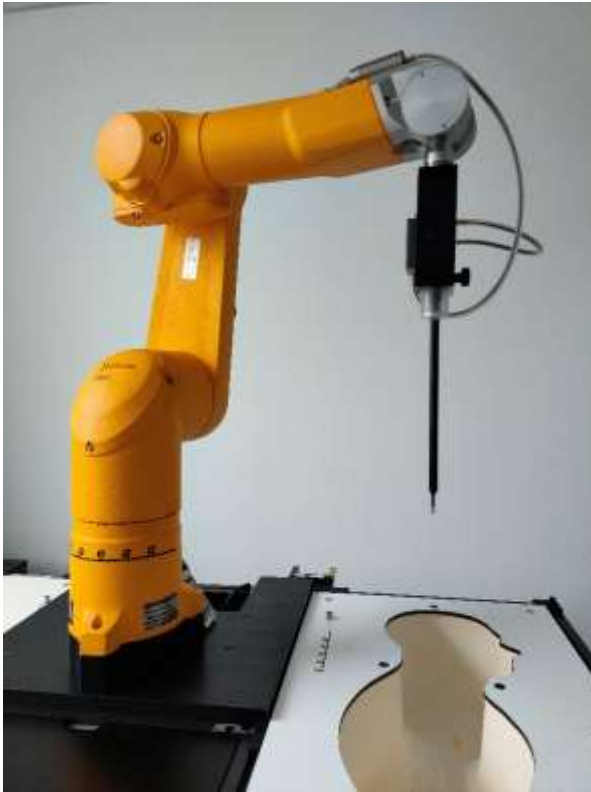


The DASY5 system for performing compliance tests consists of the following items:

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

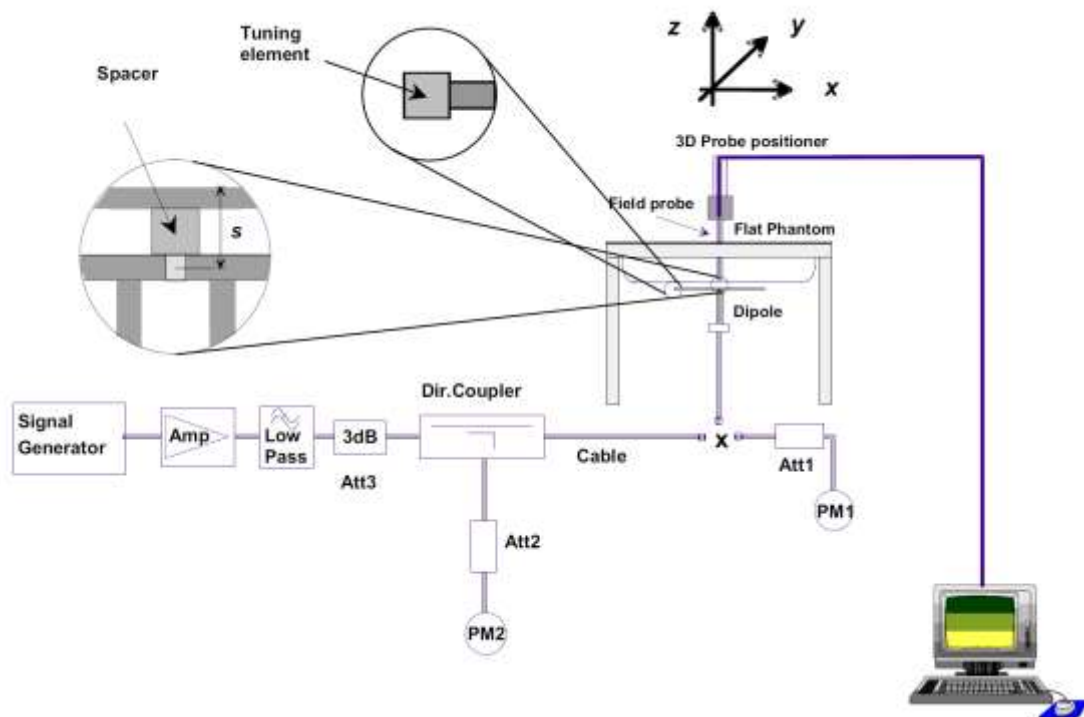
5 SYSTEM VERIFICATION

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:



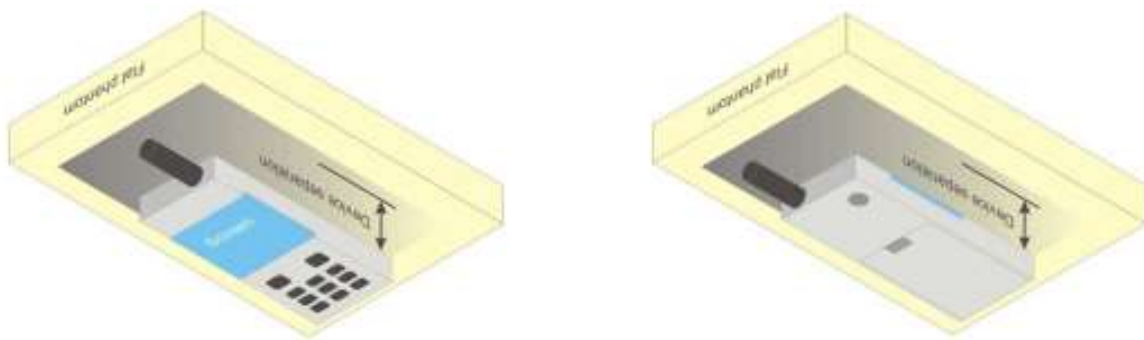
6 TEST POSITION CONFIGURATIONS

6.1 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.

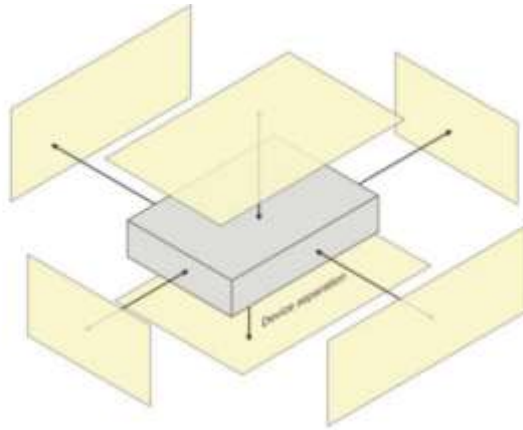
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



6.2 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).



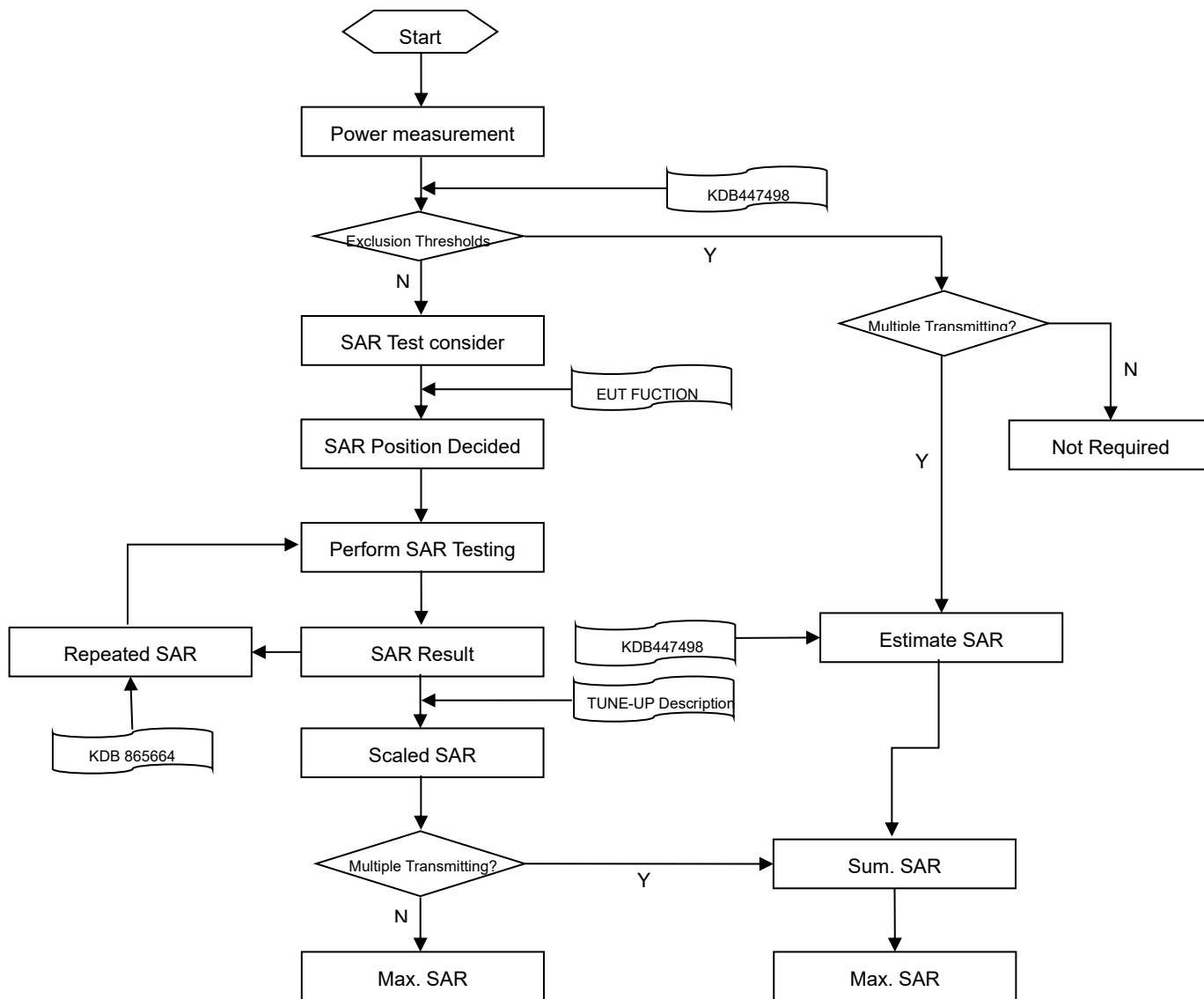
6.3 Product Specific 10g Exposure Consideration

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.

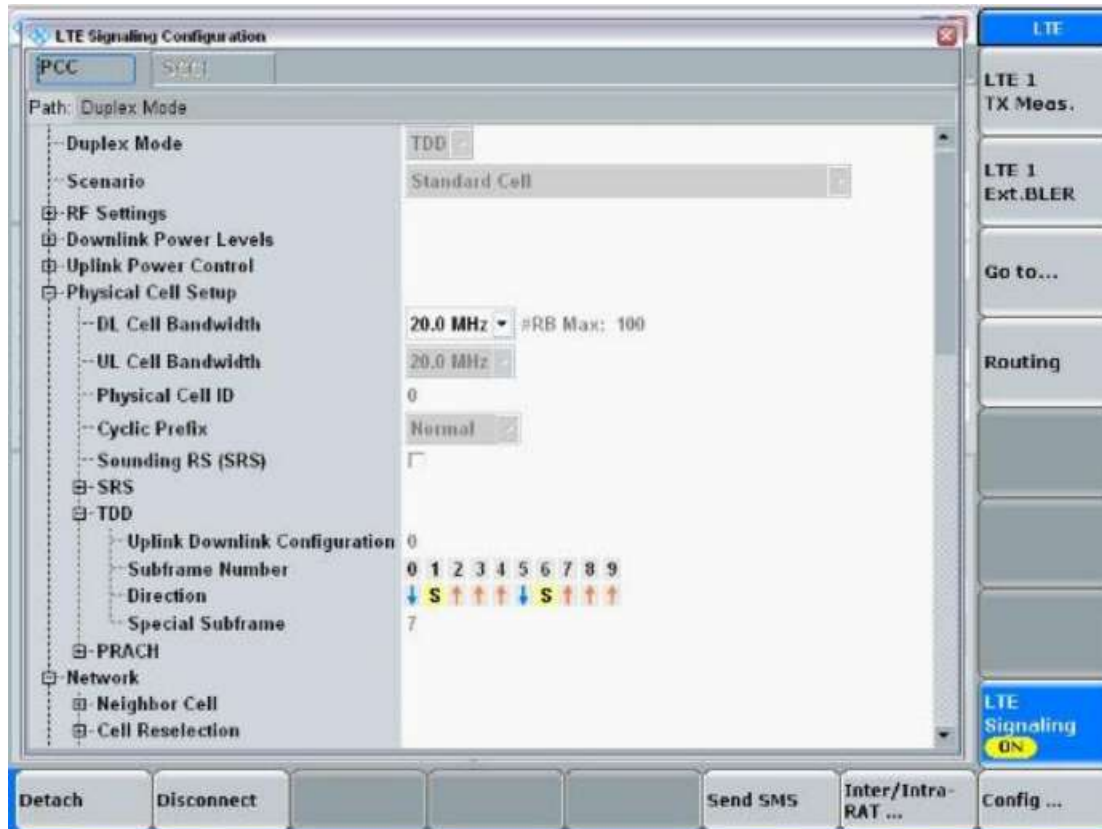
7.4 Area & Zoom Scan Procedure

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.

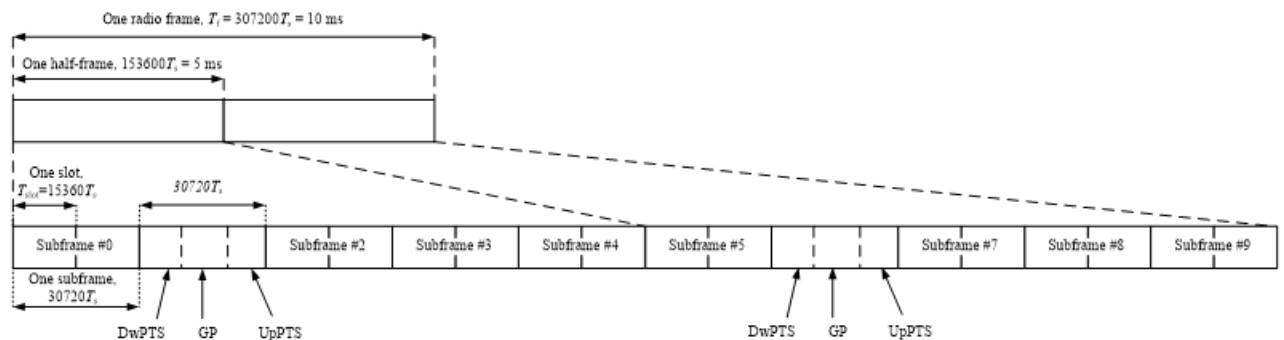
When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7.5 LTE (TDD) Considerations

During TDD-LTE SAR testing, the EUT was commanded to transmit on maximum output power and maximum transmitting bandwidth. The uplink and downlink slot configuration as below in one radio frame.



According to 3GPP Per 3GPP TS 36.211. Each radio frame of length ($T_f = 307200 \cdot T_s = 10\text{ms}$) of two half-frames of length ($153600 \cdot T_s = 5\text{ms}$). Each half-frame consists of five sub-frames of length ($30720 \cdot T_s = 1\text{ms}$)



And the special sub-frame with the three fields DwPTS, GP and UpPTS.

The length of DwPTS and UpPTS is given by below table subject to the total length of DwPTS, GP and UpPTS being equal to $30720 \cdot T_s = 1\text{ms}$.

Configuration of special sub-frame (lengths of DwPTS/GP/UpPTS)

Special sub-frame configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21592 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$2560 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21592 \cdot T_s$			$12800 \cdot T_s$	-	-
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-	-	-

For special sub-frame uplink time we used the largest cyclic prefix for duty cycle calculate;

Maximum uplink time of one special sub-frame=(largest cyclic prefix)/(one sub-frame of length)* time of one sub-frame= $5120 \cdot T_s / 30720 \cdot T_s \cdot 1\text{ms} = 0.167\text{ms}$

One radio frame with 6 uplink sub-frames and two special sub-frame,

there for the maximum Uplink time in one radio frame is: **$6 \cdot 1\text{ ms} + 2 \cdot 0.167\text{ ms} = 6.334\text{ms}$**

So, the duty cycle for TDD-LTE is: **$6.334\text{ms} / 10\text{ms} = 1: 1.58$**

8 CONDUCTED RF OUTPUT POWER

8.1 LTE

Please refer the document “BL-SH2550525-AP.pdf”.

8.2 ENDC- NR

Please refer the document “BL-SH2550525-AP.pdf”.

8.3 WIFI

8.3.1 2.4G WIFI 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	18.35	19.50	Yes
		6	2437	18.22	19.00	No
		11	2462	18.32	19.50	No
	802.11g	1	2412	17.77	19.00	No
		6	2437	17.76	19.00	No
		11	2462	17.77	19.00	No
	802.11n(HT20)	1	2412	17.49	18.50	No
		6	2437	17.39	18.50	No
		11	2462	17.38	18.50	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.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = $0.345 * (79.43\text{mW}/89.13\text{mW}) = 0.307$ W/Kg, so 2.4G OFDM SAR test is not required.

8.3.2 2.4G WIFI State 1

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	17.25	18.50	No
		6	2437	17.29	18.50	Yes
		11	2462	17.26	18.50	No
	802.11g	1	2412	16.72	17.50	No
		6	2437	16.69	17.50	No
		11	2462	16.73	17.50	No
	802.11n(HT20)	1	2412	16.47	17.50	No
		6	2437	16.36	17.50	No
		11	2462	16.36	17.50	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.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = $0.296 * (56.23\text{mW}/70.79\text{mW}) = 0.235$ W/Kg, so 2.4G OFDM SAR test is not required.

8.3.3 5G WIFI Full Power

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	18.06	19.00	No
		44	5220	18.13	19.00	Yes
		48	5240	18.11	19.00	No
	802.11n(HT20)	36	5180	18.04	19.00	No
		44	5220	17.97	19.00	No
		48	5240	18.05	19.00	No
	802.11n(HT40)	38	5190	17.88	18.50	No
		46	5230	17.93	18.50	No
	802.11ac(VHT20)	36	5180	18.04	19.00	No
		44	5220	17.94	19.00	No
		48	5240	18.14	19.00	No
	802.11ac(VHT40)	38	5190	17.93	18.50	No
		46	5230	17.97	18.50	No
	802.11ac(VHT80)	42	5210	15.94	17.00	No
5.8 (5.725~5.850)	802.11a	149	5745	18.61	19.50	No
		157	5785	18.67	19.50	No
		165	5825	18.59	19.50	No
	802.11n(HT20)	149	5745	18.54	19.50	No
		157	5785	18.58	19.50	No
		165	5825	18.48	19.50	No
	802.11n(HT40)	151	5755	19.04	20.00	Yes
		159	5795	18.58	19.50	No
	802.11ac(VHT20)	149	5745	18.60	19.50	No
		157	5785	18.65	19.50	No
		165	5825	18.54	19.50	No
	802.11ac(VHT40)	151	5755	18.60	19.50	No
		159	5795	18.62	19.50	No
	802.11ac(VHT80)	155	5775	16.46	17.50	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.

8.3.4 5G WIFI State 1

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	14.03	15.00	No
		44	5220	14.09	15.00	Yes
		48	5240	14.06	15.00	No
	802.11n(HT20)	36	5180	14.03	15.00	No
		44	5220	13.96	15.00	No
		48	5240	14.40	15.50	No
	802.11n(HT40)	38	5190	13.83	14.50	No
		46	5230	13.84	14.50	No
	802.11ac(VHT20)	36	5180	13.96	15.00	No
		44	5220	13.92	15.00	No
		48	5240	14.13	15.00	No
	802.11ac(VHT40)	38	5190	13.86	14.50	No
		46	5230	13.89	14.50	No
	802.11ac(VHT80)	42	5210	11.86	13.00	No
5.8 (5.725~5.850)	802.11a	149	5745	14.52	15.50	No
		157	5785	14.59	15.50	No
		165	5825	14.52	15.50	No
	802.11n(HT20)	149	5745	14.51	15.50	No
		157	5785	14.52	15.50	No
		165	5825	14.47	15.50	No
	802.11n(HT40)	151	5755	14.96	16.00	Yes
		159	5795	14.50	15.50	No
	802.11ac(VHT20)	149	5745	14.53	15.50	No
		157	5785	14.61	15.50	No
		165	5825	14.52	15.50	No
	802.11ac(VHT40)	151	5755	14.56	15.50	No
		159	5795	14.59	15.50	No
	802.11ac(VHT80)	155	5775	12.43	13.50	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.

8.4 Power Reduction List

1. The device employs proximity sensors that detect the presence of the user's body and Product Specific of the device. When these conditions are detected, Body and Limb reduced power will be active.
2. When the proximity sensor invalid, the power is reduced to the corresponding Minimum power scenario.

WWAN Reduced power level table

Reduced State	Sensor state	Receiver state	Transmitting conditions
Full Power	Sensor Off	Off (Body scenario)	WWAN Only WWAN+WLAN
State 1	Sensor On Hotspot On	Off (Body scenario)	WWAN Only WWAN+WLAN
State 2	Sensor On Hotspot Off	Off (Body scenario)	WWAN Only

Mode	Antenna	WWAN Antenna		
		Full Power	Hotspot	Body
		Sensor Off	Sensor On Hotspot On	Sensor On Hotspot Off
		Off	State 1	State 2
LTE Band2	ANT 1	24.50	23.50	19.50
LTE Band2	ANT 5	24.50	18.50	16.50
LTE Band4	ANT 1	24.50	22.50	19.50
LTE Band4	ANT 5	24.50	15.50	15.50
LTE Band5	ANT 1	23.50	23.50	23.50
LTE Band7	ANT 1	23.50	23.50	23.50
LTE Band12	ANT 1	23.50	23.50	23.50
LTE Band13	ANT 1	23.50	23.50	23.50
LTE Band66	ANT 1	24.50	22.50	19.50
LTE Band66	ANT 5	24.50	16.50	15.50
LTE Band48	ANT 4	24.00	20.00	16.00
n2	ANT 1	24.50	21.50	19.50
n2	ANT 5	24.50	18.50	15.50
n5	ANT 1	23.50	23.50	23.50
n66	ANT 1	24.50	19.50	17.50
n66	ANT 5	24.50	16.50	14.50
n77	ANT 2	22.00	22.00	22.00
n77	ANT 3	22.00	22.00	22.00
n77 PC2	ANT 4	27.00	18.00	13.50
n77 PC3	ANT 4	24.00	17.00	12.00
n77	ANT 7	20.00	20.00	20.00

EN-DC Configurations	E-UTRA	NR	Antenna Configurations	
	Band	Band		
DC 2A -n5A	LTE Band 2	n5	LTE ANT 5	NR ANT 1
DC 2A -n66A	LTE Band 2	n66	LTE ANT 5	NR ANT 1
DC 2A -n77A	LTE Band 2	n77	LTE ANT 1	NR ANT 2
				NR ANT 3
				NR ANT 4
				NR ANT 7
DC 5A -n2A	LTE Band 5	n2	LTE ANT 1	NR ANT 5
DC 5A -n66A	LTE Band 5	n66	LTE ANT 1	NR ANT 5
DC 5A -n77A	LTE Band 5	n77	LTE ANT 1	NR ANT 2
				NR ANT 3
				NR ANT 4
				NR ANT 7
DC 13A -n2A	LTE Band 13	n2	LTE ANT 1	NR ANT 5
DC 13A -n66A	LTE Band 13	n66	LTE ANT 1	NR ANT 5
DC 13A -n77A	LTE Band 13	n77	LTE ANT 1	NR ANT 2
				NR ANT 3
				NR ANT 4
				NR ANT 7
DC 66A -n2A	LTE Band 66	n2	LTE ANT 5	NR ANT 1
DC 66A -n5A	LTE Band 66	n5	LTE ANT 5	NR ANT 1
DC 66A -n77A	LTE Band 66	n77	LTE ANT 1	NR ANT 2
				NR ANT 3
				NR ANT 4
				NR ANT 7
DC 48A -n2A	LTE Band 48	n2	LTE ANT 4	NR ANT 1
DC 48A -n5A	LTE Band 48	n5	LTE ANT 4	NR ANT 1
DC 48A -n66A	LTE Band 48	n66	LTE ANT 4	NR ANT 1

Mode	Band	Antenna	ENDC Antenna		
			Full Power	Hotspot	Body
			Sensor Off	Sensor On Hotspot On	Sensor On Hotspot Off
			Off	State 1	State 2
DC 2A -n5A	LTE Band 2	ANT 5	24.50	18.50	16.50
	n5	ANT 1	23.50	23.50	23.50
DC 2A -n66A	LTE Band 2	ANT 5	24.50	18.50	16.50
	n66	ANT 1	24.50	19.50	17.50
DC 2A -n77A	LTE Band 2	ANT 1	24.50	21.50	19.50
	n77	ANT 2	23.00	23.00	23.00
		ANT 3	22.50	22.50	22.50
		ANT 4	27.00	17.00	12.00
		ANT 7	20.00	20.00	20.00
DC 5A -n2A	LTE Band 5	ANT 1	23.50	23.50	23.50
	n2	ANT 5	24.50	18.50	15.50
DC 5A -n66A	LTE Band 5	ANT 1	23.50	23.50	23.50
	n66	ANT 5	24.50	16.50	14.50
DC 5A -n77A	LTE Band 5	ANT 1	23.50	23.50	23.50
	n77	ANT 2	23.00	23.00	23.00
		ANT 3	22.50	22.50	22.50
		ANT 4	27.00	17.00	12.00
		ANT 7	20.00	20.00	20.00
DC 13A -n2A	LTE Band 13	ANT 1	23.50	23.50	23.50
	n2	ANT 5	24.50	18.50	15.50
DC 13A -n66A	LTE Band 13	ANT 1	23.50	23.50	23.50
	n66	ANT 5	24.50	16.50	14.50
DC 13A -n77A	LTE Band 13	ANT 1	23.50	23.50	23.50
	n77	ANT 2	23.00	23.00	23.00
		ANT 3	22.50	22.50	22.50
		ANT 4	27.00	17.00	12.00
		ANT 7	20.00	20.00	20.00
DC 66A -n2A	LTE Band 66	ANT 5	24.50	16.50	15.50
	n2	ANT 1	24.50	21.50	19.50
DC 66A -n5A	LTE Band 66	ANT 5	24.50	16.50	15.50
	n5	ANT 1	23.50	23.50	23.50
DC 66A -n77A	LTE Band 66	ANT 1	24.50	22.50	19.50
	n77	ANT 2	23.00	23.00	23.00
		ANT 3	22.50	22.50	22.50
		ANT 4	27.00	17.00	12.00
		ANT 7	20.00	20.00	20.00
DC 48A -n2A	LTE Band 48	ANT 4	24.00	19.00	15.00
	n2	ANT 1	24.50	21.50	19.50

DC 48A -n5A	LTE Band 48	ANT 4	24.00	19.00	15.00
	n5	ANT 1	23.50	23.50	23.50
DC 48A -n66A	LTE Band 48	ANT 4	24.00	19.00	15.00
	n66	ANT 1	24.50	19.50	17.50

LTE-UL CA Configurations	UL CA	UL CA	Antenna Configurations	
	Band1	Band2	1	2
CA_2A_4A	LTE Band2	LTE Band4	LTE ANT 1	LTE ANT 5
			LTE ANT 5	LTE ANT 1
CA_2A_5A	LTE Band2	LTE Band5	LTE ANT 5	LTE ANT 1
CA_2A_13A	LTE Band2	LTE Band13	LTE ANT 5	LTE ANT 1
CA_2A_66A	LTE Band2	LTE Band66	LTE ANT 1	LTE ANT 5
			LTE ANT 5	LTE ANT 1
CA_4A_5A	LTE Band4	LTE Band5	LTE ANT 5	LTE ANT 1
CA_4A_13A	LTE Band4	LTE Band13	LTE ANT 5	LTE ANT 1
CA_5A_66A	LTE Band5	LTE Band66	LTE ANT 1	LTE ANT 5
CA_13A_66A	LTE Band13	LTE Band66	LTE ANT 1	LTE ANT 5

Mode	Band	Antenna	LTE UL-CA Antenna		
			Full Power	Hotspot	Body
			Sensor Off	Sensor On Hotspot On	Sensor On Hotspot Off
			Off	State 1	State 2
CA_2A_4A	LTE Band2	LTE ANT 1	24.50	21.50	19.50
		LTE ANT 5	24.50	18.50	16.50
	LTE Band4	LTE ANT 5	24.50	15.50	15.50
		LTE ANT 1	24.50	19.50	17.50
CA_2A_5A	LTE Band2	LTE ANT 5	24.50	18.50	16.50
	LTE Band5	LTE ANT 1	23.50	23.50	23.50
CA_2A_13A	LTE Band2	LTE ANT 5	24.50	18.50	16.50
	LTE Band13	LTE ANT 1	23.50	23.50	23.50
CA_2A_66A	LTE Band2	LTE ANT 1	24.50	21.50	19.50
		LTE ANT 5	24.50	18.50	16.50
	LTE Band66	LTE ANT 5	24.50	16.50	15.50
		LTE ANT 1	24.50	19.50	17.50
CA_4A_5A	LTE Band4	LTE ANT 5	24.50	15.50	15.50
	LTE Band5	LTE ANT 1	23.50	23.50	23.50
CA_4A_13A	LTE Band4	LTE ANT 5	24.50	15.50	15.50
	LTE Band13	LTE ANT 1	23.50	23.50	23.50
CA_5A_66A	LTE Band5	LTE ANT 1	23.50	23.50	23.50
	LTE Band66	LTE ANT 5	24.50	16.50	15.50
CA_13A_66A	LTE Band13	LTE ANT 1	23.50	23.50	23.50
	LTE Band66	LTE ANT 5	24.50	16.50	15.50

WLAN Reduced power level table

Reduced State	Sensor state	Receiver state	Transmitting conditions
Full Power	Sensor Off	Off (Body scenario)	WLAN Only WWAN+WLAN
State 1	Sensor On Hotspot On	Off (Body scenario)	WLAN Only WWAN+WLAN
State 2	/	/	/

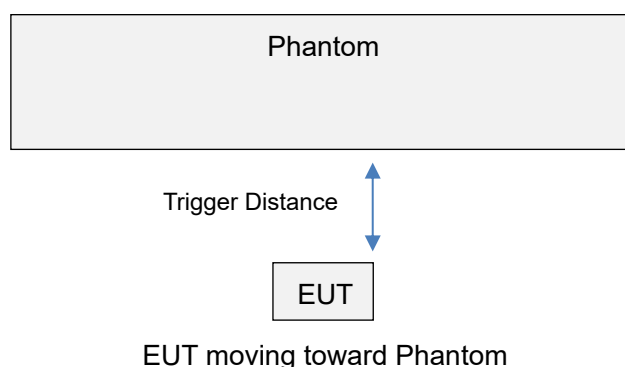
Mode	WALN Ant.6	
	Full Power	Hotspot
		Sensor On Hotspot On
	Sensor Off	State 1
2.4G WLAN 802.11b	19.50	18.50
2.4G WLAN 802.11g	19.00	17.50
2.4G WLAN 802.11n20	18.50	17.50
5.2G WLAN 802.11a	19.00	15.00
5.2G WLAN 802.11n20	19.00	15.00
5.2G WLAN 802.11n40	18.50	14.50
5.2G WLAN 802.11ac20	19.00	15.00
5.2G WLAN 802.11ac40	18.50	14.50
5.2G WLAN 802.11ac80	17.00	13.00
5.8G WLAN 802.11a	19..5	15.50
5.8G WLAN 802.11n20	19.50	15.50
5.8G WLAN 802.11n40	20.00	16.00
5.8G WLAN 802.11ac20	19.50	15.50
5.8G WLAN 802.11ac40	19.50	15.50
5.8G LAN 802.11ac80	17.50	13.50

9 PROXIMITY SENSOR TRIGGERING TEST

9.1 Procedures for determining proximity sensor distance

The device uses one proximity sensors to reduce the maximum output power in selected wireless mode and operating configurations to ensure SAR compliance. The sensor implementation can identify and facilitate triggering different max power levels for different scenarios including the device held by hand(Extremity) and different exposure test positions test positions when the device is closed to a user's body.

Proximity sensor triggering distance testing was performed, EUT moving further away from the phantom and EUT moving toward the phantom were both assessed, and the shortest triggering distances were reported and used for SAR assessment. Note that while sensor is failed and it sets the output power to the lowest one in the sensor trigger state, to make sure the SAR requirements can still be satisfied.



9.1.1 proximity sensor-1

Distance in mm	1~25	26	27	28-34	35	36	37	38-49	50	51	52~55
Front Side	On	On	On	On	On	Off	Off	Off	Off	Off	Off
Back Side	On	On	On	On	On	Off	Off	Off	Off	Off	Off
Right Edge	On	On	Off	Off	Off	Off	Off	Off	Off	Off	Off
Bottom Edge	On	On	On	On	On	On	On	On	On	Off	Off

Note: Power reduction is only applicable for ANT1.

9.1.2 proximity sensor-2

Distance in mm	1~16	17	18	19	20	21	22	23	24~35	36	37~40
Front Side	On	On	On	On	On	On	On	Off	Off	Off	Off
Back Side	On	On	On	On	On	Off	Off	Off	Off	Off	Off
Left Edge	On	On	On	On	On	On	On	On	On	On	Off
Bottom Edge	On	On	Off	Off	Off	Off	Off	Off	Off	Off	Off

Note: Power reduction is only applicable for ANT2.

9.1.3 proximity sensor-3

Distance in mm	1~26	27	28	29~34	35	36~39	40	41	42~54	55	56~60
Front Side	On	On	On	On	On	Off	Off	Off	Off	Off	Off
Back Side	On	On	On	On	On	On	On	Off	Off	Off	Off
Left Edge	On	On	Off	Off	Off	Off	Off	Off	Off	Off	Off
Top Edge	On	On	On	On	On	On	On	On	On	On	Off

Note: Power reduction is only applicable for ANT4 and ANT5.

9.1.4 proximity sensor-4

Distance in mm	1~14	15	16	17	18	19	20	21	22	23	24~30
Front Side	On	On	Off	Off	Off	Off	Off	Off	Off	Off	Off
Back Side	On	On	On	On	On	On	On	Off	Off	Off	Off
Right Edge	On	On	On	Off	Off	Off	Off	Off	Off	Off	Off
Top Edge	On	On	On	On	On	On	On	On	On	On	Off

Note: Power reduction is only applicable for ANT6.

To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for EUT moving toward the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

ANT1 of proximity sensor-1

EUT Sides	Additional SAR test Distance in mm
Front Side	34
Back Side	34
Right Edge	25
Bottom Edge	49

ANT2 of proximity sensor-2

EUT Sides	Additional SAR test Distance in mm
Front Side	21
Back Side	19
Left Edge	35
Bottom Edge	16

ANT 4 and ANT5 of proximity sensor-3

EUT Sides	Additional SAR test Distance in mm
Front Side	34
Back Side	39
Left Edge	26
Top Edge	54

ANT6 of proximity sensor-4

EUT Sides	Additional SAR test Distance in mm
Front Side	14
Back Side	19
Right Edge	15
Top Edge	22

9.2 Procedures for determining EUT tilt angle influences to proximity sensor triggering

The influence of EUT tilt angles to proximity sensor channel-1 triggering was determined by positioning each EUT edge that contains a transmitting antenna 1, perpendicular to the flat phantom, at 26 mm separation for the right edge and 30 mm separation for the bottom edge.

Rotating the EUT around the edge next to the phantom in $\leq 10^\circ$ increments until the EUT is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.

The influence of EUT tilt angles to proximity sensor channel-2 triggering was determined by positioning each EUT edge that contains a transmitting antenna 2, perpendicular to the flat phantom, at 36 mm separation for the left edge and 17 mm separation for the bottom edge.

Rotating the EUT around the edge next to the phantom in $\leq 10^\circ$ increments until the EUT is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.

The influence of EUT tilt angles to proximity sensor channel-3 triggering was determined by positioning each EUT edge that contains a transmitting antenna 4 and antenna 5, perpendicular to the flat phantom, at 27 mm separation for the left edge and 55 mm separation for the Top edge.

Rotating the EUT around the edge next to the phantom in $\leq 10^\circ$ increments until the EUT is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.

The influence of EUT tilt angles to proximity sensor channel-4 triggering was determined by positioning each EUT edge that contains a transmitting antenna 6, perpendicular to the flat phantom, at 16 mm separation for the right edge and 23 mm separation for the Top edge.

Rotating the EUT around the edge next to the phantom in $\leq 10^\circ$ increments until the EUT is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.

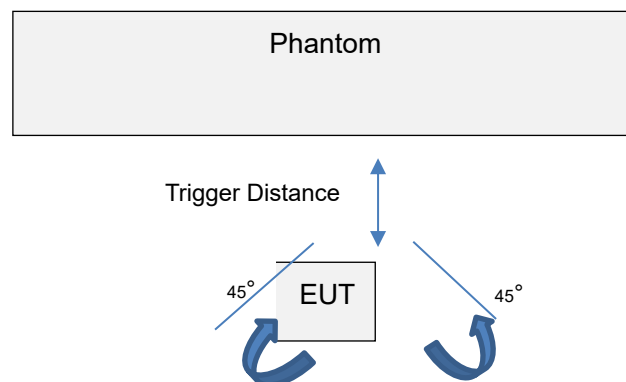
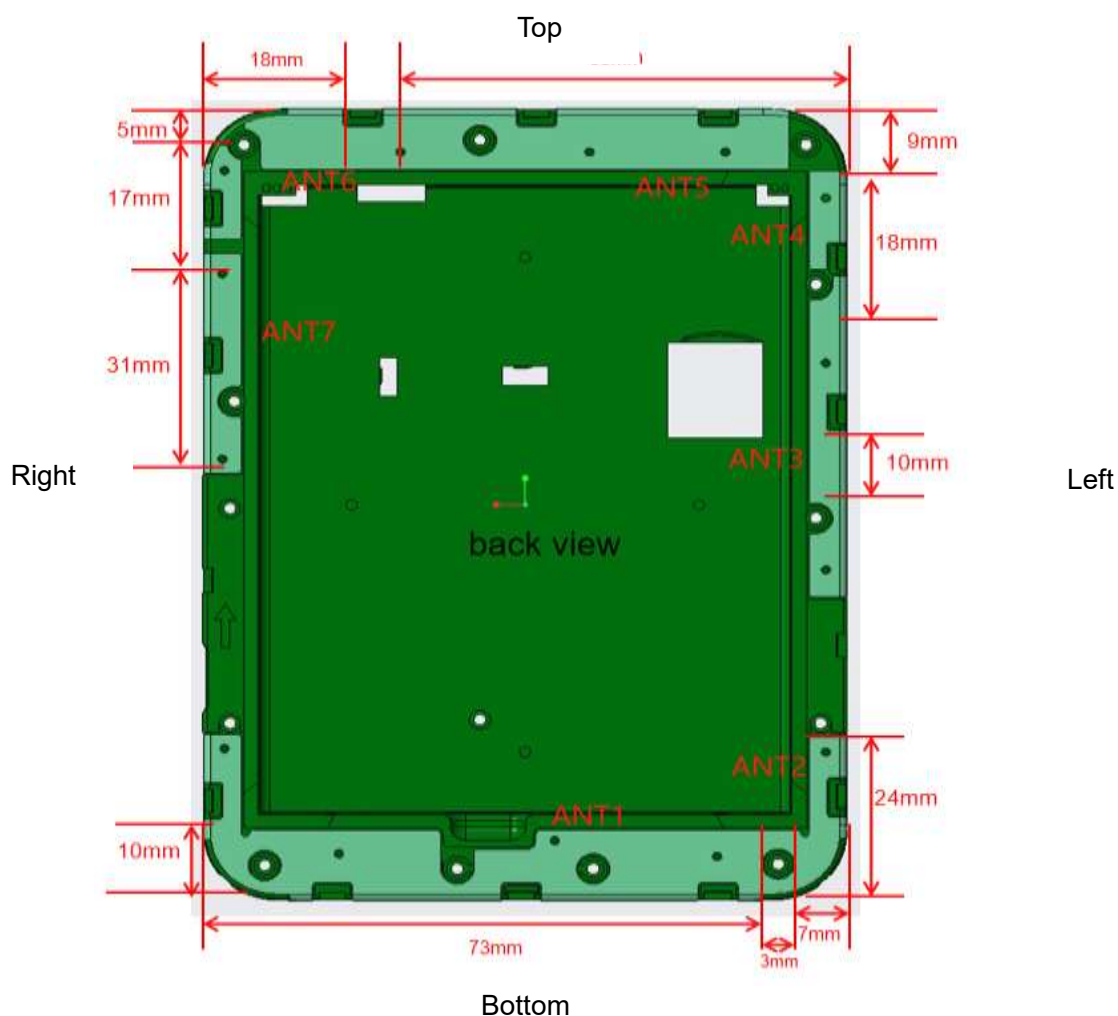


Table: Summary of Phone Tilt Angle Influence to Proximity Sensor Triggering
(Left/Right/Top/Bottom edge)

Antenna	Position	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
ANT1	Right Edge	26mm	on	on	on	on	on	on	on	on	on	on	on
ANT1	Bottom Edge	30mm	on	on	on	on	on	on	on	on	on	on	on
ANT2	Left Edge	36mm	on	on	on	on	on	on	on	on	on	on	on
ANT2	Bottom Edge	17mm	on	on	on	on	on	on	on	on	on	on	on
ANT4& ANT5	Left Edge	27mm	on	on	on	on	on	on	on	on	on	on	on
ANT4& ANT5	Top Edge	55mm	on	on	on	on	on	on	on	on	on	on	on
ANT6	Right Edge	16mm	on	on	on	on	on	on	on	on	on	on	on
ANT6	Top Edge	23mm	on	on	on	on	on	on	on	on	on	on	on

10 TEST EXCLUSION CONSIDERATION



Antenna	Support Bands
ANT 1	LTE B2/4/5/12/13/66 NR n2/5/66
ANT 2	LTE B7, NR n77
ANT 3	NR n77
ANT 4	LTE B48, NR n77
ANT 5	LTE B2/B4/66 NR n2/66
ANT 6	WALN 2.4G/5G
ANT 7	NR n77

10.1 SAR Test Exclusion Consideration Table

Antenna	Front Side	Back Side	Left Edge	Right Edge	Top Edge	Bottom Edge
ANT 1	Yes	Yes	Yes	Yes	Yes	Yes
ANT 2	Yes	Yes	Yes	Yes	Yes	Yes
ANT 3	Yes	Yes	Yes	Yes	Yes	Yes
ANT 4	Yes	Yes	Yes	Yes	Yes	Yes
ANT 5	Yes	Yes	Yes	Yes	Yes	Yes
ANT 6	Yes	Yes	Yes	Yes	Yes	Yes
ANT 7	Yes	Yes	Yes	Yes	Yes	Yes

Note: The hotspot mode requires testing of six surfaces.

Antenna	Front Side	Back Side	Left Edge	Right Edge	Top Edge	Bottom Edge
ANT 1	Yes	Yes	Yes	Yes	Yes	/
ANT 2	Yes	Yes	Yes	Yes	Yes	/
ANT 3	Yes	Yes	Yes	Yes	Yes	/
ANT 4	Yes	Yes	Yes	Yes	Yes	/
ANT 5	Yes	Yes	Yes	Yes	Yes	/
ANT 6	/	/	/	/	/	/
ANT 7	Yes	Yes	Yes	Yes	Yes	/

Note:

1. The Body scene is in dongle mode, with a USB port at the bottom, no testing is required.
2. The electronic dog mode does not support the WLAN function, so the ANT 6 does not need to be tested.

11 TEST RESULT

11.1LTE Band 2 (20MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.			
Hotspot																		
Ant.1	Front Side	10mm	QPSK	18900	1880	1	0	State 1	-0.01	0.401	22.86	23.50	1.159	0.465	/			
	Back side			18900	1880	1	0	State 1	0.05	0.697	22.86	23.50	1.159	0.808	/			
	Left side			18900	1880	1	0	Full	-0.05	0.143	23.88	24.50	1.153	0.165	/			
	Right side			18900	1880	1	0	State 1	0.09	0.186	22.86	23.50	1.159	0.216	/			
	Top side			18900	1880	1	0	Full	0.03	0.032	23.88	24.50	1.153	0.037	/			
	Bottom side			18900	1880	1	0	State 1	-0.01	0.933	22.86	23.50	1.159	1.081	/			
	Back side			18700	1860	1	0	State 1	-0.05	0.667	22.80	23.50	1.175	0.784	/			
	Back side			19100	1900	1	0	State 1	-0.14	0.808	22.78	23.50	1.180	0.954	/			
	Bottom side			18700	1860	1	0	State 1	-0.19	0.991	22.80	23.50	1.175	1.164	/			
	Bottom side			19100	1900	1	0	State 1	-0.08	1.040	22.78	23.50	1.180	1.228	1			
	Front side			18900	1880	50	50	State 1	-0.17	0.357	21.79	22.50	1.178	0.420	/			
	Back side			18900	1880	50	50	State 1	-0.13	0.621	21.79	22.50	1.178	0.731	/			
	Left side			18900	1880	50	50	Full	-0.16	0.112	22.80	23.50	1.175	0.132	/			
	Right side			18900	1880	50	50	State 1	0.10	0.166	21.79	22.50	1.178	0.195	/			
	Top side			18900	1880	50	50	Full	-0.06	0.018	22.80	23.50	1.175	0.021	/			
	Bottom side			18900	1880	50	50	State 1	-0.12	0.832	21.79	22.50	1.178	0.980	/			
	Bottom side			18700	1860	50	50	State 1	-0.07	0.883	21.67	22.50	1.211	1.069	/			
	Bottom side			19100	1900	50	50	State 1	0.04	0.942	21.65	22.50	1.216	1.146	/			
	Back side			18900	1880	100	0	State 1	-0.16	0.605	21.78	22.50	1.180	0.714	/			
	Bottom side			18900	1880	100	0	State 1	0.16	0.800	21.78	22.50	1.180	0.944	/			
	Ant.5 ENDC			Front side	10mm	QPSK	18900	1880	1	0	State 1	-0.17	0.137	18.06	18.50	1.107	0.152	/
				Back side			18900	1880	1	0	State 1	0.05	0.488	18.06	18.50	1.107	0.540	/
Left side		18900	1880	1			0	State 1	0.18	0.077	18.06	18.50	1.107	0.085	/			
Right side		18900	1880	1			0	Full	-0.09	0.071	23.97	24.50	1.130	0.080	/			
Top side		18900	1880	1			0	State 1	0.18	0.447	18.06	18.50	1.107	0.495	/			
Bottom side		18900	1880	1			0	Full	-0.06	0.030	23.97	24.50	1.130	0.034	/			
Front side		18900	1880	50			0	State 1	-0.11	0.151	17.97	18.50	1.130	0.171	/			
Back side		18900	1880	50			0	State 1	-0.18	0.473	17.97	18.50	1.130	0.534	/			
Left side		18900	1880	50			0	State 1	0.07	0.086	17.97	18.50	1.130	0.097	/			
Right side		18900	1880	50			0	Full	-0.05	0.047	22.94	23.50	1.138	0.053	/			
Top side		18900	1880	50			0	State 1	0.07	0.426	17.97	18.50	1.130	0.481	/			
Bottom side		18900	1880	50			0	Full	0.14	0.028	22.94	23.50	1.138	0.032	/			
Body-worn																		

Ant.1	Front Side	5mm	QPSK	18900	1880	1	0	State 2	0.09	0.259	18.78	19.50	1.180	0.306	/
	Back side			18900	1880	1	0	State 2	-0.03	0.514	18.78	19.50	1.180	0.607	/
	Left side			18900	1880	1	0	Full	0.01	0.093	23.88	24.50	1.153	0.107	/
	Right side			18900	1880	1	0	State 2	-0.06	0.105	18.78	19.50	1.180	0.124	/
	Top side			18900	1880	1	0	Full	0.12	0.038	23.88	24.50	1.153	0.044	/
	Front side			18900	1880	50	50	State 2	-0.10	0.203	17.76	18.50	1.186	0.241	/
	Back side			18900	1880	50	50	State 2	-0.10	0.449	17.76	18.50	1.186	0.532	/
	Left side			18900	1880	50	50	Full	-0.11	0.077	22.80	23.50	1.175	0.090	/
	Right side			18900	1880	50	50	State 2	-0.07	0.067	17.76	18.50	1.186	0.079	/
	Top side			18900	1880	50	50	Full	0.11	0.011	22.80	23.50	1.175	0.013	/
Ant.5 ENDC	Front side	5mm	QPSK	18900	1880	1	0	State 2	0.04	0.171	16.05	16.50	1.109	0.190	/
	Back side			18900	1880	1	0	State 2	0.15	0.664	16.05	16.50	1.109	0.736	/
	Left side			18900	1880	1	0	State 2	0.15	0.076	16.05	16.50	1.109	0.084	/
	Right side			18900	1880	1	0	Full	-0.12	0.011	23.97	24.50	1.130	0.012	/
	Top side			18900	1880	1	0	State 2	-0.04	0.587	16.05	16.50	1.109	0.651	/
	Front side			18900	1880	50	0	State 2	0.07	0.167	15.94	16.50	1.138	0.190	/
	Back side			18900	1880	50	0	State 2	0.06	0.691	15.94	16.50	1.138	0.786	2
	Left side			18900	1880	50	0	State 2	-0.13	0.056	15.94	16.50	1.138	0.064	/
	Right side			18900	1880	50	0	Full	-0.05	0.008	22.94	23.50	1.138	0.009	/
	Top side			18900	1880	50	0	State 2	-0.02	0.552	15.94	16.50	1.138	0.628	/

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

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1															
Ant.1	Front Side	34mm	QPSK	18900	1880	1	0	Full	0.07	0.102	23.88	24.50	1.153	0.118	/
	Back side	34mm		18900	1880	1	0	Full	0.07	0.204	23.88	24.50	1.153	0.235	/
	Right side	25mm		18900	1880	1	0	Full	-0.06	0.108	23.88	24.50	1.153	0.125	/
	Bottom side	49mm		18900	1880	1	0	Full	0.09	0.233	23.88	24.50	1.153	0.269	/
	Front Side	34mm		18900	1880	50	50	Full	0.00	0.079	22.80	23.50	1.175	0.093	/
	Back side	34mm		18900	1880	50	50	Full	0.03	0.158	22.80	23.50	1.175	0.186	/
	Right side	25mm		18900	1880	50	50	Full	0.15	0.084	22.80	23.50	1.175	0.099	/
	Bottom side	49mm		18900	1880	50	50	Full	-0.03	0.181	22.80	23.50	1.175	0.213	/
Ant.5 ENDC	Front side	34mm	QPSK	18900	1880	1	0	Full	-0.07	0.078	23.97	24.50	1.130	0.088	/
	Back side	39mm		18900	1880	1	0	Full	-0.06	0.113	23.97	24.50	1.130	0.128	/
	Left side	26mm		18900	1880	1	0	Full	-0.16	0.128	23.97	24.50	1.130	0.145	/
	Top side	54mm		18900	1880	1	0	Full	-0.12	0.123	23.97	24.50	1.130	0.139	/
	Front side	34mm		18900	1880	50	0	Full	0.10	0.061	22.94	23.50	1.138	0.069	/
	Back side	39mm		18900	1880	50	0	Full	0.14	0.088	22.94	23.50	1.138	0.100	/
	Left side	26mm		18900	1880	50	0	Full	0.01	0.099	22.94	23.50	1.138	0.113	/

	Top side	54mm		18900	1880	50	0	Full	-0.05	0.095	22.94	23.50	1.138	0.108	/
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Note: Refer to ANNEX C for the detailed test data for each test configuration.

11.2LTE Band 4 (20MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot															
Ant.1	Front side	10mm	QPSK	20175	1732.5	1	0	State 1	-0.15	0.453	22.03	22.50	1.114	0.505	/
	Back side			20175	1732.5	1	0	State 1	-0.06	0.840	22.03	22.50	1.114	0.936	/
	Left side			20175	1732.5	1	0	Full	-0.06	0.190	23.95	24.50	1.135	0.216	/
	Right side			20175	1732.5	1	0	State 1	-0.01	0.118	22.03	22.50	1.114	0.131	/
	Top side			20175	1732.5	1	0	Full	-0.03	0.051	23.95	24.50	1.135	0.058	/
	Bottom side			20175	1732.5	1	0	State 1	-0.16	0.998	22.03	22.50	1.114	1.112	/
	Back side			20050	1720	1	0	State 1	0.07	0.924	21.97	22.50	1.130	1.044	/
	Back side			20300	1745	1	0	State 1	-0.01	0.830	21.98	22.50	1.127	0.936	/
	Bottom side			20050	1720	1	0	State 1	-0.09	1.030	21.97	22.50	1.130	1.164	3
	Bottom side			20300	1745	1	0	State 1	-0.13	0.949	21.98	22.50	1.127	1.070	/
	Front side			20175	1732.5	50	24	State 1	0.05	0.404	20.90	21.50	1.148	0.464	/
	Back side			20175	1732.5	50	24	State 1	-0.15	0.749	20.90	21.50	1.148	0.860	/
	Left side			20175	1732.5	50	50	Full	-0.08	0.159	22.87	23.50	1.156	0.184	/
	Right side			20175	1732.5	50	24	State 1	-0.16	0.105	20.90	21.50	1.148	0.121	/
	Top side			20175	1732.5	50	50	Full	0.02	0.045	22.87	23.50	1.156	0.052	/
	Bottom side			20175	1732.5	50	24	State 1	-0.15	0.889	20.90	21.50	1.148	1.021	/
	Back side			20050	1720	50	24	State 1	-0.11	0.824	20.86	21.50	1.159	0.955	/
	Back side			20300	1745	50	24	State 1	0.02	0.740	20.78	21.50	1.180	0.873	/
	Bottom side			20050	1720	50	24	State 1	-0.12	0.909	20.86	21.50	1.159	1.053	/
	Bottom side			20300	1745	50	24	State 1	0.03	0.846	20.78	21.50	1.180	0.999	/
	Back side			20175	1732.5	100	0	State 1	-0.01	0.716	20.85	21.50	1.161	0.832	/
	Bottom side			20175	1732.5	100	0	State 1	0.03	0.852	20.85	21.50	1.161	0.990	/
Ant.5 UL-CA	Front side	10mm	QPSK	20175	1732.5	1	0	State 1	-0.11	0.143	15.09	15.50	1.099	0.157	/
	Back side			20175	1732.5	1	0	State 1	0.10	0.391	15.09	15.50	1.099	0.430	/
	Left side			20175	1732.5	1	0	State 1	-0.05	0.041	15.09	15.50	1.099	0.045	/
	Right side			20175	1732.5	1	0	Full	-0.06	0.018	23.93	24.50	1.140	0.021	/
	Top side			20175	1732.5	1	0	State 1	-0.04	0.445	15.09	15.50	1.099	0.489	/
	Bottom side			20175	1732.5	1	0	Full	0.17	0.014	23.93	24.50	1.140	0.016	/
	Front side			20175	1732.5	50	0	State 1	-0.17	0.136	15.08	15.50	1.102	0.150	/
	Back side			20175	1732.5	50	0	State 1	0.09	0.386	15.08	15.50	1.102	0.425	/
	Left side			20175	1732.5	50	0	State 1	-0.16	0.008	15.08	15.50	1.102	0.009	/
	Right side			20175	1732.5	50	50	Full	0.08	0.009	22.88	23.50	1.153	0.010	/
	Top side			20175	1732.5	50	0	State 1	-0.16	0.447	15.08	15.50	1.102	0.492	/

	Bottom side			20175	1732.5	50	50	Full	0.18	0.011	22.88	23.50	1.153	0.013	/			
Body-worn																		
Ant. 1	Front side	5mm	QPSK	20175	1732.5	1	0	State 2	-0.18	0.329	18.96	19.50	1.132	0.373	/			
	Back side			20175	1732.5	1	0	State 2	-0.02	0.856	18.96	19.50	1.132	0.969	/			
	Left side			20175	1732.5	1	0	Full	0.18	0.105	23.95	24.50	1.135	0.119	/			
	Right side			20175	1732.5	1	0	State 2	0.01	0.061	18.96	19.50	1.132	0.069	/			
	Top side			20175	1732.5	1	0	Full	0.02	0.030	23.95	24.50	1.135	0.034	/			
	Back side			20050	1720	1	0	State 2	-0.01	0.993	18.83	19.50	1.167	1.159	4			
	Back side			20300	1745	1	0	State 2	-0.14	0.880	18.95	19.50	1.135	0.999	/			
	Front side			20175	1732.5	50	0	State 2	0.19	0.254	17.85	18.50	1.161	0.295	/			
	Back side			20175	1732.5	50	0	State 2	0.05	0.688	17.85	18.50	1.161	0.799	/			
	Left side			20175	1732.5	50	50	Full	0.09	0.083	22.87	23.50	1.156	0.096	/			
	Right side			20175	1732.5	50	0	State 2	0.12	0.046	17.85	18.50	1.161	0.053	/			
	Top side			20175	1732.5	50	50	Full	0.11	0.015	22.87	23.50	1.156	0.017	/			
	Back side			20175	1732.5	100	0	State 2	0.12	0.676	17.85	18.50	1.161	0.785	/			
	Ant.5 UL-CA			Front side	5mm	QPSK	20175	1732.5	1	0	State 2	-0.13	0.271	15.09	15.50	1.099	0.298	/
				Back side			20175	1732.5	1	0	State 2	-0.13	0.670	15.09	15.50	1.099	0.736	/
Left side		20175	1732.5	1			0	State 2	-0.10	0.056	15.09	15.50	1.099	0.062	/			
Right side		20175	1732.5	1			0	Full	-0.10	0.028	23.93	24.50	1.140	0.032	/			
Top side		20175	1732.5	1			0	State 2	0.06	0.932	15.09	15.50	1.099	1.024	/			
Top side		20050	1720	1			0	State 2	0.11	0.815	15.01	15.50	1.119	0.912	/			
Top side		20300	1745	1			0	State 2	0.05	0.870	15.02	15.50	1.117	0.972	/			
Front side		20175	1732.5	50			0	State 2	0.04	0.287	15.08	15.50	1.102	0.316	/			
Back side		20175	1732.5	50			0	State 2	0.10	0.644	15.08	15.50	1.102	0.709	/			
Left side		20175	1732.5	50			0	State 2	0.05	0.040	15.08	15.50	1.102	0.044	/			
Right side		20175	1732.5	50			50	Full	-0.16	0.016	22.88	23.50	1.153	0.018	/			
Top side		20175	1732.5	50			0	State 2	0.13	0.894	15.08	15.50	1.102	0.985	/			
Top side		20050	1720	50			0	State 2	0.09	0.817	15.03	15.50	1.114	0.910	/			
Top side		20300	1745	50			0	State 2	0.12	0.866	15.01	15.50	1.119	0.969	/			
Top side		20175	1732.5	100			0	State 2	-0.17	0.848	15.03	15.50	1.114	0.945	/			
Note: Refer to ANNEX C for the detailed test data for each test configuration.																		

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1															
Ant.1	Front Side	34mm	QPSK	20050	1720	1	0	Full	0.09	0.118	23.81	24.50	1.172	0.138	/
	Back side	34mm		20050	1720	1	0	Full	0.16	0.165	23.81	24.50	1.172	0.193	/
	Right side	25mm		20050	1720	1	0	Full	0.04	0.089	23.81	24.50	1.172	0.104	/
	Bottom side	49mm		20050	1720	1	0	Full	-0.14	0.234	23.81	24.50	1.172	0.274	/
	Front Side	34mm		20050	1720	50	50	Full	-0.11	0.092	22.87	23.50	1.156	0.106	/
	Back side	34mm		20050	1720	50	50	Full	-0.07	0.128	22.87	23.50	1.156	0.148	/
	Right side	25mm		20050	1720	50	50	Full	-0.10	0.069	22.87	23.50	1.156	0.080	/
	Bottom side	49mm		20050	1720	50	50	Full	0.08	0.182	22.87	23.50	1.156	0.210	/
Ant.5 ENDC	Front side	34mm	QPSK	20175	1732.5	1	0	Full	-0.16	0.137	23.93	24.50	1.140	0.156	/
	Back side	39mm		20175	1732.5	1	0	Full	0.12	0.185	23.93	24.50	1.140	0.211	/
	Left side	26mm		20175	1732.5	1	0	Full	0.17	0.068	23.93	24.50	1.140	0.078	/
	Top side	54mm		20175	1732.5	1	0	Full	0.16	0.199	23.93	24.50	1.140	0.227	/
	Front side	34mm		20175	1732.5	50	50	Full	0.06	0.106	22.88	23.50	1.153	0.122	/
	Back side	39mm		20175	1732.5	50	50	Full	-0.10	0.144	22.88	23.50	1.153	0.166	/
	Left side	26mm		20175	1732.5	50	50	Full	0.17	0.053	22.88	23.50	1.153	0.061	/
	Top side	54mm		20175	1732.5	50	50	Full	0.01	0.154	22.88	23.50	1.153	0.178	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.3LTE Band 5 (10MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot															
Ant.1	Front side	10mm	QPSK	20525	836.5	1	0	Full	-0.08	0.612	23.12	23.50	1.091	0.668	5
	Back side			20525	836.5	1	0	Full	-0.07	0.583	23.12	23.50	1.091	0.636	/
	Left side			20525	836.5	1	0	Full	-0.16	0.296	23.12	23.50	1.091	0.323	/
	Right side			20525	836.5	1	0	Full	0.17	0.312	23.12	23.50	1.091	0.341	/
	Top side			20525	836.5	1	0	Full	-0.14	0.055	23.12	23.50	1.091	0.060	/
	Bottom side			20525	836.5	1	0	Full	0.08	0.252	23.12	23.50	1.091	0.275	/
	Front side			20525	836.5	25	0	Full	-0.03	0.478	22.06	22.50	1.107	0.529	/
	Back side			20525	836.5	25	0	Full	0.16	0.462	22.06	22.50	1.107	0.511	/
	Left side			20525	836.5	25	0	Full	0.11	0.232	22.06	22.50	1.107	0.257	/
	Right side			20525	836.5	25	0	Full	-0.01	0.249	22.06	22.50	1.107	0.276	/
	Top side			20525	836.5	25	0	Full	-0.01	0.050	22.06	22.50	1.107	0.055	/
	Bottom side			20525	836.5	25	0	Full	-0.14	0.226	22.06	22.50	1.107	0.250	/
Body-worn															
Ant.1	Front side	5mm	QPSK	20525	836.5	1	0	Full	0.19	0.528	23.12	23.50	1.091	0.576	6
	Back side			20525	836.5	1	0	Full	-0.15	0.482	23.12	23.50	1.091	0.526	/
	Left side			20525	836.5	1	0	Full	0.08	0.339	23.12	23.50	1.091	0.370	/
	Right side			20525	836.5	1	0	Full	0.16	0.522	23.12	23.50	1.091	0.570	/
	Top side			20525	836.5	1	0	Full	-0.10	0.108	23.12	23.50	1.091	0.118	/
	Front side			20525	836.5	25	0	Full	0.04	0.417	22.06	22.50	1.107	0.461	/
	Back side			20525	836.5	25	0	Full	-0.14	0.500	22.06	22.50	1.107	0.553	/
	Left side			20525	836.5	25	0	Full	0.14	0.272	22.06	22.50	1.107	0.301	/
	Right side			20525	836.5	25	0	Full	-0.05	0.426	22.06	22.50	1.107	0.471	/
	Top side			20525	836.5	25	0	Full	0.18	0.102	22.06	22.50	1.107	0.113	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.4LTE Band 7 (20MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot															
Ant.2	Front side	10mm	QPSK	21100	2535	1	0	Full	-0.08	0.508	22.92	23.50	1.143	0.581	7
	Back side			21100	2535	1	0	Full	-0.18	0.309	22.92	23.50	1.143	0.353	/
	Left side			21100	2535	1	0	Full	0.12	0.253	22.92	23.50	1.143	0.289	/
	Right side			21100	2535	1	0	Full	-0.18	0.086	22.92	23.50	1.143	0.098	/
	Top side			21100	2535	1	0	Full	0.14	0.057	22.92	23.50	1.143	0.065	/
	Bottom side			21100	2535	1	0	Full	-0.02	0.302	22.92	23.50	1.143	0.345	/
	Front side			21100	2535	50	0	Full	-0.18	0.359	21.78	22.50	1.180	0.424	/
	Back side			21100	2535	50	0	Full	-0.16	0.233	21.78	22.50	1.180	0.275	/
	Left side			21100	2535	50	0	Full	-0.01	0.199	21.78	22.50	1.180	0.235	/
	Right side			21100	2535	50	0	Full	0.04	0.069	21.78	22.50	1.180	0.081	/
	Top side			21100	2535	50	0	Full	0.03	0.031	21.78	22.50	1.180	0.037	/
	Bottom side			21100	2535	50	0	Full	-0.18	0.246	21.78	22.50	1.180	0.290	/
Body-worn															
Ant.2	Front side	5mm	QPSK	21100	2535	1	0	Full	-0.13	1.020	22.92	23.50	1.143	1.166	8
	Back side			21100	2535	1	0	Full	0.06	0.591	22.92	23.50	1.143	0.675	/
	Left side			21100	2535	1	0	Full	-0.18	0.857	22.92	23.50	1.143	0.979	/
	Right side			21100	2535	1	0	Full	0.17	0.108	22.92	23.50	1.143	0.123	/
	Top side			21100	2535	1	0	Full	-0.07	0.026	22.92	23.50	1.143	0.030	/
	Front side			20850	2510	1	0	Full	0.07	0.966	22.89	23.50	1.151	1.112	/
	Front side			21350	2560	1	0	Full	-0.19	0.967	22.85	23.50	1.161	1.123	/
	Left side			20850	2510	1	0	Full	-0.11	0.833	22.89	23.50	1.151	0.959	/
	Left side			21350	2560	1	0	Full	-0.17	0.838	22.85	23.50	1.161	0.973	/
	Front side			21100	2535	50	0	Full	0.15	0.900	21.78	22.50	1.180	1.062	/
	Back side			21100	2535	50	0	Full	-0.03	0.525	21.78	22.50	1.180	0.620	/
	Left side			21100	2535	50	0	Full	-0.09	0.781	21.78	22.50	1.180	0.922	/
	Right side			21100	2535	50	0	Full	-0.12	0.075	21.78	22.50	1.180	0.089	/
	Top side			21100	2535	50	0	Full	-0.14	0.011	21.78	22.50	1.180	0.013	/
	Front side			20850	2510	50	0	Full	0.09	0.873	21.73	22.50	1.194	1.042	/
	Front side			21350	2560	50	0	Full	-0.12	0.864	21.68	22.50	1.208	1.044	/
	Left side			20850	2510	50	0	Full	0.14	0.744	21.73	22.50	1.194	0.888	/
	Left side			21350	2560	50	0	Full	-0.04	0.763	21.68	22.50	1.208	0.922	/
	Front side			21100	2535	100	0	Full	0.08	0.865	21.77	22.50	1.183	1.023	/
	Left side			21100	2535	100	0	Full	-0.05	0.747	21.77	22.50	1.183	0.884	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

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

11.5LTE Band 12 (10MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot															
Ant.1	Front side	10mm	QPSK	23095	707.5	1	0	Full	-0.06	0.277	22.55	23.50	1.245	0.345	/
	Back side			23095	707.5	1	0	Full	-0.12	0.302	22.55	23.50	1.245	0.376	9
	Left side			23095	707.5	1	0	Full	0.06	0.183	22.55	23.50	1.245	0.228	/
	Right side			23095	707.5	1	0	Full	0.08	0.253	22.55	23.50	1.245	0.315	/
	Top side			23095	707.5	1	0	Full	0.18	0.032	22.55	23.50	1.245	0.040	/
	Bottom side			23095	707.5	1	0	Full	-0.09	0.111	22.55	23.50	1.245	0.138	/
	Front side			23095	707.5	25	0	Full	-0.04	0.278	21.48	22.50	1.265	0.352	/
	Back side			23095	707.5	25	0	Full	0.05	0.290	21.48	22.50	1.265	0.367	/
	Left side			23095	707.5	25	0	Full	-0.02	0.148	21.48	22.50	1.265	0.187	/
	Right side			23095	707.5	25	0	Full	-0.06	0.199	21.48	22.50	1.265	0.252	/
	Top side			23095	707.5	25	0	Full	-0.08	0.011	21.48	22.50	1.265	0.014	/
	Bottom side			23095	707.5	25	0	Full	0.04	0.091	21.48	22.50	1.265	0.115	/
Body-worn															
Ant.1	Front side	5mm	QPSK	23095	707.5	1	0	Full	-0.14	0.350	22.55	23.50	1.245	0.436	/
	Back side			23095	707.5	1	0	Full	0.04	0.404	22.55	23.50	1.245	0.503	10
	Left side			23095	707.5	1	0	Full	0.15	0.275	22.55	23.50	1.245	0.342	/
	Right side			23095	707.5	1	0	Full	0.05	0.397	22.55	23.50	1.245	0.494	/
	Top side			23095	707.5	1	0	Full	-0.06	0.083	22.55	23.50	1.245	0.103	/
	Front side			23095	707.5	25	0	Full	0.07	0.315	21.48	22.50	1.265	0.398	/
	Back side			23095	707.5	25	0	Full	-0.10	0.362	21.48	22.50	1.265	0.458	/
	Left side			23095	707.5	25	0	Full	0.16	0.220	21.48	22.50	1.265	0.278	/
	Right side			23095	707.5	25	0	Full	-0.16	0.315	21.48	22.50	1.265	0.398	/
	Top side			23095	707.5	25	0	Full	-0.02	0.067	21.48	22.50	1.265	0.085	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.6LTE Band 13 (10MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot															
Ant.1	Front side	10mm	QPSK	23230	782	1	0	Full	0.02	0.462	22.57	23.50	1.239	0.572	/
	Back side			23230	782	1	0	Full	0.14	0.472	22.57	23.50	1.239	0.585	11
	Left side			23230	782	1	0	Full	0.02	0.271	22.57	23.50	1.239	0.336	/
	Right side			23230	782	1	0	Full	0.03	0.323	22.57	23.50	1.239	0.400	/
	Top side			23230	782	1	0	Full	0.19	0.036	22.57	23.50	1.239	0.045	/
	Bottom side			23230	782	1	0	Full	0.04	0.161	22.57	23.50	1.239	0.199	/
	Front side			23230	782	25	12	Full	-0.04	0.394	21.51	22.50	1.256	0.495	/
	Back side			23230	782	25	12	Full	0.06	0.399	21.51	22.50	1.256	0.501	/
	Left side			23230	782	25	12	Full	0.02	0.212	21.51	22.50	1.256	0.266	/
	Right side			23230	782	25	12	Full	0.06	0.248	21.51	22.50	1.256	0.311	/
	Top side			23230	782	25	12	Full	-0.15	0.025	21.51	22.50	1.256	0.031	/
	Bottom side			23230	782	25	12	Full	0.17	0.139	21.51	22.50	1.256	0.175	/
Body-worn															
Ant.1	Front side	5mm	QPSK	23230	782	1	0	Full	0.01	0.438	22.57	23.50	1.239	0.543	/
	Back side			23230	782	1	0	Full	0.18	0.511	22.57	23.50	1.239	0.633	12
	Left side			23230	782	1	0	Full	-0.19	0.382	22.57	23.50	1.239	0.473	/
	Right side			23230	782	1	0	Full	0.08	0.485	22.57	23.50	1.239	0.601	/
	Top side			23230	782	1	0	Full	0.05	0.073	22.57	23.50	1.239	0.090	/
	Front side			23230	782	25	12	Full	0.08	0.371	21.51	22.50	1.256	0.466	/
	Back side			23230	782	25	12	Full	0.11	0.427	21.51	22.50	1.256	0.536	/
	Left side			23230	782	25	12	Full	-0.16	0.287	21.51	22.50	1.256	0.360	/
	Right side			23230	782	25	12	Full	-0.17	0.412	21.51	22.50	1.256	0.517	/
	Top side			23230	782	25	12	Full	-0.14	0.056	21.51	22.50	1.256	0.070	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.7LTE Band 66 (20MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot															
Ant.1	Front side	10mm	QPSK	132322	1745	1	0	State 1	0.12	0.452	21.89	22.50	1.151	0.520	/
	Back side			132322	1745	1	0	State 1	-0.04	0.825	21.89	22.50	1.151	0.949	/
	Left side			132322	1745	1	0	Full	-0.14	0.232	23.96	24.50	1.132	0.263	/
	Right side			132322	1745	1	0	State 1	-0.10	0.118	21.89	22.50	1.151	0.136	/
	Top side			132322	1745	1	0	Full	0.13	0.055	23.96	24.50	1.132	0.062	/
	Bottom side			132322	1745	1	0	State 1	-0.07	0.976	21.89	22.50	1.151	1.123	/
	Back side			132072	1720	1	0	State 1	-0.15	0.988	21.86	22.50	1.159	1.145	/
	Back side			132572	1770	1	0	State 1	-0.01	0.771	21.88	22.50	1.153	0.889	/
	Bottom side			132072	1720	1	0	State 1	0.13	1.090	21.86	22.50	1.159	1.263	13
	Bottom side			132572	1770	1	0	State 1	0.09	0.935	21.88	22.50	1.153	1.078	/
	Front side			132322	1745	50	0	State 1	0.09	0.403	20.92	21.50	1.143	0.461	/
	Back side			132322	1745	50	0	State 1	-0.04	0.735	20.92	21.50	1.143	0.840	/
	Left side			132322	1745	50	50	Full	0.13	0.189	22.92	23.50	1.143	0.216	/
	Right side			132322	1745	50	0	State 1	0.06	0.105	20.92	21.50	1.143	0.120	/
	Top side			132322	1745	50	50	Full	-0.05	0.041	22.92	23.50	1.143	0.047	/
	Bottom side			132322	1745	50	0	State 1	-0.05	0.870	20.92	21.50	1.143	0.994	/
	Back side			132072	1720	50	0	State 1	0.04	0.881	20.87	21.50	1.156	1.019	/
	Back side			132572	1770	50	0	State 1	-0.15	0.687	20.89	21.50	1.151	0.791	/
	Bottom side			132072	1720	50	0	State 1	-0.19	0.936	20.87	21.50	1.156	1.082	/
	Bottom side			132572	1770	50	0	State 1	0.02	0.833	20.89	21.50	1.151	0.959	/
	Back side			132322	1745	100	0	State 1	0.12	0.718	20.88	22.50	1.452	1.043	/
	Bottom side			132322	1745	100	0	State 1	0.07	0.826	20.88	22.50	1.452	1.199	/
Ant.5 ENDC	Front side	10mm	QPSK	132322	1745	1	0	State 1	0.19	0.181	16.04	16.50	1.112	0.201	/
	Back side			132322	1745	1	0	State 1	0.02	0.504	16.04	16.50	1.112	0.560	/
	Left side			132322	1745	1	0	State 1	-0.14	0.014	16.04	16.50	1.112	0.016	/
	Right side			132322	1745	1	0	Full	0.09	0.111	23.96	24.50	1.132	0.126	/
	Top side			132322	1745	1	0	State 1	0.03	0.629	16.04	16.50	1.112	0.699	/
	Bottom side			132322	1745	1	0	Full	0.11	0.035	23.96	24.50	1.132	0.040	/
	Front side			132322	1745	50	0	State 1	0.17	0.174	16.04	16.50	1.112	0.193	/
	Back side			132322	1745	50	0	State 1	-0.02	0.516	16.04	16.50	1.112	0.574	/
	Left side			132322	1745	50	0	State 1	-0.02	0.016	16.04	16.50	1.112	0.018	/
	Right side			132322	1745	50	0	Full	-0.12	0.091	22.87	23.50	1.156	0.105	/
	Top side			132322	1745	50	0	State 1	0.15	0.618	16.04	16.50	1.112	0.687	/
	Bottom side			132322	1745	50	0	Full	0.18	0.033	22.87	23.50	1.156	0.038	/
Body-worn															

Ant.1	Front side	5mm	QPSK	132322	1745	1	0	State 1	-0.17	0.313	18.87	19.50	1.156	0.362	/
	Back side			132322	1745	1	0	State 1	0.13	0.727	18.87	19.50	1.156	0.840	/
	Left side			132322	1745	1	0	Full	-0.19	0.556	23.96	24.50	1.132	0.630	/
	Right side			132322	1745	1	0	State 1	-0.17	0.065	18.87	19.50	1.156	0.075	/
	Top side			132322	1745	1	0	State 1	0.10	0.012	18.87	19.50	1.156	0.014	/
	Back side			132072	1720	1	0	State 1	0.08	0.868	18.81	19.50	1.172	1.017	/
	Back side			132572	1770	1	0	State 1	-0.09	0.623	18.79	19.50	1.178	0.734	/
	Front side			132322	1745	50	24	State 1	0.17	0.264	17.84	18.50	1.164	0.307	/
	Back side			132322	1745	50	24	State 1	-0.10	0.547	17.84	18.50	1.164	0.637	/
	Left side			132322	1745	50	50	Full	0.03	0.442	22.92	23.50	1.143	0.505	/
	Right side			132322	1745	50	24	State 1	-0.01	0.049	17.84	18.50	1.164	0.057	/
	Top side			132322	1745	50	24	State 1	-0.13	0.011	17.84	18.50	1.164	0.013	/
	Back side			132322	1745	100	0	State 2	0.19	0.518	17.84	18.50	1.164	0.603	/
Ant.5 ENDC	Front side	5mm	QPSK	132322	1745	1	0	State 2	0.08	0.279	15.03	15.50	1.114	0.311	/
	Back side			132322	1745	1	0	State 2	0.11	0.689	15.03	15.50	1.114	0.768	/
	Left side			132322	1745	1	0	State 2	0.05	0.043	15.03	15.50	1.114	0.048	/
	Right side			132322	1745	1	0	Full	-0.03	0.011	23.96	24.50	1.132	0.012	/
	Top side			132322	1745	1	0	State 2	-0.09	0.905	15.03	15.30	1.064	0.963	/
	Top side			132072	1720	1	0	State 2	-0.05	0.924	14.90	15.50	1.148	1.061	14
	Top side			132572	1770	1	0	State 2	0.10	0.910	14.94	15.50	1.138	1.035	/
	Front side			132322	1745	50	0	State 2	0.02	0.287	14.94	15.50	1.138	0.326	/
	Back side			132322	1745	50	0	State 2	-0.05	0.668	14.94	15.50	1.138	0.760	/
	Left side			132322	1745	50	0	State 2	0.13	0.041	14.94	15.50	1.138	0.047	/
	Right side			132322	1745	50	0	Full	0.14	0.009	22.87	23.50	1.156	0.010	/
	Top side			132322	1745	50	0	State 2	-0.18	0.924	14.94	15.50	1.138	1.051	/
	Top side			132072	1720	50	0	State 2	-0.13	0.923	14.94	15.50	1.138	1.050	/
	Top side			132572	1770	50	0	State 2	0.17	0.914	14.88	15.50	1.153	1.054	/
	Top side			132322	1745	100	0	State 2	-0.08	0.902	14.89	15.50	1.151	1.038	/

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

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1															
Ant.1	Front Side	34mm	QPSK	132072	1720	1	0	Full	-0.16	0.115	23.96	24.50	1.132	0.130	/
	Back side	34mm		132072	1720	1	0	Full	0.06	0.158	23.96	24.50	1.132	0.179	/
	Right side	25mm		132072	1720	1	0	Full	-0.04	0.087	23.96	24.50	1.132	0.099	/
	Bottom side	49mm		132072	1720	1	0	Full	0.06	0.011	23.96	24.50	1.132	0.012	/
	Front Side	34mm		132072	1720	50	50	Full	-0.11	0.089	22.92	23.50	1.143	0.102	/
	Back side	34mm		132072	1720	50	50	Full	0.09	0.123	22.92	23.50	1.143	0.141	/
	Right side	25mm		132072	1720	50	50	Full	0.08	0.068	22.92	23.50	1.143	0.078	/
	Bottom side	49mm		132072	1720	50	50	Full	-0.17	0.020	22.92	23.50	1.143	0.023	/
Ant.5 ENDC	Front side	34mm	QPSK	132322	1745	1	0	Full	-0.11	0.138	23.96	24.50	1.132	0.156	/
	Back side	39mm		132322	1745	1	0	Full	-0.02	0.266	23.96	24.50	1.132	0.301	/
	Left side	26mm		132322	1745	1	0	Full	0.09	0.078	23.96	24.50	1.132	0.088	/
	Top side	54mm		132322	1745	1	0	Full	-0.04	0.257	23.96	24.50	1.132	0.291	/
	Front side	34mm		132322	1745	50	0	Full	-0.03	0.107	22.87	23.50	1.156	0.124	/
	Back side	39mm		132322	1745	50	0	Full	-0.04	0.206	22.87	23.50	1.156	0.238	/
	Left side	26mm		132322	1745	50	0	Full	0.15	0.061	22.87	23.50	1.156	0.071	/
	Top side	54mm		132322	1745	50	0	Full	0.17	0.199	22.87	23.50	1.156	0.230	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.8LTE Band 48 (20MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot															
Ant.4	Front side	10mm	QPSK	55990	3625	1	0	State 1	-0.13	0.323	19.44	20.00	1.138	0.367	/
	Back side			55990	3625	1	0	State 1	0.16	0.347	19.44	20.00	1.138	0.395	/
	Left side			55990	3625	1	0	State 1	0.18	1.040	19.44	20.00	1.138	1.183	/
	Right side			55990	3625	1	0	Full	-0.17	0.082	23.41	24.00	1.146	0.094	/
	Top side			55990	3625	1	0	State 1	0.04	0.568	19.44	20.00	1.138	0.646	/
	Bottom side			55990	3625	1	0	Full	-0.10	0.045	23.41	24.00	1.146	0.052	/
	Left side			55340	3560	1	0	State 1	-0.10	0.819	19.31	20.00	1.172	0.960	/
	Left side			55830	3609	1	0	State 1	0.07	0.928	19.37	20.00	1.156	1.073	/
	Left side			56150	3641	1	0	State 1	0.04	1.010	19.42	20.00	1.143	1.154	/
	Left side			56640	3690	1	0	State 1	0.03	1.060	19.29	20.00	1.178	1.248	15
	Front side			55990	3625	50	0	State 1	0.07	0.288	18.38	19.00	1.153	0.332	/
	Back side			55990	3625	50	0	State 1	0.08	0.309	18.38	19.00	1.153	0.356	/
	Left side			55990	3625	50	0	State 1	-0.05	0.927	18.38	19.00	1.153	1.069	/
	Right side			55990	3625	50	0	Full	-0.09	0.075	22.31	23.00	1.172	0.088	/
	Top side			55990	3625	50	0	State 1	-0.16	0.457	18.38	19.00	1.153	0.527	/
	Bottom side			55990	3625	50	0	Full	0.14	0.049	22.31	23.00	1.172	0.057	/
	Left side			55340	3560	50	0	State 1	-0.11	0.730	18.33	19.00	1.167	0.852	/
	Left side			55830	3609	50	0	State 1	0.01	0.892	18.36	19.00	1.159	1.034	/
	Left side			56150	3641	50	0	State 1	0.15	0.925	18.29	19.00	1.178	1.089	/
	Left side			56640	3690	50	0	State 1	0.06	0.936	18.36	19.00	1.159	1.085	/
	Left side			55990	3625	100	0	State 1	-0.16	0.896	18.40	19.00	1.148	1.029	/
Body-worn															
Ant.4	Front side	5mm	QPSK	55990	3625	1	0	State 2	0.02	0.189	15.37	16.00	1.156	0.219	/
	Back side			55990	3625	1	0	State 2	0.08	0.205	15.37	16.00	1.156	0.237	/
	Left side			55990	3625	1	0	State 2	-0.09	0.851	15.37	16.00	1.156	0.984	/
	Right side			55990	3625	1	0	Full	-0.08	0.060	23.41	24.00	1.146	0.069	/
	Top side			55990	3625	1	0	State 2	-0.15	0.219	15.37	16.00	1.156	0.253	/
	Left side			55340	3560	1	0	State 2	-0.14	0.555	15.29	16.00	1.178	0.654	/
	Left side			55830	3609	1	0	State 2	0.08	0.901	15.31	16.00	1.172	1.056	/
	Left side			56150	3641	1	0	State 2	0.00	0.946	15.32	16.00	1.169	1.106	/
	Left side			56640	3690	1	0	State 2	-0.10	0.970	15.23	16.00	1.194	1.158	16
	Front side			55990	3625	50	0	State 2	0.09	0.149	14.33	15.00	1.167	0.174	/
	Back side			55990	3625	50	0	State 2	0.00	0.180	14.33	15.00	1.167	0.210	/
	Left side			55990	3625	50	0	State 2	-0.02	0.656	14.33	15.00	1.167	0.765	/
	Right side			55990	3625	50	0	Full	-0.02	0.046	22.31	23.00	1.172	0.054	/

	Top side			55990	3625	50	0	State 2	0.07	0.167	14.33	15.00	1.167	0.195	/
	Left side			55340	3560	50	0	State 2	-0.05	0.455	14.30	15.00	1.175	0.535	/
	Left side			56640	3690	50	0	State 2	-0.08	0.783	14.32	15.00	1.169	0.916	/
	Left side			55990	3625	100	0	State 2	0.02	0.635	14.31	15.00	1.172	0.744	/

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

Antenna	Test Position	Dist.	Test Mode	Test Channel	Freq.(MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1															
Ant.4	Front Side	34mm	QPSK	56640	3690	1	0	Full	0.04	0.215	23.41	24.00	1.146	0.246	/
	Back side	39mm		56640	3690	1	0	Full	-0.06	0.178	23.41	24.00	1.146	0.204	/
	Left side	26mm		56640	3690	1	0	Full	0.15	0.486	23.41	24.00	1.146	0.557	/
	Top side	54mm		56640	3690	1	0	Full	0.08	0.132	23.41	24.00	1.146	0.151	/
	Front Side	34mm		56640	3690	50	0	Full	0.08	0.163	22.31	23.00	1.172	0.191	/
	Back side	39mm		56640	3690	50	0	Full	0.18	0.141	22.31	23.00	1.172	0.165	/
	Left side	26mm		56640	3690	50	0	Full	-0.04	0.394	22.31	23.00	1.172	0.462	/
	Top side	54mm		56640	3690	50	0	Full	0.15	0.107	22.31	23.00	1.172	0.125	/

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

11.9n2 (40MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	SCS	Test Channel	Freq. (MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot																
Ant.1 ENDC	Front side	10mm	DFT-s-OFDM BPSK	15kHz	376000	1880	1	1	State 1	0.01	0.185	20.45	21.50	1.274	0.236	/
	Back side				376000	1880	1	1	State 1	0.09	0.308	20.45	21.50	1.274	0.392	/
	Left side				376000	1880	1	1	Full	-0.11	0.177	23.46	24.50	1.271	0.225	/
	Right side				376000	1880	1	1	State 1	0.11	0.057	20.45	21.50	1.274	0.073	/
	Top side				376000	1880	1	1	Full	0.18	0.080	23.46	24.50	1.271	0.102	/
	Bottom side				376000	1880	1	1	State 1	0.16	0.519	20.45	21.50	1.274	0.661	17
	Front side	10mm	DFT-s-OFDM BPSK	15kHz	376000	1880	108	0	State 1	0.03	0.165	20.37	21.00	1.156	0.191	/
	Back side				376000	1880	108	0	State 1	0.14	0.275	20.37	21.00	1.156	0.317	/
	Left side				376000	1880	108	54	Full	0.16	0.157	23.52	24.50	1.253	0.197	/
	Right side				376000	1880	108	0	State 1	-0.04	0.045	20.37	21.00	1.156	0.052	/
	Top side				376000	1880	108	54	Full	0.04	0.064	23.52	24.50	1.253	0.080	/
	Bottom side				376000	1880	108	0	State 1	-0.12	0.463	20.37	21.00	1.156	0.535	/
Ant.5 ENDC	Front side	10mm	DFT-s-OFDM BPSK	15kHz	376000	1880	1	1	State 1	0.17	0.122	17.83	18.50	1.167	0.142	/
	Back side				376000	1880	1	1	State 1	-0.08	0.491	17.83	18.50	1.167	0.573	/
	Left side				376000	1880	1	1	State 1	-0.05	0.134	17.83	18.50	1.167	0.156	/
	Right side				376000	1880	1	1	Full	-0.08	0.069	23.64	24.50	1.219	0.084	/
	Top side				376000	1880	1	1	State 1	-0.15	0.461	17.83	18.50	1.167	0.538	/
	Bottom side				376000	1880	1	1	Full	0.14	0.027	23.64	24.50	1.219	0.033	/
	Front side	10mm	DFT-s-OFDM BPSK	15kHz	376000	1880	108	0	State 1	-0.04	0.128	17.78	18.50	1.180	0.151	/
	Back side				376000	1880	108	0	State 1	0.00	0.459	17.78	18.50	1.180	0.542	/
	Left side				376000	1880	108	0	State 1	-0.17	0.068	17.78	18.50	1.180	0.080	/
	Right side				376000	1880	108	54	Full	0.04	0.339	23.74	24.50	1.191	0.404	/
	Top side				376000	1880	108	0	State 1	-0.13	0.474	17.78	18.50	1.180	0.559	/
	Bottom side				376000	1880	108	54	Full	-0.17	0.021	23.74	24.50	1.191	0.026	/
Body-worn																
Ant.1 ENDC	Front side	5mm	DFT-s-OFDM BPSK	15kHz	376000	1880	1	1	State 2	0.19	0.247	18.39	19.50	1.291	0.319	/
	Back side				376000	1880	1	1	State 2	-0.16	0.372	18.39	19.50	1.291	0.480	/
	Left side				376000	1880	1	1	Full	0.04	0.266	23.46	24.50	1.271	0.338	/
	Right side				376000	1880	1	1	State 2	0.02	0.062	18.39	19.50	1.291	0.080	/
	Top side				376000	1880	1	1	Full	-0.17	0.047	23.46	24.50	1.271	0.060	/
	Front side	5mm	DFT-s-OFDM BPSK	15kHz	376000	1880	108	0	State 2	0.04	0.233	18.32	19.50	1.312	0.306	/
	Back side				376000	1880	108	0	State 2	0.03	0.366	18.32	19.50	1.312	0.480	/
	Left side				376000	1880	108	54	Full	-0.10	0.237	23.52	24.50	1.253	0.297	/
	Right side				376000	1880	108	0	State 2	0.11	0.040	18.32	19.50	1.312	0.052	/
	Top side				376000	1880	108	54	Full	-0.17	0.035	23.52	24.50	1.253	0.044	/

Ant.5 ENDC	Front side	5mm	DFT- s- OFDM BPSK	15kHz	376000	1880	1	1	State 2	-0.17	0.134	14.77	15.50	1.183	0.159	/
	Back side				376000	1880	1	1	State 2	-0.12	0.487	14.77	15.50	1.183	0.576	18
	Left side				376000	1880	1	1	State 2	0.07	0.053	14.77	15.50	1.183	0.063	/
	Right side				376000	1880	1	1	Full	-0.16	0.159	23.64	24.50	1.219	0.194	/
	Top side				376000	1880	1	1	State 2	0.09	0.436	14.77	15.50	1.183	0.516	/
	Front side	5mm	DFT- s- OFDM BPSK	15kHz	376000	1880	108	0	State 2	0.13	0.112	14.73	15.50	1.194	0.134	/
	Back side				376000	1880	108	0	State 2	0.17	0.466	14.73	15.50	1.194	0.556	/
	Left side				376000	1880	108	0	State 2	-0.13	0.040	14.73	15.50	1.194	0.048	/
	Right side				376000	1880	108	54	Full	0.12	0.154	23.74	24.50	1.191	0.183	/
	Top side				376000	1880	108	0	State 2	0.11	0.426	14.73	15.50	1.194	0.509	/

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

Antenna	Test Position	Dist.	Test Mode	SCS	Test Channel	Freq. (MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1																
Ant.1 ENDC	Front Side	34mm	DFT- s- OFDM BPSK	15kHz	376000	1880	1	1	Full	-0.12	0.067	23.46	24.50	1.271	0.085	/
	Back side	34mm			376000	1880	1	1	Full	0.18	0.101	23.46	24.50	1.271	0.128	/
	Right side	25mm			376000	1880	1	1	Full	0.06	0.047	23.46	24.50	1.271	0.060	/
	Bottom side	49mm			376000	1880	1	1	Full	-0.04	0.171	23.46	24.50	1.271	0.217	/
	Front Side	34mm	DFT- s- OFDM BPSK	15kHz	376000	1880	108	54	Full	-0.12	0.065	23.52	24.50	1.253	0.081	/
	Back side	34mm			376000	1880	108	54	Full	0.12	0.098	23.52	24.50	1.253	0.123	/
	Right side	25mm			376000	1880	108	54	Full	-0.07	0.046	23.52	24.50	1.253	0.058	/
	Bottom side	49mm			376000	1880	108	54	Full	0.07	0.167	23.52	24.50	1.253	0.209	/
Ant.5 ENDC	Front side	34mm	DFT- s- OFDM BPSK	15kHz	376000	1880	1	1	Full	0.05	0.077	23.64	24.50	1.219	0.094	/
	Back side	39mm			376000	1880	1	1	Full	0.03	0.113	23.64	24.50	1.219	0.138	/
	Left side	26mm			376000	1880	1	1	Full	-0.11	0.080	23.64	24.50	1.219	0.098	/
	Top side	54mm			376000	1880	1	1	Full	0.05	0.154	23.64	24.50	1.219	0.188	/
	Front side	34mm	DFT- s- OFDM BPSK	15kHz	376000	1880	108	54	Full	-0.19	0.075	23.74	24.50	1.191	0.089	/
	Back side	39mm			376000	1880	108	54	Full	-0.07	0.110	23.74	24.50	1.191	0.131	/
	Left side	26mm			376000	1880	108	54	Full	-0.19	0.078	23.74	24.50	1.191	0.093	/
	Top side	54mm			376000	1880	108	54	Full	0.19	0.150	23.74	24.50	1.191	0.179	/

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

11.10 n5 (25MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	SCS	Test Channel	Freq. (MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot																
Ant.1 ENDC	Front side	10mm	DFT-s-OFDM BPSK	15kHz	167300	836.5	1	1	Full	-0.18	0.411	22.49	23.50	1.262	0.519	/
	Back side				167300	836.5	1	1	Full	-0.14	0.508	22.49	23.50	1.262	0.641	19
	Left side				167300	836.5	1	1	Full	-0.07	0.250	22.49	23.50	1.262	0.315	/
	Right side				167300	836.5	1	1	Full	0.12	0.284	22.49	23.50	1.262	0.358	/
	Top side				167300	836.5	1	1	Full	0.11	0.054	22.49	23.50	1.262	0.069	/
	Bottom side				167300	836.5	1	1	Full	0.08	0.258	22.49	23.50	1.262	0.326	/
	Front side	10mm	DFT-s-OFDM BPSK	15kHz	167300	836.5	64	32	Full	0.16	0.410	22.54	23.50	1.247	0.511	/
	Back side				167300	836.5	64	32	Full	-0.18	0.496	22.54	23.50	1.247	0.619	/
	Left side				167300	836.5	64	32	Full	-0.10	0.214	22.54	23.50	1.247	0.267	/
	Right side				167300	836.5	64	32	Full	-0.01	0.255	22.54	23.50	1.247	0.318	/
	Top side				167300	836.5	64	32	Full	0.09	0.071	22.54	23.50	1.247	0.089	/
	Bottom side				167300	836.5	64	32	Full	-0.13	0.243	22.54	23.50	1.247	0.303	/
Body-worn																
Ant.1 ENDC	Front side	5mm	DFT-s-OFDM BPSK	15kHz	167300	836.5	1	1	Full	-0.10	0.316	22.49	23.50	1.262	0.399	/
	Back side				167300	836.5	1	1	Full	-0.08	0.428	22.49	23.50	1.262	0.540	/
	Left side				167300	836.5	1	1	Full	0.14	0.175	22.49	23.50	1.262	0.221	/
	Right side				167300	836.5	1	1	Full	0.07	0.291	22.49	23.50	1.262	0.367	/
	Top side				167300	836.5	1	1	Full	-0.18	0.061	22.49	23.50	1.262	0.077	/
	Front side	5mm	DFT-s-OFDM BPSK	15kHz	167300	836.5	64	32	Full	-0.05	0.322	22.54	23.50	1.247	0.402	/
	Back side				167300	836.5	64	32	Full	0.05	0.506	22.54	23.50	1.247	0.631	20
	Left side				167300	836.5	64	32	Full	0.02	0.147	22.54	23.50	1.247	0.183	/
	Right side				167300	836.5	64	32	Full	-0.13	0.302	22.54	23.50	1.247	0.377	/
	Top side				167300	836.5	64	32	Full	-0.16	0.086	22.54	23.50	1.247	0.107	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

11.11 n66 (40MHz Bandwidth)

Antenna	Test Position	Dist.	Test Mode	SCS	Test Channel	Freq. (MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot																
Ant.1 ENDC	Front side	10mm	DFT-s-OFDM BPSK	15kHz	349000	1745	1	1	State 1	-0.17	0.267	18.74	19.50	1.191	0.318	/
	Back side				349000	1745	1	1	State 1	-0.01	0.402	18.74	19.50	1.191	0.479	/
	Left side				349000	1745	1	1	Full	-0.13	0.339	23.54	24.50	1.247	0.423	/
	Right side				349000	1745	1	1	State 1	0.10	0.014	18.74	19.50	1.191	0.017	/
	Top side				349000	1745	1	1	Full	-0.19	0.036	23.54	24.50	1.247	0.045	/
	Bottom side				349000	1745	1	1	State 1	-0.17	0.389	18.74	19.50	1.191	0.463	/
	Front side	10mm	DFT-s-OFDM BPSK	15kHz	349000	1745	108	0	State 1	0.06	0.257	18.74	19.50	1.191	0.306	/
	Back side				349000	1745	108	0	State 1	0.16	0.393	18.74	19.50	1.191	0.468	/
	Left side				349000	1745	108	54	Full	-0.18	0.269	23.59	24.50	1.233	0.332	/
	Right side				349000	1745	108	0	State 1	0.06	0.006	18.74	19.50	1.191	0.007	/
	Top side				349000	1745	108	54	Full	-0.18	0.029	23.59	24.50	1.233	0.035	/
	Bottom side				349000	1745	108	0	State 1	0.00	0.451	18.74	19.50	1.191	0.537	/
Ant.5 ENDC	Front side	10mm	DFT-s-OFDM BPSK	15kHz	349000	1745	1	1	State 1	0.00	0.175	15.84	16.50	1.164	0.204	/
	Back side				349000	1745	1	1	State 1	0.14	0.451	15.84	16.50	1.164	0.525	/
	Left side				349000	1745	1	1	State 1	-0.03	0.020	15.84	16.50	1.164	0.023	/
	Right side				349000	1745	1	1	Full	0.13	0.133	23.67	24.50	1.211	0.161	/
	Top side				349000	1745	1	1	State 1	0.11	0.506	15.84	16.50	1.164	0.589	/
	Bottom side				349000	1745	1	1	Full	0.00	0.035	23.67	24.50	1.211	0.042	/
	Front side	10mm	DFT-s-OFDM BPSK	15kHz	349000	1745	108	0	State 1	0.06	0.161	15.84	16.50	1.164	0.187	/
	Back side				349000	1745	108	0	State 1	0.12	0.485	15.84	16.50	1.164	0.565	/
	Left side				349000	1745	108	0	State 1	0.13	0.009	15.84	16.50	1.164	0.010	/
	Right side				349000	1745	108	54	Full	-0.14	0.116	23.79	24.50	1.178	0.137	/
	Top side				349000	1745	108	0	State 1	0.19	0.535	15.84	16.50	1.164	0.623	21
	Bottom side				349000	1745	108	54	Full	-0.03	0.028	23.79	24.50	1.178	0.033	/
Body-worn																
Ant.1 ENDC	Front side	5mm	DFT-s-OFDM BPSK	15kHz	349000	1745	1	1	State 2	0.16	0.345	16.72	17.50	1.197	0.413	/
	Back side				349000	1745	1	1	State 2	-0.05	0.570	16.72	17.50	1.197	0.682	/
	Left side				349000	1745	1	1	Full	0.04	0.521	23.54	24.50	1.247	0.650	/
	Right side				349000	1745	1	1	State 2	-0.14	0.003	16.72	17.50	1.197	0.004	/
	Top side				349000	1745	1	1	Full	-0.12	0.070	23.54	24.50	1.247	0.087	/
	Front side	5mm	DFT-s-OFDM BPSK	15kHz	349000	1745	108	0	State 2	0.18	0.335	16.53	17.50	1.250	0.419	/
	Back side				349000	1745	108	0	State 2	-0.06	0.546	16.53	17.50	1.250	0.683	/
	Left side				349000	1745	108	54	Full	0.14	0.505	23.59	24.50	1.233	0.623	/
	Right side				349000	1745	108	0	State 2	0.16	0.010	16.53	17.50	1.250	0.013	/
	Top side				349000	1745	108	54	Full	0.10	0.075	23.59	24.50	1.233	0.092	/

Ant.5 ENDC	Front side	5mm	DFT- s- OFDM BPSK	15kHz	349000	1745	1	1	State 2	-0.16	0.197	13.80	14.50	1.175	0.231	/
	Back side				349000	1745	1	1	State 2	-0.19	0.527	13.80	14.50	1.175	0.619	/
	Left side				349000	1745	1	1	State 2	-0.16	0.041	13.80	14.50	1.175	0.048	/
	Right side				349000	1745	1	1	Full	0.14	0.017	23.67	24.50	1.211	0.021	/
	Top side				349000	1745	1	1	State 2	0.18	0.678	13.80	14.50	1.175	0.797	22
	Front side	5mm	DFT- s- OFDM BPSK	15kHz	349000	1745	108	0	State 2	0.05	0.201	13.79	14.50	1.178	0.237	/
	Back side				349000	1745	108	0	State 2	-0.17	0.510	13.79	14.50	1.178	0.601	/
	Left side				349000	1745	108	0	State 2	0.09	0.038	13.79	14.50	1.178	0.045	/
	Right side				349000	1745	108	54	Full	0.13	0.130	23.79	24.50	1.178	0.153	/
	Top side				349000	1745	108	0	State 2	-0.18	0.574	13.79	14.50	1.178	0.676	/

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

Antenna	Test Position	Dist.	Test Mode	SCS	Test Channel	Freq. (MHz)	RB num.	RB Start	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1																
Ant.1 ENDC	Front Side	34mm	DFT- s- OFDM BPSK	15kHz	349000	1745	1	1	Full	-0.08	0.124	23.54	24.50	1.247	0.155	/
	Back side	34mm			349000	1745	1	1	Full	0.15	0.150	23.54	24.50	1.247	0.187	/
	Right side	25mm			349000	1745	1	1	Full	0.16	0.021	23.54	24.50	1.247	0.026	/
	Bottom side	49mm			349000	1745	1	1	Full	0.05	0.209	23.54	24.50	1.247	0.261	/
	Front Side	34mm	DFT- s- OFDM BPSK	15kHz	349000	1745	108	54	Full	-0.15	0.121	23.59	24.50	1.233	0.149	/
	Back side	34mm			349000	1745	108	54	Full	0.11	0.146	23.59	24.50	1.233	0.180	/
	Right side	25mm			349000	1745	108	54	Full	0.18	0.020	23.59	24.50	1.233	0.025	/
	Bottom side	49mm			349000	1745	108	54	Full	0.06	0.204	23.59	24.50	1.233	0.252	/
Ant.5 ENDC	Front side	34mm	DFT- s- OFDM BPSK	15kHz	349000	1745	1	1	Full	-0.1	0.137	23.67	24.50	1.211	0.166	/
	Back side	39mm			349000	1745	1	1	Full	-0.03	0.311	23.67	24.50	1.211	0.376	/
	Left side	26mm			349000	1745	1	1	Full	0.15	0.065	23.67	24.50	1.211	0.079	/
	Top side	54mm			349000	1745	1	1	Full	-0.04	0.248	23.67	24.50	1.211	0.300	/
	Front side	34mm	DFT- s- OFDM BPSK	15kHz	349000	1745	108	54	Full	0.15	0.134	23.79	24.50	1.178	0.158	/
	Back side	39mm			349000	1745	108	54	Full	-0.18	0.303	23.79	24.50	1.178	0.357	/
	Left side	26mm			349000	1745	108	54	Full	-0.08	0.063	23.79	24.50	1.178	0.074	/
	Top side	54mm			349000	1745	108	54	Full	-0.13	0.242	23.79	24.50	1.178	0.285	/

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

11.12 n77 (100MHz Bandwidth)

n77-3450-3650MHz

Antenna	Test Position	Dist.	P Max.	Test Mode	SCS	Test Channel	Freq. (MHz)	RB num.	RB Start	Power Reduction	Duty cycle	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune- up power (dBm)	Scaling Factor	1g SAR (W/kg)	Meas. No.
Hotspot																		
Ant.4 ENDC	Front side	10mm	PC2	DFT- s- OFDM BPSK	30kHz	636666	3549.99	1	1	State 1	57%	0.05	0.162	17.25	18.00	1.189	0.193	/
	Back side					636666	3549.99	1	1	State 1	57%	0.01	0.165	17.25	18.00	1.189	0.196	/
	Left side					636666	3549.99	1	1	State 1	57%	-0.19	0.549	17.25	18.00	1.189	0.652	23
	Right side					636666	3549.99	1	1	Full	57%	-0.04	0.026	26.05	27.00	1.245	0.032	/
	Top side					636666	3549.99	1	1	State 1	57%	0.06	0.104	17.25	18.00	1.189	0.124	/
	Bottom side					636666	3549.99	1	1	Full	57%	0.17	0.010	26.05	27.00	1.245	0.012	/
	Front side	10mm	PC2	DFT- s- OFDM BPSK	30kHz	636666	3549.99	135	69	State 1	57%	0.18	0.132	17.32	18.00	1.169	0.154	/
	Back side					636666	3549.99	135	69	State 1	57%	-0.04	0.140	17.32	18.00	1.169	0.164	/
	Left side					636666	3549.99	135	69	State 1	57%	0.06	0.427	17.32	18.00	1.169	0.499	/
	Right side					636666	3549.99	135	69	Full	57%	-0.03	0.024	25.99	27.00	1.262	0.030	/
	Top side					636666	3549.99	135	69	State 1	57%	0.10	0.098	17.32	18.00	1.169	0.115	/
	Bottom side					636666	3549.99	135	69	Full	57%	-0.16	0.010	25.99	27.00	1.262	0.013	/
Ant.4 ENDC	Front side	10mm	PC3	DFT- s- OFDM BPSK	30kHz	636666	3549.99	1	1	State 1	77%	0.07	0.147	16.39	17.00	1.151	0.169	/
	Back side					636666	3549.99	1	1	State 1	77%	-0.02	0.140	16.39	17.00	1.151	0.161	/
	Left side					636666	3549.99	1	1	State 1	77%	-0.04	0.432	16.39	17.00	1.151	0.497	/
	Right side					636666	3549.99	1	1	Full	77%	-0.18	0.031	23.03	24.00	1.250	0.039	/
	Top side					636666	3549.99	1	1	State 1	77%	0.01	0.114	16.39	17.00	1.151	0.131	/
	Bottom side					636666	3549.99	1	1	Full	77%	0.00	0.005	23.03	24.00	1.250	0.006	/
	Front side	10mm	PC3	DFT- s- OFDM BPSK	30kHz	636666	3549.99	135	69	State 1	77%	-0.18	0.027	16.34	17.00	1.164	0.031	/
	Back side					636666	3549.99	135	69	State 1	77%	0.10	0.026	16.34	17.00	1.164	0.030	/
	Left side					636666	3549.99	135	69	State 1	77%	0.04	0.086	16.34	17.00	1.164	0.100	/
	Right side					636666	3549.99	135	69	Full	77%	0.05	0.028	23.05	24.00	1.245	0.035	/
	Top side					636666	3549.99	135	69	State 1	77%	-0.01	0.113	16.34	17.00	1.164	0.132	/
	Bottom side					636666	3549.99	135	69	Full	77%	0.07	0.003	23.05	24.00	1.245	0.004	/
Ant.2 ENDC	Front side	10mm	PC2	DFT- s- OFDM BPSK	30kHz	636666	3549.99	1	1	Full	6.6%	-0.13	0.081	21.61	22.00	1.094	0.089	/
	Back side					636666	3549.99	1	1	Full	6.6%	-0.16	0.067	21.61	22.00	1.094	0.073	/
	Left side					636666	3549.99	1	1	Full	6.6%	0.12	0.113	21.61	22.00	1.094	0.124	/
	Right side					636666	3549.99	1	1	Full	6.6%	-0.01	0.035	21.61	22.00	1.094	0.038	/
	Top side					636666	3549.99	1	1	Full	6.6%	-0.18	0.033	21.61	22.00	1.094	0.036	/
	Bottom side					636666	3549.99	1	1	Full	6.6%	0.05	0.054	21.61	22.00	1.094	0.059	/
	Front side	10mm	PC2	DFT- s- OFDM BPSK	30kHz	636666	3549.99	135	69	Full	6.6%	-0.08	0.078	21.60	22.00	1.096	0.086	/
	Back side					636666	3549.99	135	69	Full	6.6%	0.07	0.056	21.60	22.00	1.096	0.061	/
	Left side					636666	3549.99	135	69	Full	6.6%	0.01	0.123	21.60	22.00	1.096	0.135	/
	Right side					636666	3549.99	135	69	Full	6.6%	-0.12	0.033	21.60	22.00	1.096	0.036	/

	Top side					636666	3549.99	135	69	Full	6.6%	0.05	0.027	21.60	22.00	1.096	0.030	/
	Bottom side					636666	3549.99	135	69	Full	6.6%	0.12	0.052	21.60	22.00	1.096	0.057	/
Ant.3 ENDC	Front side	10mm	PC2	DFT- s- OFDM BPSK	30kHz	636666	3549.99	1	1	Full	6.6%	-0.14	0.213	21.64	22.00	1.086	0.231	/
	Back side					636666	3549.99	1	1	Full	6.6%	-0.13	0.148	21.64	22.00	1.086	0.161	/
	Left side					636666	3549.99	1	1	Full	6.6%	-0.08	0.320	21.64	22.00	1.086	0.348	/
	Right side					636666	3549.99	1	1	Full	6.6%	0.07	0.080	21.64	22.00	1.086	0.087	/
	Top side					636666	3549.99	1	1	Full	6.6%	-0.03	0.051	21.64	22.00	1.086	0.055	/
	Bottom side					636666	3549.99	1	1	Full	6.6%	-0.11	0.067	21.64	22.00	1.086	0.073	/
	Front side	10mm	PC2	DFT- s- OFDM BPSK	30kHz	636666	3549.99	135	69	Full	6.6%	0.16	0.208	21.70	22.00	1.072	0.223	/
	Back side					636666	3549.99	135	69	Full	6.6%	-0.11	0.145	21.70	22.00	1.072	0.155	/
	Left side					636666	3549.99	135	69	Full	6.6%	0.17	0.320	21.70	22.00	1.072	0.343	/
	Right side					636666	3549.99	135	69	Full	6.6%	0.10	0.074	21.70	22.00	1.072	0.079	/
	Top side					636666	3549.99	135	69	Full	6.6%	0.10	0.045	21.70	22.00	1.072	0.048	/
	Bottom side					636666	3549.99	135	69	Full	6.6%	-0.12	0.066	21.70	22.00	1.072	0.071	/
Ant.7 ENDC	Front side	10mm	PC2	DFT- s- OFDM BPSK	30kHz	636666	3549.99	1	1	Full	6.6%	-0.15	0.066	18.77	20.00	1.327	0.088	/
	Back side					636666	3549.99	1	1	Full	6.6%	-0.04	0.100	18.77	20.00	1.327	0.133	/
	Left side					636666	3549.99	1	1	Full	6.6%	-0.14	0.033	18.77	20.00	1.327	0.044	/
	Right side					636666	3549.99	1	1	Full	6.6%	-0.13	0.253	18.77	20.00	1.327	0.336	/
	Top side					636666	3549.99	1	1	Full	6.6%	-0.06	0.026	18.77	20.00	1.327	0.035	/
	Bottom side					636666	3549.99	1	1	Full	6.6%	0.06	0.015	18.77	20.00	1.327	0.020	/
	Front side	10mm	PC2	DFT- s- OFDM BPSK	30kHz	636666	3549.99	135	138	Full	6.6%	-0.04	0.083	18.94	20.00	1.276	0.106	/
	Back side					636666	3549.99	135	138	Full	6.6%	0.18	0.150	18.94	20.00	1.276	0.191	/
	Left side					636666	3549.99	135	138	Full	6.6%	-0.10	0.031	18.94	20.00	1.276	0.040	/
	Right side					636666	3549.99	135	138	Full	6.6%	-0.04	0.392	18.94	20.00	1.276	0.500	/
	Top side					636666	3549.99	135	138	Full	6.6%	0.00	0.023	18.94	20.00	1.276	0.029	/
	Bottom side					636666	3549.99	135	138	Full	6.6%	0.18	0.014	18.94	20.00	1.276	0.018	/
Body-worn																		
Ant.4 ENDC	Front side	5mm	PC2	DFT- s- OFDM BPSK	30kHz	636666	3549.99	1	1	State 2	57%	0.11	0.082	12.48	13.50	1.265	0.104	/
	Back side					636666	3549.99	1	1	State 2	57%	-0.15	0.109	12.48	13.50	1.265	0.138	/
	Left side					636666	3549.99	1	1	State 2	57%	-0.04	0.417	12.48	13.50	1.265	0.527	/
	Right side					636666	3549.99	1	1	Full	57%	-0.08	0.043	26.05	27.00	1.245	0.054	/
	Top side					636666	3549.99	1	1	State 2	57%	-0.18	0.248	12.48	13.50	1.265	0.314	/
	Front side	5mm	PC2	DFT- s- OFDM BPSK	30kHz	636666	3549.99	135	69	State 2	57%	0.04	0.069	12.50	13.50	1.259	0.087	/
	Back side					636666	3549.99	135	69	State 2	57%	0.13	0.110	12.50	13.50	1.259	0.138	/
	Left side					636666	3549.99	135	69	State 2	57%	-0.07	0.403	12.50	13.50	1.259	0.507	/
	Right side					636666	3549.99	135	69	Full	57%	0.13	0.040	25.99	27.00	1.262	0.050	/
	Top side					636666	3549.99	135	69	State 2	57%	-0.14	0.248	12.50	13.50	1.259	0.312	/
Ant.4 ENDC	Front side	5mm	PC3	DFT- s- OFDM BPSK	30kHz	636666	3549.99	1	1	State 2	77%	-0.09	0.117	11.40	12.00	1.148	0.134	/
	Back side					636666	3549.99	1	1	State 2	77%	0.00	0.132	11.40	12.00	1.148	0.152	/
	Left side					636666	3549.99	1	1	State 2	77%	-0.06	0.479	11.40	12.00	1.148	0.550	/
	Right side					636666	3549.99	1	1	Full	77%	0.16	0.033	23.03	24.00	1.250	0.041	/
	Top side					636666	3549.99	1	1	State 2	77%	0.06	0.192	11.40	12.00	1.148	0.220	/
	Front side	5mm	PC3		30kHz	636666	3549.99	135	69	State 2	77%	-0.10	0.110	11.36	12.00	1.159	0.127	/

	Back side			DFT-s-OFDM		636666	3549.99	135	69	State 2	77%	0.15	0.119	11.36	12.00	1.159	0.138	/
	Left side					636666	3549.99	135	69	State 2	77%	0.17	0.465	11.36	12.00	1.159	0.539	/
	Right side					636666	3549.99	135	69	Full	77%	-0.05	0.037	23.05	24.00	1.245	0.046	/
	Top side					636666	3549.99	135	69	State 2	77%	-0.02	0.186	11.36	12.00	1.159	0.216	/
Ant.2 ENDC	Front side	5mm	PC2	DFT-s-OFDM	30kHz	636666	3549.99	1	1	Full	6.6%	0.04	0.363	21.61	22.00	1.094	0.397	/
	Back side					636666	3549.99	1	1	Full	6.6%	0.16	0.291	21.61	22.00	1.094	0.318	/
	Left side					636666	3549.99	1	1	Full	6.6%	0.16	0.701	21.61	22.00	1.094	0.767	/
	Right side					636666	3549.99	1	1	Full	6.6%	0.11	0.083	21.61	22.00	1.094	0.091	/
	Top side					636666	3549.99	1	1	Full	6.6%	0.04	0.048	21.61	22.00	1.094	0.053	/
	Left side					633334	3500.01	1	1	Full	6.6%	0.10	0.769	21.57	22.00	1.104	0.849	24
	Left side					640000	3600	1	1	Full	6.6%	-0.05	0.655	21.60	22.00	1.096	0.718	/
	Front side					636666	3549.99	135	69	Full	6.6%	0.15	0.334	21.60	22.00	1.096	0.366	/
	Back side	5mm	PC2	DFT-s-OFDM	30kHz	636666	3549.99	135	69	Full	6.6%	-0.16	0.289	21.60	22.00	1.096	0.317	/
	Left side					636666	3549.99	135	69	Full	6.6%	0.04	0.698	21.60	22.00	1.096	0.765	/
	Right side					636666	3549.99	135	69	Full	6.6%	-0.07	0.084	21.60	22.00	1.096	0.092	/
	Top side					636666	3549.99	135	69	Full	6.6%	-0.16	0.044	21.60	22.00	1.096	0.048	/
	Left side					633334	3500.01	135	69	Full	6.6%	0.06	0.688	21.52	22.00	1.117	0.768	/
	Left side					640000	3600	135	69	Full	6.6%	-0.13	0.647	21.56	22.00	1.107	0.716	/
	Left side					636666	3549.99	270	0	Full	6.6%	-0.15	0.621	21.07	22.00	1.239	0.769	/
	Front side					636666	3549.99	1	1	Full	6.6%	0.05	0.188	21.64	22.00	1.086	0.204	/
Ant.3 ENDC	Back side	5mm	PC2	DFT-s-OFDM	30kHz	636666	3549.99	1	1	Full	6.6%	-0.02	0.118	21.64	22.00	1.086	0.128	/
	Left side					636666	3549.99	1	1	Full	6.6%	0.15	0.267	21.64	22.00	1.086	0.290	/
	Right side					636666	3549.99	1	1	Full	6.6%	-0.08	0.039	21.64	22.00	1.086	0.042	/
	Top side					636666	3549.99	1	1	Full	6.6%	-0.12	0.076	21.64	22.00	1.086	0.083	/
	Front side					636666	3549.99	135	69	Full	6.6%	0.13	0.172	21.70	22.00	1.072	0.184	/
	Back side	5mm	PC2	DFT-s-OFDM	30kHz	636666	3549.99	135	69	Full	6.6%	0.07	0.110	21.70	22.00	1.072	0.118	/
	Left side					636666	3549.99	135	69	Full	6.6%	-0.17	0.253	21.70	22.00	1.072	0.271	/
	Right side					636666	3549.99	135	69	Full	6.6%	0.00	0.040	21.70	22.00	1.072	0.043	/
	Top side					636666	3549.99	135	69	Full	6.6%	-0.02	0.066	21.70	22.00	1.072	0.071	/
	Front side					636666	3549.99	1	1	Full	6.6%	0.02	0.095	18.77	20.00	1.327	0.126	/
Ant.7 ENDC	Back side	5mm	PC2	DFT-s-OFDM	30kHz	636666	3549.99	1	1	Full	6.6%	-0.17	0.223	18.77	20.00	1.327	0.296	/
	Left side					636666	3549.99	1	1	Full	6.6%	0.00	0.054	18.77	20.00	1.327	0.072	/
	Right side					636666	3549.99	1	1	Full	6.6%	-0.08	0.497	18.77	20.00	1.327	0.660	/
	Top side					636666	3549.99	1	1	Full	6.6%	0.05	0.007	18.77	20.00	1.327	0.009	/
	Right side					633334	3500.01	1	1	Full	6.6%	-0.04	0.366	18.77	20.00	1.327	0.486	/
	Right side					640000	3600	1	1	Full	6.6%	0.03	0.518	18.77	20.00	1.327	0.688	/
	Front side					636666	3549.99	135	138	Full	6.6%	-0.17	0.091	18.94	20.00	1.276	0.116	/
	Back side	5mm	PC2	DFT-s-OFDM	30kHz	636666	3549.99	135	138	Full	6.6%	-0.17	0.217	18.94	20.00	1.276	0.277	/
	Left side					636666	3549.99	135	138	Full	6.6%	-0.06	0.052	18.94	20.00	1.276	0.066	/
	Right side					636666	3549.99	135	138	Full	6.6%	0.13	0.491	18.94	20.00	1.276	0.627	/
	Top side					636666	3549.99	135	138	Full	6.6%	0.17	0.006	18.94	20.00	1.276	0.008	/
	Right side					633334	3500.01	135	138	Full	6.6%	-0.01	0.353	18.94	20.00	1.276	0.451	/
	Right side					640000	3600	135	138	Full	6.6%	0.15	0.494	18.94	20.00	1.276	0.631	/

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

Antenna	Test Position	Dist.	P Max.	Test Mode	SCS	Test Channel	Freq. (MHz)	RB num.	RB Start	Power Reduction	Duty cycle	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1																		
Ant.4 ENDC	Front side	34mm	PC 2	DFT-s-OFDM	30kHz	636666	3549.99	1	1	Full	57%	0.07	0.192	26.05	27.00	1.245	0.239	/
	Back side	39mm		636666		3549.99	1	1	Full	57%	0.14	0.184	26.05	27.00	1.245	0.229	/	
	Left side	26mm		636666		3549.99	1	1	Full	57%	0.06	0.473	26.05	27.00	1.245	0.589	/	
	Top side	54mm		636666		3549.99	1	1	Full	57%	-0.13	0.085	26.05	27.00	1.245	0.106	/	
	Front side	34mm	PC2	DFT-s-OFDM	30kHz	636666	3549.99	135	69	Full	57%	0.17	0.215	25.99	27.00	1.262	0.271	/
	Back side	39mm		636666		3549.99	135	69	Full	57%	0.17	0.222	25.99	27.00	1.262	0.280	/	
	Left side	26mm		636666		3549.99	135	69	Full	57%	-0.19	0.522	25.99	27.00	1.262	0.659	/	
	Top side	54mm		636666		3549.99	135	69	Full	57%	-0.02	0.104	25.99	27.00	1.262	0.131	/	
Ant.4 ENDC	Front side	34mm	PC 3	DFT-s-OFDM	30kHz	636666	3549.99	1	1	Full	77%	0.11	0.131	23.03	24.00	1.250	0.164	/
	Back side	39mm		636666		3549.99	1	1	Full	77%	0.15	0.142	23.03	24.00	1.250	0.178	/	
	Left side	26mm		636666		3549.99	1	1	Full	77%	0.01	0.332	23.03	24.00	1.250	0.415	/	
	Top side	54mm		636666		3549.99	1	1	Full	77%	0.13	0.051	23.03	24.00	1.250	0.064	/	
	Front side	34mm	PC3	DFT-s-OFDM	30kHz	636666	3549.99	135	69	Full	77%	0.12	0.147	23.05	24.00	1.245	0.183	/
	Back side	39mm		636666		3549.99	135	69	Full	77%	0.05	0.152	23.05	24.00	1.245	0.189	/	
	Left side	26mm		636666		3549.99	135	69	Full	77%	-0.01	0.356	23.05	24.00	1.245	0.443	/	
	Top side	54mm		636666		3549.99	135	69	Full	77%	-0.13	0.069	23.05	24.00	1.245	0.086	/	
Note: Refer to ANNEX C for the detailed test data for each test configuration.																		

n77-3700-3980MHz

Antenna	Test Position	Dist.	P Max.	Test Mode	SCS	Test Channel	Freq. (MHz)	RB num.	RB Start	Power Reduction	Duty cycle	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune- up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot																		
Ant.4 ENDC	Front side	10mm	PC 2	DFT-s- OFDM BPSK	30kHz	656000	3840	1	1	State 1	57%	-0.08	0.185	17.28	18.00	1.180	0.218	/
	Back side					656000	3840	1	1	State 1	57%	0.17	0.248	17.28	18.00	1.180	0.292	/
	Left side					656000	3840	1	1	State 1	57%	0.03	0.647	17.28	18.00	1.180	0.764	/
	Right side					656000	3840	1	1	Full	57%	-0.09	0.053	25.98	27.00	1.265	0.067	/
	Top side					656000	3840	1	1	State 1	57%	0.11	0.371	17.28	18.00	1.180	0.438	/
	Bottom side					656000	3840	1	1	Full	57%	0.15	0.014	25.98	27.00	1.265	0.018	/
	Front side	10mm	PC 2	DFT-s- OFDM BPSK	30kHz	656000	3840	135	69	State 1	57%	0.06	0.175	17.38	18.00	1.153	0.202	/
	Back side					656000	3840	135	69	State 1	57%	0.04	0.228	17.38	18.00	1.153	0.263	/
	Left side					656000	3840	135	69	State 1	57%	0.16	0.627	17.38	18.00	1.153	0.723	/
	Right side					656000	3840	135	69	Full	57%	0.19	0.043	25.90	27.00	1.288	0.055	/
	Top side					656000	3840	135	69	State 1	57%	-0.15	0.351	17.38	18.00	1.153	0.405	/
	Bottom side					656000	3840	135	69	Full	57%	0.16	0.004	25.90	27.00	1.288	0.005	/
Ant.4 ENDC	Front side	10mm	PC 3	DFT-s- OFDM BPSK	30kHz	656000	3840	1	1	State 1	77%	-0.08	0.187	16.27	17.00	1.183	0.221	/
	Back side					656000	3840	1	1	State 1	77%	0.14	0.247	16.27	17.00	1.183	0.292	/
	Left side					656000	3840	1	1	State 1	77%	-0.02	0.777	16.27	17.00	1.183	0.919	25
	Right side					656000	3840	1	1	Full	77%	0.02	0.019	23.04	24.00	1.247	0.024	/
	Top side					656000	3840	1	1	State 1	77%	-0.17	0.396	16.27	17.00	1.183	0.468	/
	Bottom side					656000	3840	1	1	Full	77%	0.11	0.027	23.04	24.00	1.247	0.034	/
	Left side	10mm	PC 3	DFT-s- OFDM BPSK	30kHz	650000	3750	1	1	State 1	77%	0.05	0.716	16.19	17.00	1.205	0.863	/
	Left side					662000	3930	1	1	State 1	77%	-0.11	0.745	16.13	17.00	1.222	0.910	/
	Front side					656000	3840	135	138	State 1	77%	-0.14	0.162	16.35	17.00	1.161	0.188	/
	Back side					656000	3840	135	138	State 1	77%	0.19	0.231	16.35	17.00	1.161	0.268	/
	Left side					656000	3840	135	138	State 1	77%	-0.18	0.765	16.35	17.00	1.161	0.889	/
	Right side					656000	3840	135	138	Full	77%	0.02	0.014	23.16	24.00	1.213	0.017	/
	Top side					656000	3840	135	138	State 1	77%	-0.12	0.386	16.35	17.00	1.161	0.448	/
	Bottom side					656000	3840	135	138	Full	77%	-0.17	0.007	23.16	24.00	1.213	0.008	/
	Left side					650000	3750	135	138	State 1	77%	0.18	0.718	16.28	17.00	1.180	0.847	/
	Left side					662000	3930	135	138	State 1	77%	-0.13	0.761	16.33	17.00	1.167	0.888	/
	Left side					656000	3840	270	0	State 1	77%	0.07	0.688	16.29	17.00	1.178	0.810	/
Ant.2 ENDC	Front side	10mm	PC 2	DFT-s- OFDM BPSK	30kHz	656000	3840	1	1	Full	6.6%	-0.08	0.085	21.91	22.00	1.021	0.087	/
	Back side					656000	3840	1	1	Full	6.6%	-0.12	0.090	21.91	22.00	1.021	0.092	/
	Left side					656000	3840	1	1	Full	6.6%	0.07	0.151	21.91	22.00	1.021	0.154	/
	Right side					656000	3840	1	1	Full	6.6%	0.05	0.093	21.91	22.00	1.021	0.095	/
	Top side					656000	3840	1	1	Full	6.6%	-0.07	0.026	21.91	22.00	1.021	0.027	/
	Bottom side					656000	3840	1	1	Full	6.6%	0.15	0.006	21.91	22.00	1.021	0.006	/
	Front side	10mm	PC 2		30kHz	656000	3840	135	69	Full	6.6%	0.05	0.081	21.90	22.00	1.023	0.083	/

	Back side			DFT-s-OFDM	BPSK		656000	3840	135	69	Full	6.6%	-0.11	0.080	21.90	22.00	1.023	0.082	/
	Left side						656000	3840	135	69	Full	6.6%	0.12	0.144	21.90	22.00	1.023	0.147	/
	Right side						656000	3840	135	69	Full	6.6%	0.13	0.092	21.90	22.00	1.023	0.094	/
	Top side						656000	3840	135	69	Full	6.6%	-0.01	0.021	21.90	22.00	1.023	0.021	/
	Bottom side						656000	3840	135	69	Full	6.6%	0.09	0.005	21.90	22.00	1.023	0.005	/
	Ant.3 ENDC						Front side	10mm	PC 2	DFT-s-OFDM	BPSK	30kHz	656000	3840	1	1	Full	6.6%	-0.14
Back side		656000	3840	1	1	Full	6.6%						0.13	0.052	21.66	22.00	1.081	0.056	/
Left side		656000	3840	1	1	Full	6.6%						0.04	0.107	21.66	22.00	1.081	0.116	/
Right side		656000	3840	1	1	Full	6.6%						-0.18	0.093	21.66	22.00	1.081	0.101	/
Top side		656000	3840	1	1	Full	6.6%						0.03	0.061	21.66	22.00	1.081	0.066	/
Bottom side		656000	3840	1	1	Full	6.6%						-0.06	0.006	21.66	22.00	1.081	0.006	/
Front side		10mm	PC 2	DFT-s-OFDM	BPSK	30kHz	656000	3840	135	69	Full	6.6%	0.06	0.081	21.80	22.00	1.047	0.085	/
Back side							656000	3840	135	69	Full	6.6%	0.1	0.054	21.80	22.00	1.047	0.057	/
Left side							656000	3840	135	69	Full	6.6%	-0.07	0.102	21.80	22.00	1.047	0.107	/
Right side							656000	3840	135	69	Full	6.6%	0.12	0.094	21.80	22.00	1.047	0.098	/
Top side							656000	3840	135	69	Full	6.6%	-0.1	0.058	21.80	22.00	1.047	0.061	/
Bottom side							656000	3840	135	69	Full	6.6%	-0.19	0.005	21.80	22.00	1.047	0.005	/
Ant.7 ENDC	Front side	10mm	PC 2	DFT-s-OFDM	BPSK	30kHz	656000	3840	1	1	Full	6.6%	-0.19	0.074	19.58	20.00	1.102	0.082	/
	Back side						656000	3840	1	1	Full	6.6%	0.09	0.125	19.58	20.00	1.102	0.138	/
	Left side						656000	3840	1	1	Full	6.6%	-0.16	0.078	19.58	20.00	1.102	0.086	/
	Right side						656000	3840	1	1	Full	6.6%	-0.18	0.340	19.58	20.00	1.102	0.375	/
	Top side						656000	3840	1	1	Full	6.6%	-0.03	0.036	19.58	20.00	1.102	0.040	/
	Bottom side						656000	3840	1	1	Full	6.6%	-0.14	0.027	19.58	20.00	1.102	0.030	/
	Front side	10mm	PC 2	DFT-s-OFDM	BPSK	30kHz	656000	3840	135	138	Full	6.6%	0.04	0.104	19.63	20.00	1.089	0.113	/
	Back side						656000	3840	135	138	Full	6.6%	-0.09	0.179	19.63	20.00	1.089	0.195	/
	Left side						656000	3840	135	138	Full	6.6%	0.17	0.053	19.63	20.00	1.089	0.058	/
	Right side						656000	3840	135	138	Full	6.6%	-0.02	0.515	19.63	20.00	1.089	0.561	/
	Top side						656000	3840	135	138	Full	6.6%	0.04	0.030	19.63	20.00	1.089	0.033	/
	Bottom side						656000	3840	135	138	Full	6.6%	0.15	0.007	19.63	20.00	1.089	0.008	/
Body-worn																			
Ant.4 ENDC	Front side	5mm	PC 2	DFT-s-OFDM	BPSK	30kHz	656000	3840	1	1	State 2	57%	0.06	0.130	12.34	13.50	1.306	0.170	/
	Back side						656000	3840	1	1	State 2	57%	0.01	0.183	12.34	13.50	1.306	0.239	/
	Left side						656000	3840	1	1	State 2	57%	0.17	0.488	12.34	13.50	1.306	0.637	/
	Right side						656000	3840	1	1	Full	57%	0.11	0.042	25.98	27.00	1.265	0.053	/
	Top side						656000	3840	1	1	State 2	57%	0.12	0.263	12.34	13.50	1.306	0.344	/
	Left side						650000	3750	1	1	State 2	57%	0.06	0.200	12.20	13.50	1.349	0.270	/
	Left side						662000	3930	1	1	State 2	57%	0.18	0.340	12.22	13.50	1.343	0.457	/
	Front side	5mm	PC 2	DFT-s-OFDM	BPSK	30kHz	656000	3840	135	69	State 2	57%	0.03	0.115	12.38	13.50	1.294	0.149	/
	Back side						656000	3840	135	69	State 2	57%	0.03	0.152	12.38	13.50	1.294	0.197	/
	Left side						656000	3840	135	69	State 2	57%	0.16	0.475	12.38	13.50	1.294	0.615	/
	Right side						656000	3840	135	69	Full	57%	0.11	0.041	25.90	27.00	1.288	0.053	/
	Top side						656000	3840	135	69	State 2	57%	0.07	0.264	12.38	13.50	1.294	0.342	/
Left side	650000	3750	135	69	State 2	57%	0.13	0.189	12.35	13.50	1.303	0.246	/						

	Left side					662000	3930	135	69	State 2	57%	-0.07	0.311	12.27	13.50	1.327	0.413	/
Ant.4 ENDC	Front side	5mm	PC 3	DFT-s-OFDM BPSK	30kHz	656000	3840	1	1	State 2	77%	-0.17	0.142	11.24	12.00	1.191	0.169	/
	Back side					656000	3840	1	1	State 2	77%	-0.17	0.188	11.24	12.00	1.191	0.224	/
	Left side					656000	3840	1	1	State 2	77%	0.06	0.528	11.24	12.00	1.191	0.629	/
	Right side					656000	3840	1	1	Full	77%	-0.15	0.039	23.04	24.00	1.247	0.049	/
	Top side					656000	3840	1	1	State 2	77%	-0.02	0.226	11.24	12.00	1.191	0.269	/
	Left side					650000	3750	1	1	State 2	77%	0.16	0.167	11.19	12.00	1.205	0.201	/
	Left side					662000	3930	1	1	State 2	77%	-0.08	0.379	11.17	12.00	1.211	0.459	/
	Front side	5mm	PC 3	DFT-s-OFDM BPSK	30kHz	656000	3840	135	138	State 2	77%	0.08	0.142	11.28	12.00	1.180	0.168	/
	Back side					656000	3840	135	138	State 2	77%	0.06	0.188	11.28	12.00	1.180	0.222	/
	Left side					656000	3840	135	138	State 2	77%	-0.04	0.538	11.28	12.00	1.180	0.635	/
	Right side					656000	3840	135	138	Full	77%	0.01	0.039	23.16	24.00	1.213	0.047	/
	Top side					656000	3840	135	138	State 2	77%	0.04	0.230	11.28	12.00	1.180	0.271	/
	Left side					650000	3750	135	138	State 2	77%	-0.19	0.167	11.21	12.00	1.199	0.200	/
	Left side					662000	3930	135	138	State 2	77%	0.14	0.379	11.23	12.00	1.194	0.453	/
Ant.2 ENDC	Front side	5mm	PC 2	DFT-s-OFDM BPSK	30kHz	656000	3840	1	1	Full	6.6%	0.01	0.198	21.91	22.00	1.021	0.202	/
	Back side					656000	3840	1	1	Full	6.6%	0.01	0.176	21.91	22.00	1.021	0.180	/
	Left side					656000	3840	1	1	Full	6.6%	-0.07	0.396	21.91	22.00	1.021	0.404	/
	Right side					656000	3840	1	1	Full	6.6%	-0.04	0.051	21.91	22.00	1.021	0.052	/
	Top side					656000	3840	1	1	Full	6.6%	-0.05	0.043	21.91	22.00	1.021	0.044	/
	Front side	5mm	PC 2	DFT-s-OFDM BPSK	30kHz	656000	3840	135	69	Full	6.6%	0.09	0.182	21.90	22.00	1.023	0.186	/
	Back side					656000	3840	135	69	Full	6.6%	0.02	0.170	21.90	22.00	1.023	0.174	/
	Left side					656000	3840	135	69	Full	6.6%	-0.18	0.388	21.90	22.00	1.023	0.397	/
	Right side					656000	3840	135	69	Full	6.6%	-0.14	0.048	21.90	22.00	1.023	0.049	/
	Top side					656000	3840	135	69	Full	6.6%	-0.05	0.040	21.90	22.00	1.023	0.041	/
Ant.3 ENDC	Front side	5mm	PC 2	DFT-s-OFDM BPSK	30kHz	656000	3840	1	1	Full	6.6%	0.03	0.136	21.66	22.00	1.081	0.147	/
	Back side					656000	3840	1	1	Full	6.6%	-0.11	0.097	21.66	22.00	1.081	0.105	/
	Left side					656000	3840	1	1	Full	6.6%	0.06	0.218	21.66	22.00	1.081	0.236	/
	Right side					656000	3840	1	1	Full	6.6%	0.1	0.055	21.66	22.00	1.081	0.059	/
	Top side					656000	3840	1	1	Full	6.6%	0.11	0.076	21.66	22.00	1.081	0.082	/
	Front side	5mm	PC 2	DFT-s-OFDM BPSK	30kHz	656000	3840	135	69	Full	6.6%	0.13	0.114	21.80	22.00	1.047	0.119	/
	Back side					656000	3840	135	69	Full	6.6%	0.16	0.084	21.80	22.00	1.047	0.088	/
	Left side					656000	3840	135	69	Full	6.6%	-0.06	0.211	21.80	22.00	1.047	0.221	/
	Right side					656000	3840	135	69	Full	6.6%	-0.14	0.004	21.80	22.00	1.047	0.004	/
	Top side					656000	3840	135	69	Full	6.6%	0.12	0.072	21.80	22.00	1.047	0.075	/
Ant.7 ENDC	Front side	5mm	PC 2	DFT-s-OFDM BPSK	30kHz	656000	3840	1	1	Full	6.6%	-0.18	0.107	19.58	20.00	1.102	0.118	/
	Back side					656000	3840	1	1	Full	6.6%	-0.01	0.209	19.58	20.00	1.102	0.230	/
	Left side					656000	3840	1	1	Full	6.6%	-0.07	0.037	19.58	20.00	1.102	0.041	/
	Right side					656000	3840	1	1	Full	6.6%	-0.01	0.555	19.58	20.00	1.102	0.611	/
	Top side					656000	3840	1	1	Full	6.6%	0.12	0.040	19.58	20.00	1.102	0.044	/
	Right side					650000	3750	1	1	Full	6.6%	0.09	0.344	19.37	20.00	1.156	0.398	/
	Right side					662000	3930	1	1	Full	6.6%	-0.14	0.574	19.46	20.00	1.132	0.650	26
	Front side	5mm	PC 2		30kHz	656000	3840	135	138	Full	6.6%	-0.01	0.112	19.63	20.00	1.089	0.122	/

	Back side			DFT-s-OFDM BPSK		656000	3840	135	138	Full	6.6%	-0.14	0.216	19.63	20.00	1.089	0.235	/
	Left side					656000	3840	135	138	Full	6.6%	0.19	0.027	19.63	20.00	1.089	0.029	/
	Right side					656000	3840	135	138	Full	6.6%	-0.04	0.553	19.63	20.00	1.089	0.602	/
	Top side					656000	3840	135	138	Full	6.6%	-0.12	0.037	19.63	20.00	1.089	0.040	/
	Right side					650000	3750	135	138	Full	6.6%	-0.03	0.335	19.43	20.00	1.140	0.382	/
	Right side					662000	3930	135	138	Full	6.6%	0.12	0.556	19.56	20.00	1.107	0.615	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																		

Antenna	Test Position	Dist.	P Max.	Test Mode	SCS	Test Channel	Freq. (MHz)	RB num.	RB Start	Power Reduction	Duty cycle	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1																		
Ant.4 ENDC	Front side	34mm	PC 2	DFT-s-OFDM BPSK	30kHz	656000	3840	1	1	Full	57%	-0.10	0.302	25.98	27.00	1.265	0.382	/
	Back side	39mm				656000	3840	1	1	Full	57%	-0.14	0.252	25.98	27.00	1.265	0.319	/
	Left side	26mm				656000	3840	1	1	Full	57%	0.11	0.642	25.98	27.00	1.265	0.812	/
	Top side	54mm				656000	3840	1	1	Full	57%	-0.06	0.150	25.98	27.00	1.265	0.190	/
	Left side	26mm				650000	3750	1	1	Full	57%	-0.08	0.222	25.98	27.00	1.265	0.281	/
	Left side	26mm				662000	3930	1	1	Full	57%	-0.04	0.940	25.98	27.00	1.265	1.189	/
	Front side	34mm	PC2	DFT-s-OFDM BPSK	30kHz	656000	3840	135	69	Full	57%	0.10	0.368	25.90	27.00	1.288	0.474	/
	Back side	39mm				656000	3840	135	69	Full	57%	-0.12	0.261	25.90	27.00	1.288	0.336	/
	Left side	26mm				656000	3840	135	69	Full	57%	-0.13	0.895	25.90	27.00	1.288	1.153	/
	Top side	54mm				656000	3840	135	69	Full	57%	0.04	0.162	25.90	27.00	1.288	0.209	/
	Left side	26mm				650000	3750	135	69	Full	57%	-0.18	0.251	25.90	27.00	1.288	0.323	/
	Left side	26mm				662000	3930	135	69	Full	57%	-0.11	0.950	25.90	27.00	1.288	1.224	/
	Left side	26mm				662000	3930	270	0	Full	57%	0.15	0.934	25.90	27.00	1.288	1.203	/
	Ant.4 ENDC	Front side	34mm	PC 3	DFT-s-OFDM BPSK	30kHz	656000	3840	1	1	Full	77%	-0.08	0.213	23.04	24.00	1.247	0.266
Back side		39mm	656000				3840	1	1	Full	77%	0.11	0.185	23.04	24.00	1.247	0.231	/
Left side		26mm	656000				3840	1	1	Full	77%	0.06	0.535	23.04	24.00	1.247	0.667	/
Top side		54mm	656000				3840	1	1	Full	77%	-0.05	0.120	23.04	24.00	1.247	0.150	/
Front side		34mm	PC3	DFT-s-OFDM BPSK	30kHz	656000	3840	135	138	Full	77%	-0.15	0.266	23.16	24.00	1.213	0.323	/
Back side		39mm				656000	3840	135	138	Full	77%	-0.13	0.171	23.16	24.00	1.213	0.207	/
Left side		26mm				656000	3840	135	138	Full	77%	-0.02	0.625	23.16	24.00	1.213	0.758	/
Top side		54mm				656000	3840	135	138	Full	77%	0.12	0.118	23.16	24.00	1.213	0.143	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																		

11.13 WIFI 2.4GHz

Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot															
Ant.6	Front side	10mm	802.11b	6	2437	State 1	-0.10	0.234	17.29	18.00	1.178	100.00	1.000	0.276	/
	Back side			6	2437	State 1	0.09	0.240	17.29	18.00	1.178	100.00	1.000	0.283	/
	Left side			6	2437	Full	-0.09	0.027	18.35	19.50	1.303	100.00	1.000	0.035	/
	Right side			6	2437	State 1	0.03	0.226	17.29	18.00	1.178	100.00	1.000	0.266	/
	Top side			6	2437	State 1	0.02	0.246	17.29	18.00	1.178	100.00	1.000	0.290	27
	Bottom side			6	2437	Full	-0.02	0.026	18.35	19.50	1.303	100.00	1.000	0.034	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1															
Ant.6	Front side	14mm	802.11b	1	2412	18.5	0.11	0.211	18.35	19.50	1.303	100.00	1.000	0.275	/
	Back side	19mm		1	2412	18.5	0.00	0.176	18.35	19.50	1.303	100.00	1.000	0.229	/
	Right side	15mm		1	2412	18.5	0.02	0.236	18.35	19.50	1.303	100.00	1.000	0.308	/
	Top side	22mm		1	2412	18.5	-0.16	0.088	18.35	19.50	1.303	100.00	1.000	0.115	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.14 WIFI 5GHz

WIFI 5.2GHz

Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot															
Ant.6	Front side	10mm	802.11a	44	5220	State 1	0.04	0.112	14.09	15.00	1.233	97.55	1.025	0.142	/
	Back side			44	5220	State 1	0.17	0.236	14.09	15.00	1.233	97.55	1.025	0.298	/
	Left side			44	5220	Full	-0.09	0.059	18.13	19.00	1.222	97.55	1.025	0.074	/
	Right side			44	5220	State 1	-0.02	0.087	14.09	15.00	1.233	97.55	1.025	0.110	/
	Top side			44	5220	State 1	0.17	0.397	14.09	15.00	1.233	97.55	1.025	0.502	28
	Bottom side			44	5220	Full	-0.02	0.020	18.13	19.00	1.222	97.55	1.025	0.025	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1															
Ant.6	Front side	14mm	802.11a	44	5220	18.5	-0.17	0.318	18.13	19.00	1.222	97.55	1.025	0.398	/
	Back side	19mm		44	5220	18.5	0.13	0.391	18.13	19.00	1.222	97.55	1.025	0.490	/
	Right side	15mm		44	5220	18.5	0.12	0.168	18.13	19.00	1.222	97.55	1.025	0.210	/
	Top side	22mm		44	5220	18.5	0.05	0.328	18.13	19.00	1.222	97.55	1.025	0.411	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

WIFI 5.8GHz

Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot															
Ant.6	Front side	10mm	802.11n 40	151	5755	State 1	-0.03	0.232	14.96	16.00	1.272	90.82	1.101	0.325	/
	Back side			151	5755	State 1	0.05	0.231	14.96	16.00	1.272	90.82	1.101	0.323	/
	Left side			151	5755	Full	-0.15	0.065	19.04	20.00	1.249	90.82	1.101	0.089	/
	Right side			151	5755	State 1	-0.03	0.118	14.96	16.00	1.272	90.82	1.101	0.165	/
	Top side			151	5755	State 1	0.19	0.361	14.96	16.00	1.272	90.82	1.101	0.506	29
	Bottom side			151	5755	Full	-0.08	0.048	19.04	20.00	1.249	90.82	1.101	0.066	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Test Position	Dist.	Test Mode	Test Channe	Freq. (MHz)	Power Reduction	Power Drift (dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
n-1															
Ant.6	Front side	14mm	802.11n 40	151	5755	18.5	-0.11	0.509	19.04	20.00	1.249	90.82	1.101	0.700	/
	Back side	19mm		151	5755	18.5	-0.15	0.322	19.04	20.00	1.249	90.82	1.101	0.443	/
	Right side	15mm		151	5755	18.5	0.16	0.180	19.04	20.00	1.249	90.82	1.101	0.247	/
	Top side	22mm		151	5755	18.5	-0.04	0.539	19.04	20.00	1.249	90.82	1.101	0.741	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

12 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.

Frequency Band (MHz)	Wireless Band	Antenna	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated ^{1st} Measured SAR (W/kg)	Largest to Smallest SAR Radio
1900	LTE band 2	Ant.1	Hotspot	Back side	0.808	Yes	0.785	1.03
1900	LTE band 2	Ant.1	Hotspot	Bottom side	1.04	Yes	1.02	1.02
1720	LTE band 4	Ant.1	Hotspot	Back side	0.924	Yes	0.908	1.02
1720	LTE band 4	Ant.1	Hotspot	Bottom side	1.03	Yes	0.987	1.04
1720	LTE band 4	Ant.1	Body	Back side	0.993	Yes	0.941	1.06
1732.5	LTE band 4	Ant.5	Body	Top side	0.932	Yes	0.917	1.02
2535	LTE band 7	Ant.2	Body	Front side	1.02	Yes	0.995	1.03
2535	LTE band 7	Ant.2	Body	Left side	0.857	Yes	0.822	1.04
1720	LTE band 66	Ant.1	Hotspot	Back side	0.988	Yes	0.937	1.05
1720	LTE band 66	Ant.1	Hotspot	Bottom side	1.09	Yes	1.02	1.07
1720	LTE band 66	Ant.1	Body	Back side	0.868	Yes	0.841	1.03
1720	LTE band 66	Ant.5	Body	Top side	0.924	Yes	0.905	1.02
3690	LTE band 48	Ant.4	Hotspot	Left side	1.06	Yes	1.02	1.04

3690	LTE band 48	Ant.4	Body	Left side	0.970	Yes	0.958	1.01
Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20, the second repeated measurement. is not required.								

13 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).

13.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Body-worn	Hotspot
1	WWAN + WiFi 2.4G	No	Yes
2	WWAN + WiFi 5G	No	Yes
Note: 1. WWAN antennas can switch automatically, the standards supported by WWAN are (LTE/EN-DC). 2. The maximum SAR summation is calculated based on the same configuration and test position. 3. The simultaneous transmission combinations of multiple antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations is shown in this report.			

13.2 Sum SAR of Simultaneous Transmission

13.2.1 Body-Worn Simultaneous Transmission SAR Evaluation for ENDC

Band	LTE Antenna	4G		ENDC	NR Antenna	ENDC	Position	Stand alone SAR		
		LTE SAR	LTE Max Power	LTE Max Power		NR SAR		LTE SAR	NR SAR	SUM
										WWAN
DC_2A_n5A	Ant5	0.190	16.50	16.50	Ant1	0.402	Front Side	0.190	0.402	0.592
		0.786	16.50	16.50		0.631	Back Side	0.786	0.631	1.417
		0.084	16.50	16.50		0.221	Left Side	0.084	0.221	0.305
		0.012	16.50	16.50		0.377	Right Side	0.012	0.377	0.389
		0.651	16.50	16.50		0.107	Top Side	0.651	0.107	0.758
		0.000	16.50	16.50		0.000	Bottom Side	0.000	0.000	0.000
DC_2A_n66A	Ant5	0.190	16.50	16.50	Ant1	0.419	Front Side	0.190	0.419	0.609
		0.786	16.50	16.50		0.683	Back Side	0.786	0.683	1.469
		0.084	16.50	16.50		0.650	Left Side	0.084	0.650	0.734
		0.012	16.50	16.50		0.013	Right Side	0.012	0.013	0.025
		0.651	16.50	16.50		0.092	Top Side	0.651	0.092	0.744
		0.000	16.50	16.50		0.000	Bottom Side	0.000	0.000	0.000
DC_2A_n77A	Ant1	0.306	19.50	19.50	Ant2	0.397	Front Side	0.306	0.397	0.703
		0.607	19.50	19.50		0.318	Back Side	0.607	0.318	0.925
		0.107	19.50	19.50		0.849	Left Side	0.107	0.849	0.956
		0.124	19.50	19.50		0.092	Right Side	0.124	0.092	0.216
		0.044	19.50	19.50		0.053	Top Side	0.044	0.053	0.096
		0.000	19.50	19.50		0.000	Bottom Side	0.000	0.000	0.000
DC_2A_n77A	Ant1	0.306	19.50	19.50	Ant3	0.204	Front Side	0.306	0.204	0.510
		0.607	19.50	19.50		0.128	Back Side	0.607	0.128	0.735
		0.107	19.50	19.50		0.290	Left Side	0.107	0.290	0.397
		0.124	19.50	19.50		0.059	Right Side	0.124	0.059	0.183
		0.044	19.50	19.50		0.083	Top Side	0.044	0.083	0.126
		0.000	19.50	19.50		0.000	Bottom Side	0.000	0.000	0.000
DC_2A_n77A	Ant1	0.306	19.50	19.50	Ant4	0.170	Front Side	0.306	0.170	0.476
		0.607	19.50	19.50		0.239	Back Side	0.607	0.239	0.846
		0.107	19.50	19.50		0.637	Left Side	0.107	0.637	0.745
		0.124	19.50	19.50		0.054	Right Side	0.124	0.054	0.177
		0.044	19.50	19.50		0.344	Top Side	0.044	0.344	0.387
		0.000	19.50	19.50		0.000	Bottom Side	0.000	0.000	0.000
DC_2A_n77A	Ant1	0.306	19.50	19.50	Ant7	0.126	Front Side	0.306	0.126	0.432
		0.607	19.50	19.50		0.296	Back Side	0.607	0.296	0.903
		0.107	19.50	19.50		0.072	Left Side	0.107	0.072	0.179
		0.124	19.50	19.50		0.688	Right Side	0.124	0.688	0.812
		0.044	19.50	19.50		0.044	Top Side	0.044	0.044	0.088

		0.000	19.50	19.50		0.000	Bottom Side	0.000	0.000	0.000
DC_5A_n2A	Ant1	0.576	23.50	23.50	Ant5	0.159	Front Side	0.576	0.159	0.735
		0.553	23.50	23.50		0.576	Back Side	0.553	0.576	1.129
		0.370	23.50	23.50		0.063	Left Side	0.370	0.063	0.433
		0.570	23.50	23.50		0.194	Right Side	0.570	0.194	0.764
		0.118	23.50	23.50		0.516	Top Side	0.118	0.516	0.634
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_5A_n66A	Ant1	0.576	23.50	23.50	Ant5	0.237	Front Side	0.576	0.237	0.813
		0.553	23.50	23.50		0.619	Back Side	0.553	0.619	1.172
		0.370	23.50	23.50		0.048	Left Side	0.370	0.048	0.418
		0.570	23.50	23.50		0.153	Right Side	0.570	0.153	0.723
		0.118	23.50	23.50		0.797	Top Side	0.118	0.797	0.914
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_5A_n77A	Ant1	0.576	23.50	23.50	Ant2	0.397	Front Side	0.576	0.397	0.973
		0.553	23.50	23.50		0.318	Back Side	0.553	0.318	0.872
		0.370	23.50	23.50		0.849	Left Side	0.370	0.849	1.219
		0.570	23.50	23.50		0.092	Right Side	0.570	0.092	0.662
		0.118	23.50	23.50		0.053	Top Side	0.118	0.053	0.170
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_5A_n77A	Ant1	0.576	23.50	23.50	Ant3	0.204	Front Side	0.576	0.204	0.781
		0.553	23.50	23.50		0.128	Back Side	0.553	0.128	0.682
		0.370	23.50	23.50		0.290	Left Side	0.370	0.290	0.660
		0.570	23.50	23.50		0.059	Right Side	0.570	0.059	0.629
		0.118	23.50	23.50		0.083	Top Side	0.118	0.083	0.200
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_5A_n77A	Ant1	0.576	23.50	23.50	Ant4	0.170	Front Side	0.576	0.170	0.746
		0.553	23.50	23.50		0.239	Back Side	0.553	0.239	0.792
		0.370	23.50	23.50		0.637	Left Side	0.370	0.637	1.007
		0.570	23.50	23.50		0.054	Right Side	0.570	0.054	0.623
		0.118	23.50	23.50		0.344	Top Side	0.118	0.344	0.461
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_5A_n77A	Ant1	0.576	23.50	23.50	Ant7	0.126	Front Side	0.576	0.126	0.702
		0.553	23.50	23.50		0.296	Back Side	0.553	0.296	0.849
		0.370	23.50	23.50		0.072	Left Side	0.370	0.072	0.442
		0.570	23.50	23.50		0.688	Right Side	0.570	0.688	1.257
		0.118	23.50	23.50		0.044	Top Side	0.118	0.044	0.162
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_13A_n2A	Ant1	0.543	23.50	23.50	Ant5	0.159	Front Side	0.543	0.159	0.701
		0.633	23.50	23.50		0.576	Back Side	0.633	0.576	1.209
		0.473	23.50	23.50		0.063	Left Side	0.473	0.063	0.536
		0.601	23.50	23.50		0.194	Right Side	0.601	0.194	0.795
		0.090	23.50	23.50		0.516	Top Side	0.090	0.516	0.606
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000

DC_13A_n66A	Ant1	0.543	23.50	23.50	Ant5	0.237	Front Side	0.543	0.237	0.779
		0.633	23.50	23.50		0.619	Back Side	0.633	0.619	1.252
		0.473	23.50	23.50		0.048	Left Side	0.473	0.048	0.521
		0.601	23.50	23.50		0.153	Right Side	0.601	0.153	0.754
		0.090	23.50	23.50		0.797	Top Side	0.090	0.797	0.887
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_13A_n77A	Ant1	0.543	23.50	23.50	Ant2	0.397	Front Side	0.543	0.397	0.940
		0.633	23.50	23.50		0.318	Back Side	0.633	0.318	0.951
		0.473	23.50	23.50		0.849	Left Side	0.473	0.849	1.322
		0.601	23.50	23.50		0.092	Right Side	0.601	0.092	0.693
		0.090	23.50	23.50		0.053	Top Side	0.090	0.053	0.143
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_13A_n77A	Ant1	0.543	23.50	23.50	Ant3	0.204	Front Side	0.543	0.204	0.747
		0.633	23.50	23.50		0.128	Back Side	0.633	0.128	0.761
		0.473	23.50	23.50		0.290	Left Side	0.473	0.290	0.763
		0.601	23.50	23.50		0.059	Right Side	0.601	0.059	0.660
		0.090	23.50	23.50		0.083	Top Side	0.090	0.083	0.173
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_13A_n77A	Ant1	0.543	23.50	23.50	Ant4	0.170	Front Side	0.543	0.170	0.712
		0.633	23.50	23.50		0.239	Back Side	0.633	0.239	0.872
		0.473	23.50	23.50		0.637	Left Side	0.473	0.637	1.111
		0.601	23.50	23.50		0.054	Right Side	0.601	0.054	0.654
		0.090	23.50	23.50		0.344	Top Side	0.090	0.344	0.434
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_13A_n77A	Ant1	0.543	23.50	23.50	Ant7	0.126	Front Side	0.543	0.126	0.669
		0.633	23.50	23.50		0.296	Back Side	0.633	0.296	0.929
		0.473	23.50	23.50		0.072	Left Side	0.473	0.072	0.545
		0.601	23.50	23.50		0.688	Right Side	0.601	0.688	1.288
		0.090	23.50	23.50		0.044	Top Side	0.090	0.044	0.134
		0.000	23.50	23.50		0.000	Bottom Side	0.000	0.000	0.000
DC_66A_n2A	Ant5	0.326	15.50	15.50	Ant1	0.319	Front Side	0.326	0.319	0.645
		0.768	15.50	15.50		0.480	Back Side	0.768	0.480	1.248
		0.048	15.50	15.50		0.338	Left Side	0.048	0.338	0.385
		0.012	15.50	15.50		0.080	Right Side	0.012	0.080	0.093
		1.061	15.50	15.50		0.060	Top Side	1.061	0.060	1.121
		0.000	15.50	15.50		0.000	Bottom Side	0.000	0.000	0.000
DC_66A_n5A	Ant5	0.326	15.50	15.50	Ant1	0.402	Front Side	0.326	0.402	0.728
		0.768	15.50	15.50		0.631	Back Side	0.768	0.631	1.399
		0.048	15.50	15.50		0.221	Left Side	0.048	0.221	0.269
		0.012	15.50	15.50		0.377	Right Side	0.012	0.377	0.389
		1.061	15.50	15.50		0.107	Top Side	1.061	0.107	1.168
		0.000	15.50	15.50		0.000	Bottom Side	0.000	0.000	0.000
DC_66A_n77A	Ant1	0.362	19.50	17.50	Ant2	0.397	Front Side	0.228	0.397	0.625

		1.017	19.50	17.50		0.318	Back Side	0.642	0.318	0.960
		0.630	19.50	17.50		0.849	Left Side	0.397	0.849	1.246
		0.075	19.50	17.50		0.092	Right Side	0.047	0.092	0.140
		0.014	19.50	17.50		0.053	Top Side	0.009	0.053	0.061
		0.000	19.50	17.50		0.000	Bottom Side	0.000	0.000	0.000
DC_66A_n77A	Ant1	0.362	19.50	17.50	Ant3	0.204	Front Side	0.228	0.204	0.433
		1.017	19.50	17.50		0.128	Back Side	0.642	0.128	0.770
		0.630	19.50	17.50		0.290	Left Side	0.397	0.290	0.687
		0.075	19.50	17.50		0.059	Right Side	0.047	0.059	0.107
		0.014	19.50	17.50		0.083	Top Side	0.009	0.083	0.091
		0.000	19.50	17.50		0.000	Bottom Side	0.000	0.000	0.000
DC_66A_n77A	Ant1	0.362	19.50	17.50	Ant4	0.170	Front Side	0.228	0.170	0.398
		1.017	19.50	17.50		0.239	Back Side	0.642	0.239	0.881
		0.630	19.50	17.50		0.637	Left Side	0.397	0.637	1.035
		0.075	19.50	17.50		0.054	Right Side	0.047	0.054	0.101
		0.014	19.50	17.50		0.344	Top Side	0.009	0.344	0.352
		0.000	19.50	17.50		0.000	Bottom Side	0.000	0.000	0.000
DC_66A_n77A	Ant1	0.362	19.50	17.50	Ant7	0.126	Front Side	0.228	0.126	0.354
		1.017	19.50	17.50		0.296	Back Side	0.642	0.296	0.938
		0.630	19.50	17.50		0.072	Left Side	0.397	0.072	0.469
		0.075	19.50	17.50		0.688	Right Side	0.047	0.688	0.735
		0.014	19.50	17.50		0.044	Top Side	0.009	0.044	0.053
		0.000	19.50	17.50		0.000	Bottom Side	0.000	0.000	0.000
DC_48A_n2A	Ant4	0.219	16.00	15.00	Ant1	0.319	Front Side	0.174	0.319	0.493
		0.237	16.00	15.00		0.480	Back Side	0.188	0.480	0.669
		1.158	16.00	15.00		0.338	Left Side	0.920	0.338	1.257
		0.069	16.00	15.00		0.080	Right Side	0.055	0.080	0.135
		0.253	16.00	15.00		0.060	Top Side	0.201	0.060	0.261
		0.000	16.00	15.00		0.000	Bottom Side	0.000	0.000	0.000
DC_48A_n5A	Ant4	0.219	16.00	15.00	Ant1	0.402	Front Side	0.174	0.402	0.575
		0.237	16.00	15.00		0.631	Back Side	0.188	0.631	0.819
		1.158	16.00	15.00		0.221	Left Side	0.920	0.221	1.141
		0.069	16.00	15.00		0.377	Right Side	0.055	0.377	0.431
		0.253	16.00	15.00		0.107	Top Side	0.201	0.107	0.308
		0.000	16.00	15.00		0.000	Bottom Side	0.000	0.000	0.000
DC_48A_n66A	Ant4	0.219	16.00	15.00	Ant1	0.419	Front Side	0.174	0.419	0.593
		0.237	16.00	15.00		0.683	Back Side	0.188	0.683	0.871
		1.158	16.00	15.00		0.650	Left Side	0.920	0.650	1.570
		0.069	16.00	15.00		0.013	Right Side	0.055	0.013	0.067
		0.253	16.00	15.00		0.092	Top Side	0.201	0.092	0.294
		0.000	16.00	15.00		0.000	Bottom Side	0.000	0.000	0.000

Note:

1: The simultaneous A97 transmission combinations of the multiple 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 1.57W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.2 Body-Worn Simultaneous Transmission SAR Evaluation for Inter CA

Band	LTE Antenna	4G		CA	LTE Antenna	4G		CA	Position	Stand alone SAR		
		LTE SAR	LTE Max Power	LTE Max Power		LTE SAR	LTE Max Power	LTE Max Power		LTE SAR	LTE SAR	SUM WWAN
CA_2A-4A	Ant.1	0.306	19.50	19.50	Ant.5	0.316	15.50	15.50	Front Side	0.306	0.316	0.622
		0.607	19.50	19.50		0.736	15.50	15.50	Back Side	0.607	0.736	1.343
		0.107	19.50	19.50		0.062	15.50	15.50	Left Side	0.107	0.062	0.169
		0.124	19.50	19.50		0.032	15.50	15.50	Right Side	0.124	0.032	0.156
		0.044	19.50	19.50		1.024	15.50	15.50	Top Side	0.044	1.024	1.068
		0.000	19.50	19.50		0.000	15.50	15.50	Bottom Side	0.000	0.000	0.000
CA_2A-4A	Ant.5	0.190	16.50	16.50	Ant.1	0.373	19.50	17.50	Front Side	0.190	0.235	0.425
		0.786	16.50	16.50		1.159	19.50	17.50	Back Side	0.786	0.731	1.517
		0.084	16.50	16.50		0.119	19.50	17.50	Left Side	0.084	0.075	0.159
		0.012	16.50	16.50		0.069	19.50	17.50	Right Side	0.012	0.044	0.056
		0.651	16.50	16.50		0.034	19.50	17.50	Top Side	0.651	0.021	0.673
		0.000	16.50	16.50		0.000	19.50	17.50	Bottom Side	0.000	0.000	0.000
CA_2A-5A	Ant.5	0.190	16.50	16.50	Ant.1	0.576	23.50	23.50	Front Side	0.190	0.576	0.766
		0.786	16.50	16.50		0.553	23.50	23.50	Back Side	0.786	0.553	1.339
		0.084	16.50	16.50		0.370	23.50	23.50	Left Side	0.084	0.370	0.454
		0.012	16.50	16.50		0.570	23.50	23.50	Right Side	0.012	0.570	0.582
		0.651	16.50	16.50		0.118	23.50	23.50	Top Side	0.651	0.118	0.769
		0.000	16.50	16.50		0.000	23.50	23.50	Bottom Side	0.000	0.000	0.000
CA_2A-13A	Ant.5	0.190	16.50	16.50	Ant.1	0.543	23.50	23.50	Front Side	0.190	0.543	0.733
		0.786	16.50	16.50		0.633	23.50	23.50	Back Side	0.786	0.633	1.419
		0.084	16.50	16.50		0.473	23.50	23.50	Left Side	0.084	0.473	0.558
		0.012	16.50	16.50		0.601	23.50	23.50	Right Side	0.012	0.601	0.613
		0.651	16.50	16.50		0.090	23.50	23.50	Top Side	0.651	0.090	0.742
		0.000	16.50	16.50		0.000	23.50	23.50	Bottom Side	0.000	0.000	0.000
CA_2A-66A	Ant.5	0.190	16.50	16.50	Ant.1	0.362	19.50	17.50	Front Side	0.190	0.228	0.418
		0.786	16.50	16.50		1.017	19.50	17.50	Back Side	0.786	0.642	1.428
		0.084	16.50	16.50		0.630	19.50	17.50	Left Side	0.084	0.397	0.482
		0.012	16.50	16.50		0.075	19.50	17.50	Right Side	0.012	0.047	0.060
		0.651	16.50	16.50		0.014	19.50	17.50	Top Side	0.651	0.009	0.660
		0.000	16.50	16.50		0.000	19.50	17.50	Bottom Side	0.000	0.000	0.000
CA_2A-66A	Ant.1	0.306	19.50	19.50	Ant.5	0.326	15.50	15.50	Front Side	0.306	0.326	0.632
		0.607	19.50	19.50		0.768	15.50	15.50	Back Side	0.607	0.768	1.374

		0.107	19.50	19.50		0.048	15.50	15.50	Left Side	0.107	0.048	0.155
		0.124	19.50	19.50		0.012	15.50	15.50	Right Side	0.124	0.012	0.136
		0.044	19.50	19.50		1.061	15.50	15.50	Top Side	0.044	1.061	1.105
		0.000	19.50	19.50		0.000	15.50	15.50	Bottom Side	0.000	0.000	0.000
CA_4A-5A	Ant.5	0.316	15.50	15.50	Ant.1	0.576	23.50	23.50	Front Side	0.316	0.576	0.892
		0.736	15.50	15.50		0.553	23.50	23.50	Back Side	0.736	0.553	1.290
		0.062	15.50	15.50		0.370	23.50	23.50	Left Side	0.062	0.370	0.432
		0.032	15.50	15.50		0.570	23.50	23.50	Right Side	0.032	0.570	0.602
		1.024	15.50	15.50		0.118	23.50	23.50	Top Side	1.024	0.118	1.142
		0.000	15.50	15.50		0.000	23.50	23.50	Bottom Side	0.000	0.000	0.000
CA_4A-13A	Ant.5	0.316	15.50	15.50	Ant.1	0.543	23.50	23.50	Front Side	0.316	0.543	0.859
		0.736	15.50	15.50		0.633	23.50	23.50	Back Side	0.736	0.633	1.369
		0.062	15.50	15.50		0.473	23.50	23.50	Left Side	0.062	0.473	0.535
		0.032	15.50	15.50		0.601	23.50	23.50	Right Side	0.032	0.601	0.633
		1.024	15.50	15.50		0.090	23.50	23.50	Top Side	1.024	0.090	1.115
		0.000	15.50	15.50		0.000	23.50	23.50	Bottom Side	0.000	0.000	0.000
CA_5A-66A	Ant.1	0.576	23.50	23.50	Ant.5	0.326	15.50	15.50	Front Side	0.576	0.326	0.903
		0.553	23.50	23.50		0.768	15.50	15.50	Back Side	0.553	0.768	1.321
		0.370	23.50	23.50		0.048	15.50	15.50	Left Side	0.370	0.048	0.418
		0.570	23.50	23.50		0.012	15.50	15.50	Right Side	0.570	0.012	0.582
		0.118	23.50	23.50		1.061	15.50	15.50	Top Side	0.118	1.061	1.179
		0.000	23.50	23.50		0.000	15.50	15.50	Bottom Side	0.000	0.000	0.000
CA_13A-66A	Ant.1	0.543	23.50	23.50	Ant.5	0.326	15.50	15.50	Front Side	0.543	0.326	0.869
		0.633	23.50	23.50		0.768	15.50	15.50	Back Side	0.633	0.768	1.401
		0.473	23.50	23.50		0.048	15.50	15.50	Left Side	0.473	0.048	0.521
		0.601	23.50	23.50		0.012	15.50	15.50	Right Side	0.601	0.012	0.613
		0.090	23.50	23.50		1.061	15.50	15.50	Top Side	0.090	1.061	1.151
		0.000	23.50	23.50		0.000	15.50	15.50	Bottom Side	0.000	0.000	0.000

Note:

1: The simultaneous transmission combinations of the multiple 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 1.52 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.3 Hotspot mode Simultaneous Transmission SAR Evaluation for WWAN Antenna with WIFI

Band	Antenna	Position	Stand alone SAR			SUM SAR	
			1	2	3	1+2	1+3
			WWAN	2.4GWIFI	5G WIFI		
LTE B2	Ant.1	Front Side	0.465	0.276	0.325	0.740	0.790
		Back Side	0.954	0.283	0.323	1.236	1.277
		Left Side	0.165	0.035	0.089	0.200	0.254
		Right Side	0.216	0.266	0.165	0.482	0.381
		Top Side	0.037	0.290	0.506	0.327	0.542
		Bottom Side	1.228	0.034	0.066	1.261	1.294
	Ant.5	Front Side	0.171	0.276	0.325	0.446	0.495
		Back Side	0.540	0.283	0.323	0.823	0.863
		Left Side	0.097	0.035	0.089	0.132	0.187
		Right Side	0.080	0.266	0.165	0.346	0.245
		Top Side	0.495	0.290	0.506	0.784	1.000
		Bottom Side	0.034	0.034	0.066	0.068	0.100
LTE B4	Ant.1	Front Side	0.505	0.276	0.325	0.780	0.830
		Back Side	1.044	0.283	0.323	1.327	1.367
		Left Side	0.216	0.035	0.089	0.251	0.305
		Right Side	0.131	0.266	0.165	0.398	0.297
		Top Side	0.058	0.290	0.506	0.348	0.563
		Bottom Side	1.164	0.034	0.066	1.198	1.230
	Ant.5	Front Side	0.157	0.276	0.325	0.433	0.482
		Back Side	0.430	0.283	0.323	0.712	0.753
		Left Side	0.045	0.035	0.089	0.080	0.134
		Right Side	0.021	0.266	0.165	0.287	0.186
		Top Side	0.492	0.290	0.506	0.782	0.998
		Bottom Side	0.016	0.034	0.066	0.050	0.082
LTE B5	Ant.1	Front Side	0.668	0.276	0.325	0.944	0.993
		Back Side	0.636	0.283	0.323	0.919	0.960
		Left Side	0.323	0.035	0.089	0.358	0.412
		Right Side	0.341	0.266	0.165	0.607	0.506
		Top Side	0.060	0.290	0.506	0.350	0.566
		Bottom Side	0.275	0.034	0.066	0.309	0.341
LTE B7	Ant.2	Front Side	0.581	0.276	0.325	0.856	0.905
		Back Side	0.353	0.283	0.323	0.636	0.677
		Left Side	0.289	0.035	0.089	0.324	0.379
		Right Side	0.098	0.266	0.165	0.364	0.264
		Top Side	0.065	0.290	0.506	0.355	0.571
		Bottom Side	0.345	0.034	0.066	0.379	0.411

LTE B12	Ant.1	Front Side	0.352	0.276	0.325	0.627	0.676
		Back Side	0.376	0.283	0.323	0.658	0.699
		Left Side	0.228	0.035	0.089	0.263	0.317
		Right Side	0.315	0.266	0.165	0.581	0.480
		Top Side	0.040	0.290	0.506	0.330	0.545
		Bottom Side	0.138	0.034	0.066	0.172	0.204
LTE B13	Ant.1	Front Side	0.572	0.276	0.325	0.848	0.897
		Back Side	0.585	0.283	0.323	0.867	0.908
		Left Side	0.336	0.035	0.089	0.371	0.425
		Right Side	0.400	0.266	0.165	0.666	0.565
		Top Side	0.045	0.290	0.506	0.334	0.550
		Bottom Side	0.199	0.034	0.066	0.233	0.265
LTE B66	Ant.1	Front Side	0.520	0.276	0.325	0.796	0.845
		Back Side	1.145	0.283	0.323	1.427	1.468
		Left Side	0.263	0.035	0.089	0.298	0.352
		Right Side	0.136	0.266	0.165	0.402	0.301
		Top Side	0.062	0.290	0.506	0.352	0.568
		Bottom Side	1.263	0.034	0.066	1.297	1.329
	Ant.5	Front Side	0.201	0.276	0.325	0.477	0.526
		Back Side	0.574	0.283	0.323	0.856	0.897
		Left Side	0.018	0.035	0.089	0.053	0.107
		Right Side	0.126	0.266	0.165	0.392	0.291
		Top Side	0.699	0.290	0.506	0.989	1.205
		Bottom Side	0.040	0.034	0.066	0.074	0.106
LTE B48	Ant.4	Front Side	0.367	0.276	0.325	0.643	0.692
		Back Side	0.395	0.283	0.323	0.677	0.718
		Left Side	1.248	0.035	0.089	1.283	1.338
		Right Side	0.094	0.266	0.165	0.360	0.259
		Top Side	0.646	0.290	0.506	0.936	1.152
		Bottom Side	0.057	0.034	0.066	0.091	0.123

Note:

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

2: The highest Combined 1g SAR is 1.47 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.4 Hotspot mode Simultaneous Transmission SAR Evaluation for ENDC with WIFI

Band	LTE Antenna	4G		ENDC	NR Antenna	ENDC	Position	Standalone SAR					SUM SAR	
		LTE SAR	LTE Max Power	LTE Max Power		NR SAR		LTE SAR	NR SAR	1	2	3	1+2	1+3
										WWAN	2.4GWIFI	5G WIFI		
DC_2A_n5A	Ant5	0.171	18.50	18.50	Ant1	0.519	Front Side	0.171	0.519	0.690	0.276	0.325	0.965	1.015
		0.540	18.50	18.50		0.641	Back Side	0.540	0.641	1.181	0.283	0.323	1.464	1.505
		0.097	18.50	18.50		0.315	Left Side	0.097	0.315	0.412	0.035	0.089	0.448	0.502
		0.080	18.50	18.50		0.358	Right Side	0.080	0.358	0.438	0.266	0.165	0.705	0.604
		0.495	18.50	18.50		0.089	Top Side	0.495	0.089	0.584	0.290	0.506	0.873	1.089
		0.034	18.50	18.50		0.326	Bottom Side	0.034	0.326	0.360	0.034	0.066	0.394	0.426
DC_2A_n66A	Ant5	0.171	18.50	18.50	Ant1	0.318	Front Side	0.171	0.318	0.489	0.276	0.325	0.764	0.814
		0.540	18.50	18.50		0.479	Back Side	0.540	0.479	1.019	0.283	0.323	1.302	1.342
		0.097	18.50	18.50		0.423	Left Side	0.097	0.423	0.520	0.035	0.089	0.555	0.609
		0.080	18.50	18.50		0.017	Right Side	0.080	0.017	0.097	0.266	0.165	0.363	0.262
		0.495	18.50	18.50		0.045	Top Side	0.495	0.045	0.540	0.290	0.506	0.829	1.045
		0.034	18.50	18.50		0.537	Bottom Side	0.034	0.537	0.571	0.034	0.066	0.605	0.637
DC_2A_n77A	Ant1	0.465	23.50	21.50	Ant2	0.089	Front Side	0.293	0.089	0.382	0.276	0.325	0.657	0.707
		0.954	23.50	21.50		0.092	Back Side	0.602	0.092	0.694	0.283	0.323	0.976	1.017
		0.165	23.50	21.50		0.154	Left Side	0.104	0.154	0.258	0.035	0.089	0.293	0.348
		0.216	23.50	21.50		0.095	Right Side	0.136	0.095	0.231	0.266	0.165	0.497	0.396
		0.037	23.50	21.50		0.036	Top Side	0.023	0.036	0.059	0.290	0.506	0.349	0.565
		1.228	23.50	21.50		0.059	Bottom Side	0.775	0.059	0.834	0.034	0.066	0.867	0.900
DC_2A_n77A	Ant1	0.465	23.50	21.50	Ant3	0.231	Front Side	0.293	0.231	0.525	0.276	0.325	0.800	0.849
		0.954	23.50	21.50		0.161	Back Side	0.602	0.161	0.763	0.283	0.323	1.045	1.086
		0.165	23.50	21.50		0.348	Left Side	0.104	0.348	0.452	0.035	0.089	0.487	0.541
		0.216	23.50	21.50		0.101	Right Side	0.136	0.101	0.237	0.266	0.165	0.503	0.402
		0.037	23.50	21.50		0.066	Top Side	0.023	0.066	0.089	0.290	0.506	0.379	0.595
		1.228	23.50	21.50		0.073	Bottom Side	0.775	0.073	0.847	0.034	0.066	0.881	0.913
DC_2A_n77A	Ant1	0.465	23.50	21.50	Ant4	0.221	Front Side	0.293	0.221	0.514	0.276	0.325	0.790	0.839
		0.954	23.50	21.50		0.292	Back Side	0.602	0.292	0.894	0.283	0.323	1.177	1.217
		0.165	23.50	21.50		0.919	Left Side	0.104	0.919	1.023	0.035	0.089	1.058	1.113
		0.216	23.50	21.50		0.067	Right Side	0.136	0.067	0.203	0.266	0.165	0.469	0.368
		0.037	23.50	21.50		0.468	Top Side	0.023	0.468	0.492	0.290	0.506	0.781	0.997
		1.228	23.50	21.50		0.034	Bottom Side	0.775	0.034	0.808	0.034	0.066	0.842	0.874
DC_2A_n77A	Ant1	0.465	23.50	21.50	Ant7	0.113	Front Side	0.293	0.113	0.406	0.276	0.325	0.682	0.731
		0.954	23.50	21.50		0.195	Back Side	0.602	0.195	0.797	0.283	0.323	1.079	1.120
		0.165	23.50	21.50		0.086	Left Side	0.104	0.086	0.190	0.035	0.089	0.225	0.279
		0.216	23.50	21.50		0.561	Right Side	0.136	0.561	0.697	0.266	0.165	0.963	0.862
		0.037	23.50	21.50		0.040	Top Side	0.023	0.040	0.063	0.290	0.506	0.353	0.568
		1.228	23.50	21.50		0.030	Bottom Side	0.775	0.030	0.804	0.034	0.066	0.838	0.870
DC_5A_n2A	Ant1	0.668	23.50	23.50	Ant5	0.151	Front Side	0.668	0.151	0.819	0.276	0.325	1.095	1.144

		0.636	23.50	23.50		0.573	Back Side	0.636	0.573	1.209	0.283	0.323	1.492	1.533
		0.323	23.50	23.50		0.156	Left Side	0.323	0.156	0.479	0.035	0.089	0.515	0.569
		0.341	23.50	23.50		0.404	Right Side	0.341	0.404	0.744	0.266	0.165	1.010	0.910
		0.060	23.50	23.50		0.559	Top Side	0.060	0.559	0.620	0.290	0.506	0.909	1.125
		0.275	23.50	23.50		0.033	Bottom Side	0.275	0.033	0.308	0.034	0.066	0.342	0.374
DC_5A_n66A	Ant1	0.668	23.50	23.50	Ant5	0.204	Front Side	0.668	0.204	0.872	0.276	0.325	1.147	1.197
		0.636	23.50	23.50		0.565	Back Side	0.636	0.565	1.201	0.283	0.323	1.484	1.524
		0.323	23.50	23.50		0.023	Left Side	0.323	0.023	0.346	0.035	0.089	0.382	0.436
		0.341	23.50	23.50		0.161	Right Side	0.341	0.161	0.502	0.266	0.165	0.768	0.667
		0.060	23.50	23.50		0.623	Top Side	0.060	0.623	0.683	0.290	0.506	0.973	1.188
		0.275	23.50	23.50		0.042	Bottom Side	0.275	0.042	0.317	0.034	0.066	0.351	0.383
DC_5A_n77A	Ant1	0.668	23.50	23.50	Ant2	0.089	Front Side	0.668	0.089	0.757	0.276	0.325	1.032	1.081
		0.636	23.50	23.50		0.092	Back Side	0.636	0.092	0.728	0.283	0.323	1.011	1.052
		0.323	23.50	23.50		0.154	Left Side	0.323	0.154	0.477	0.035	0.089	0.512	0.567
		0.341	23.50	23.50		0.095	Right Side	0.341	0.095	0.435	0.266	0.165	0.702	0.601
		0.060	23.50	23.50		0.036	Top Side	0.060	0.036	0.096	0.290	0.506	0.386	0.602
		0.275	23.50	23.50		0.059	Bottom Side	0.275	0.059	0.334	0.034	0.066	0.368	0.400
DC_5A_n77A	Ant1	0.668	23.50	23.50	Ant3	0.231	Front Side	0.668	0.231	0.899	0.276	0.325	1.175	1.224
		0.636	23.50	23.50		0.161	Back Side	0.636	0.161	0.797	0.283	0.323	1.080	1.121
		0.323	23.50	23.50		0.348	Left Side	0.323	0.348	0.671	0.035	0.089	0.706	0.760
		0.341	23.50	23.50		0.101	Right Side	0.341	0.101	0.441	0.266	0.165	0.707	0.606
		0.060	23.50	23.50		0.066	Top Side	0.060	0.066	0.126	0.290	0.506	0.416	0.632
		0.275	23.50	23.50		0.073	Bottom Side	0.275	0.073	0.348	0.034	0.066	0.382	0.414
DC_5A_n77A	Ant1	0.668	23.50	23.50	Ant4	0.221	Front Side	0.668	0.221	0.889	0.276	0.325	1.165	1.214
		0.636	23.50	23.50		0.292	Back Side	0.636	0.292	0.929	0.283	0.323	1.211	1.252
		0.323	23.50	23.50		0.919	Left Side	0.323	0.919	1.242	0.035	0.089	1.277	1.332
		0.341	23.50	23.50		0.067	Right Side	0.341	0.067	0.408	0.266	0.165	0.674	0.573
		0.060	23.50	23.50		0.468	Top Side	0.060	0.468	0.529	0.290	0.506	0.818	1.034
		0.275	23.50	23.50		0.034	Bottom Side	0.275	0.034	0.309	0.034	0.066	0.343	0.375
DC_5A_n77A	Ant1	0.668	23.50	23.50	Ant7	0.113	Front Side	0.668	0.113	0.781	0.276	0.325	1.057	1.106
		0.636	23.50	23.50		0.195	Back Side	0.636	0.195	0.831	0.283	0.323	1.114	1.155
		0.323	23.50	23.50		0.086	Left Side	0.323	0.086	0.409	0.035	0.089	0.444	0.498
		0.341	23.50	23.50		0.561	Right Side	0.341	0.561	0.901	0.266	0.165	1.167	1.067
		0.060	23.50	23.50		0.040	Top Side	0.060	0.040	0.100	0.290	0.506	0.389	0.605
		0.275	23.50	23.50		0.030	Bottom Side	0.275	0.030	0.305	0.034	0.066	0.339	0.371
DC_13A_n2A	Ant1	0.572	23.50	23.50	Ant5	0.151	Front Side	0.572	0.151	0.723	0.276	0.325	0.999	1.048
		0.585	23.50	23.50		0.573	Back Side	0.585	0.573	1.158	0.283	0.323	1.440	1.481
		0.336	23.50	23.50		0.156	Left Side	0.336	0.156	0.492	0.035	0.089	0.527	0.581
		0.400	23.50	23.50		0.404	Right Side	0.400	0.404	0.804	0.266	0.165	1.070	0.969
		0.045	23.50	23.50		0.559	Top Side	0.045	0.559	0.604	0.290	0.506	0.894	1.110
		0.199	23.50	23.50		0.033	Bottom Side	0.199	0.033	0.232	0.034	0.066	0.266	0.298
DC_13A_n66A	Ant1	0.572	23.50	23.50	Ant5	0.204	Front Side	0.572	0.204	0.776	0.276	0.325	1.052	1.101
		0.585	23.50	23.50		0.565	Back Side	0.585	0.565	1.149	0.283	0.323	1.432	1.473

		0.336	23.50	23.50		0.023	Left Side	0.336	0.023	0.359	0.035	0.089	0.394	0.448
		0.400	23.50	23.50		0.161	Right Side	0.400	0.161	0.561	0.266	0.165	0.827	0.726
		0.045	23.50	23.50		0.623	Top Side	0.045	0.623	0.667	0.290	0.506	0.957	1.173
		0.199	23.50	23.50		0.042	Bottom Side	0.199	0.042	0.242	0.034	0.066	0.276	0.308
DC_13A_n77A	Ant1	0.572	23.50	23.50	Ant2	0.089	Front Side	0.572	0.089	0.661	0.276	0.325	0.936	0.986
		0.585	23.50	23.50		0.092	Back Side	0.585	0.092	0.677	0.283	0.323	0.959	1.000
		0.336	23.50	23.50		0.154	Left Side	0.336	0.154	0.490	0.035	0.089	0.525	0.579
		0.400	23.50	23.50		0.095	Right Side	0.400	0.095	0.495	0.266	0.165	0.761	0.660
		0.045	23.50	23.50		0.036	Top Side	0.045	0.036	0.081	0.290	0.506	0.370	0.586
		0.199	23.50	23.50		0.059	Bottom Side	0.199	0.059	0.259	0.034	0.066	0.292	0.325
DC_13A_n77A	Ant1	0.572	23.50	23.50	Ant3	0.231	Front Side	0.572	0.231	0.804	0.276	0.325	1.079	1.129
		0.585	23.50	23.50		0.161	Back Side	0.585	0.161	0.746	0.283	0.323	1.028	1.069
		0.336	23.50	23.50		0.348	Left Side	0.336	0.348	0.683	0.035	0.089	0.719	0.773
		0.400	23.50	23.50		0.101	Right Side	0.400	0.101	0.501	0.266	0.165	0.767	0.666
		0.045	23.50	23.50		0.066	Top Side	0.045	0.066	0.111	0.290	0.506	0.400	0.616
		0.199	23.50	23.50		0.073	Bottom Side	0.199	0.073	0.272	0.034	0.066	0.306	0.338
DC_13A_n77A	Ant1	0.572	23.50	23.50	Ant4	0.221	Front Side	0.572	0.221	0.794	0.276	0.325	1.069	1.118
		0.585	23.50	23.50		0.292	Back Side	0.585	0.292	0.877	0.283	0.323	1.160	1.200
		0.336	23.50	23.50		0.919	Left Side	0.336	0.919	1.255	0.035	0.089	1.290	1.344
		0.400	23.50	23.50		0.067	Right Side	0.400	0.067	0.467	0.266	0.165	0.733	0.632
		0.045	23.50	23.50		0.468	Top Side	0.045	0.468	0.513	0.290	0.506	0.803	1.019
		0.199	23.50	23.50		0.034	Bottom Side	0.199	0.034	0.233	0.034	0.066	0.267	0.299
DC_13A_n77A	Ant1	0.572	23.50	23.50	Ant7	0.113	Front Side	0.572	0.113	0.686	0.276	0.325	0.961	1.010
		0.585	23.50	23.50		0.195	Back Side	0.585	0.195	0.780	0.283	0.323	1.062	1.103
		0.336	23.50	23.50		0.086	Left Side	0.336	0.086	0.422	0.035	0.089	0.457	0.511
		0.400	23.50	23.50		0.561	Right Side	0.400	0.561	0.961	0.266	0.165	1.227	1.126
		0.045	23.50	23.50		0.040	Top Side	0.045	0.040	0.084	0.290	0.506	0.374	0.590
		0.199	23.50	23.50		0.030	Bottom Side	0.199	0.030	0.229	0.034	0.066	0.263	0.295
DC_66A_n2A	Ant5	0.201	16.50	16.50	Ant1	0.236	Front Side	0.201	0.236	0.437	0.276	0.325	0.712	0.762
		0.574	16.50	16.50		0.392	Back Side	0.574	0.392	0.966	0.283	0.323	1.249	1.289
		0.018	16.50	16.50		0.225	Left Side	0.018	0.225	0.243	0.035	0.089	0.278	0.332
		0.126	16.50	16.50		0.073	Right Side	0.126	0.073	0.198	0.266	0.165	0.464	0.364
		0.699	16.50	16.50		0.102	Top Side	0.699	0.102	0.801	0.290	0.506	1.091	1.306
		0.040	16.50	16.50		0.661	Bottom Side	0.040	0.661	0.701	0.034	0.066	0.734	0.767
DC_66A_n5A	Ant5	0.201	16.50	16.50	Ant1	0.519	Front Side	0.201	0.519	0.720	0.276	0.325	0.996	1.045
		0.574	16.50	16.50		0.641	Back Side	0.574	0.641	1.215	0.283	0.323	1.497	1.538
		0.018	16.50	16.50		0.315	Left Side	0.018	0.315	0.333	0.035	0.089	0.368	0.422
		0.126	16.50	16.50		0.358	Right Side	0.126	0.358	0.484	0.266	0.165	0.750	0.649
		0.699	16.50	16.50		0.089	Top Side	0.699	0.089	0.788	0.290	0.506	1.078	1.294
		0.040	16.50	16.50		0.326	Bottom Side	0.040	0.326	0.366	0.034	0.066	0.400	0.432
DC_66A_n77A	Ant1	0.520	22.50	19.50	Ant2	0.089	Front Side	0.261	0.089	0.349	0.276	0.325	0.625	0.674
		1.145	22.50	19.50		0.092	Back Side	0.574	0.092	0.666	0.283	0.323	0.948	0.989
		0.263	22.50	19.50		0.154	Left Side	0.132	0.154	0.286	0.035	0.089	0.321	0.375

		0.136	22.50	19.50		0.095	Right Side	0.068	0.095	0.163	0.266	0.165	0.429	0.328
		0.062	22.50	19.50		0.036	Top Side	0.031	0.036	0.067	0.290	0.506	0.357	0.573
		1.263	22.50	19.50		0.059	Bottom Side	0.633	0.059	0.692	0.034	0.066	0.726	0.758
DC_66A_n77A	Ant1	0.520	22.50	19.50	Ant3	0.231	Front Side	0.261	0.231	0.492	0.276	0.325	0.768	0.817
		1.145	22.50	19.50		0.161	Back Side	0.574	0.161	0.735	0.283	0.323	1.017	1.058
		0.263	22.50	19.50		0.348	Left Side	0.132	0.348	0.479	0.035	0.089	0.515	0.569
		0.136	22.50	19.50		0.101	Right Side	0.068	0.101	0.169	0.266	0.165	0.435	0.334
		0.062	22.50	19.50		0.066	Top Side	0.031	0.066	0.097	0.290	0.506	0.387	0.603
		1.263	22.50	19.50		0.073	Bottom Side	0.633	0.073	0.706	0.034	0.066	0.740	0.772
DC_66A_n77A	Ant1	0.520	22.50	19.50	Ant4	0.221	Front Side	0.261	0.221	0.482	0.276	0.325	0.757	0.807
		1.145	22.50	19.50		0.292	Back Side	0.574	0.292	0.866	0.283	0.323	1.149	1.190
		0.263	22.50	19.50		0.919	Left Side	0.132	0.919	1.051	0.035	0.089	1.086	1.140
		0.136	22.50	19.50		0.067	Right Side	0.068	0.067	0.135	0.266	0.165	0.401	0.300
		0.062	22.50	19.50		0.468	Top Side	0.031	0.468	0.500	0.290	0.506	0.789	1.005
		1.263	22.50	19.50		0.034	Bottom Side	0.633	0.034	0.667	0.034	0.066	0.701	0.733
DC_66A_n77A	Ant1	0.520	22.50	19.50	Ant7	0.113	Front Side	0.261	0.113	0.374	0.276	0.325	0.650	0.699
		1.145	22.50	19.50		0.195	Back Side	0.574	0.195	0.769	0.283	0.323	1.051	1.092
		0.263	22.50	19.50		0.086	Left Side	0.132	0.086	0.218	0.035	0.089	0.253	0.307
		0.136	22.50	19.50		0.561	Right Side	0.068	0.561	0.629	0.266	0.165	0.895	0.794
		0.062	22.50	19.50		0.040	Top Side	0.031	0.040	0.071	0.290	0.506	0.361	0.576
		1.263	22.50	19.50		0.030	Bottom Side	0.633	0.030	0.663	0.034	0.066	0.697	0.729
DC_48A_n2A	Ant4	0.367	20.00	19.00	Ant1	0.236	Front Side	0.292	0.236	0.527	0.276	0.325	0.803	0.852
		0.395	20.00	19.00		0.392	Back Side	0.314	0.392	0.706	0.283	0.323	0.988	1.029
		1.248	20.00	19.00		0.225	Left Side	0.992	0.225	1.216	0.035	0.089	1.252	1.306
		0.094	20.00	19.00		0.073	Right Side	0.075	0.073	0.147	0.266	0.165	0.413	0.312
		0.646	20.00	19.00		0.102	Top Side	0.513	0.102	0.615	0.290	0.506	0.905	1.120
		0.057	20.00	19.00		0.661	Bottom Side	0.046	0.661	0.707	0.034	0.066	0.740	0.773
DC_48A_n5A	Ant4	0.367	20.00	19.00	Ant1	0.519	Front Side	0.292	0.519	0.811	0.276	0.325	1.087	1.136
		0.395	20.00	19.00		0.641	Back Side	0.314	0.641	0.955	0.283	0.323	1.237	1.278
		1.248	20.00	19.00		0.315	Left Side	0.992	0.315	1.307	0.035	0.089	1.342	1.396
		0.094	20.00	19.00		0.358	Right Side	0.075	0.358	0.433	0.266	0.165	0.699	0.598
		0.646	20.00	19.00		0.089	Top Side	0.513	0.089	0.602	0.290	0.506	0.892	1.108
		0.057	20.00	19.00		0.326	Bottom Side	0.046	0.326	0.372	0.034	0.066	0.406	0.438
DC_48A_n66A	Ant4	0.367	20.00	19.00	Ant1	0.318	Front Side	0.292	0.318	0.610	0.276	0.325	0.886	0.935
		0.395	20.00	19.00		0.479	Back Side	0.314	0.479	0.792	0.283	0.323	1.075	1.116
		1.248	20.00	19.00		0.423	Left Side	0.992	0.423	1.414	0.035	0.089	1.450	1.504
		0.094	20.00	19.00		0.017	Right Side	0.075	0.017	0.091	0.266	0.165	0.357	0.257
		0.646	20.00	19.00		0.045	Top Side	0.513	0.045	0.558	0.290	0.506	0.848	1.064
		0.057	20.00	19.00		0.537	Bottom Side	0.046	0.537	0.583	0.034	0.066	0.617	0.649

Note:

1: The simultaneous transmission combinations of the multiple 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 1.54W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.5 Hotspot mode Simultaneous Transmission SAR Evaluation for Inter CA with WIFI

Band	LTE Ant.	4G		CA	LTE Ant.	4G		CA	Position	Stand alone SAR					SUM SAR	
		LTE SAR	LTE Max Power	LTE Max Power		LTE SAR	LTE Max Power	LTE SAR		LTE SAR	1	2	3	1+2	1+3	
											WWAN	2.4G WIFI	5G WIFI			
CA_2A-4A	Ant.1	0.465	23.50	21.50	Ant.5	0.157	15.5	15.5	Front Side	0.293	0.157	0.450	0.276	0.325	0.726	0.775
		0.954	23.50	21.50		0.430	15.5	15.5	Back Side	0.602	0.430	1.031	0.283	0.323	1.314	1.355
		0.165	23.50	21.50		0.045	15.5	15.5	Left Side	0.104	0.045	0.149	0.035	0.089	0.184	0.238
		0.216	23.50	21.50		0.021	15.5	15.5	Right Side	0.136	0.021	0.157	0.266	0.165	0.423	0.322
		0.037	23.50	21.50		0.492	15.5	15.5	Top Side	0.023	0.492	0.516	0.290	0.506	0.805	1.021
		1.228	23.50	21.50		0.016	15.5	15.5	Bottom Side	0.775	0.016	0.790	0.034	0.066	0.824	0.856
CA_2A-4A	Ant.5	0.171	18.50	18.50	Ant.1	0.505	22.5	19.5	Front Side	0.171	0.253	0.424	0.276	0.325	0.699	0.748
		0.540	18.50	18.50		1.044	22.5	19.5	Back Side	0.540	0.523	1.063	0.283	0.323	1.346	1.387
		0.097	18.50	18.50		0.216	22.5	19.5	Left Side	0.097	0.108	0.205	0.035	0.089	0.240	0.295
		0.080	18.50	18.50		0.131	22.5	19.5	Right Side	0.080	0.066	0.146	0.266	0.165	0.412	0.311
		0.495	18.50	18.50		0.058	22.5	19.5	Top Side	0.495	0.029	0.524	0.290	0.506	0.813	1.029
		0.034	18.50	18.50		1.164	22.5	19.5	Bottom Side	0.034	0.583	0.617	0.034	0.066	0.651	0.683
CA_2A-5A	Ant.5	0.171	18.50	18.50	Ant.1	0.668	23.50	23.50	Front Side	0.171	0.668	0.839	0.276	0.325	1.114	1.163
		0.540	18.50	18.50		0.636	23.50	23.50	Back Side	0.540	0.636	1.176	0.283	0.323	1.459	1.500
		0.097	18.50	18.50		0.323	23.50	23.50	Left Side	0.097	0.323	0.420	0.035	0.089	0.455	0.510
		0.080	18.50	18.50		0.341	23.50	23.50	Right Side	0.080	0.341	0.421	0.266	0.165	0.687	0.586
		0.495	18.50	18.50		0.060	23.50	23.50	Top Side	0.495	0.060	0.555	0.290	0.506	0.844	1.060
		0.034	18.50	18.50		0.275	23.50	23.50	Bottom Side	0.034	0.275	0.309	0.034	0.066	0.343	0.375
CA_2A-13A	Ant.5	0.171	18.50	18.50	Ant.1	0.572	23.50	23.50	Front Side	0.171	0.572	0.743	0.276	0.325	1.018	1.068
		0.540	18.50	18.50		0.585	23.50	23.50	Back Side	0.540	0.585	1.125	0.283	0.323	1.407	1.448
		0.097	18.50	18.50		0.336	23.50	23.50	Left Side	0.097	0.336	0.433	0.035	0.089	0.468	0.522
		0.080	18.50	18.50		0.400	23.50	23.50	Right Side	0.080	0.400	0.480	0.266	0.165	0.746	0.646
		0.495	18.50	18.50		0.045	23.50	23.50	Top Side	0.495	0.045	0.539	0.290	0.506	0.829	1.045
		0.034	18.50	18.50		0.199	23.50	23.50	Bottom Side	0.034	0.199	0.233	0.034	0.066	0.267	0.299
CA_2A-66A	Ant.5	0.171	18.50	18.50	Ant.1	0.520	22.50	19.50	Front Side	0.171	0.261	0.431	0.276	0.325	0.707	0.756
		0.540	18.50	18.50		1.145	22.50	19.50	Back Side	0.540	0.574	1.114	0.283	0.323	1.396	1.437
		0.097	18.50	18.50		0.263	22.50	19.50	Left Side	0.097	0.132	0.229	0.035	0.089	0.264	0.318
		0.080	18.50	18.50		0.136	22.50	19.50	Right Side	0.080	0.068	0.148	0.266	0.165	0.414	0.314
		0.495	18.50	18.50		0.062	22.50	19.50	Top Side	0.495	0.031	0.526	0.290	0.506	0.816	1.031
		0.034	18.50	18.50		1.263	22.50	19.50	Bottom Side	0.034	0.633	0.667	0.034	0.066	0.701	0.733
CA_2A-66A	Ant.1	0.465	23.50	21.50	Ant.5	0.201	16.50	16.50	Front Side	0.293	0.201	0.494	0.276	0.325	0.770	0.819
		0.954	23.50	21.50		0.574	16.50	16.50	Back Side	0.602	0.574	1.175	0.283	0.323	1.458	1.499
		0.165	23.50	21.50		0.018	16.50	16.50	Left Side	0.104	0.018	0.122	0.035	0.089	0.157	0.211
		0.216	23.50	21.50		0.126	16.50	16.50	Right Side	0.136	0.126	0.262	0.266	0.165	0.528	0.427
		0.037	23.50	21.50		0.699	16.50	16.50	Top Side	0.023	0.699	0.723	0.290	0.506	1.012	1.228

		1.228	23.50	21.50		0.040	16.50	16.50	Bottom Side	0.775	0.040	0.814	0.034	0.066	0.848	0.880
CA_4A-5A	Ant.5	0.157	15.50	15.50	Ant.1	0.668	23.50	23.50	Front Side	0.157	0.668	0.825	0.276	0.325	1.101	1.150
		0.430	15.50	15.50		0.636	23.50	23.50	Back Side	0.430	0.636	1.066	0.283	0.323	1.349	1.389
		0.045	15.50	15.50		0.323	23.50	23.50	Left Side	0.045	0.323	0.368	0.035	0.089	0.403	0.457
		0.021	15.50	15.50		0.341	23.50	23.50	Right Side	0.021	0.341	0.361	0.266	0.165	0.627	0.526
		0.492	15.50	15.50		0.060	23.50	23.50	Top Side	0.492	0.060	0.552	0.290	0.506	0.842	1.058
		0.016	15.50	15.50		0.275	23.50	23.50	Bottom Side	0.016	0.275	0.291	0.034	0.066	0.325	0.357
CA_4A-13A	Ant.5	0.157	15.50	15.50	Ant.1	0.572	23.50	23.50	Front Side	0.157	0.572	0.729	0.276	0.325	1.005	1.054
		0.430	15.50	15.50		0.585	23.50	23.50	Back Side	0.430	0.585	1.014	0.283	0.323	1.297	1.338
		0.045	15.50	15.50		0.336	23.50	23.50	Left Side	0.045	0.336	0.381	0.035	0.089	0.416	0.470
		0.021	15.50	15.50		0.400	23.50	23.50	Right Side	0.021	0.400	0.421	0.266	0.165	0.687	0.586
		0.492	15.50	15.50		0.045	23.50	23.50	Top Side	0.492	0.045	0.537	0.290	0.506	0.827	1.042
		0.016	15.50	15.50		0.199	23.50	23.50	Bottom Side	0.016	0.199	0.215	0.034	0.066	0.249	0.281
CA_5A-66A	Ant.1	0.668	23.50	23.50	Ant.5	0.201	16.50	16.50	Front Side	0.668	0.201	0.869	0.276	0.325	1.145	1.194
		0.636	23.50	23.50		0.574	16.50	16.50	Back Side	0.636	0.574	1.210	0.283	0.323	1.493	1.533
		0.323	23.50	23.50		0.018	16.50	16.50	Left Side	0.323	0.018	0.341	0.035	0.089	0.376	0.430
		0.341	23.50	23.50		0.126	16.50	16.50	Right Side	0.341	0.126	0.466	0.266	0.165	0.732	0.631
		0.060	23.50	23.50		0.699	16.50	16.50	Top Side	0.060	0.699	0.759	0.290	0.506	1.049	1.265
		0.275	23.50	23.50		0.040	16.50	16.50	Bottom Side	0.275	0.040	0.315	0.034	0.066	0.349	0.381
CA_13A-66A	Ant.1	0.572	23.50	23.50	Ant.5	0.201	16.50	16.50	Front Side	0.572	0.201	0.774	0.276	0.325	1.049	1.098
		0.585	23.50	23.50		0.574	16.50	16.50	Back Side	0.585	0.574	1.158	0.283	0.323	1.441	1.482
		0.336	23.50	23.50		0.018	16.50	16.50	Left Side	0.336	0.018	0.354	0.035	0.089	0.389	0.443
		0.400	23.50	23.50		0.126	16.50	16.50	Right Side	0.400	0.126	0.526	0.266	0.165	0.792	0.691
		0.045	23.50	23.50		0.699	16.50	16.50	Top Side	0.045	0.699	0.744	0.290	0.506	1.034	1.249
		0.199	23.50	23.50		0.040	16.50	16.50	Bottom Side	0.199	0.040	0.239	0.034	0.066	0.273	0.305

Note:

1: The simultaneous transmission combinations of the multiple 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 1.53 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

14 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
750MHz Validation Dipole	Speag	D750V3	1201	2024/09/03	2027/09/03
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
3500MHz Validation Dipole	Speag	D3500V2	1115	2024/09/03	2027/09/03
3700MHz Validation Dipole	Speag	D3700V2	1086	2024/09/05	2027/09/05
3900MHz Validation Dipole	Speag	D3900V2	1059	2024/08/30	2027/08/30
5GHz Validation Dipole	Speag	D5GHzV2	1333	2024/09/04	2027/09/04
Data Acquisition Electronicsr	Speag	DAE4	540	2025/04/21	2026/04/21
E-Field Probe	Speag	EX3DV4	3748	2025/04/24	2026/04/24
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	Keysight	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
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN 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 (%)
2025.6.26	Head	750	21.4	0.88	42.83	0.89	41.94	-1.12	2.12
2025.6.27	Head	835	21.2	0.91	42.37	0.90	41.50	1.11	2.10
2025.6.28	Head	1750	20.9	1.39	39.25	1.37	40.08	1.46	-2.07
2025.6.29	Head	1750	21.4	1.37	39.43	1.37	40.08	0.00	-1.62
2025.6.30	Head	1750	21.4	1.39	39.16	1.37	40.08	1.46	-2.30
2025.7.1	Head	1900	21.1	1.45	38.97	1.40	40.00	3.57	-2.58
2025.7.2	Head	1900	21.0	1.44	39.29	1.40	40.00	2.86	-1.78
2025.6.27	Head	2450	21.2	1.82	38.44	1.80	39.20	1.11	-1.94
2025.7.3	Head	2600	21.4	1.96	38.11	1.96	39.01	0.00	-2.31
2025.7.4	Head	3500	21.5	2.87	38.63	2.91	37.93	-1.37	1.85
2025.7.5	Head	3500	21.7	2.86	38.85	2.91	37.93	-1.72	2.43
2025.7.6	Head	3500	21.1	2.82	39.15	2.91	37.93	-3.09	3.22
2025.7.11	Head	3700	21.3	3.06	38.27	3.12	37.70	-1.92	1.51
2025.7.8	Head	3900	21.2	3.25	37.95	3.32	37.47	-2.11	1.28
2025.7.9	Head	3900	21.4	3.19	38.12	3.32	37.47	-3.92	1.73
2025.7.10	Head	3900	21.4	3.29	37.76	3.32	37.47	-0.90	0.77
2025.7.12	Head	5200	21.2	4.57	35.53	4.66	35.99	-1.93	-1.28
2025.7.12	Head	5800	21.2	5.19	34.50	5.27	35.30	-1.52	-2.27

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).

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.6.26	Head	750	100	0.856	8.56	8.46	1.18
2025.6.27	Head	835	100	0.933	9.33	9.59	-2.71
2025.6.28	Head	1750	100	3.660	36.60	36.50	0.27
2025.6.29	Head	1750	100	3.830	38.30	36.50	4.93
2025.6.30	Head	1750	100	3.920	39.20	36.50	7.40
2025.7.1	Head	1900	100	4.150	41.50	39.90	4.01
2025.7.2	Head	1900	100	4.320	43.20	39.90	8.27
2025.6.27	Head	2450	100	5.010	50.10	52.60	-4.75
2025.7.3	Head	2600	100	5.210	52.10	55.30	-5.79
2025.7.4	Head	3500	100	6.660	66.60	67.20	-0.89
2025.7.5	Head	3500	100	7.280	72.80	67.20	8.33
2025.7.6	Head	3500	100	7.030	70.30	67.20	4.61
2025.7.11	Head	3700	100	6.870	68.70	66.70	3.00
2025.7.8	Head	3900	100	6.870	68.70	67.40	1.93
2025.7.9	Head	3900	100	6.260	62.60	67.40	-7.12
2025.7.10	Head	3900	100	6.570	65.70	67.40	-2.52
2025.7.12	Head	5200	100	7.610	76.10	77.80	-2.19
2025.7.12	Head	5800	100	8.240	82.40	78.50	4.97

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

System Performance Check Data (750MHz)

Date: 2025/6/26

Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.882$ S/m; $\epsilon_r = 42.829$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(9.14, 9.14, 9.14); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 750/Area Scan (71x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.17 W/kg

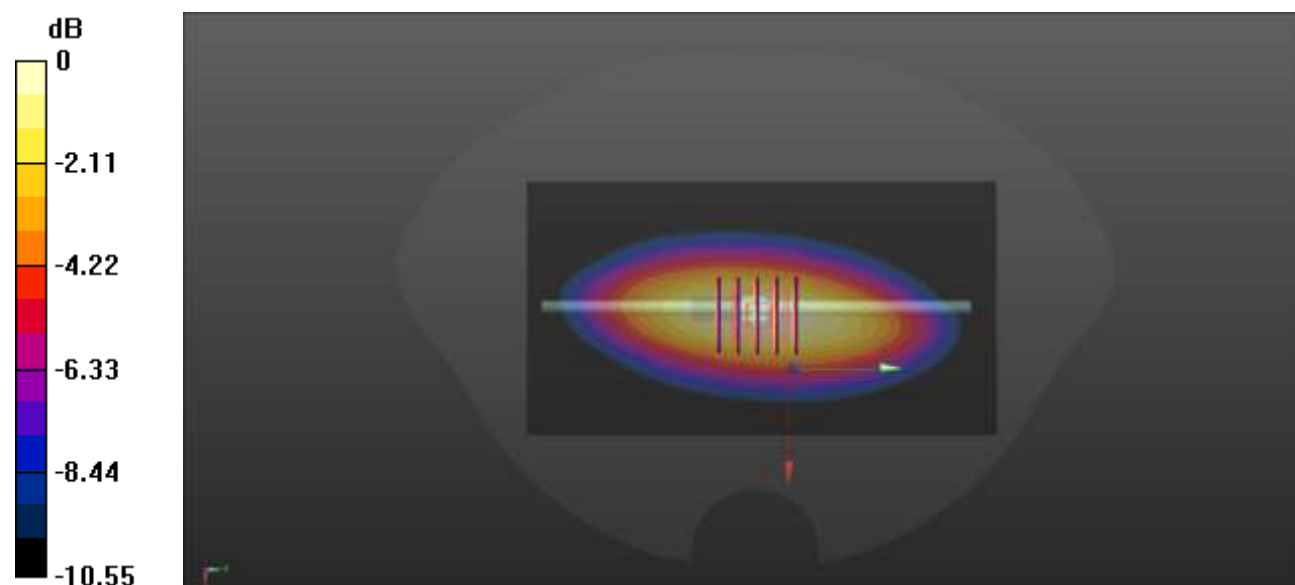
CW 750/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 31.27 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.856 W/kg; SAR(10 g) = 0.561 W/kg

Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg

System Performance Check Data (835MHz)

Date: 2025/6/27

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.912 \text{ S/m}$; $\epsilon_r = 42.37$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(8.74, 8.74, 8.74); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 835/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.28 W/kg

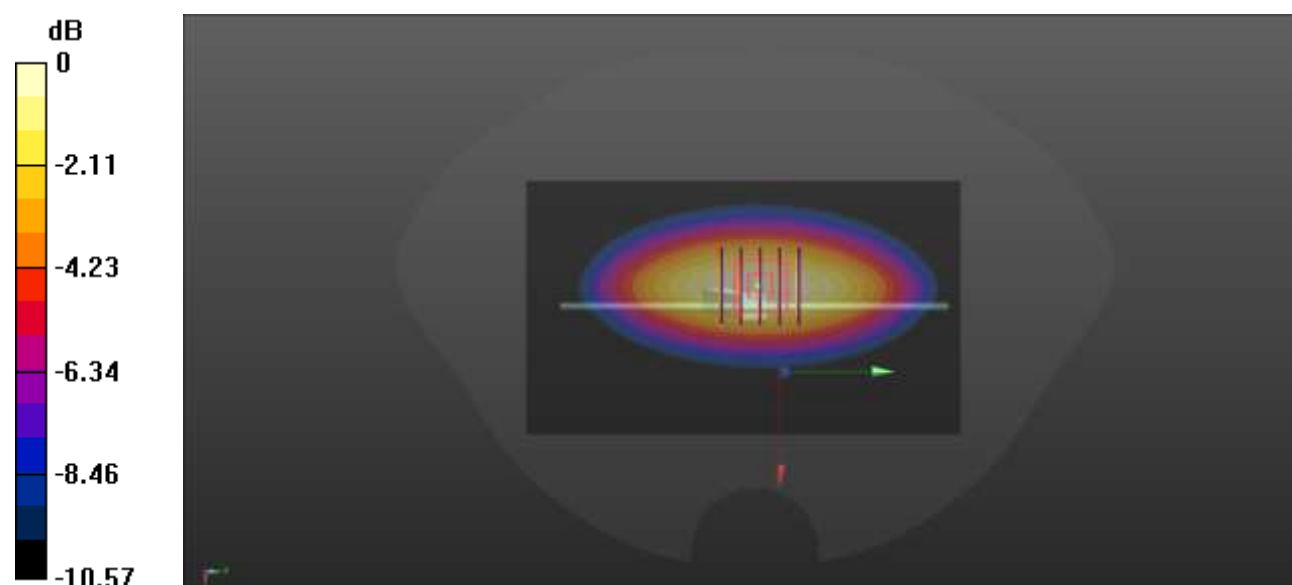
CW 835/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.58 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.933 W/kg; SAR(10 g) = 0.610 W/kg

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg

System Performance Check Data (1750MHz)

Date: 2025/6/28

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 39.245$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0°C Liquid Temperature: 20.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(7.63, 7.63, 7.63); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 1750/Area Scan (61x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 5.74 W/kg

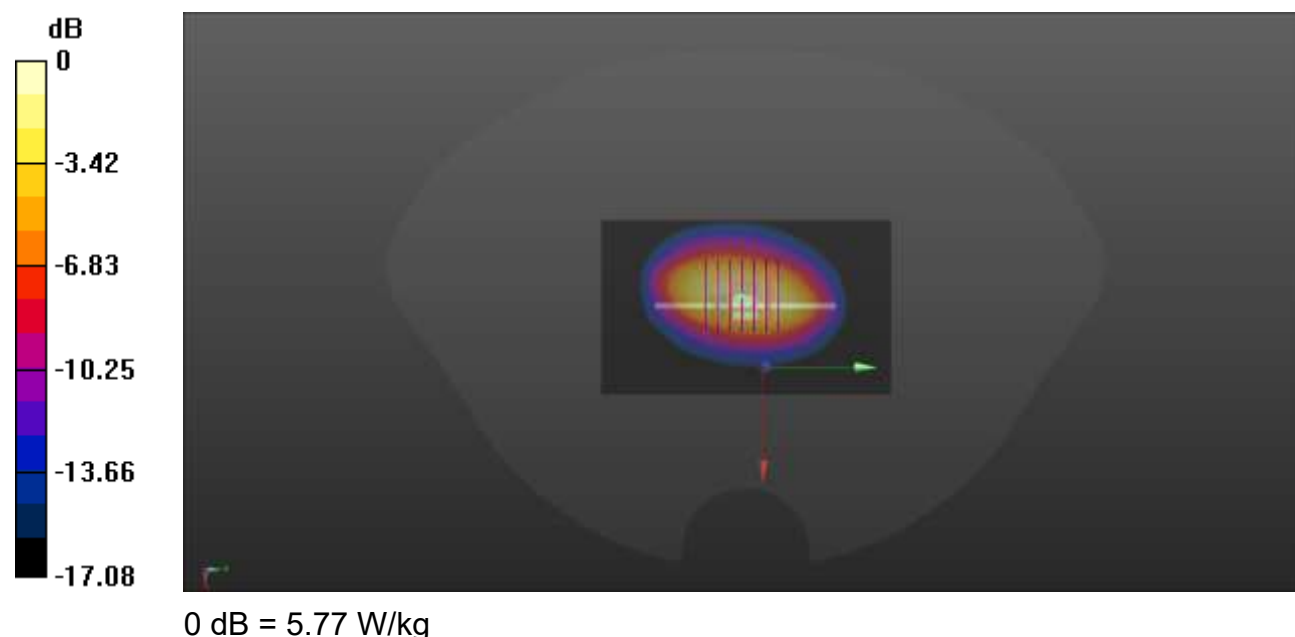
CW 1750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 49.72 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 7.02 W/kg

SAR(1 g) = 3.66 W/kg; SAR(10 g) = 1.92 W/kg

Maximum value of SAR (measured) = 5.77 W/kg



System Performance Check Data (1750MHz)

Date: 2025/6/29

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.369$ S/m; $\epsilon_r = 39.428$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(7.63, 7.63, 7.63); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 1750/Area Scan (51x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 6.18 W/kg

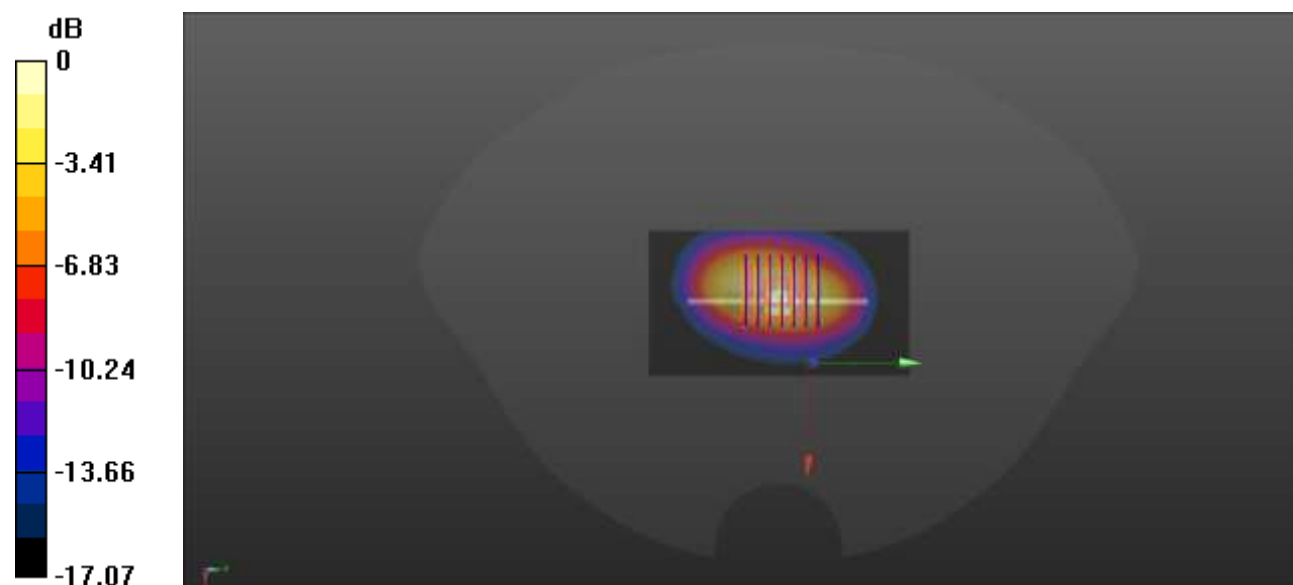
CW 1750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 51.77 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.29 W/kg

SAR(1 g) = 3.83 W/kg; SAR(10 g) = 2.02 W/kg

Maximum value of SAR (measured) = 6.01 W/kg



0 dB = 6.01 W/kg

System Performance Check Data (1750MHz)

Date: 2025/6/30

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.391$ S/m; $\epsilon_r = 39.157$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(7.63, 7.63, 7.63); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 1750/Area Scan (51x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 6.31 W/kg

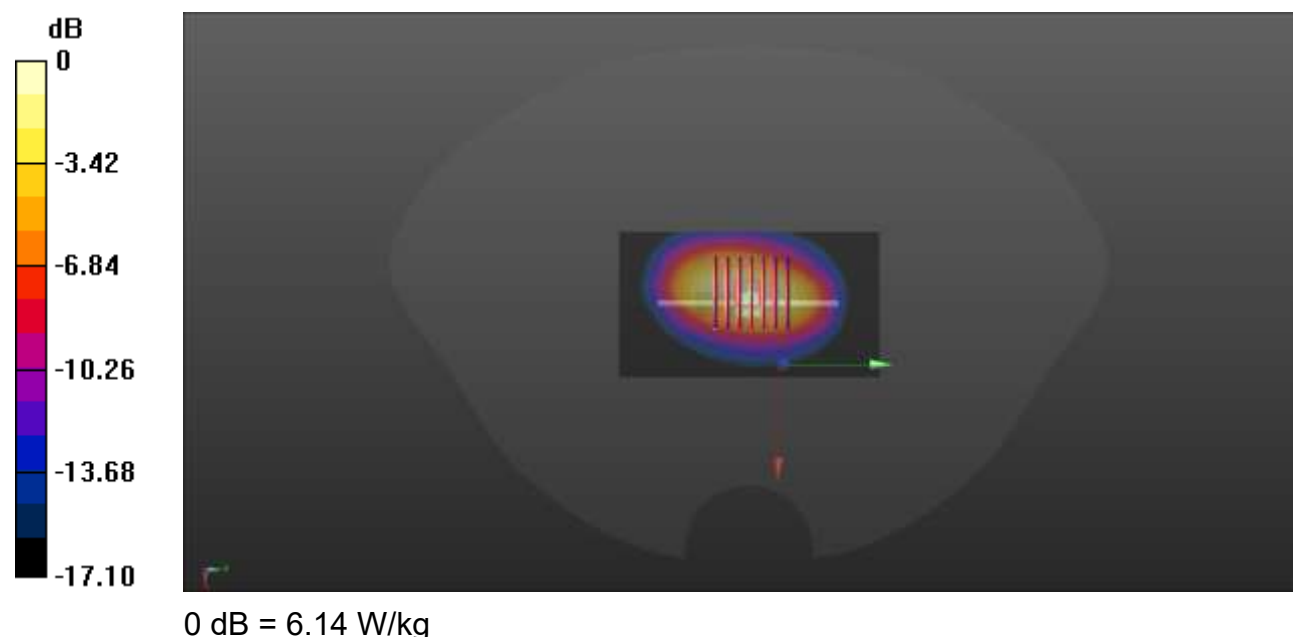
CW 1750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 52.50 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 7.45 W/kg

SAR(1 g) = 3.92 W/kg; SAR(10 g) = 2.06 W/kg

Maximum value of SAR (measured) = 6.14 W/kg



System Performance Check Data (1900MHz)

Date: 2025/7/1

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 38.974$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4°C Liquid Temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(7.3, 7.3, 7.3); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 1900/Area Scan (61x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 6.71 W/kg

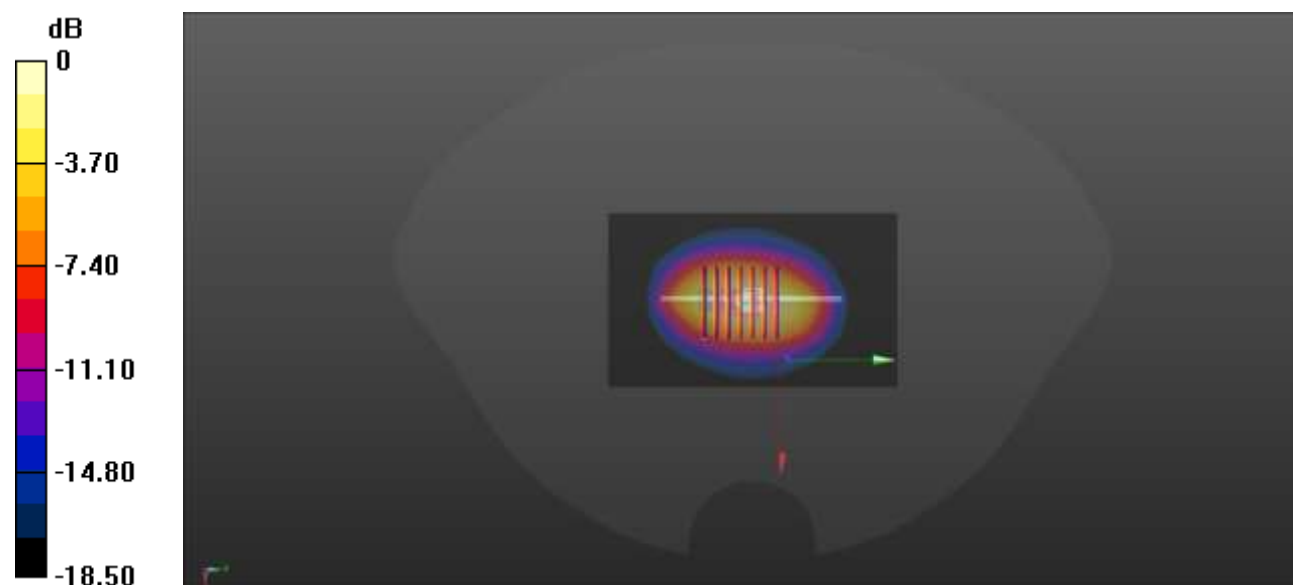
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 56.16 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 7.99 W/kg

SAR(1 g) = 4.15 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 6.56 W/kg



System Performance Check Data (1900MHz)

Date: 2025/7/2

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.427$ S/m; $\epsilon_r = 39.292$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(7.3, 7.3, 7.3); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 1900/Area Scan (61x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 6.79 W/kg

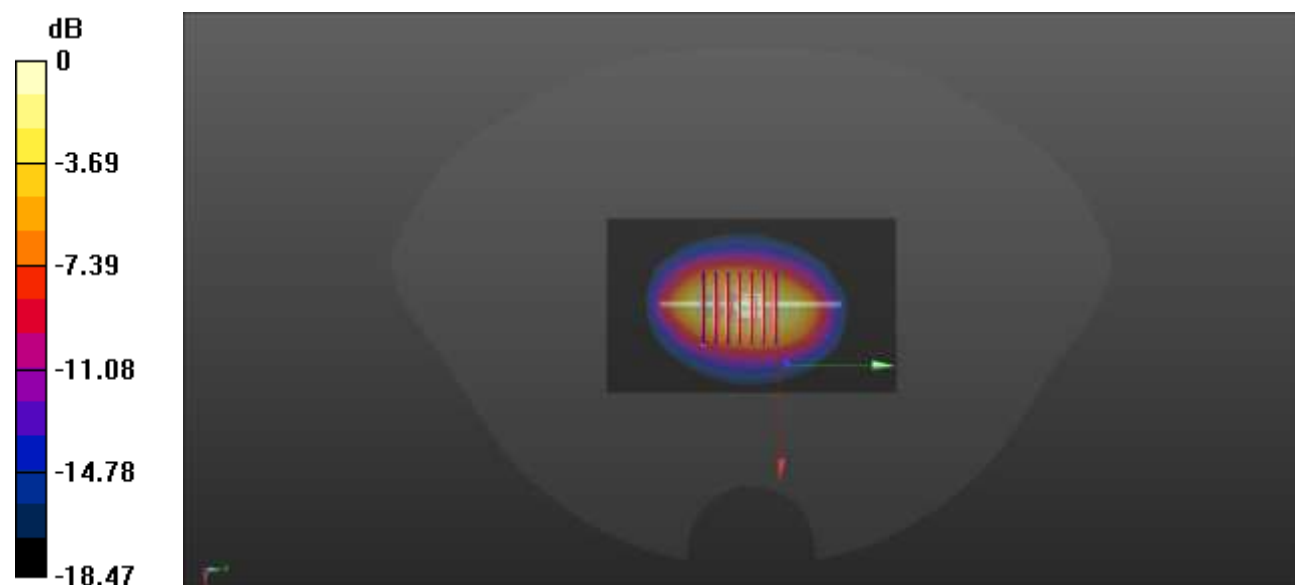
CW 1900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 57.22 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 8.25 W/kg

SAR(1 g) = 4.32 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 6.83 W/kg



0 dB = 6.83 W/kg

System Performance Check Data (2450MHz)

Date: 2025/6/27

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ S/m; $\epsilon_r = 38.441$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.9, 6.9, 6.9); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 2450/Area Scan (71x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 8.77 W/kg

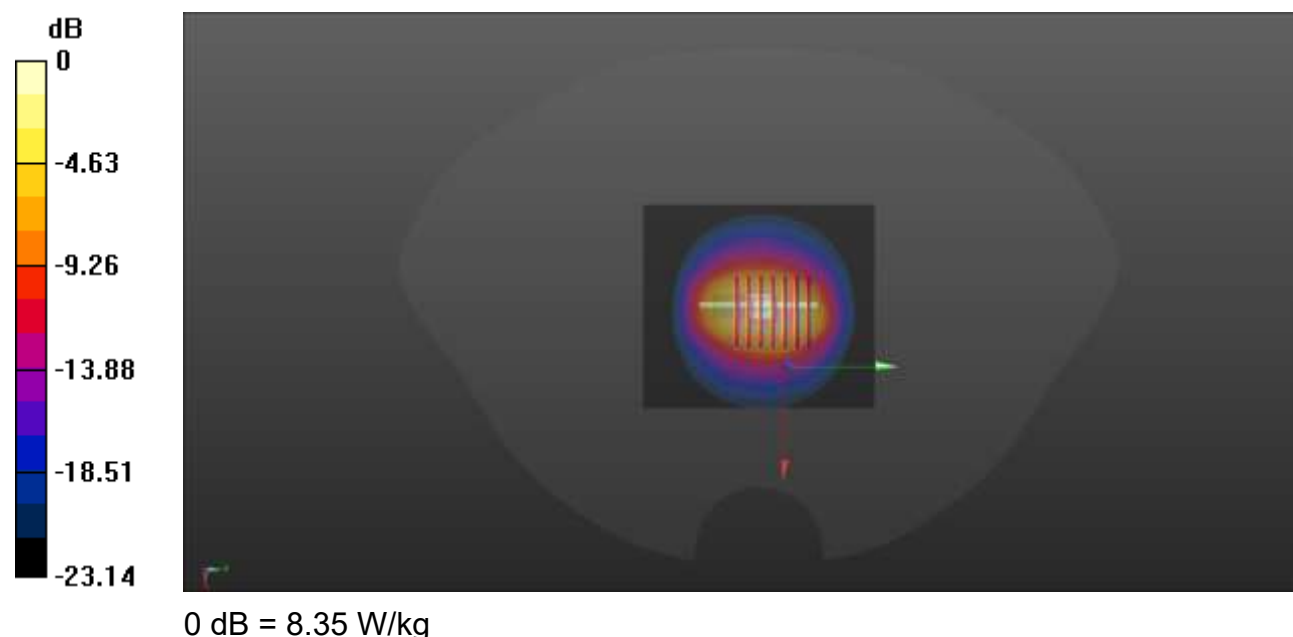
CW 2450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 56.04 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 5.01 W/kg; SAR(10 g) = 2.3 W/kg

Maximum value of SAR (measured) = 8.35 W/kg



System Performance Check Data (2600MHz)

Date: 2025/7/3

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.96$ S/m; $\epsilon_r = 38.113$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.72, 6.72, 6.72); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 2600/Area Scan (71x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 9.27 W/kg

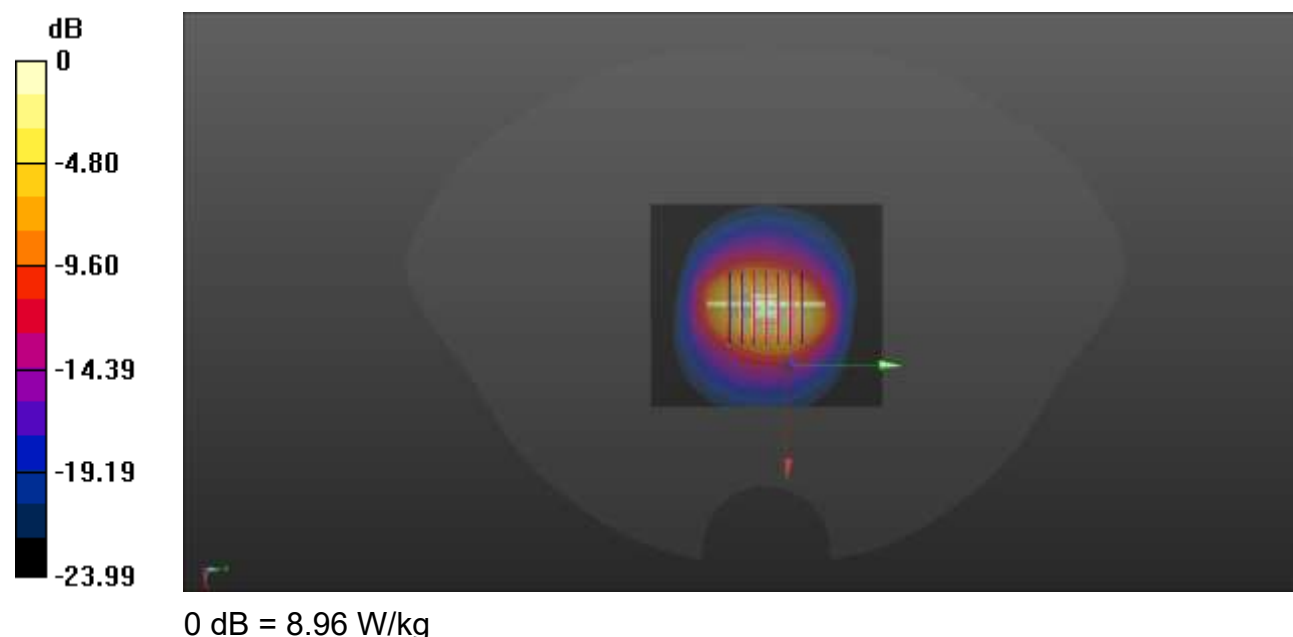
CW 2600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 55.38 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 5.21 W/kg; SAR(10 g) = 2.32 W/kg

Maximum value of SAR (measured) = 8.96 W/kg



System Performance Check Data (3500MHz)

Date: 2025/7/4

Communication System Band: D3500 (3500.0 MHz); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.872$ S/m; $\epsilon_r = 38.634$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6°C Liquid Temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.26, 6.26, 6.26); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 3500/Area Scan (71x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 8.30 W/kg

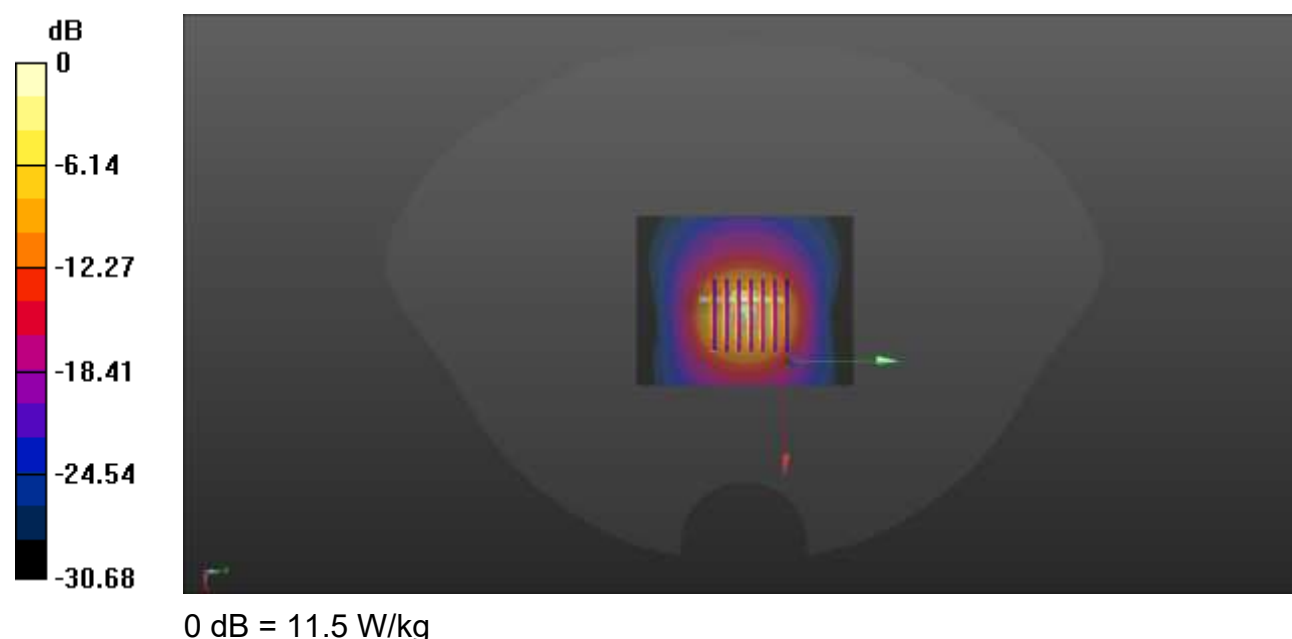
CW 3500/Zoom Scan (7x7x8)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm

Reference Value = 45.41 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 6.66 W/kg; SAR(10 g) = 2.52 W/kg

Maximum value of SAR (measured) = 11.5 W/kg



System Performance Check Data (3500MHz)

Date: 2025/7/5

Communication System Band: D3500 (3500.0 MHz); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.856$ S/m; $\epsilon_r = 38.847$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.7°C Liquid Temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.26, 6.26, 6.26); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 3500/Area Scan (71x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 8.95 W/kg

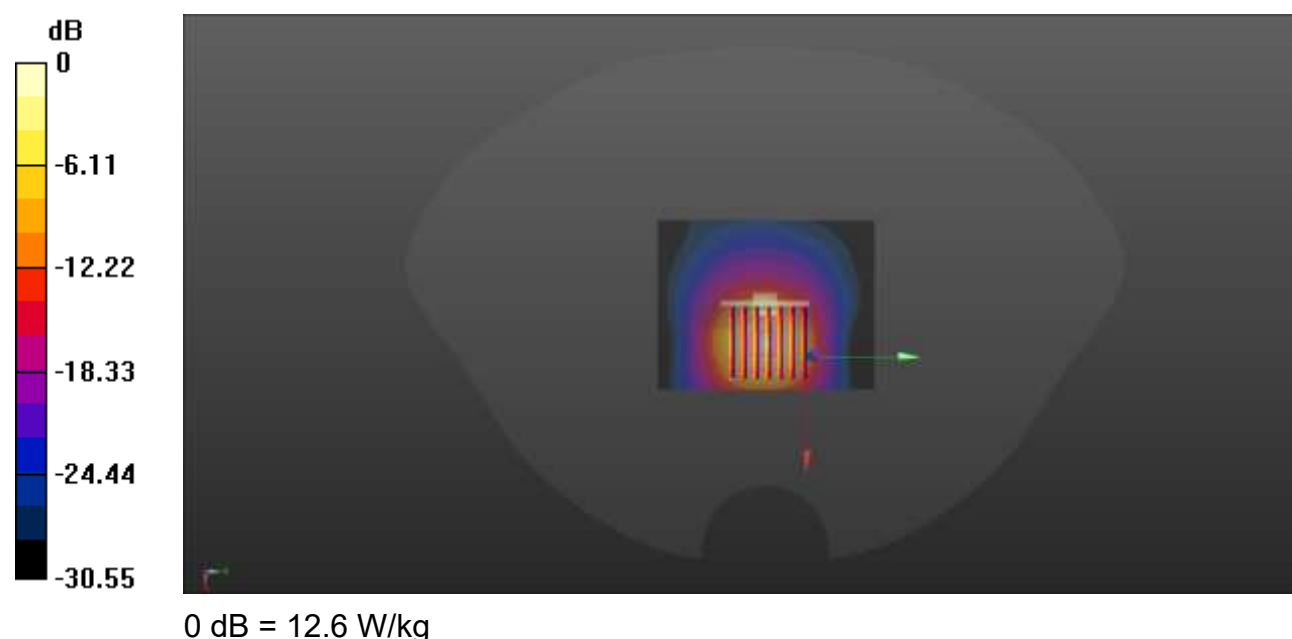
CW 3500/Zoom Scan (7x7x8)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm

Reference Value = 21.19 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 7.28 W/kg; SAR(10 g) = 2.75 W/kg

Maximum value of SAR (measured) = 12.6 W/kg



System Performance Check Data (3500MHz)

Date: 2025/7/6

Communication System Band: D3500 (3500.0 MHz); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.817$ S/m; $\epsilon_r = 39.152$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4°C Liquid Temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.26, 6.26, 6.26); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 3500/Area Scan (71x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 8.75 W/kg

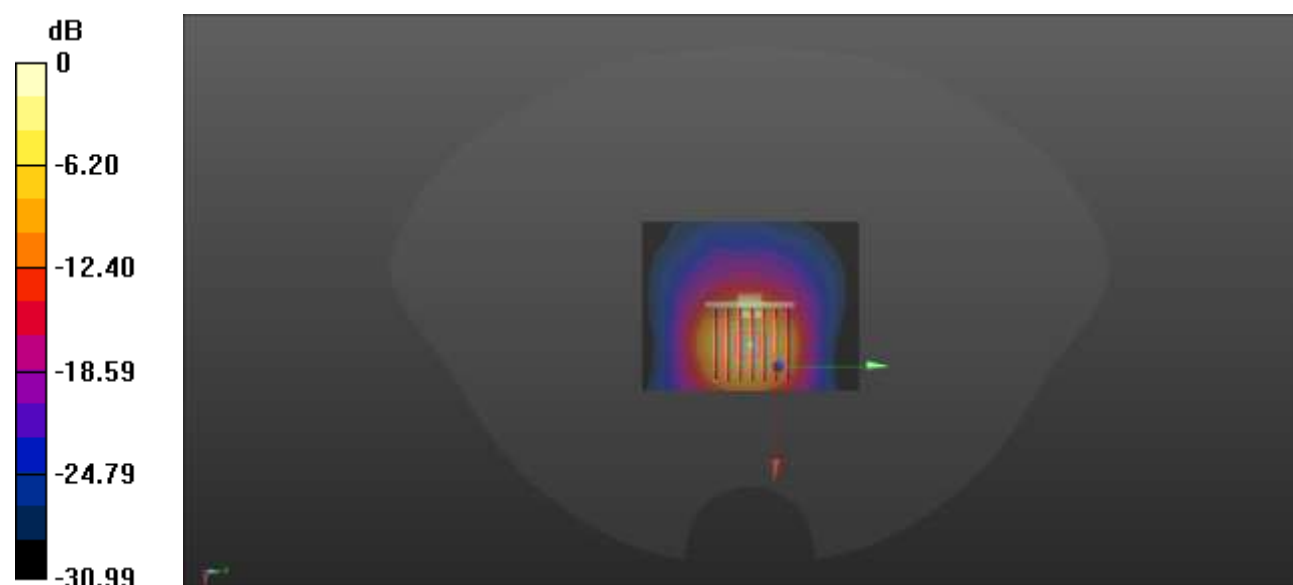
CW 3500/Zoom Scan (7x7x8)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm

Reference Value = 21.05 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 7.03 W/kg; SAR(10 g) = 2.66 W/kg

Maximum value of SAR (measured) = 12.2 W/kg



0 dB = 12.2 W/kg

System Performance Check Data (3700MHz)

Date: 2025/7/11

Communication System Band: D3700 (3700.0 MHz); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.055$ S/m; $\epsilon_r = 38.271$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.05, 6.05, 6.05); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 3700/Area Scan (71x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 8.64 W/kg

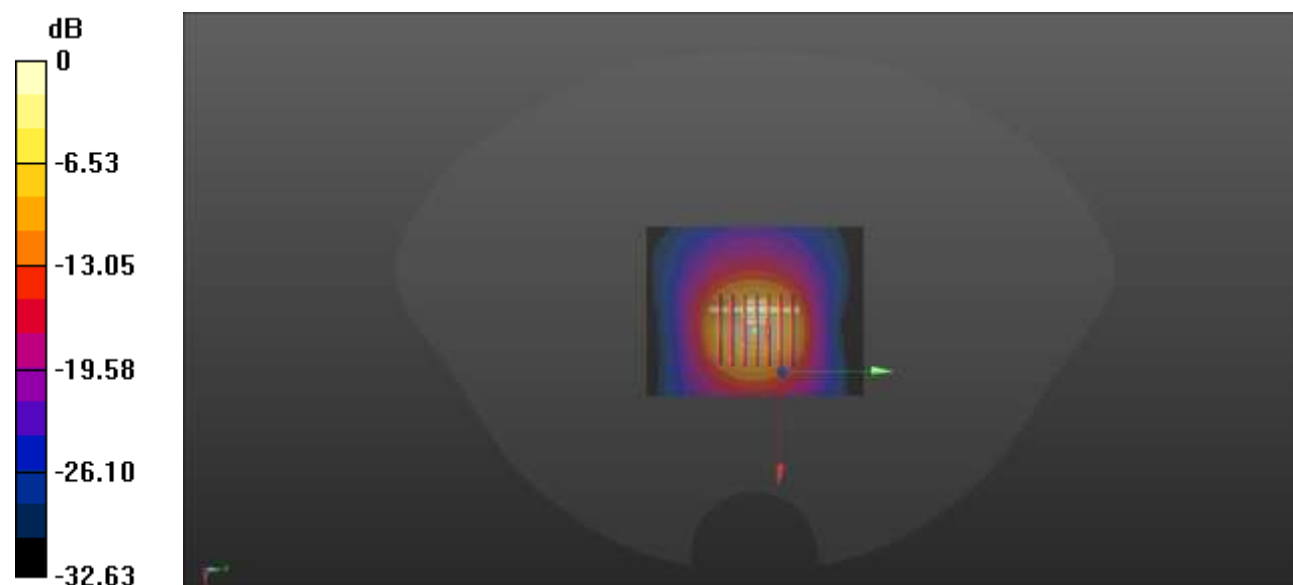
CW 3700/Zoom Scan (7x7x8)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm

Reference Value = 40.27 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 6.87 W/kg; SAR(10 g) = 2.53 W/kg

Maximum value of SAR (measured) = 12.1 W/kg



0 dB = 12.1 W/kg

System Performance Check Data (3900MHz)

Date: 2025/7/8

Communication System Band: D3900 (3900.0 MHz); Frequency: 3900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3900$ MHz; $\sigma = 3.245$ S/m; $\epsilon_r = 37.948$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(5.98, 5.98, 5.98); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 3900/Area Scan (71x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 8.62 W/kg

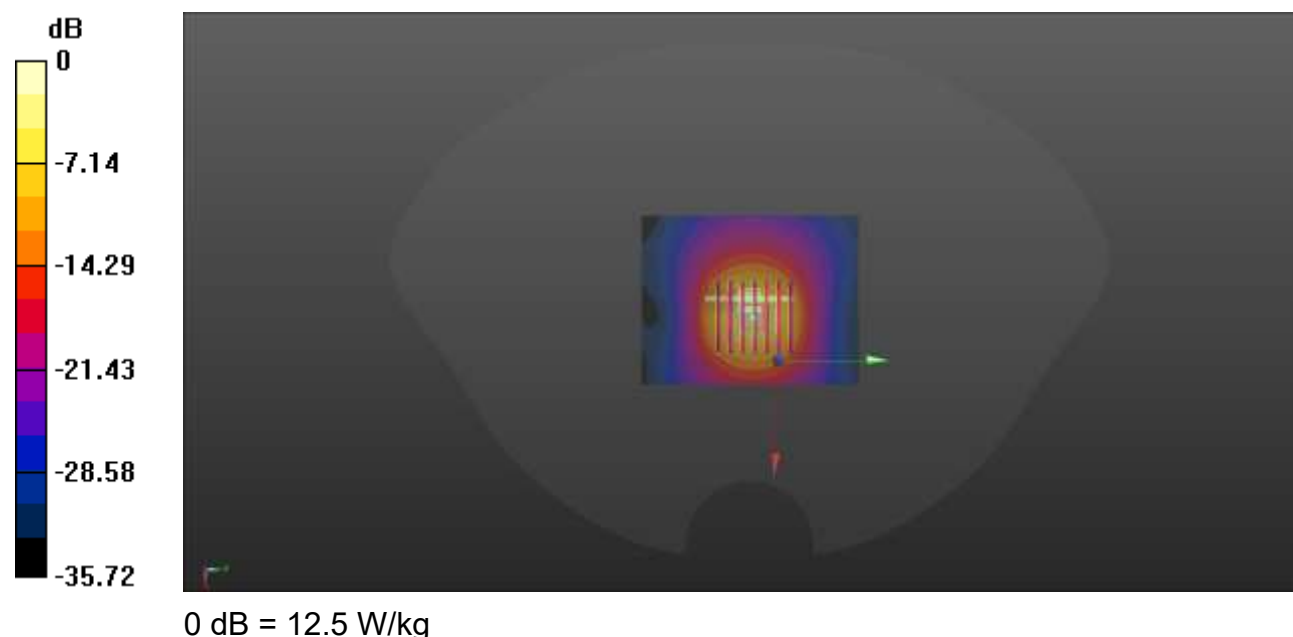
CW 3900/Zoom Scan (7x7x8)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm

Reference Value = 40.87 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 19.6 W/kg

SAR(1 g) = 6.87 W/kg; SAR(10 g) = 2.41 W/kg

Maximum value of SAR (measured) = 12.5 W/kg



System Performance Check Data (3900MHz)

Date: 2025/7/9

Communication System Band: D3900 (3900.0 MHz); Frequency: 3900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3900$ MHz; $\sigma = 3.192$ S/m; $\epsilon_r = 38.121$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(5.98, 5.98, 5.98); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 3900/Area Scan (71x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 7.84 W/kg

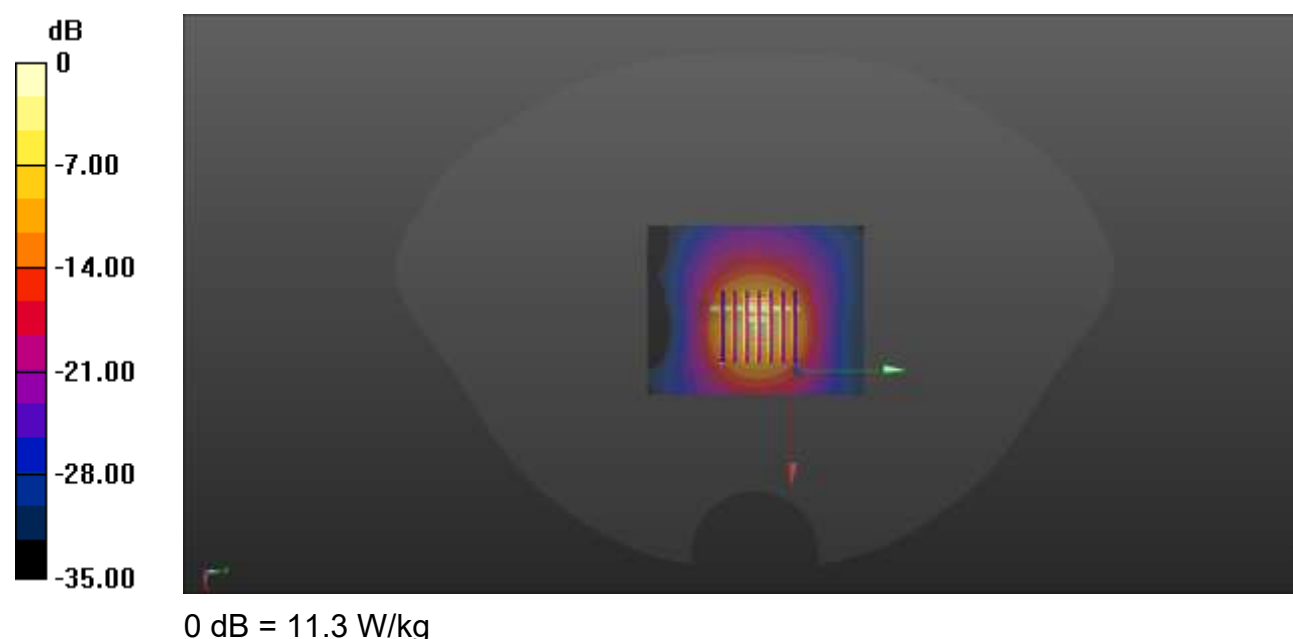
CW 3900/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 38.63 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 6.26 W/kg; SAR(10 g) = 2.19 W/kg

Maximum value of SAR (measured) = 11.3 W/kg



System Performance Check Data (3900MHz)

Date: 2025/7/10

Communication System Band: D3900 (3900.0 MHz); Frequency: 3900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3900$ MHz; $\sigma = 3.285$ S/m; $\epsilon_r = 37.765$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(5.98, 5.98, 5.98); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 3900/Area Scan (71x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 8.21 W/kg

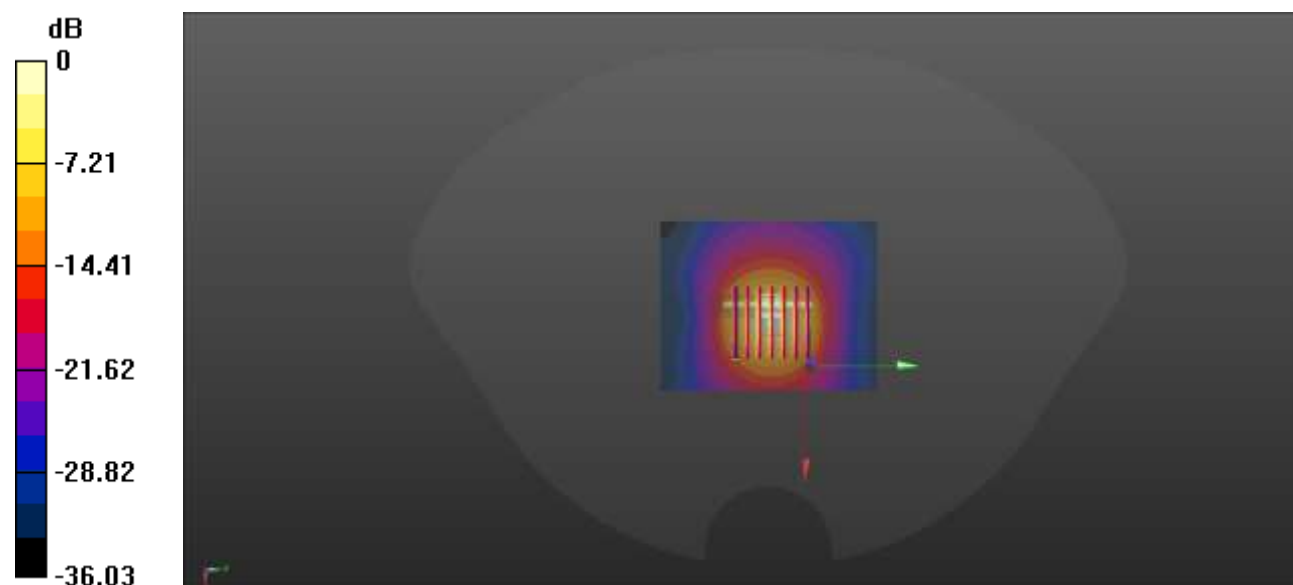
CW 3900/Zoom Scan (7x7x8)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm

Reference Value = 39.63 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 6.57 W/kg; SAR(10 g) = 2.3 W/kg

Maximum value of SAR (measured) = 11.8 W/kg



0 dB = 11.8 W/kg

System Performance Check Data (5200MHz)

Date: 2025/7/12

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.572$ S/m; $\epsilon_r = 35.525$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(5, 5, 5); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 5200/Area Scan (61x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 16.0 W/kg

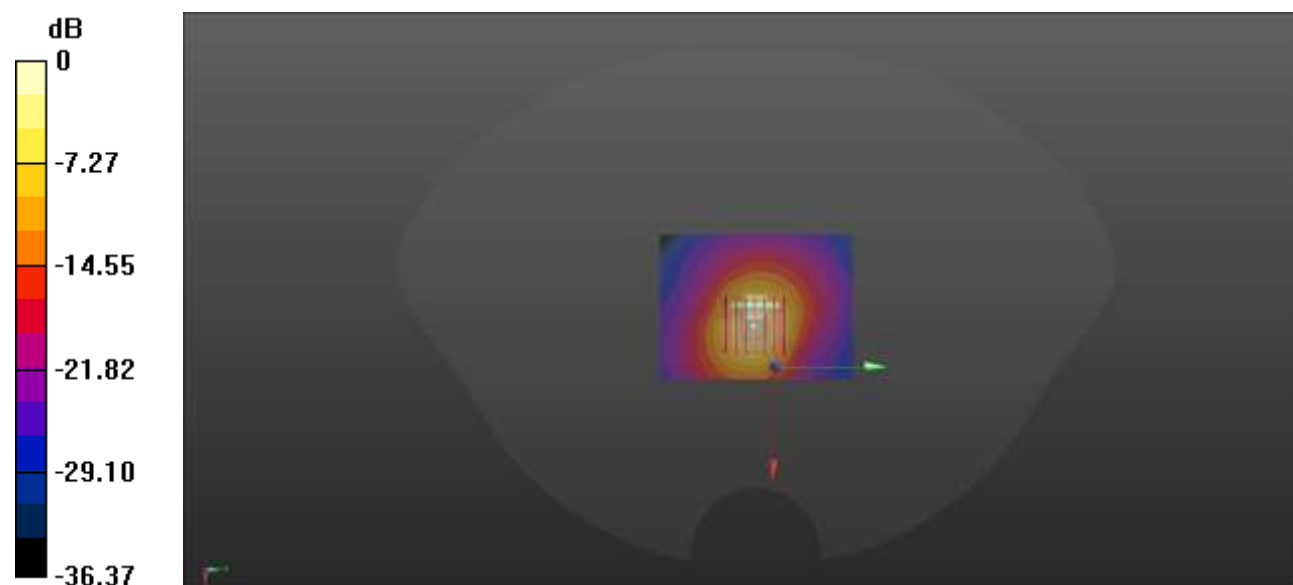
CW 5200/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 29.68 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 32.0 W/kg

SAR(1 g) = 7.61 W/kg; SAR(10 g) = 2.17 W/kg

Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kg

System Performance Check Data (5800MHz)

Date: 2025/7/12

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.192$ S/m; $\epsilon_r = 34.499$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5°C Liquid Temperature: 21.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(4.41, 4.41, 4.41); Calibrated: 2025/4/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn540; Calibrated: 2025/4/21
- Phantom: Twin-SAM Right V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1857
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

CW 5800/Area Scan (81x101x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 17.5 W/kg

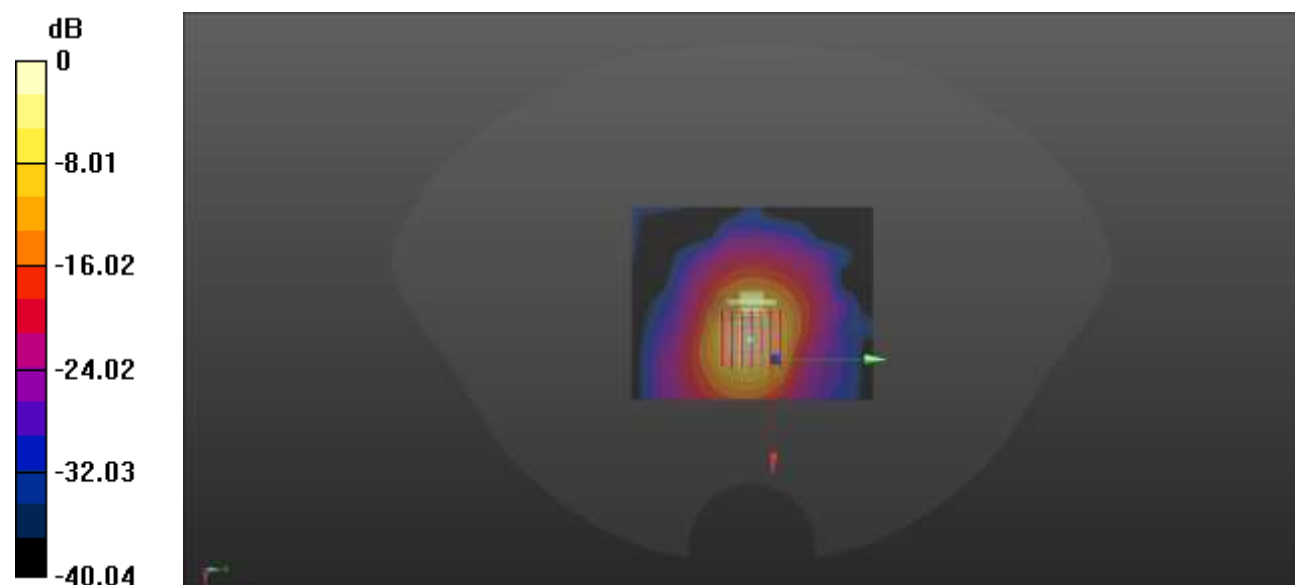
CW 5800/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 16.00 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 39.5 W/kg

SAR(1 g) = 8.24 W/kg; SAR(10 g) = 2.31 W/kg

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kg

ANNEX C TEST DATA

Please refer the document “BL-SH2550525-ATD.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2550525-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SH2550525-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SH2550525-AC.pdf”.

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--END OF REPORT--