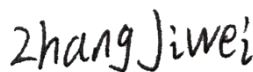


TEST REPORT

Applicant: Xiaomi Communications Co., Ltd.
Address: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Equipment Type: Mobile Phone
Model Name: 24117RN76L
Brand Name: Redmi
FCC ID: 2AFZZRN76L
Test Standard: FCC 47 CFR Part 2.1093
(refer to section 3.1)
Maximum SAR: Head (1 g@0mm): 1.04 W/kg
Body-worn (1 g@15mm): 0.92 W/kg
Hotspot (1 g@10mm): 1.09 W/kg
Specific (10 g@0mm): 2.57 W/kg
Sample Arrival Date: Sep. 12, 2024
Test Date: Sep. 13, 2024 - Sep. 30, 2024
Date of Issue: Oct. 17, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Jiwei**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History		
Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Oct. 17, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input checked="" type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

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	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	24117RN76L
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	135100007
Software Version	Xiaomi HyperOS 1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S28, S21, S22, S19, S20
IMEI Number	S28: IMEI1:862441070037869; IMEI2:862441070037877
	S21: IMEI1:862441070039444; IMEI2:862441070039451
	S22: IMEI1:862441070038743; IMEI2:862441070038750
	S19: IMEI1:862441070044923; IMEI2:862441070044931
	S20: IMEI1:862441070038404; IMEI2:862441070038412
Note1: EUT ID is used to identify the test sample in the lab internally.	
Note2: It is performed to test SAR with the EUT S21, S22, S19, S20 and conducted power with the EUT S28.	
Note3: The product supports alternative RF components, the full test was performed with main components. And used replacement component's EUT(EUT S19,S20) to verify SAR in the main components worst case.	

2.4 Ancillary Equipment

Please refer the document "BL-SZ2480911-AW EUT external photo.pdf".

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA/HSPA+ Band 1/2/4/5/8 4G Network FDD LTE Band 1/2/3/4/5/7/8/12/13/17/20/26/28/66 TDD LTE Band 38/40/41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) GPS, GLONASS, Galileo, BDS, FM Receiver
Note: The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA and LTE, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.	

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

Operating Mode	GSM, WCDMA, LTE, 2.4G WIFI, 5G WIFI, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 26	TX: 814 ~ 824 MHz	RX: 859 ~ 869 MHz
		TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 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			
Bluetooth	2402 ~ 2480 MHz		
	2402 ~ 2480 MHz		
Antenna Type	WWAN: PIFA Antenna WIFI: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	N/A		

Hotspot Function	Support	
Power Reduction	Support	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	<input checked="" type="checkbox"/> Production unit	<input type="checkbox"/> Identical prototype
<p>Note:</p> <ol style="list-style-type: none"> 1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for held-to-ear exposure conditions. 2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for near to body exposure conditions. 3. The reduction power details please refer section 8.6. 		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

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

3.2 Device Category and SAR Limit

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

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

Table of Exposure Limits:

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

NOTE:

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

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

3.3 Test Result Summary

3.3.1 Highest SAR Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)				Maximum Report SAR (W/kg)			
		Head (0mm)	Body-worn (15mm)	Hotspot (10mm)	Specific (0mm)	Head (0mm)	Body-worn (15mm)	Hotspot (10mm)	Specific (0mm)
		1g SAR		10g SAR		1g SAR		10g SAR	
PCE	GSM 850	0.94	0.29	0.43	/	1.04	0.92	1.09	2.57
	GSM 1900	0.95	0.59	0.92	2.46				
	WCDMA Band 2	1.04	0.89	0.90	2.57				
	WCDMA Band 4	1.03	0.66	1.09	2.22				
	WCDMA Band 5	0.96	0.34	0.59	/				
	LTE Band 2	0.97	0.92	1.09	2.33				
	LTE Band 4	0.90	0.73	1.06	2.49				
	LTE Band 5	0.91	0.29	0.54	/				
	LTE Band 7	1.00	0.41	0.68	1.74				
	LTE Band 12	0.73	0.28	0.33	/				
	LTE Band 13	0.91	0.26	0.37	/				
	LTE Band 17	0.76	0.29	0.33	/				
	LTE Band 26	0.95	0.22	0.49	/				
	LTE Band 66	0.79	0.70	1.02	2.36				
	LTE Band 38	0.98	0.41	1.00	1.98				
LTE Band 41	1.03	0.41	0.99	1.74					
DTS	2.4G WIFI	0.96	0.17	0.33	0.94				
NII	5.2G WIFI	/	/	0.35	/				
	5.3G WIFI	0.85	0.25	/	0.55				
	5.6G WIFI	1.03	0.34	/	0.75				
	5.8G WIFI	0.98	0.30	0.45	0.93				
DSS	Bluetooth	0.23	0.04	0.08	0.23				
Limit (W/kg)		1.6		4.0		1.6		4.0	
Verdict		PASS							

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)			
	Head 1g (0mm)	Body-worn 1g (0mm)	Hotspot 1g (10mm)	Specific 10g (0mm)
PCE	1.55	1.30	1.59	3.70
DTS	1.52	1.10	1.33	3.35
NII	1.55	1.30	1.59	3.70
DSS	1.55	1.30	1.59	3.70
Limit (W/Kg)	1.60	1.60	1.60	4.00
Verdict	Pass			
Note: The highest simultaneous SAR please refer section 13.2				

3.4 Test Uncertainty

According to KDB 865664 D01, When the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 1.09 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

The maximum 10 g SAR for the EUT in this report is 2.57 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

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:

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

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

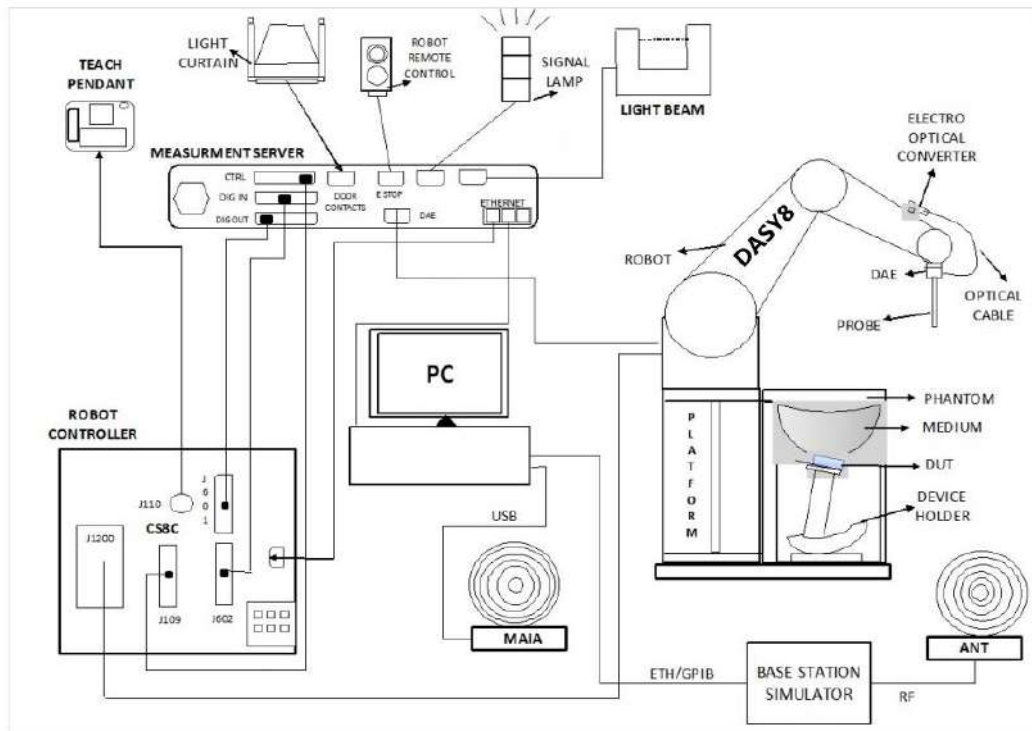
$$\mathbf{SAR} = \frac{\sigma E^2}{\rho}$$

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 DASY 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 DASY 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-SN: 7510 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

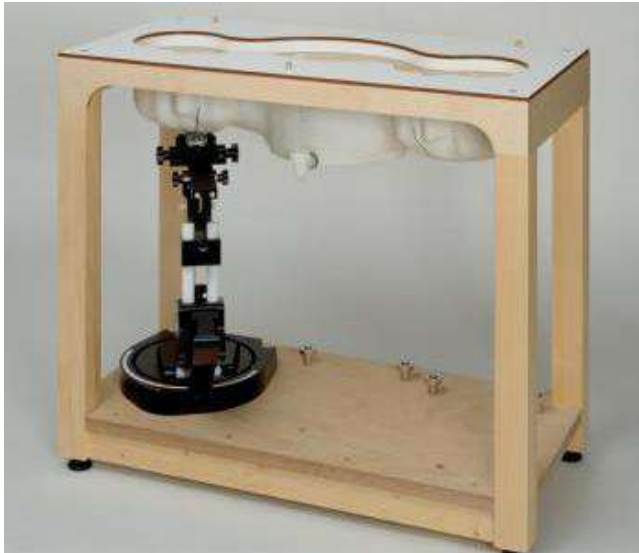
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



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

4.2.5 Phantoms

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



- Left head
- Right head
- Flat phantom

Photo of Phantom SN1859



Serial Number	Material	Length	Height
SN 1859 SAM	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

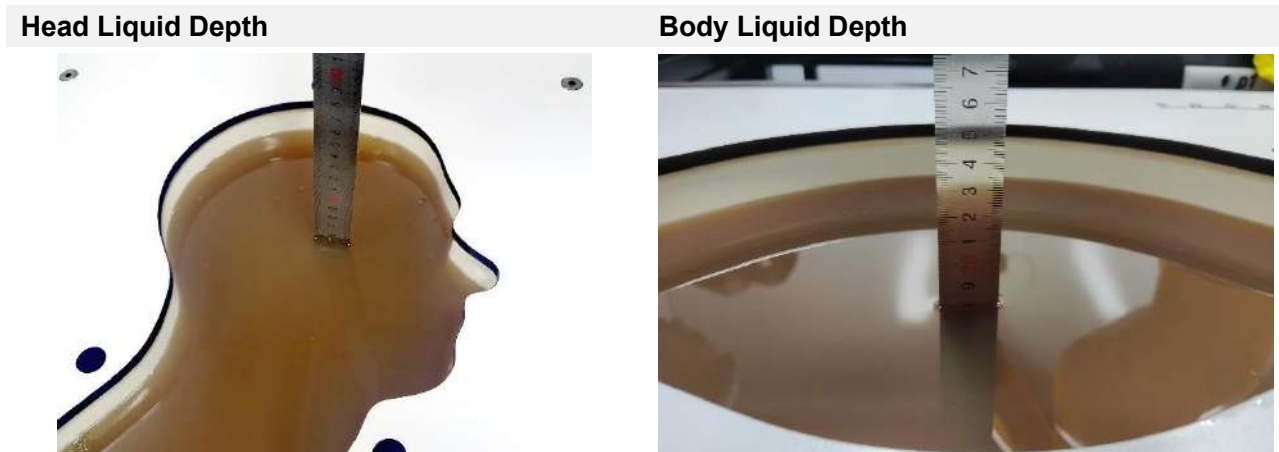
The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for 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%.



The following table gives the recipes for tissue simulating liquid.

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

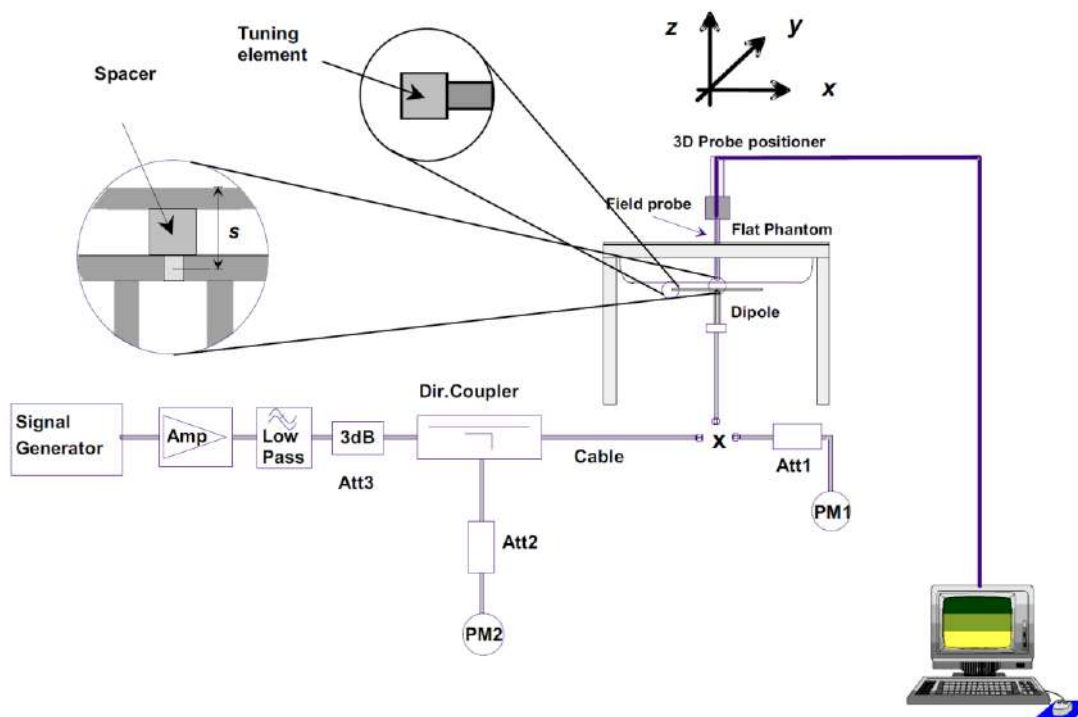
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

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

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 TEST POSITION CONFIGURATIONS

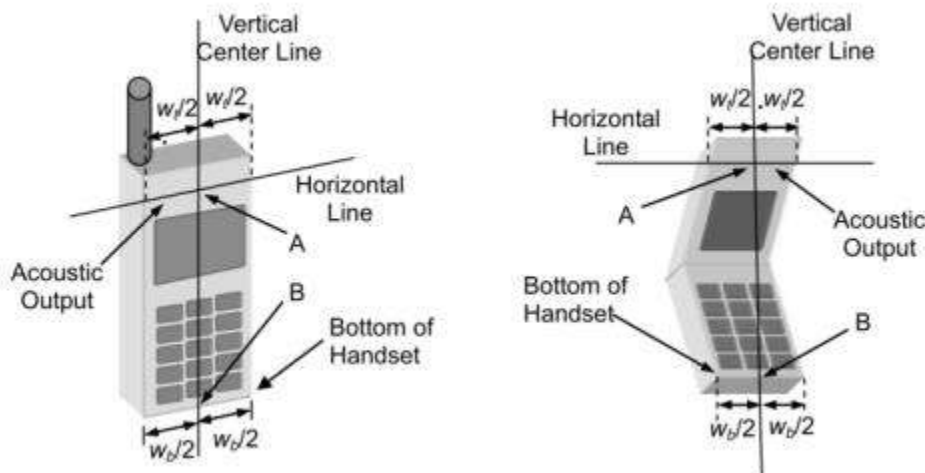
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

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

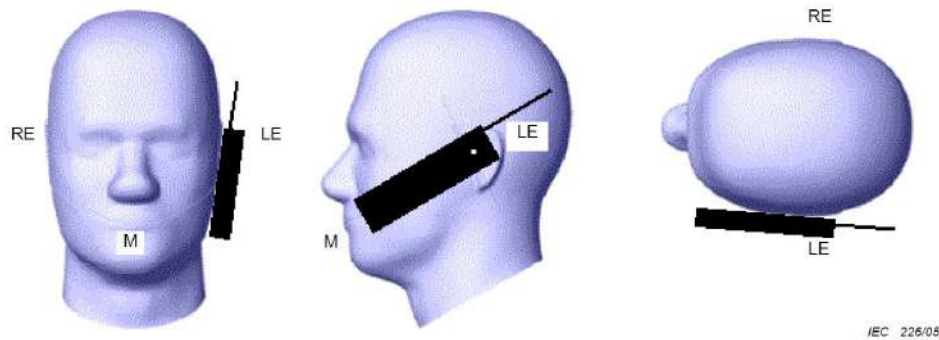
6.1.1 Two Imaginary Lines on the Handset

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



6.1.2 Cheek Position

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



6.1.3 Tilted Position

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

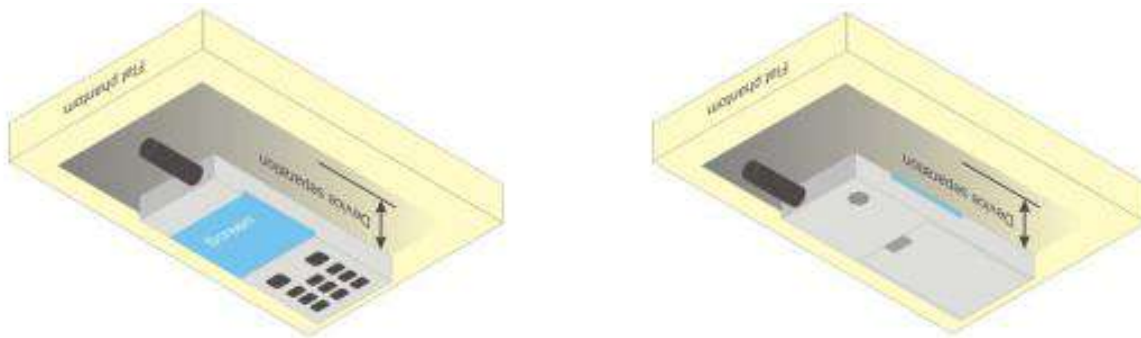


6.2 Body-worn Position Conditions

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

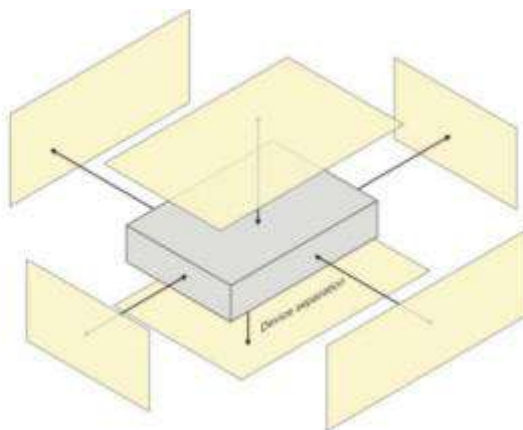
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

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



6.3 Hotspot Mode Exposure Position Conditions

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



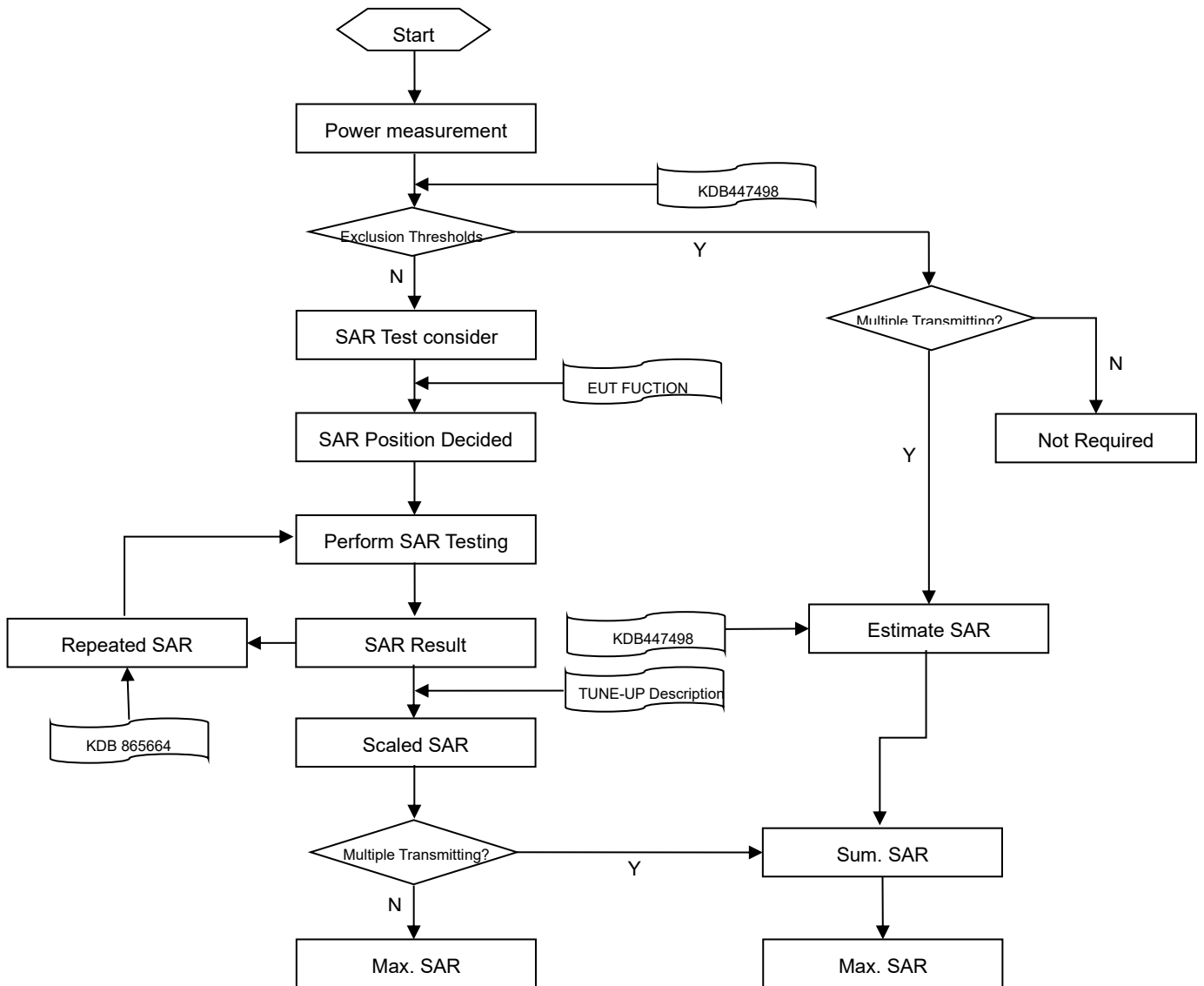
6.4 Product Specific 10g Exposure Consideration

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

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

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

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

		≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)	≤ 5 mm	3–4 GHz: ≤ 4 mm
			4–5 GHz: ≤ 3 mm
			5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm
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:

- δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
- * When zoom scan is required and the 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.

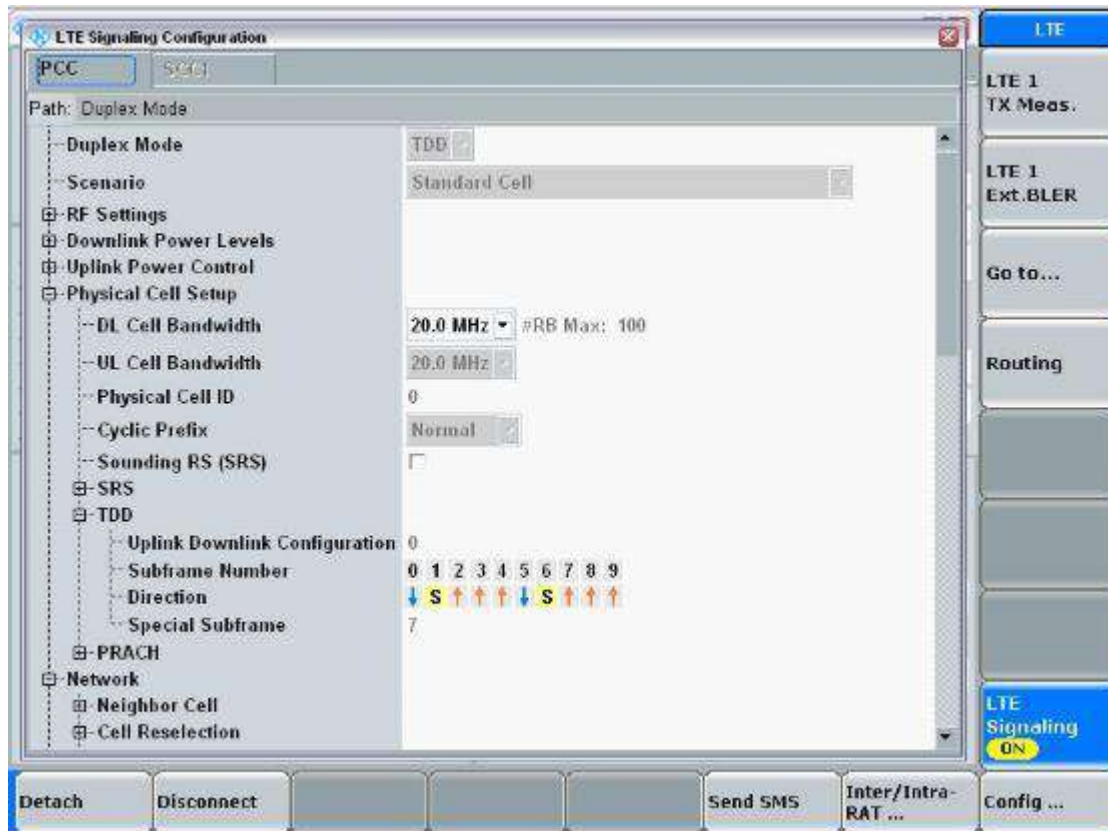
7.4 Area & Zoom Scan Procedure

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.

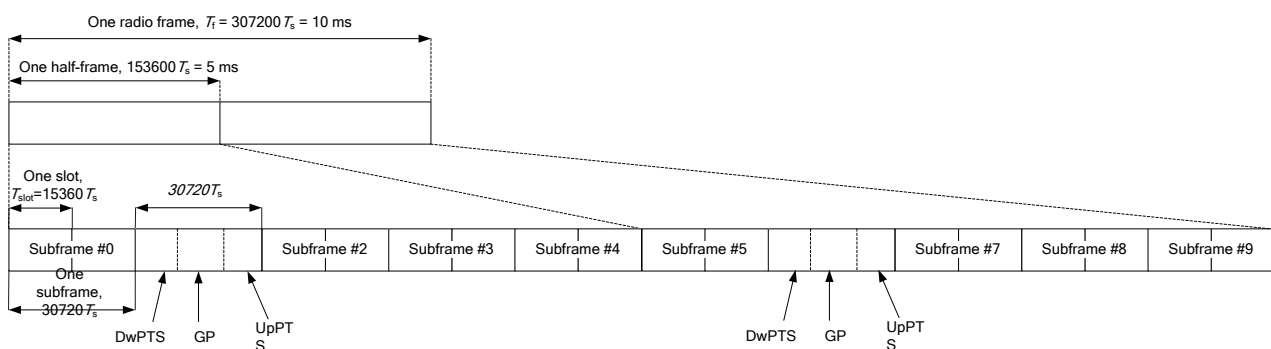
When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

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 OUPUT POWER

8.1 GSM

Please refer the document “BL-SZ2480911-AP Power List.pdf”.

8.2 WCDMA

Please refer the document “BL-SZ2480911-AP Power List.pdf”.

8.3 LTE

Please refer the document “BL-SZ2480911-AP Power List.pdf”.

8.4 WIFI

8.4.1 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	13.46	15.00	No
		2	2417	15.53	16.50	No
		3	2422	11.46	13.00	No
		4	2427	16.19	17.00	No
		6	2437	16.21	17.00	Yes
		9	2452	16.10	17.00	No
		10	2457	13.38	15.00	No
		11	2462	13.22	14.00	No
	802.11g	1	2412	12.47	14.00	No
		2	2417	15.50	16.50	No
		3	2422	12.17	13.00	No
		4	2427	17.96	19.00	Yes
		6	2437	18.20	19.00	Yes
		9	2452	17.99	19.00	Yes
		10	2457	14.05	15.00	No
		11	2462	13.08	14.00	No
	802.11n(HT20)	1	2412	11.86	13.50	No
		2	2417	14.47	15.50	No
		3	2422	12.56	13.50	No
		4	2427	17.75	19.00	No
		6	2437	17.92	19.00	No
		9	2452	17.91	19.00	No
		10	2457	13.46	14.50	No
		11	2462	12.91	14.00	No

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

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

8.4.2 2.4G WIFI-Level1&3&4

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	13.46	15.00	No
		2	2417	15.53	16.50	No
		3	2422	11.46	13.00	No
		4	2427	16.19	17.00	No
		6	2437	16.21	17.00	Yes
		9	2452	16.10	17.00	No
		10	2457	13.38	15.00	No
		11	2462	13.22	14.00	No
	802.11g	1	2412	12.47	14.00	No
		2	2417	15.50	16.50	No
		3	2422	12.17	13.00	No
		4	2427	17.96	19.00	Yes
		6	2437	18.20	19.00	Yes
		9	2452	17.99	19.00	Yes
		10	2457	14.05	15.00	No
		11	2462	13.08	14.00	No
	802.11n(HT20)	1	2412	11.86	13.50	No
		2	2417	14.47	15.50	No
		3	2422	12.56	13.50	No
		4	2427	17.75	19.00	No
		6	2437	17.92	19.00	No
		9	2452	17.91	19.00	No
		10	2457	13.46	14.50	No
		11	2462	12.91	14.00	No

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

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

8.4.3 2.4G WIFI-Level2

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	13.46	15.00	No
		2	2417	15.53	16.50	No
		3	2422	11.46	13.00	No
		4	2427	15.68	16.50	No
		6	2437	15.73	16.50	Yes
		9	2452	15.61	16.50	No
		10	2457	13.38	15.00	No
		11	2462	13.22	14.00	No
	802.11g	1	2412	12.47	14.00	No
		2	2417	15.50	16.50	No
		3	2422	12.17	13.00	No
		4	2427	15.70	16.50	No
		6	2437	15.72	16.50	No
		9	2452	15.68	16.50	No
		10	2457	14.05	15.00	No
		11	2462	13.08	14.00	No
	802.11n(HT20)	1	2412	11.86	13.50	No
		2	2417	14.47	15.50	No
		3	2422	12.56	13.50	No
		4	2427	15.59	16.50	No
		6	2437	15.75	16.50	No
		9	2452	15.65	16.50	No
		10	2457	13.46	14.50	No
		11	2462	12.91	14.00	No

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

- 1) 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 = $0.559 * (44.67\text{mW}/44.67\text{mW}) = 0.559$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.4 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	14.03	15.00	No
		44	5220	14.00	15.00	No
		48	5240	13.89	15.00	No
	802.11n(HT20)	36	5180	13.56	15.00	No
		44	5220	13.66	15.00	No
		48	5240	13.24	15.00	No
	802.11n(HT40)	38	5190	12.87	14.50	No
		46	5230	13.57	15.00	Yes
	802.11ac(VHT20)	36	5180	13.59	15.00	No
		44	5220	13.61	15.00	No
		48	5240	13.77	15.00	No
	802.11ac(VHT40)	38	5190	12.96	14.50	No
		46	5230	13.59	15.00	No
	802.11ac(VHT80)	42	5210	12.06	14.00	No
	5.3 (5.25~5.35)	802.11a	52	5260	13.99	15.00
60			5300	13.86	15.00	No
64			5320	13.72	15.00	No
802.11n(HT20)		52	5260	13.79	15.00	No
		60	5300	13.70	15.00	No
		64	5320	13.53	15.00	No
802.11n(HT40)		54	5270	13.56	15.00	Yes
		62	5310	12.83	14.50	Yes
802.11ac(VHT20)		52	5260	13.69	15.00	No
		60	5300	13.60	15.00	No
		64	5320	13.54	15.00	No
802.11ac(VHT40)		54	5270	13.61	15.00	No
		62	5310	12.95	14.50	No
802.11ac(VHT80)		58	5290	12.09	14.00	No
5.6 (5.47~5.725)		802.11a	100	5500	13.24	15.00
	116		5580	13.52	15.00	No
	140		5700	13.30	15.00	No
	802.11n(HT20)	100	5500	13.12	15.00	No
		116	5580	13.50	15.00	No
		136	5680	13.46	15.00	No
		140	5700	12.13	14.00	No
	802.11n(HT40)	102	5510	12.53	14.50	No

		110	5550	13.43	15.00	No	
		118	5590	13.46	15.00	Yes	
		134	5670	13.42	15.00	Yes	
	802.11ac(VHT20)	100	5500	13.13	15.00	Yes	
		116	5580	13.49	15.00	No	
		136	5680	13.42	15.00	No	
		140	5700	12.24	14.00	No	
	802.11ac(VHT40)	102	5510	12.51	14.50	No	
		110	5550	13.41	15.00	No	
		118	5590	13.44	15.00	No	
		134	5670	13.34	15.00	No	
	802.11ac(VHT80)	106	5530	12.15	14.00	No	
		122	5610	12.41	14.00	No	
	5.8 (5.725~5.850)	802.11a	149	5745	12.92	14.50	No
			157	5785	12.73	14.50	No
165			5825	12.52	14.50	No	
802.11n(HT20)		149	5745	13.20	15.00	No	
		157	5785	13.39	15.00	No	
		165	5825	13.27	15.00	No	
802.11n(HT40)		151	5755	13.14	15.00	No	
		159	5795	13.02	15.00	No	
802.11ac(VHT20)		149	5745	13.01	15.00	No	
		157	5785	13.00	15.00	No	
		165	5825	13.09	15.00	No	
802.11ac(VHT40)		151	5755	13.03	15.00	No	
		159	5795	13.11	15.00	No	
802.11ac(VHT80)		155	5775	13.54	15.50	Yes	
<p>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.</p>							

8.4.5 5G WIFI-Level1&3&4

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	14.00	15.00	No
		48	5240	13.89	15.00	No
	802.11n(HT20)	36	5180	13.56	15.00	No
		44	5220	13.66	15.00	No
		48	5240	13.24	15.00	No
	802.11n(HT40)	38	5190	12.87	14.50	No
		46	5230	13.57	15.00	Yes
	802.11ac(VHT20)	36	5180	13.59	15.00	No
		44	5220	13.61	15.00	No
		48	5240	13.77	15.00	No
	802.11ac(VHT40)	38	5190	12.96	14.50	No
		46	5230	13.59	15.00	No
	802.11ac(VHT80)	42	5210	12.06	14.00	No
5.3 (5.25~5.35)	802.11a	52	5260	13.99	15.00	No
		60	5300	13.86	15.00	No
		64	5320	13.72	15.00	No
	802.11n(HT20)	52	5260	13.79	15.00	No
		60	5300	13.70	15.00	No
		64	5320	13.53	15.00	No
	802.11n(HT40)	54	5270	13.56	15.00	Yes
		62	5310	12.83	14.50	Yes
	802.11ac(VHT20)	52	5260	13.69	15.00	No
		60	5300	13.60	15.00	No
		64	5320	13.54	15.00	No
	802.11ac(VHT40)	54	5270	13.61	15.00	No
		62	5310	12.95	14.50	No
	802.11ac(VHT80)	58	5290	12.09	14.00	No
5.6 (5.47~5.725)	802.11a	100	5500	13.24	15.00	No
		116	5580	13.52	15.00	No
		140	5700	13.30	15.00	No
	802.11n(HT20)	100	5500	13.12	15.00	No
		116	5580	13.50	15.00	No
		136	5680	13.46	15.00	No
		140	5700	12.13	14.00	No
	802.11n(HT40)	102	5510	12.53	14.50	No

		110	5550	13.43	15.00	Yes	
		118	5590	13.46	15.00	Yes	
		134	5670	13.42	15.00	Yes	
	802.11ac(VHT20)	100	5500	13.13	15.00	No	
		116	5580	13.49	15.00	No	
		136	5680	13.42	15.00	No	
		140	5700	12.24	14.00	No	
	802.11ac(VHT40)	102	5510	12.51	14.50	No	
		110	5550	13.41	15.00	No	
		118	5590	13.44	15.00	No	
		134	5670	13.34	15.00	No	
	802.11ac(VHT80)	106	5530	12.15	14.00	No	
		122	5610	12.41	14.00	No	
	5.8 (5.725~5.850)	802.11a	149	5745	12.92	14.50	No
			157	5785	12.73	14.50	No
165			5825	12.52	14.50	No	
802.11n(HT20)		149	5745	13.20	15.00	No	
		157	5785	13.39	15.00	No	
		165	5825	13.27	15.00	No	
802.11n(HT40)		151	5755	13.14	15.00	No	
		159	5795	13.02	15.00	No	
802.11ac(VHT20)		149	5745	13.01	15.00	No	
		157	5785	13.00	15.00	No	
		165	5825	13.09	15.00	No	
802.11ac(VHT40)		151	5755	13.03	15.00	No	
		159	5795	13.11	15.00	No	
802.11ac(VHT80)		155	5775	13.54	15.50	Yes	
<p>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.</p>							

8.4.6 5G WIFI-Level2

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	11.13	12.00	No
		44	5220	11.08	12.00	No
		48	5240	10.94	12.00	No
	802.11n(HT20)	36	5180	10.56	12.00	No
		44	5220	10.75	12.00	No
		48	5240	10.28	12.00	No
	802.11n(HT40)	38	5190	10.45	12.00	No
		46	5230	10.62	12.00	No
	802.11ac(VHT20)	36	5180	10.60	12.00	No
		44	5220	10.63	12.00	No
		48	5240	10.83	12.00	No
	802.11ac(VHT40)	38	5190	10.53	12.00	No
46		5230	10.62	12.00	No	
802.11ac(VHT80)	42	5210	10.10	12.00	No	
5.3 (5.25~5.35)	802.11a	52	5260	11.01	12.00	No
		60	5300	10.87	12.00	No
		64	5320	10.81	12.00	No
	802.11n(HT20)	52	5260	10.82	12.00	No
		60	5300	10.70	12.00	No
		64	5320	10.57	12.00	No
	802.11n(HT40)	54	5270	10.62	12.00	No
		62	5310	10.34	12.00	No
	802.11ac(VHT20)	52	5260	10.80	12.00	No
		60	5300	10.69	12.00	No
		64	5320	10.55	12.00	No
	802.11ac(VHT40)	54	5270	10.66	12.00	No
62		5310	10.56	12.00	No	
802.11ac(VHT80)	58	5290	10.15	12.00	Yes	
5.6 (5.47~5.725)	802.11a	100	5500	10.28	11.50	No
		116	5580	10.55	11.50	No
		140	5700	10.30	11.50	No
	802.11n(HT20)	100	5500	10.12	11.50	No
		116	5580	10.55	11.50	No
		136	5680	/	/	/
		140	5700	10.18	11.50	No
802.11n(HT40)	102	5510	10.13	11.50	No	

		110	5550	/	/	/
		118	5590	10.49	11.50	No
		134	5670	10.51	11.50	No
	802.11ac(VHT20)	100	5500	10.13	11.50	No
		116	5580	10.58	11.50	No
		136	5680	/	/	/
		140	5700	10.29	11.50	No
	802.11ac(VHT40)	102	5510	10.02	11.50	No
		110	5550	/	/	/
		118	5590	10.45	11.50	No
	802.11ac(VHT80)	134	5670	10.41	11.50	No
		106	5530	10.21	11.50	No
	5.8 (5.725~5.850)	802.11a	122	5610	10.49	11.50
149			5745	10.42	12.00	No
157			5785	10.29	12.00	No
802.11n(HT20)		165	5825	10.06	12.00	No
		149	5745	10.20	12.00	No
		157	5785	10.43	12.00	No
802.11n(HT40)		165	5825	10.27	12.00	No
		151	5755	10.23	12.00	No
		159	5795	10.05	12.00	No
802.11ac(VHT20)		149	5745	10.07	12.00	No
		157	5785	10.00	12.00	No
		165	5825	10.13	12.00	No
802.11ac(VHT40)		151	5755	10.10	12.00	No
	159	5795	10.18	12.00	No	
802.11ac(VHT80)	155	5775	10.11	12.00	Yes	

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.

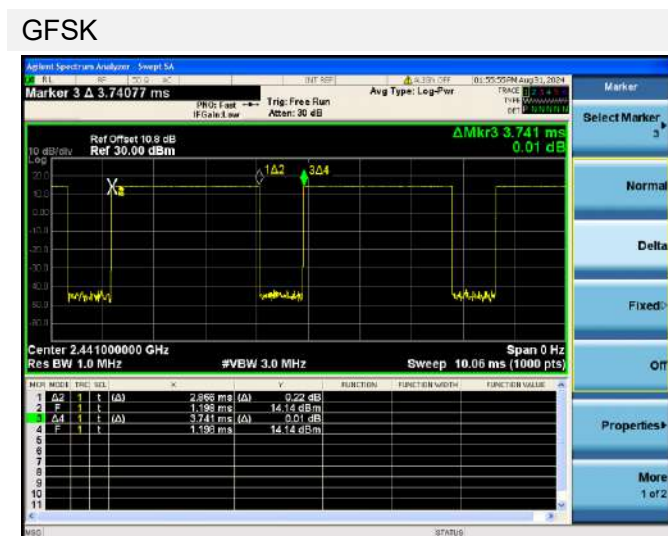
8.5 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	12.00	14.17	13.21	8.44	10.63	9.68
Tune-Up Limit (dBm)	14.00	15.00	15.00	10.00	11.00	11.00
SAR Test Require	NO	YES	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conducted Power (dBm)	8.27	10.56	9.54	/	/	/
Tune-Up Limit (dBm)	10.00	11.00	11.00	/	/	/
SAR Test Require	NO	NO	NO	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
Conducted Power (dBm)	5.07	6.59	5.68	5.28	6.58	5.73
Tune-Up Limit (dBm)	7.00	8.00	7.00	7.00	8.00	7.00
SAR Test Require	NO	NO	NO	NO	NO	NO

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

Note: The Bluetooth duty cycle is 76.61 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle



8.6 Power Reduction List

- 1.This mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head.
- 2.When device is making call in head, the power reduction will applied for SAR compliance.
- 3.When there is a voice call (including VOIP), and the audio is actively routed through the headset or speaker, which indicating the body exposure conditions will trigger the body exposure reduced the power.
- 4.When this device used data mode only, and the receiver will not work too, the reduced the power are same as body exposure.
- 5.The device employs proximity sensors that detect the presence of the user's body of the device. When these conditions are detected, Body reduced power will be active.
- 6.When the proximity sensor fails, the power is reduced to the corresponding Sensor On scenario.

WWAN Reduced power level table

Reduced level	Sensor state	Receiver state	Transmitting	Antenna	Position
			conditions		
DSI1	/	On (head scenario)	WWAN Use Only & WWAN + WLAN	Ant.4 Ant.1	Head
DSI2	Sensor(CS0) On + Sensor(CS2) Off	Off (Body scenario)	WWAN Use Only & WWAN + WLAN	Ant.4 Ant.1	Front Side;Back Side;Bottom Edge
DSI3	Sensor(CS2) On	Off (Body scenario)	WWAN Use Only & WWAN + WLAN	Ant.4 Ant.1	Front Side;Back Side;Top Edge
DSI4	Full Power	Off (Body scenario)	WWAN Use Only & WWAN + WLAN	Ant.4 Ant.1	Front Side;Back Side;Left Edge;Right Edge;Top Edge;Bottom Edge
DSI5	/	Off (Hotspot scenario)	WWAN + WLAN	Ant.4 Ant.1	Front Side;Back Side;Left Edge;Right Edge;Top Edge;Bottom Edge

Note:

- 1.EUT has one sensor connected to two SAR Sensor signal channels. CS0 displays the sensing data of the lower antenna channel, while CS2 displays the sensing data of the upper antenna channel.
- 2.The antenna triggered by sensor(CS0) has Ant.1,The antenna triggered by sensor(CS2) has Ant.4.
- 3.The sensor trigger only applies to the WWAN and is not suitable for WLAN.

WWAN Antenna Power table

Mode	Antenna	WWAN Antenna								
		Full Power	Receiver on	Receiver off						
			Head	Body-Worn			Hotspot	Specific		
			Standalone & Simultaneous transmission	Standalone & Simultaneous transmission			Simultaneous transmission	Standalone & Simultaneous transmission		
Off	DSI1	DSI2	DSI3	DSI4	DSI5	DSI2	DSI3	DSI4		
GSM 850	Ant.4	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50
GPRS850 1 Tx Slot	Ant.4	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50
GPRS850 2 Tx Slot	Ant.4	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
GPRS850 3 Tx Slot	Ant.4	29.50	29.50	29.50	29.50	29.50	29.50	29.50	29.50	29.50
GPRS850 4 Tx Slot	Ant.4	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
EGPRS850 1 Tx Slot	Ant.4	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS850 2 Tx Slot	Ant.4	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS850 3 Tx Slot	Ant.4	23.20	23.20	23.20	23.20	23.20	23.20	23.20	23.20	23.20
EGPRS850 4 Tx Slot	Ant.4	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00
GSM 850	Ant.1	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50
GPRS850 1 Tx Slot	Ant.1	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50	33.50
GPRS850 2 Tx Slot	Ant.1	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
GPRS850 3 Tx Slot	Ant.1	29.50	29.50	29.50	29.50	29.50	29.50	29.50	29.50	29.50
GPRS850 4 Tx Slot	Ant.1	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
EGPRS850 1 Tx Slot	Ant.1	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
EGPRS850 2 Tx Slot	Ant.1	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EGPRS850 3 Tx Slot	Ant.1	23.20	23.20	23.20	23.20	23.20	23.20	23.20	23.20	23.20
EGPRS850 4 Tx Slot	Ant.1	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00
GSM1900	Ant.4	30.50	25.00	30.50	27.00	30.50	27.50	30.50	27.00	30.50
GPRS1900 1 Tx Slot	Ant.4	30.50	25.00	30.50	27.00	30.50	27.50	30.50	27.00	30.50
GPRS1900 2 Tx Slot	Ant.4	28.50	23.00	28.50	25.00	28.50	25.50	28.50	25.00	28.50
GPRS1900 3 Tx Slot	Ant.4	26.50	21.00	26.50	23.00	26.50	23.50	26.50	23.00	26.50
GPRS1900 4 Tx Slot	Ant.4	24.50	19.00	24.50	21.00	24.50	21.50	24.50	21.00	24.50
EGPRS1900 1 Tx Slot	Ant.4	27.00	21.50	27.00	23.50	27.00	24.00	27.00	23.50	27.00
EGPRS1900 2 Tx Slot	Ant.4	24.00	18.50	24.00	20.50	24.00	21.00	24.00	20.50	24.00
EGPRS1900 3 Tx Slot	Ant.4	22.20	16.70	22.20	18.70	22.20	19.20	22.20	18.70	22.20
EGPRS1900 4 Tx Slot	Ant.4	21.00	15.50	21.00	17.50	21.00	18.00	21.00	17.50	21.00
GSM1900	Ant.1	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50
GPRS1900 1 Tx Slot	Ant.1	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50
GPRS1900 2 Tx Slot	Ant.1	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50
GPRS1900 3 Tx Slot	Ant.1	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50
GPRS1900 4 Tx Slot	Ant.1	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
EGPRS1900 1 Tx Slot	Ant.1	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
EGPRS1900 2 Tx Slot	Ant.1	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
EGPRS1900 3 Tx Slot	Ant.1	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20

EGPRS1900 4 Tx Slot	Ant.1	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00
WCDMA Band2 RMC	Ant.4	25.00	17.50	24.50	19.50	24.50	19.00	24.50	19.50	24.50
WCDMA Band2 AMR	Ant.4	25.00	17.50	24.50	19.50	24.50	19.00	24.50	19.50	24.50
HSDPA Subtest-1	Ant.4	24.50	17.00	24.00	19.00	24.00	19.00	24.00	19.00	24.00
HSDPA Subtest-2	Ant.4	24.50	17.00	24.00	19.00	24.00	19.00	24.00	19.00	24.00
HSDPA Subtest-3	Ant.4	24.00	16.50	23.50	18.50	23.50	19.00	23.50	18.50	23.50
HSDPA Subtest-4	Ant.4	24.00	16.50	23.50	18.50	23.50	19.00	23.50	18.50	23.50
HSUPA Subtest-1	Ant.4	25.00	17.50	24.50	19.50	24.50	19.00	24.50	19.50	24.50
HSUPA Subtest-2	Ant.4	23.00	15.50	22.50	17.50	22.50	19.00	22.50	17.50	22.50
HSUPA Subtest-3	Ant.4	24.00	16.50	23.50	18.50	23.50	19.00	23.50	18.50	23.50
HSUPA Subtest-4	Ant.4	23.00	15.50	22.50	17.50	22.50	19.00	22.50	17.50	22.50
HSUPA Subtest-5	Ant.4	25.50	18.00	25.00	20.00	25.00	19.00	25.00	20.00	25.00
HSPA+	Ant.4	24.50	17.00	24.00	19.00	24.00	19.00	24.00	19.00	24.00
WCDMA Band2 RMC	Ant.1	25.00	25.00	22.50	22.50	25.00	22.00	22.50	22.50	25.00
WCDMA Band2 AMR	Ant.1	25.00	25.00	22.50	22.50	25.00	22.00	22.50	22.50	25.00
HSDPA Subtest-1	Ant.1	24.50	24.50	22.00	22.00	24.50	21.50	22.00	22.00	24.50
HSDPA Subtest-2	Ant.1	24.50	24.50	22.00	22.00	24.50	21.50	22.00	22.00	24.50
HSDPA Subtest-3	Ant.1	24.00	24.00	21.50	21.50	24.00	21.00	21.50	21.50	24.00
HSDPA Subtest-4	Ant.1	24.00	24.00	21.50	21.50	24.00	21.00	21.50	21.50	24.00
HSUPA Subtest-1	Ant.1	25.00	25.00	22.50	22.50	25.00	22.00	22.50	22.50	25.00
HSUPA Subtest-2	Ant.1	23.00	23.00	20.50	20.50	23.00	20.00	20.50	20.50	23.00
HSUPA Subtest-3	Ant.1	24.00	24.00	21.50	21.50	24.00	21.00	21.50	21.50	24.00
HSUPA Subtest-4	Ant.1	23.00	23.00	20.50	20.50	23.00	20.00	20.50	20.50	23.00
HSUPA Subtest-5	Ant.1	25.50	25.50	23.00	23.00	25.50	22.50	23.00	23.00	25.50
HSPA+	Ant.1	24.50	24.50	22.00	22.00	24.50	21.50	22.00	22.00	24.50
WCDMA Band4 RMC	Ant.4	25.00	19.00	25.00	20.50	25.00	22.00	25.00	20.50	25.00
WCDMA Band4 RMC	Ant.4	25.00	19.00	25.00	20.50	25.00	22.00	25.00	20.50	25.00
HSDPA Subtest-1	Ant.4	24.50	18.50	24.50	20.00	24.50	21.50	24.50	20.00	24.50
HSDPA Subtest-2	Ant.4	24.50	18.50	24.50	20.00	24.50	21.50	24.50	20.00	24.50
HSDPA Subtest-3	Ant.4	24.00	18.00	24.00	19.50	24.00	21.00	24.00	19.50	24.00
HSDPA Subtest-4	Ant.4	24.00	18.00	24.00	19.50	24.00	21.00	24.00	19.50	24.00
HSUPA Subtest-1	Ant.4	25.00	19.00	25.00	20.50	25.00	22.00	25.00	20.50	25.00
HSUPA Subtest-2	Ant.4	23.00	17.00	23.00	18.50	23.00	20.00	23.00	18.50	23.00
HSUPA Subtest-3	Ant.4	24.00	18.00	24.00	19.50	24.00	21.00	24.00	19.50	24.00
HSUPA Subtest-4	Ant.4	23.00	17.00	23.00	18.50	23.00	20.00	23.00	18.50	23.00
HSUPA Subtest-5	Ant.4	25.50	19.50	25.50	21.00	25.50	22.50	25.50	21.00	25.50
HSPA+	Ant.4	24.50	18.50	24.50	20.00	24.50	21.50	24.50	20.00	24.50
WCDMA Band4 RMC	Ant.1	25.00	25.00	21.50	21.50	25.00	22.50	21.50	21.50	25.00
WCDMA Band4 RMC	Ant.1	25.00	25.00	21.50	21.50	25.00	22.50	21.50	21.50	25.00
HSDPA Subtest-1	Ant.1	24.50	24.50	21.00	21.00	24.50	22.00	21.00	21.00	24.50
HSDPA Subtest-2	Ant.1	24.50	24.50	21.00	21.00	24.50	22.00	21.00	21.00	24.50
HSDPA Subtest-3	Ant.1	24.00	24.00	20.50	20.50	24.00	21.50	20.50	20.50	24.00
HSDPA Subtest-4	Ant.1	24.00	24.00	20.50	20.50	24.00	21.50	20.50	20.50	24.00

HSUPA Subtest-1	Ant.1	25.00	25.00	21.50	21.50	25.00	22.50	21.50	21.50	25.00
HSUPA Subtest-2	Ant.1	23.00	23.00	19.50	19.50	23.00	20.50	19.50	19.50	23.00
HSUPA Subtest-3	Ant.1	24.00	24.00	20.50	20.50	24.00	21.50	20.50	20.50	24.00
HSUPA Subtest-4	Ant.1	23.00	23.00	19.50	19.50	23.00	20.50	19.50	19.50	23.00
HSUPA Subtest-5	Ant.1	25.50	25.50	22.00	22.00	25.50	23.00	22.00	22.00	25.50
HSPA+	Ant.1	24.50	24.50	21.00	21.00	24.50	22.00	21.00	21.00	24.50
WCDMA Band5 RMC	Ant.4	25.00	23.50	25.00	25.00	25.00	25.00	25.00	25.00	25.00
WCDMA Band5 AMR	Ant.4	25.00	23.50	25.00	25.00	25.00	25.00	25.00	25.00	25.00
HSDPA Subtest-1	Ant.4	24.50	23.00	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSDPA Subtest-2	Ant.4	24.50	23.00	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSDPA Subtest-3	Ant.4	24.00	22.50	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSDPA Subtest-4	Ant.4	24.00	22.50	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSUPA Subtest-1	Ant.4	25.00	23.50	25.00	25.00	25.00	25.00	25.00	25.00	25.00
HSUPA Subtest-2	Ant.4	23.00	21.50	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-3	Ant.4	24.00	22.50	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSUPA Subtest-4	Ant.4	23.00	21.50	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-5	Ant.4	25.50	24.00	25.50	25.50	25.50	25.50	25.50	25.50	25.50
HSPA+	Ant.4	24.50	23.00	24.50	24.50	24.50	24.50	24.50	24.50	24.50
WCDMA Band5 RMC	Ant.1	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
WCDMA Band5 AMR	Ant.1	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
HSDPA Subtest-1	Ant.1	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSDPA Subtest-2	Ant.1	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
HSDPA Subtest-3	Ant.1	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSDPA Subtest-4	Ant.1	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSUPA Subtest-1	Ant.1	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
HSUPA Subtest-2	Ant.1	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-3	Ant.1	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
HSUPA Subtest-4	Ant.1	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
HSUPA Subtest-5	Ant.1	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
HSPA+	Ant.1	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50	24.50
LTE Band2	Ant.4	25.50	17.00	25.50	19.00	25.50	20.00	25.50	19.00	25.50
LTE Band2	Ant.1	25.50	25.50	23.00	23.00	25.50	24.00	23.00	23.00	25.50
LTE Band4	Ant.4	25.50	18.50	25.50	21.00	25.50	22.00	25.50	21.00	25.50
LTE Band4	Ant.1	25.50	25.50	22.00	22.00	25.50	23.00	22.00	22.00	25.50
LTE Band5	Ant.4	25.50	23.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band5	Ant.1	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band7	Ant.4	25.50	18.00	23.50	20.00	23.50	21.00	23.50	20.00	23.50
LTE Band7	Ant.1	25.50	25.50	19.50	19.50	22.00	19.50	19.50	19.50	22.00
LTE Band12	Ant.4	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band12	Ant.1	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band13	Ant.4	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band13	Ant.1	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band17	Ant.4	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50

LTE Band17	Ant.1	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band26	Ant.4	25.50	23.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band26	Ant.1	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
LTE Band66	Ant.4	25.50	18.00	25.50	20.00	25.50	21.50	25.50	20.00	25.50
LTE Band66	Ant.1	25.50	25.50	22.00	22.00	25.50	23.00	22.00	22.00	25.50
LTE Band38	Ant.4	25.50	19.50	25.50	22.00	25.50	25.50	25.50	22.00	25.50
LTE Band38	Ant.1	25.50	25.50	22.00	22.00	25.00	22.50	22.00	22.00	25.00
LTE Band41	Ant.4	25.50	18.50	25.50	21.50	25.50	25.50	25.50	21.50	25.50
LTE Band41	Ant.1	25.50	25.50	22.00	22.00	24.50	22.00	22.00	22.00	24.50

WLAN Reduced power level table

Reduced level	Receiver state	Transmitting		Antenna	Position
		conditions			
Level 1	On (head scenario)	Only WLAN		Ant.7	Head
Level 2	On (head scenario)	WWAN+WLAN		Ant.7	Head
Level 3	Off (Body scenario)	Only WLAN		Ant.7	Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge
Level 4	Off (Body scenario)	WWAN+WLAN		Ant.7	Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge

Mode	WLAN Antenna 7									
	Full Power	Receiver on			Receiver off					
		Head		Body		Hotspot		Specific		
		Standalone	Simultaneous transmission	Standalone	Simultaneous transmission	Simultaneous transmission		Standalone	Simultaneous transmission	
Off	Level1	Level2	Level3	Level4	Level3	Level4	Level3	Level4		
2.4G WLAN 802.11b	17.00	17.00	16.50	17.00	17.00	17.00	17.00	17.00	17.00	
2.4G WLAN 802.11g	19.00	19.00	16.50	19.00	19.00	19.00	19.00	19.00	19.00	
2.4G WLAN 802.11n20	19.00	19.00	16.50	19.00	19.00	19.00	19.00	19.00	19.00	
5.2G WLAN 802.11a	15.00	15.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00	
5.2G WLAN 802.11n20	15.00	15.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00	
5.2G WLAN 802.11n40	15.00	15.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00	
5.2G WLAN 802.11ac20	15.00	15.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00	
5.2G WLAN 802.11ac40	15.00	15.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00	
5.2G WLAN 802.11ac80	14.00	14.00	12.00	14.00	14.00	14.00	14.00	14.00	14.00	
5.3G WLAN 802.11a	15.00	15.00	12.00	15.00	15.00	/	/	15.00	15.00	
5.3G WLAN 802.11n20	15.00	15.00	12.00	15.00	15.00	/	/	15.00	15.00	
5.3G WLAN 802.11n40	15.00	15.00	12.00	15.00	15.00	/	/	15.00	15.00	
5.3G WLAN 802.11ac20	15.00	15.00	12.00	15.00	15.00	/	/	15.00	15.00	
5.3G WLAN 802.11ac40	15.00	15.00	12.00	15.00	15.00	/	/	15.00	15.00	
5.3G WLAN 802.11ac80	14.00	14.00	12.00	14.00	14.00	/	/	14.00	14.00	
5.6G WLAN 802.11a	15.00	15.00	11.50	15.00	15.00	/	/	15.00	15.00	
5.6G WLAN 802.11n20	15.00	15.00	11.50	15.00	15.00	/	/	15.00	15.00	
5.6G WLAN 802.11n40	15.00	15.00	11.50	15.00	15.00	/	/	15.00	15.00	
5.6G WLAN 802.11ac20	15.00	15.00	11.50	15.00	15.00	/	/	15.00	15.00	
5.6G WLAN 802.11ac40	15.00	15.00	11.50	15.00	15.00	/	/	15.00	15.00	
5.6G WLAN 802.11ac80	14.00	14.00	11.50	14.00	14.00	/	/	14.00	14.00	
5.8G WLAN 802.11a	14.50	14.50	12.00	14.50	14.50	14.50	14.50	14.50	14.50	
5.8G WLAN 802.11n20	15.00	15.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00	

5.8G WLAN 802.11n40	15.00	15.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00
5.8G WLAN 802.11ac20	15.00	15.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00
5.8G WLAN 802.11ac40	15.00	15.00	12.00	15.00	15.00	15.00	15.00	15.00	15.00
5.8G WLAN 802.11ac80	15.50	15.50	12.00	15.50	15.50	15.50	15.50	15.50	15.50
Bluetooth	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

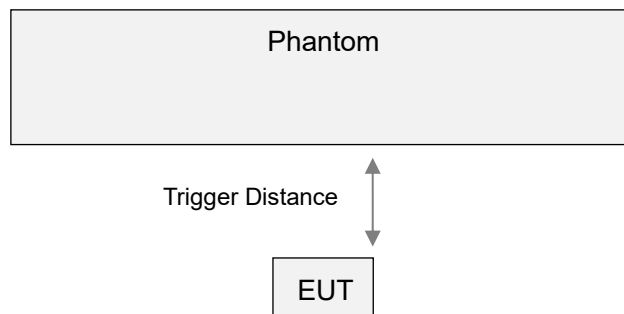
9 PROXIMITY SENSOR TRIGGERING TEST

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(CS0)

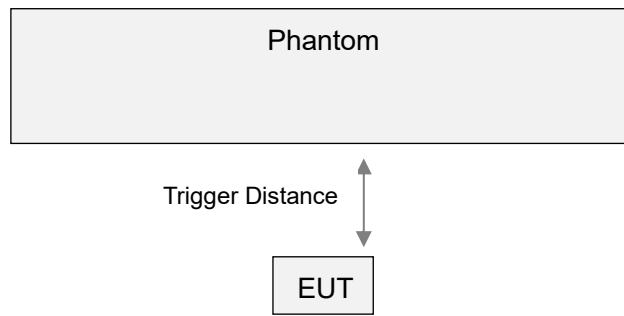


EUT moving toward Phantom

Distance in mm	1~5	6	7	8	9	10	11~15	16	17	18	19~25
Front Side	On	On	On	On	On	On	Off	Off	Off	Off	Off
Back Side	On	On	On	On	On	On	On	On	Off	Off	Off
Bottom Edge	On	On	On	On	On	On	On	On	Off	Off	Off

Note: Power reduction is only applicable for ANT1.

9.1.2 proximity sensor(CS2)



EUT moving toward Phantom

Distance in mm	1~5	6	7	8	9	10	11~15	16	17	18	19~25
Front Side	On	On	On	On	On	On	Off	Off	Off	Off	Off
Back Side	On	On	On	On	On	On	Off	Off	Off	Off	Off
Top Edge	On	On	On	On	On	On	Off	Off	Off	Off	Off

Note: Power reduction is only applicable for ANT4.

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(CS0)

EUT Sides	Additional SAR test Distance in mm
Front Side	9
Back Side	15
Bottom Edge	15

ANT4 of proximity sensor(CS2)

EUT Sides	Additional SAR test Distance in mm
Front Side	9
Back Side	9
Top Edge	9

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

The influence of EUT tilt angles to proximity sensor(CS0) triggering was determined by positioning each EUT edge that contains a transmitting antenna 1, perpendicular to the flat phantom, at 16 mm separation for the bottom edge.

The influence of EUT tilt angles to proximity sensor(CS2) triggering was determined by positioning each EUT edge that contains transmitting antenna 4, perpendicular to the flat phantom, at 10 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.

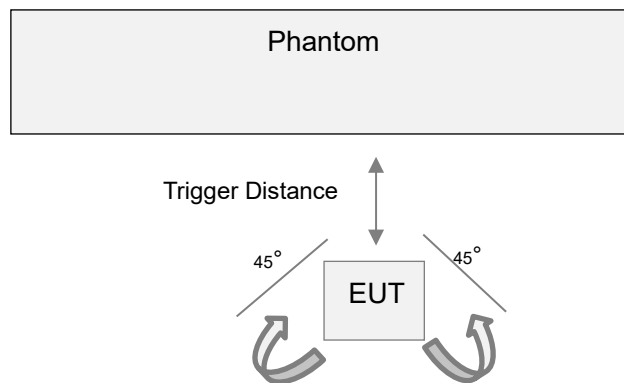


Table: Summary of Phone Tilt Angle Influence to Proximity Sensor Triggering(Top/Bottom edge)

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	Bottom Edge	16mm	on	on	on	on	on	on	on	on	on	on	on	on
ANT4	Top Edge	10mm	on	on	on	on	on	on	on	on	on	on	on	on

10 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document "BL-SZ2480911-AI EUT internal photo.pdf".

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
Ant.4	<25	<25	<25	<25	<25	>25
Ant.1	<25	<25	<25	<25	>25	<25
Ant.7	<25	<25	>25	<25	<25	>25

Note: 1.Per KDB 941225 DO6,When the overall length and width of a device is > 9 cm *5 cm, a test separation distance of 10 mm is required for hotspot mode SAR measurements and hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.

11 TEST RESULT

11.1 GSM 850

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.4	DSI1	DATA 2slots	Left Cheek	0	190	836.6	-0.01	0.540	29.82	31.50	1.472	0.795	/
	DSI1		Left Tilt	0	190	836.6	0.01	0.487	29.82	31.50	1.472	0.717	/
	DSI1		Right Cheek	0	190	836.6	-0.02	0.640	29.82	31.50	1.472	0.942	1#
	DSI1		Right Tilt	0	190	836.6	0.04	0.487	29.82	31.50	1.472	0.717	/
	DSI1		Right Cheek	0	128	824.2	-0.05	0.635	29.80	31.50	1.479	0.939	/
	DSI1		Right Cheek	0	251	848.8	0.09	0.589	29.72	31.50	1.507	0.888	/
Ant.1	DSI1	DATA 2slots	Left Cheek	0	190	836.6	0.00	0.116	30.31	31.50	1.315	0.153	/
	DSI1		Left Tilt	0	190	836.6	0.08	0.056	30.31	31.50	1.315	0.074	/
	DSI1		Right Cheek	0	190	836.6	0.11	0.098	30.31	31.50	1.315	0.129	/
	DSI1		Right Tilt	0	190	836.6	0.00	0.053	30.31	31.50	1.315	0.070	/
Body-worn													
Ant.4	DSI2&4	DATA	Front Side	15	190	836.6	0.04	0.145	29.82	31.50	1.472	0.213	/
	DSI2&4	2slots	Back Side	15	190	836.6	-0.02	0.194	29.82	31.50	1.472	0.286	2#
Ant.1	DSI2&3	DATA	Front Side	15	190	836.6	0.02	0.084	30.31	31.50	1.315	0.110	/
	DSI2&3	2slots	Back Side	15	190	836.6	0.06	0.097	30.31	31.50	1.315	0.128	/
Hotspot													
Ant.4	DSI5	DATA 2slots	Front Side	10	190	836.6	0.13	0.191	29.82	31.50	1.472	0.281	/
	DSI5		Back Side	10	190	836.6	0.02	0.295	29.82	31.50	1.472	0.434	3#
	DSI5		Left Edge	10	190	836.6	-0.10	0.112	29.82	31.50	1.472	0.165	/
	DSI5		Right Edge	10	190	836.6	-0.08	0.097	29.82	31.50	1.472	0.143	/
	DSI5		Top Edge	10	190	836.6	-0.15	0.201	29.82	31.50	1.472	0.296	/
Ant.1	DSI5	DATA 2slots	Front Side	10	190	836.6	-0.12	0.119	30.31	31.50	1.315	0.156	/
	DSI5		Back Side	10	190	836.6	0.08	0.220	30.31	31.50	1.315	0.289	/
	DSI5		Left Edge	10	190	836.6	0.06	0.075	30.31	31.50	1.315	0.099	/
	DSI5		Right Edge	10	190	836.6	-0.03	0.107	30.31	31.50	1.315	0.141	/
	DSI5		Bottom Edge	10	190	836.6	0.13	0.165	30.31	31.50	1.315	0.217	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.2GSM 1900

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.4	DSI1	DATA 2slots	Left Cheek	0	810	1909.8	0.12	0.363	21.69	23.00	1.352	0.491	/
	DSI1		Left Tilt	0	810	1909.8	0.07	0.490	21.69	23.00	1.352	0.662	/
	DSI1		Right Cheek	0	810	1909.8	-0.01	0.554	21.69	23.00	1.352	0.749	/
	DSI1		Right Tilt	0	810	1909.8	0.00	0.705	21.69	23.00	1.352	0.953	4#
	DSI1		Right Tilt	0	512	1850.2	0.08	0.523	21.56	23.00	1.393	0.729	/
	DSI1		Right Tilt	0	661	1880	-0.13	0.569	21.58	23.00	1.387	0.789	/
Ant.1	DSI1	DATA 2slots	Left Cheek	0	810	1909.8	0.14	0.105	27.18	28.50	1.355	0.142	/
	DSI1		Left Tilt	0	810	1909.8	-0.06	0.068	27.18	28.50	1.355	0.092	/
	DSI1		Right Cheek	0	810	1909.8	-0.04	0.097	27.18	28.50	1.355	0.131	/
	DSI1		Right Tilt	0	810	1909.8	0.16	0.054	27.18	28.50	1.355	0.073	/
Body-worn													
Ant.4	DSI2&4	DATA	Front Side	15	810	1909.8	0.10	0.219	27.00	28.50	1.413	0.309	/
	DSI2&4	2slots	Back Side	15	810	1909.8	-0.01	0.415	27.00	28.50	1.413	0.586	5#
Ant.1	DSI2&3	DATA	Front Side	15	810	1909.8	-0.07	0.106	27.18	28.50	1.355	0.144	/
	DSI2&3	2slots	Back Side	15	810	1909.8	-0.03	0.151	27.18	28.50	1.355	0.205	/
Hotspot													
Ant.4	DSI5	DATA 2slots	Front Side	10	810	1909.8	-0.01	0.256	24.20	25.50	1.349	0.345	/
	DSI5		Back Side	10	810	1909.8	-0.06	0.545	24.20	25.50	1.349	0.735	/
	DSI5		Left Edge	10	810	1909.8	-0.12	0.038	24.20	25.50	1.349	0.051	/
	DSI5		Right Edge	10	810	1909.8	-0.07	0.002	24.20	25.50	1.349	0.003	/
	DSI5		Top Edge	10	810	1909.8	0.02	0.678	24.20	25.50	1.349	0.915	6#
	DSI5		Top Edge	10	512	1850.2	0.09	0.479	23.76	25.50	1.493	0.715	/
	DSI5		Top Edge	10	661	1880	-0.02	0.510	24.15	25.50	1.365	0.696	/
Ant.1	DSI5	DATA 2slots	Front Side	10	810	1909.8	0.04	0.198	27.18	28.50	1.355	0.268	/
	DSI5		Back Side	10	810	1909.8	-0.10	0.311	27.18	28.50	1.355	0.421	/
	DSI5		Left Edge	10	810	1909.8	0.13	0.140	27.18	28.50	1.355	0.190	/
	DSI5		Right Edge	10	810	1909.8	0.01	0.059	27.18	28.50	1.355	0.080	/
	DSI5		Bottom Edge	10	810	1909.8	-0.02	0.441	27.18	28.50	1.355	0.598	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific													
Ant.4	DSI3	DATA 2slots	Back Side	0	810	1909.8	-0.14	0.958	23.87	25.00	1.297	1.243	/
	DSI3		Top Edge	0	810	1909.8	0.01	1.900	23.87	25.00	1.297	2.464	7#
	DSI3		Top Edge	0	512	1850.2	0.05	1.590	23.33	25.00	1.469	2.336	/
	DSI3		Top Edge	0	661	1880	0.01	1.680	23.67	25.00	1.358	2.281	/
Sensor-1													
Ant.4	DSI4	DATA 2slots	Front Side	9	810	1909.8	0.08	0.294	27.00	28.50	1.413	0.415	/
	DSI4		Back Side	9	810	1909.8	-0.06	0.640	27.00	28.50	1.413	0.904	/
	DSI4		Top Edge	9	810	1909.8	-0.05	0.732	27.00	28.50	1.413	1.034	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.3WCDMA Band 2

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.4	DSI1	RMC	Left Cheek	0	9262	1852.4	0.15	0.415	16.46	17.50	1.271	0.527	/
	DSI1		Left Tilt	0	9262	1852.4	-0.13	0.536	16.46	17.50	1.271	0.681	/
	DSI1		Right Cheek	0	9262	1852.4	-0.15	0.575	16.46	17.50	1.271	0.731	/
	DSI1		Right Tilt	0	9262	1852.4	0.03	0.680	16.46	17.50	1.271	0.864	/
	DSI1		Right Tilt	0	9400	1880	0.01	0.763	16.29	17.50	1.321	1.008	/
	DSI1		Right Tilt	0	9538	1907.6	0.02	0.814	16.43	17.50	1.279	1.041	8#
Ant.1	DSI1	RMC	Left Cheek	0	9538	1907.6	-0.10	0.119	23.84	25.00	1.306	0.155	/
	DSI1		Left Tilt	0	9538	1907.6	-0.07	0.093	23.84	25.00	1.306	0.121	/
	DSI1		Right Cheek	0	9538	1907.6	0.11	0.101	23.84	25.00	1.306	0.132	/
	DSI1		Right Tilt	0	9538	1907.6	0.00	0.092	23.84	25.00	1.306	0.120	/
Body-worn													
Ant.4	DSI2&4	RMC	Front Side	15	9262	1852.4	0.14	0.343	23.41	24.50	1.285	0.441	/
	DSI2&4		Back Side	15	9262	1852.4	0.04	0.666	23.41	24.50	1.285	0.856	/
	DSI2&4		Back Side	15	9400	1880	0.04	0.673	23.31	24.50	1.315	0.885	/
	DSI2&4		Back Side	15	9538	1907.6	-0.01	0.684	23.36	24.50	1.300	0.889	9#
Ant.1	DSI2&3	RMC	Front Side	15	9400	1880	0.10	0.221	21.31	22.50	1.315	0.291	/
	DSI2&3		Back Side	15	9400	1880	-0.10	0.282	21.31	22.50	1.315	0.371	/
Hotspot													
Ant.4	DSI5	RMC	Front Side	10	9262	1852.4	-0.11	0.233	17.83	19.00	1.309	0.305	/
	DSI5		Back Side	10	9262	1852.4	-0.06	0.473	17.83	19.00	1.309	0.619	/
	DSI5		Left Edge	10	9262	1852.4	0.14	0.030	17.83	19.00	1.309	0.039	/
	DSI5		Right Edge	10	9262	1852.4	-0.07	0.000	17.83	19.00	1.309	0.000	/
	DSI5		Top Edge	10	9262	1852.4	0.14	0.654	17.83	19.00	1.309	0.856	/
	DSI5		Top Edge	10	9400	1880	0.11	0.613	17.80	19.00	1.318	0.808	/
	DSI5		Top Edge	10	9538	1907.6	-0.01	0.684	17.79	19.00	1.321	0.904	10#
Ant.1	DSI5	RMC	Front Side	10	9538	1907.6	0.11	0.335	20.89	22.00	1.291	0.432	/
	DSI5		Back Side	10	9538	1907.6	-0.01	0.446	20.89	22.00	1.291	0.576	/
	DSI5		Left Edge	10	9538	1907.6	-0.06	0.193	20.89	22.00	1.291	0.249	/
	DSI5		Right Edge	10	9538	1907.6	-0.12	0.048	20.89	22.00	1.291	0.062	/
	DSI5		Bottom Edge	10	9538	1907.6	-0.15	0.664	20.89	22.00	1.291	0.857	/
	DSI5		Bottom Edge	10	9262	1852.4	0.06	0.675	20.81	22.00	1.315	0.888	/
	DSI5		Bottom Edge	10	9400	1880	-0.14	0.643	20.77	22.00	1.327	0.853	/
Sensor-1													
Ant.1	DSI4	RMC	Back Side	15	9538	1907.6	0.05	0.298	23.84	25.00	1.306	0.389	/
	DSI4		Bottom Edge	15	9538	1907.6	0.03	0.512	23.84	25.00	1.306	0.669	/

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

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific													
Ant. 4	DSI3	RMC	Front Side	0	9262	1852.4	0.06	0.745	18.40	19.50	1.288	0.960	/
	DSI3		Back Side	0	9262	1852.4	0.07	1.010	18.40	19.50	1.288	1.301	/
	DSI3		Top Edge	0	9262	1852.4	-0.03	1.990	18.40	19.50	1.288	2.563	/
	DSI3		Top Edge	0	9400	1880	-0.11	1.910	18.29	19.50	1.321	2.523	/
	DSI3		Top Edge	0	9538	1907.6	-0.01	1.980	18.36	19.50	1.300	2.574	11#
Ant. 1	DSI2	RMC	Back Side	0	9400	1880	-0.01	1.610	21.31	22.50	1.315	2.117	/
	DSI2		Bottom Edge	0	9400	1880	0.16	1.340	21.31	22.50	1.315	1.762	/
	DSI2		Back Side	0	9262	1852.4	0.09	1.740	21.29	22.50	1.321	2.299	/
	DSI2		Back Side	0	9538	1907.6	-0.05	1.490	21.31	22.50	1.315	1.959	/
Sensor-1													
Ant. 4	DSI4	RMC	Front Side	9	9262	1852.4	0.05	0.558	23.41	24.50	1.285	0.717	/
	DSI4		Back Side	9	9262	1852.4	-0.04	1.270	23.41	24.50	1.285	1.632	/
	DSI4		Top Edge	9	9262	1852.4	0.02	1.450	23.41	24.50	1.285	1.863	/
Ant. 1	DSI4	RMC	Front Side	9	9538	1907.6	0.03	0.295	23.84	25.00	1.306	0.385	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.4WCDMA Band 4

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.4	DSI1	RMC	Left Cheek	0	1513	1752.6	0.05	0.443	17.85	19.00	1.303	0.577	/
	DSI1		Left Tilt	0	1513	1752.6	0.00	0.596	17.85	19.00	1.303	0.777	/
	DSI1		Right Cheek	0	1513	1752.6	-0.05	0.601	17.85	19.00	1.303	0.783	/
	DSI1		Right Tilt	0	1513	1752.6	-0.08	0.773	17.85	19.00	1.303	1.007	/
	DSI1		Right Tilt	0	1312	1712.4	0.15	0.781	17.79	19.00	1.321	1.032	12#
	DSI1		Right Tilt	0	1412	1732.4	0.03	0.693	17.76	19.00	1.330	0.922	/
Ant.1	DSI1	RMC	Left Cheek	0	1312	1712.4	0.08	0.065	23.76	25.00	1.330	0.086	/
	DSI1		Left Tilt	0	1312	1712.4	-0.05	0.040	23.76	25.00	1.330	0.053	/
	DSI1		Right Cheek	0	1312	1712.4	-0.14	0.062	23.76	25.00	1.330	0.082	/
	DSI1		Right Tilt	0	1312	1712.4	-0.03	0.038	23.76	25.00	1.330	0.051	/
Body-worn													
Ant.4	DSI2&4	RMC	Front Side	15	1513	1752.6	0.10	0.274	23.80	25.00	1.318	0.361	/
	DSI2&4		Back Side	15	1513	1752.6	0.00	0.500	23.80	25.00	1.318	0.659	13#
Ant.1	DSI2&3	RMC	Front Side	15	1312	1712.4	-0.01	0.232	20.29	21.50	1.321	0.306	/
	DSI2&3		Back Side	15	1312	1712.4	-0.06	0.352	20.29	21.50	1.321	0.465	/
Hotspot													
Ant.4	DSI5	RMC	Front Side	10	1412	1732.4	-0.09	0.330	20.83	22.00	1.309	0.432	/
	DSI5		Back Side	10	1412	1732.4	0.03	0.610	20.83	22.00	1.309	0.798	/
	DSI5		Left Edge	10	1412	1732.4	0.03	0.038	20.83	22.00	1.309	0.050	/
	DSI5		Right Edge	10	1412	1732.4	0.15	0.021	20.83	22.00	1.309	0.027	/
	DSI5		Top Edge	10	1412	1732.4	-0.01	0.817	20.83	22.00	1.309	1.069	/
	DSI5		Top Edge	10	1312	1712.4	-0.01	0.824	20.79	22.00	1.321	1.089	14#
	DSI5		Top Edge	10	1513	1752.6	-0.10	0.801	20.77	22.00	1.327	1.063	/
Ant.1	DSI5	RMC	Front Side	10	1412	1732.4	0.13	0.205	21.28	22.50	1.324	0.271	/
	DSI5		Back Side	10	1412	1732.4	0.07	0.351	21.28	22.50	1.324	0.465	/
	DSI5		Left Edge	10	1412	1732.4	-0.11	0.088	21.28	22.50	1.324	0.117	/
	DSI5		Right Edge	10	1412	1732.4	-0.07	0.037	21.28	22.50	1.324	0.049	/
	DSI5		Bottom Edge	10	1412	1732.4	-0.01	0.591	21.28	22.50	1.324	0.782	/
	DSI5		Bottom Edge	10	1312	1712.4	0.05	0.576	21.20	22.50	1.349	0.777	/
	DSI5		Bottom Edge	10	1513	1752.6	0.09	0.511	21.24	22.50	1.337	0.683	/
Sensor-1													
Ant.1	DSI4	RMC	Back Side	15	1312	1712.4	-0.08	0.336	23.76	25.00	1.330	0.447	/
	DSI4		Bottom Edge	15	1312	1712.4	0.02	0.569	23.76	25.00	1.330	0.757	/

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

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific													
Ant.4	DSI3	RMC	Back Side	0	1412	1732.4	0.10	0.822	19.29	20.50	1.321	1.086	/
	DSI3		Top Edge	0	1412	1732.4	0.12	1.540	19.29	20.50	1.321	2.034	/
	DSI3		Top Edge	0	1312	1712.4	-0.01	1.670	19.26	20.50	1.330	2.221	15#
	DSI3		Top Edge	0	1513	1752.6	-0.05	1.500	19.27	20.50	1.327	1.991	/
Ant.1	DSI2	RMC	Back Side	0	1312	1712.4	-0.05	1.260	20.29	21.50	1.321	1.664	/
	DSI2		Bottom Edge	0	1312	1712.4	0.01	1.500	20.29	21.50	1.321	1.982	/
	DSI2		Bottom Edge	0	1412	1732.4	-0.06	1.500	20.23	21.50	1.340	2.010	/
	DSI2		Bottom Edge	0	1513	1752.6	-0.10	1.380	20.21	21.50	1.346	1.857	/
Sensor-1													
Ant.4	DSI4	RMC	Front Side	9	1513	1752.6	0.02	0.415	23.80	25.00	1.318	0.547	/
	DSI4		Back Side	9	1513	1752.6	0.02	0.894	23.80	25.00	1.318	1.178	/
	DSI4		Top Edge	9	1513	1752.6	0.05	1.140	23.80	25.00	1.318	1.503	/
Ant.1	DSI4	RMC	Front Side	9	1312	1712.4	-0.02	0.308	23.76	25.00	1.330	0.410	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.5WCDMA Band 5

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head													
Ant.4	DSI1	RMC	Left Cheek	0	4233	846.6	-0.04	0.777	22.59	23.50	1.233	0.958	16#
	DSI1		Left Tilt	0	4233	846.6	-0.02	0.596	22.59	23.50	1.233	0.735	/
	DSI1		Right Cheek	0	4233	846.6	0.02	0.597	22.59	23.50	1.233	0.736	/
	DSI1		Right Tilt	0	4233	846.6	-0.12	0.581	22.59	23.50	1.233	0.716	/
	DSI1		Left Cheek	0	4132	826.4	-0.04	0.665	22.20	23.50	1.349	0.897	/
	DSI1		Left Cheek	0	4182	836.4	-0.03	0.723	22.29	23.50	1.321	0.955	/
Ant.1	DSI1	RMC	Left Cheek	0	4233	846.6	-0.06	0.220	24.11	25.00	1.227	0.270	/
	DSI1		Left Tilt	0	4233	846.6	0.15	0.105	24.11	25.00	1.227	0.129	/
	DSI1		Right Cheek	0	4233	846.6	0.09	0.176	24.11	25.00	1.227	0.216	/
	DSI1		Right Tilt	0	4233	846.6	0.02	0.095	24.11	25.00	1.227	0.117	/
Body-worn													
Ant.4	DSI2&4	RMC	Front Side	15	4233	846.6	-0.03	0.188	23.69	25.00	1.352	0.254	/
	DSI2&4		Back Side	15	4233	846.6	0.03	0.254	23.69	25.00	1.352	0.343	17#
Ant.1	DSI2&3	RMC	Front Side	15	4233	846.6	0.07	0.166	24.11	25.00	1.227	0.204	/
	DSI2&3		Back Side	15	4233	846.6	0.11	0.180	24.11	25.00	1.227	0.221	/
Hotspot													
Ant.4	DSI5	RMC	Front Side	10	4233	846.6	0.16	0.258	23.69	25.00	1.352	0.349	/
	DSI5		Back Side	10	4233	846.6	0.04	0.437	23.69	25.00	1.352	0.591	18#
	DSI5		Left Edge	10	4233	846.6	0.01	0.157	23.69	25.00	1.352	0.212	/
	DSI5		Right Edge	10	4233	846.6	-0.10	0.139	23.69	25.00	1.352	0.188	/
	DSI5		Top Edge	10	4233	846.6	-0.07	0.247	23.69	25.00	1.352	0.334	/
Ant.1	DSI5	RMC	Front Side	10	4233	846.6	0.10	0.236	24.11	25.00	1.227	0.290	/
	DSI5		Back Side	10	4233	846.6	0.14	0.398	24.11	25.00	1.227	0.488	/
	DSI5		Left Edge	10	4233	846.6	-0.05	0.123	24.11	25.00	1.227	0.151	/
	DSI5		Right Edge	10	4233	846.6	-0.12	0.146	24.11	25.00	1.227	0.179	/
	DSI5		Bottom Edge	10	4233	846.6	-0.09	0.312	24.11	25.00	1.227	0.383	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.6LTE Band 2 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DSI1	QPSK	Left Cheek	0	19100	1900	1	Mid	0.12	0.373	15.80	17.00	1.318	0.492	/
	DSI1		Left Tilt	0	19100	1900	1	Mid	-0.08	0.470	15.80	17.00	1.318	0.619	/
	DSI1		Right Cheek	0	19100	1900	1	Mid	0.03	0.532	15.80	17.00	1.318	0.701	/
	DSI1		Right Tilt	0	19100	1900	1	Mid	0.04	0.665	15.80	17.00	1.318	0.876	/
	DSI1		Left Cheek	0	18700	1860	50	High	0.07	0.374	15.92	17.00	1.282	0.479	/
	DSI1		Left Tilt	0	18700	1860	50	High	0.10	0.480	15.92	17.00	1.282	0.615	/
	DSI1		Right Cheek	0	18700	1860	50	High	0.16	0.543	15.92	17.00	1.282	0.696	/
	DSI1		Right Tilt	0	18700	1860	50	High	-0.01	0.702	15.92	17.00	1.282	0.900	/
	DSI1		Right Tilt	0	18700	1860	1	Mid	-0.02	0.572	15.78	17.00	1.324	0.757	/
	DSI1		Right Tilt	0	18900	1880	1	Low	0.15	0.634	15.76	17.00	1.330	0.843	/
	DSI1		Right Tilt	0	18700	1860	50	Low	0.15	0.648	15.87	17.00	1.297	0.840	/
	DSI1		Right Tilt	0	18900	1880	50	Mid	0.01	0.704	15.62	17.00	1.374	0.967	19#
	DSI1		Right Tilt	0	18900	1880	100	Low	-0.02	0.657	15.75	17.00	1.334	0.876	/
	Ant.1		DSI1	QPSK	Left Cheek	0	18700	1860	1	Mid	-0.09	0.124	24.18	25.50	1.355
DSI1		Left Tilt	0		18700	1860	1	Mid	-0.08	0.100	24.18	25.50	1.355	0.136	/
DSI1		Right Cheek	0		18700	1860	1	Mid	-0.14	0.118	24.18	25.50	1.355	0.160	/
DSI1		Right Tilt	0		18700	1860	1	Mid	-0.06	0.094	24.18	25.50	1.355	0.127	/
DSI1		Left Cheek	0		18700	1860	50	Mid	0.12	0.097	23.21	24.50	1.346	0.131	/
DSI1		Left Tilt	0		18700	1860	50	Mid	-0.01	0.081	23.21	24.50	1.346	0.109	/
DSI1		Right Cheek	0		18700	1860	50	Mid	0.09	0.092	23.21	24.50	1.346	0.124	/
DSI1		Right Tilt	0		18700	1860	50	Mid	0.15	0.071	23.21	24.50	1.346	0.096	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	18700	1860	1	High	0.02	0.491	24.30	25.50	1.318	0.647	/
	DSI2&4		Back Side	15	18700	1860	1	High	-0.03	0.682	24.30	25.50	1.318	0.899	/
	DSI2&4		Front Side	15	18700	1860	50	High	-0.03	0.394	23.39	24.50	1.291	0.509	/
	DSI2&4		Back Side	15	18700	1860	50	High	-0.03	0.550	23.39	24.50	1.291	0.710	/
	DSI2&4		Back Side	15	18900	1880	1	Mid	0.00	0.695	24.26	25.50	1.330	0.924	20#
	DSI2&4		Back Side	15	19100	1900	1	Mid	-0.10	0.670	24.21	25.50	1.346	0.902	/
	DSI2&4		Back Side	15	18700	1860	100	Low	0.04	0.558	23.30	24.50	1.318	0.735	/
Ant.1	DSI2&3	QPSK	Front Side	15	18900	1880	1	Mid	-0.10	0.098	21.71	23.00	1.346	0.132	/
	DSI2&3		Back Side	15	18900	1880	1	Mid	-0.03	0.127	21.71	23.00	1.346	0.171	/
	DSI2&3		Front Side	15	18900	1880	50	Mid	-0.01	0.096	21.74	23.00	1.337	0.128	/
	DSI2&3		Back Side	15	18900	1880	50	Mid	0.12	0.125	21.74	23.00	1.337	0.167	/
Hotspot															
Ant.4	DSI5	QPSK	Front Side	10	18900	1880	1	Mid	-0.14	0.273	18.97	20.00	1.268	0.346	/
	DSI5		Back Side	10	18900	1880	1	Mid	-0.15	0.335	18.97	20.00	1.268	0.425	/

	DSI5		Left Edge	10	18900	1880	1	Mid	-0.11	0.033	18.97	20.00	1.268	0.042	/		
	DSI5		Right Edge	10	18900	1880	1	Mid	-0.08	0.005	18.97	20.00	1.268	0.006	/		
	DSI5		Top Edge	10	18900	1880	1	Mid	0.01	0.828	18.97	20.00	1.268	1.050	/		
	DSI5		Front Side	10	18700	1860	50	High	-0.03	0.286	18.98	20.00	1.265	0.362	/		
	DSI5		Back Side	10	18700	1860	50	High	0.13	0.372	18.98	20.00	1.265	0.471	/		
	DSI5		Left Edge	10	18700	1860	50	High	-0.13	0.035	18.98	20.00	1.265	0.044	/		
	DSI5		Right Edge	10	18700	1860	50	High	-0.10	0.005	18.98	20.00	1.265	0.006	/		
	DSI5		Top Edge	10	18700	1860	50	High	0.01	0.858	18.98	20.00	1.265	1.085	21#		
	DSI5		Top Edge	10	18700	1860	1	Mid	0.11	0.620	18.94	20.00	1.276	0.791	/		
	DSI5		Top Edge	10	19100	1900	1	Mid	0.08	0.649	18.84	20.00	1.306	0.848	/		
	DSI5		Top Edge	10	18900	1880	50	Mid	0.09	0.800	18.86	20.00	1.300	1.040	/		
	DSI5		Top Edge	10	19100	1900	50	Mid	0.06	0.819	18.82	20.00	1.312	1.075	/		
	DSI5		Top Edge	10	18700	1860	100	Low	-0.14	0.824	18.83	20.00	1.309	1.079	/		
	Ant.1		DSI5	QPSK	Front Side	10	18700	1860	1	Mid	-0.01	0.325	22.68	24.00	1.355	0.440	/
			DSI5		Back Side	10	18700	1860	1	Mid	-0.13	0.478	22.68	24.00	1.355	0.648	/
DSI5		Left Edge	10		18700	1860	1	Mid	0.12	0.210	22.68	24.00	1.355	0.285	/		
DSI5		Right Edge	10		18700	1860	1	Mid	-0.05	0.066	22.68	24.00	1.355	0.089	/		
DSI5		Bottom Edge	10		18700	1860	1	Mid	-0.09	0.551	22.68	24.00	1.355	0.747	/		
DSI5		Front Side	10		18700	1860	50	Mid	0.11	0.365	22.81	24.00	1.315	0.480	/		
DSI5		Back Side	10		18700	1860	50	Mid	0.11	0.507	22.81	24.00	1.315	0.667	/		
DSI5		Left Edge	10		18700	1860	50	Mid	-0.14	0.222	22.81	24.00	1.315	0.292	/		
DSI5		Right Edge	10		18700	1860	50	Mid	0.16	0.068	22.81	24.00	1.315	0.089	/		
DSI5		Bottom Edge	10		18700	1860	50	Mid	0.04	0.570	22.81	24.00	1.315	0.750	/		
Sensor-1																	
Ant.1	DSI4	QPSK	Back Side	15	18700	1860	1	Mid	-0.04	0.237	24.18	25.50	1.355	0.321	/		
	DSI4		Bottom Edge	15	18700	1860	1	Mid	0.09	0.406	24.18	25.50	1.355	0.550	/		
	DSI4		Back Side	15	18700	1860	50	Mid	0.00	0.185	23.21	24.50	1.346	0.249	/		
	DSI4		Bottom Edge	15	18700	1860	50	Mid	0.05	0.326	23.21	24.50	1.346	0.439	/		
Note: Refer to ANNEX C for the detailed test data for each test configuration.																	

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.4	DSI3	QPSK	Back Side	0	18700	1860	1	Mid	0.16	0.694	17.88	19.00	1.294	0.898	/
	DSI3		Top Edge	0	18700	1860	1	Mid	-0.03	1.750	17.88	19.00	1.294	2.265	/
	DSI3		Back Side	0	18700	1860	50	Mid	0.16	0.700	17.88	19.00	1.294	0.906	/
	DSI3		Top Edge	0	18700	1860	50	Mid	-0.04	1.800	17.88	19.00	1.294	2.329	22#
	DSI3		Top Edge	0	18900	1880	1	Mid	0.12	1.670	17.83	19.00	1.309	2.186	/
	DSI3		Top Edge	0	19100	1900	1	Mid	-0.07	1.690	17.61	19.00	1.377	2.327	/
	DSI3		Top Edge	0	18900	1880	50	High	0.10	1.710	17.79	19.00	1.321	2.259	/
	DSI3		Top Edge	0	19100	1900	50	Mid	0.01	1.700	17.67	19.00	1.358	2.309	/
	DSI3		Top Edge	0	18700	1860	100	Low	0.05	1.740	17.74	19.00	1.337	2.326	/
Ant.1	DSI2	QPSK	Back Side	0	18900	1880	1	Mid	-0.06	1.460	21.71	23.00	1.346	1.965	/
	DSI2		Bottom Edge	0	18900	1880	1	Mid	-0.11	1.310	21.71	23.00	1.346	1.763	/
	DSI2		Back Side	0	18900	1880	50	Mid	0.16	1.480	21.74	23.00	1.337	1.979	/
	DSI2		Bottom Edge	0	18900	1880	50	Mid	0.00	1.280	21.74	23.00	1.337	1.711	/
Sensor-1															
Ant.4	DSI4	QPSK	Front Side	9	18700	1860	1	High	0.01	0.543	24.30	25.50	1.318	0.716	/
	DSI4		Back Side	9	18700	1860	1	High	0.03	1.240	24.30	25.50	1.318	1.634	/
	DSI4		Top Edge	9	18700	1860	1	High	0.06	1.480	24.30	25.50	1.318	1.951	/
	DSI4		Front Side	9	18700	1860	50	High	-0.02	0.427	23.39	24.50	1.291	0.551	/
	DSI4		Back Side	9	18700	1860	50	High	-0.01	0.982	23.39	24.50	1.291	1.268	/
	DSI4		Top Edge	9	18700	1860	50	High	0.03	1.160	23.39	24.50	1.291	1.498	/
Ant.1	DSI4	QPSK	Front Side	9	18700	1860	1	Mid	0.04	0.297	24.18	25.50	1.355	0.402	/
	DSI4		Front Side	9	18700	1860	50	Mid	-0.09	0.237	23.21	24.50	1.346	0.319	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.7LTE Band 4 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DSI1	QPSK	Left Cheek	0	20175	1732.5	1	Mid	0.07	0.411	17.28	18.50	1.324	0.544	/
	DSI1		Left Tilt	0	20175	1732.5	1	Mid	0.11	0.510	17.28	18.50	1.324	0.675	/
	DSI1		Right Cheek	0	20175	1732.5	1	Mid	0.05	0.568	17.28	18.50	1.324	0.752	/
	DSI1		Right Tilt	0	20175	1732.5	1	Mid	0.08	0.659	17.28	18.50	1.324	0.873	/
	DSI1		Left Cheek	0	20050	1720	50	High	-0.01	0.424	17.46	18.50	1.271	0.539	/
	DSI1		Left Tilt	0	20050	1720	50	High	-0.02	0.522	17.46	18.50	1.271	0.663	/
	DSI1		Right Cheek	0	20050	1720	50	High	0.13	0.584	17.46	18.50	1.271	0.742	/
	DSI1		Right Tilt	0	20050	1720	50	High	0.01	0.671	17.46	18.50	1.271	0.853	/
	DSI1		Right Tilt	0	20050	1720	1	Mid	0.15	0.666	17.22	18.50	1.343	0.894	/
	DSI1		Right Tilt	0	20300	1745	1	Mid	-0.13	0.638	17.23	18.50	1.340	0.855	/
	DSI1		Right Tilt	0	20175	1732.5	50	Mid	-0.02	0.671	17.24	18.50	1.337	0.897	23#
	DSI1		Right Tilt	0	20300	1745	50	Low	0.14	0.640	17.28	18.50	1.324	0.847	/
	DSI1		Right Tilt	0	20050	1720	100	Low	0.15	0.665	17.26	18.50	1.330	0.884	/
Ant.1	DSI1	QPSK	Left Cheek	0	20050	1720	1	Mid	-0.01	0.068	24.25	25.50	1.334	0.091	/
	DSI1		Left Tilt	0	20050	1720	1	Mid	-0.04	0.041	24.25	25.50	1.334	0.055	/
	DSI1		Right Cheek	0	20050	1720	1	Mid	0.06	0.061	24.25	25.50	1.334	0.081	/
	DSI1		Right Tilt	0	20050	1720	1	Mid	0.13	0.039	24.25	25.50	1.334	0.052	/
	DSI1		Left Cheek	0	20050	1720	50	Mid	0.05	0.056	23.31	24.50	1.315	0.074	/
	DSI1		Left Tilt	0	20050	1720	50	Mid	-0.01	0.035	23.31	24.50	1.315	0.046	/
	DSI1		Right Cheek	0	20050	1720	50	Mid	-0.01	0.051	23.31	24.50	1.315	0.067	/
	DSI1		Right Tilt	0	20050	1720	50	Mid	-0.02	0.032	23.31	24.50	1.315	0.042	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	20175	1732.5	1	Mid	-0.14	0.401	24.29	25.50	1.321	0.530	/
	DSI2&4		Back Side	15	20175	1732.5	1	Mid	-0.01	0.554	24.29	25.50	1.321	0.732	24#
	DSI2&4		Front Side	15	20300	1745	50	Mid	0.10	0.413	23.28	24.50	1.324	0.547	/
	DSI2&4		Back Side	15	20300	1745	50	Mid	-0.13	0.551	23.28	24.50	1.324	0.730	/
Ant.1	DSI2&3	QPSK	Front Side	15	20300	1745	1	Mid	0.08	0.115	20.75	22.00	1.334	0.153	/
	DSI2&3		Back Side	15	20300	1745	1	Mid	-0.13	0.177	20.75	22.00	1.334	0.236	/
	DSI2&3		Front Side	15	20050	1720	50	High	-0.03	0.115	20.82	22.00	1.312	0.151	/
	DSI2&3		Back Side	15	20050	1720	50	High	-0.08	0.173	20.82	22.00	1.312	0.227	/
Hotspot															
Ant.4	DSI5	QPSK	Front Side	10	20300	1745	1	Mid	0.13	0.251	20.85	22.00	1.303	0.327	/
	DSI5		Back Side	10	20300	1745	1	Mid	0.00	0.311	20.85	22.00	1.303	0.405	/
	DSI5		Left Edge	10	20300	1745	1	Mid	-0.09	0.027	20.85	22.00	1.303	0.035	/
	DSI5		Right Edge	10	20300	1745	1	Mid	0.02	0.006	20.85	22.00	1.303	0.008	/
	DSI5		Top Edge	10	20300	1745	1	Mid	0.15	0.785	20.85	22.00	1.303	1.023	/

	DSI5		Front Side	10	20050	1720	50	High	0.16	0.269	20.93	22.00	1.279	0.344	/
	DSI5		Back Side	10	20050	1720	50	High	-0.08	0.339	20.93	22.00	1.279	0.434	/
	DSI5		Left Edge	10	20050	1720	50	High	0.05	0.025	20.93	22.00	1.279	0.032	/
	DSI5		Right Edge	10	20050	1720	50	High	0.11	0.006	20.93	22.00	1.279	0.008	/
	DSI5		Top Edge	10	20050	1720	50	High	0.01	0.830	20.93	22.00	1.279	1.062	25#
	DSI5		Top Edge	10	20050	1720	1	Mid	0.00	0.743	20.63	22.00	1.371	1.019	/
	DSI5		Top Edge	10	20175	1732.5	1	Mid	0.14	0.759	20.57	22.00	1.390	1.055	/
	DSI5		Top Edge	10	20175	1732.5	50	High	-0.14	0.790	20.74	22.00	1.337	1.056	/
	DSI5		Top Edge	10	20300	1745	50	Mid	-0.03	0.765	20.79	22.00	1.321	1.011	/
	DSI5		Top Edge	10	20050	1720	100	Low	0.02	0.750	20.78	22.00	1.324	0.993	/
Ant.1	DSI5	QPSK	Front Side	10	20300	1745	1	Mid	0.03	0.208	21.80	23.00	1.318	0.274	/
	DSI5		Back Side	10	20300	1745	1	Mid	0.08	0.357	21.80	23.00	1.318	0.471	/
	DSI5		Left Edge	10	20300	1745	1	Mid	0.11	0.085	21.80	23.00	1.318	0.112	/
	DSI5		Right Edge	10	20300	1745	1	Mid	0.11	0.060	21.80	23.00	1.318	0.079	/
	DSI5		Bottom Edge	10	20300	1745	1	Mid	-0.01	0.548	21.80	23.00	1.318	0.722	/
	DSI5		Front Side	10	20050	1720	50	Mid	0.02	0.200	21.89	23.00	1.291	0.258	/
	DSI5		Back Side	10	20050	1720	50	Mid	0.11	0.333	21.89	23.00	1.291	0.430	/
	DSI5		Left Edge	10	20050	1720	50	Mid	0.11	0.093	21.89	23.00	1.291	0.120	/
	DSI5		Right Edge	10	20050	1720	50	Mid	-0.08	0.060	21.89	23.00	1.291	0.077	/
	DSI5		Bottom Edge	10	20050	1720	50	Mid	-0.08	0.541	21.89	23.00	1.291	0.698	/
Sensor-1															
Ant.1	DSI4	QPSK	Back Side	15	20050	1720	1	Mid	0.00	0.344	24.25	25.50	1.334	0.459	/
	DSI4		Bottom Edge	15	20050	1720	1	Mid	-0.03	0.558	24.25	25.50	1.334	0.744	/
	DSI4		Back Side	15	20050	1720	50	Mid	0.01	0.271	23.31	24.50	1.315	0.356	/
	DSI4		Bottom Edge	15	20050	1720	50	Mid	0.05	0.445	23.31	24.50	1.315	0.585	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.4	DSI3	QPSK	Top Edge	0	20175	1732.5	1	Mid	0.00	1.770	19.78	21.00	1.324	2.343	/
	DSI3		Top Edge	0	20050	1720	50	High	0.09	1.780	19.81	21.00	1.315	2.341	/
	DSI3		Top Edge	0	20050	1720	1	Mid	-0.01	1.870	19.76	21.00	1.330	2.487	26#
	DSI3		Top Edge	0	20300	1745	1	Mid	0.10	1.730	19.77	21.00	1.327	2.296	/
	DSI3		Top Edge	0	20175	1732.5	50	High	-0.06	1.850	19.78	21.00	1.324	2.449	/
	DSI3		Top Edge	0	20300	1745	50	High	0.15	1.780	19.75	21.00	1.334	2.375	/
	DSI3		Top Edge	0	20175	1732.5	100	Low	-0.03	1.800	19.71	21.00	1.346	2.423	/
Ant.1	DSI2	QPSK	Bottom Edge	0	20300	1745	1	Mid	-0.02	1.480	20.75	22.00	1.334	1.974	/
	DSI2		Bottom Edge	0	20050	1720	50	High	-0.05	1.480	20.82	22.00	1.312	1.942	/
Sensor-1															
Ant.4	DSI4	QPSK	Front Side	9	20175	1732.5	1	Mid	0.02	0.408	24.29	25.50	1.321	0.539	/
	DSI4		Back Side	9	20175	1732.5	1	Mid	-0.04	0.876	24.29	25.50	1.321	1.157	/
	DSI4		Top Edge	9	20175	1732.5	1	Mid	-0.08	1.050	24.29	25.50	1.321	1.387	/
	DSI4		Front Side	9	20300	1745	50	Mid	-0.08	0.328	23.28	24.50	1.324	0.434	/
	DSI4		Back Side	9	20300	1745	50	Mid	0.06	0.703	23.28	24.50	1.324	0.931	/
	DSI4		Top Edge	9	20300	1745	50	Mid	0.09	0.834	23.28	24.50	1.324	1.104	/
Ant.1	DSI4	QPSK	Front Side	9	20050	1720	1	Mid	-0.05	0.294	24.25	25.50	1.334	0.392	/
	DSI4		Front Side	9	20050	1720	50	Mid	0.00	0.231	23.31	24.50	1.315	0.304	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.8LTE Band 5 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DSI1	QPSK	Left Cheek	0	20600	844	1	Mid	0.00	0.703	22.36	23.50	1.300	0.914	27#
	DSI1		Left Tilt	0	20600	844	1	Mid	-0.02	0.552	22.36	23.50	1.300	0.718	/
	DSI1		Right Cheek	0	20600	844	1	Mid	0.00	0.610	22.36	23.50	1.300	0.793	/
	DSI1		Right Tilt	0	20600	844	1	Mid	-0.09	0.535	22.36	23.50	1.300	0.696	/
	DSI1		Left Cheek	0	20525	836.5	25	Mid	0.00	0.664	22.36	23.50	1.300	0.863	/
	DSI1		Left Tilt	0	20525	836.5	25	Mid	0.12	0.599	22.36	23.50	1.300	0.779	/
	DSI1		Right Cheek	0	20525	836.5	25	Mid	-0.14	0.608	22.36	23.50	1.300	0.790	/
	DSI1		Right Tilt	0	20525	836.5	25	Mid	-0.06	0.540	22.36	23.50	1.300	0.702	/
	DSI1		Left Cheek	0	20450	829	1	Mid	0.09	0.603	22.32	23.50	1.312	0.791	/
	DSI1		Left Cheek	0	20525	836.5	1	Mid	-0.03	0.656	22.35	23.50	1.303	0.855	/
	DSI1		Left Cheek	0	20450	829	25	Low	0.02	0.669	22.20	23.50	1.349	0.902	/
	DSI1		Left Cheek	0	20600	844	25	Mid	0.04	0.626	22.34	23.50	1.306	0.818	/
	DSI1		Left Cheek	0	20525	836.5	50	Low	-0.10	0.655	22.28	23.50	1.324	0.867	/
	Ant.1		DSI1	QPSK	Left Cheek	0	20525	836.5	1	High	-0.14	0.222	23.95	25.50	1.429
DSI1		Left Tilt	0		20525	836.5	1	High	0.11	0.112	23.95	25.50	1.429	0.160	/
DSI1		Right Cheek	0		20525	836.5	1	High	0.01	0.189	23.95	25.50	1.429	0.270	/
DSI1		Right Tilt	0		20525	836.5	1	High	0.08	0.097	23.95	25.50	1.429	0.139	/
DSI1		Left Cheek	0		20600	844	25	Mid	-0.14	0.179	22.97	24.50	1.422	0.255	/
DSI1		Left Tilt	0		20600	844	25	Mid	0.14	0.092	22.97	24.50	1.422	0.131	/
DSI1		Right Cheek	0		20600	844	25	Mid	0.00	0.150	22.97	24.50	1.422	0.213	/
DSI1		Right Tilt	0		20600	844	25	Mid	-0.06	0.076	22.97	24.50	1.422	0.108	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	20600	844	1	High	-0.02	0.124	24.35	25.50	1.303	0.162	/
	DSI2&4		Back Side	15	20600	844	1	High	0.16	0.154	24.35	25.50	1.303	0.201	/
	DSI2&4		Front Side	15	20600	844	25	Mid	-0.05	0.107	23.37	24.50	1.297	0.139	/
	DSI2&4		Back Side	15	20600	844	25	Mid	0.01	0.132	23.37	24.50	1.297	0.171	/
Ant.1	DSI2&3	QPSK	Front Side	15	20525	836.5	1	High	0.02	0.180	23.95	25.50	1.429	0.257	/
	DSI2&3		Back Side	15	20525	836.5	1	High	0.01	0.204	23.95	25.50	1.429	0.292	28#
	DSI2&3		Front Side	15	20600	844	25	Mid	0.11	0.145	22.97	24.50	1.422	0.206	/
	DSI2&3		Back Side	15	20600	844	25	Mid	-0.02	0.164	22.97	24.50	1.422	0.233	/
Hotspot															
Ant.4	DSI5	QPSK	Front Side	10	20600	844	1	High	0.16	0.241	24.35	25.50	1.303	0.314	/
	DSI5		Back Side	10	20600	844	1	High	0.07	0.266	24.35	25.50	1.303	0.347	/
	DSI5		Left Edge	10	20600	844	1	High	0.02	0.106	24.35	25.50	1.303	0.138	/
	DSI5		Right Edge	10	20600	844	1	High	-0.03	0.133	24.35	25.50	1.303	0.173	/
	DSI5		Top Edge	10	20600	844	1	High	0.06	0.246	24.35	25.50	1.303	0.321	/

	DSI5		Front Side	10	20600	844	25	Mid	0.07	0.202	23.37	24.50	1.297	0.262	/
	DSI5		Back Side	10	20600	844	25	Mid	0.13	0.213	23.37	24.50	1.297	0.276	/
	DSI5		Left Edge	10	20600	844	25	Mid	0.09	0.090	23.37	24.50	1.297	0.117	/
	DSI5		Right Edge	10	20600	844	25	Mid	-0.08	0.112	23.37	24.50	1.297	0.145	/
	DSI5		Top Edge	10	20600	844	25	Mid	0.14	0.208	23.37	24.50	1.297	0.270	/
Ant.1	DSI5	QPSK	Front Side	10	20525	836.5	1	High	0.13	0.240	23.95	25.50	1.429	0.343	/
	DSI5		Back Side	10	20525	836.5	1	High	-0.01	0.381	23.95	25.50	1.429	0.544	29#
	DSI5		Left Edge	10	20525	836.5	1	High	-0.05	0.107	23.95	25.50	1.429	0.153	/
	DSI5		Right Edge	10	20525	836.5	1	High	-0.09	0.187	23.95	25.50	1.429	0.267	/
	DSI5		Bottom Edge	10	20525	836.5	1	High	0.04	0.322	23.95	25.50	1.429	0.460	/
	DSI5		Front Side	10	20600	844	25	Mid	-0.05	0.197	22.97	24.50	1.422	0.280	/
	DSI5		Back Side	10	20600	844	25	Mid	0.08	0.320	22.97	24.50	1.422	0.455	/
	DSI5		Left Edge	10	20600	844	25	Mid	0.00	0.081	22.97	24.50	1.422	0.115	/
	DSI5		Right Edge	10	20600	844	25	Mid	0.14	0.154	22.97	24.50	1.422	0.219	/
	DSI5		Bottom Edge	10	20600	844	25	Mid	0.04	0.243	22.97	24.50	1.422	0.346	/

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

11.9LTE Band 7 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DS1	QPSK	Left Cheek	0	20850	2510	1	High	0.00	0.354	17.59	18.00	1.099	0.389	/
	DS1		Left Tilt	0	20850	2510	1	High	-0.03	0.457	17.59	18.00	1.099	0.502	/
	DS1		Right Cheek	0	20850	2510	1	High	0.00	0.854	17.59	18.00	1.099	0.939	/
	DS1		Right Tilt	0	20850	2510	1	High	-0.01	0.724	17.59	18.00	1.099	0.796	/
	DS1		Left Cheek	0	21100	2535	50	High	0.15	0.357	17.59	18.00	1.099	0.392	/
	DS1		Left Tilt	0	21100	2535	50	High	0.09	0.449	17.59	18.00	1.099	0.493	/
	DS1		Right Cheek	0	21100	2535	50	High	0.02	0.852	17.59	18.00	1.099	0.936	/
	DS1		Right Tilt	0	21100	2535	50	High	0.02	0.714	17.59	18.00	1.099	0.785	/
	DS1		Right Cheek	0	21100	2535	1	Mid	0.01	0.892	17.49	18.00	1.125	1.004	30#
	DS1		Right Cheek	0	21350	2560	1	Mid	-0.02	0.820	17.29	18.00	1.178	0.966	/
	DS1		Right Cheek	0	20850	2510	50	High	0.05	0.831	17.56	18.00	1.107	0.920	/
	DS1		Right Cheek	0	21350	2560	50	Mid	-0.13	0.835	17.38	18.00	1.153	0.963	/
	DS1		Right Cheek	0	21100	2535	100	Low	-0.15	0.840	17.63	18.00	1.089	0.915	/
Ant.1	DS1	QPSK	Left Cheek	0	21100	2535	1	Mid	0.01	0.056	24.68	25.50	1.208	0.068	/
	DS1		Left Tilt	0	21100	2535	1	Mid	0.03	0.050	24.68	25.50	1.208	0.060	/
	DS1		Right Cheek	0	21100	2535	1	Mid	-0.08	0.053	24.68	25.50	1.208	0.064	/
	DS1		Right Tilt	0	21100	2535	1	Mid	0.12	0.047	24.68	25.50	1.208	0.057	/
	DS1		Left Cheek	0	20850	2510	50	Mid	0.00	0.043	23.55	24.50	1.245	0.054	/
	DS1		Left Tilt	0	20850	2510	50	Mid	-0.09	0.039	23.55	24.50	1.245	0.049	/
	DS1		Right Cheek	0	20850	2510	50	Mid	0.13	0.042	23.55	24.50	1.245	0.052	/
	DS1		Right Tilt	0	20850	2510	50	Mid	-0.12	0.036	23.55	24.50	1.245	0.045	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	21100	2535	1	Mid	0.03	0.211	23.03	23.50	1.114	0.235	/
	DSI2&4		Back Side	15	21100	2535	1	Mid	-0.02	0.368	23.03	23.50	1.114	0.410	31#
	DSI2&4		Front Side	15	21100	2535	50	Mid	0.10	0.218	23.19	23.50	1.074	0.234	/
	DSI2&4		Back Side	15	21100	2535	50	Mid	-0.11	0.370	23.19	23.50	1.074	0.397	/
Ant.1	DSI2&3	QPSK	Front Side	15	21100	2535	1	Mid	0.05	0.097	18.62	19.50	1.225	0.119	/
	DSI2&3		Back Side	15	21100	2535	1	Mid	0.00	0.218	18.62	19.50	1.225	0.267	/
	DSI2&3		Front Side	15	20850	2510	50	High	-0.10	0.095	18.61	19.50	1.227	0.117	/
	DSI2&3		Back Side	15	20850	2510	50	High	-0.06	0.213	18.61	19.50	1.227	0.261	/
Hotspot															
Ant.4	DSI5	QPSK	Front Side	10	21100	2535	1	Mid	-0.11	0.202	20.67	21.00	1.079	0.218	/
	DSI5		Back Side	10	21100	2535	1	Mid	0.10	0.178	20.67	21.00	1.079	0.192	/
	DSI5		Left Edge	10	21100	2535	1	Mid	0.09	0.123	20.67	21.00	1.079	0.133	/
	DSI5		Right Edge	10	21100	2535	1	Mid	0.08	0.004	20.67	21.00	1.079	0.004	/
	DSI5		Top Edge	10	21100	2535	1	Mid	0.07	0.397	20.67	21.00	1.079	0.428	/

	DSI5		Front Side	10	21100	2535	50	Mid	0.03	0.242	20.71	21.00	1.069	0.259	/
	DSI5		Back Side	10	21100	2535	50	Mid	0.09	0.228	20.71	21.00	1.069	0.244	/
	DSI5		Left Edge	10	21100	2535	50	Mid	0.09	0.168	20.71	21.00	1.069	0.180	/
	DSI5		Right Edge	10	21100	2535	50	Mid	0.05	0.004	20.71	21.00	1.069	0.004	/
	DSI5		Top Edge	10	21100	2535	50	Mid	-0.15	0.492	20.71	21.00	1.069	0.526	/
	DSI5		Top Edge	10	20850	2510	1	Mid	0.11	0.324	20.58	21.00	1.102	0.357	/
	DSI5		Top Edge	10	21350	2560	1	Mid	0.02	0.382	20.24	21.00	1.191	0.455	/
	DSI5		Top Edge	10	20850	2510	50	Mid	-0.02	0.434	20.52	21.00	1.117	0.485	/
	DSI5		Top Edge	10	21350	2560	50	Mid	-0.01	0.517	20.29	21.00	1.178	0.609	/
	DSI5		Top Edge	10	21100	2535	100	Low	0.06	0.500	20.45	21.00	1.135	0.568	/
Ant.1	DSI5	QPSK	Front Side	10	21100	2535	1	Mid	0.12	0.219	18.62	19.50	1.225	0.268	/
	DSI5		Back Side	10	21100	2535	1	Mid	0.13	0.488	18.62	19.50	1.225	0.598	/
	DSI5		Left Edge	10	21100	2535	1	Mid	-0.15	0.005	18.62	19.50	1.225	0.006	/
	DSI5		Right Edge	10	21100	2535	1	Mid	-0.11	0.075	18.62	19.50	1.225	0.092	/
	DSI5		Bottom Edge	10	21100	2535	1	Mid	-0.05	0.529	18.62	19.50	1.225	0.648	/
	DSI5		Front Side	10	20850	2510	50	High	-0.03	0.221	18.61	19.50	1.227	0.271	/
	DSI5		Back Side	10	20850	2510	50	High	-0.10	0.513	18.61	19.50	1.227	0.629	/
	DSI5		Left Edge	10	20850	2510	50	High	0.01	0.005	18.61	19.50	1.227	0.006	/
	DSI5		Right Edge	10	20850	2510	50	High	-0.02	0.076	18.61	19.50	1.227	0.093	/
	DSI5		Bottom Edge	10	20850	2510	50	High	0.16	0.554	18.61	19.50	1.227	0.680	32#
Sensor-1															
Ant.1	DSI4	QPSK	Back Side	15	21100	2535	1	Mid	0.09	0.334	21.17	22.00	1.211	0.404	/
	DSI4		Bottom Edge	15	21100	2535	1	Mid	0.09	0.602	21.17	22.00	1.211	0.729	/
	DSI4		Back Side	15	20850	2510	50	High	0.08	0.336	21.05	22.00	1.245	0.418	/
	DSI4		Bottom Edge	15	20850	2510	50	High	0.06	0.596	21.05	22.00	1.245	0.742	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.4	DSI3	QPSK	Front Side	0	21100	2535	1	Mid	-0.02	0.757	19.65	20.00	1.084	0.821	/
	DSI3		Back Side	0	21100	2535	1	Mid	0.09	0.571	19.65	20.00	1.084	0.619	/
	DSI3		Top Edge	0	21100	2535	1	Mid	-0.07	1.580	19.65	20.00	1.084	1.713	/
	DSI3		Front Side	0	21100	2535	50	Mid	0.00	0.771	19.60	20.00	1.096	0.845	/
	DSI3		Back Side	0	21100	2535	50	Mid	0.03	0.587	19.60	20.00	1.096	0.643	/
	DSI3		Top Edge	0	21100	2535	50	Mid	0.01	1.590	19.60	20.00	1.096	1.743	33#
Ant.1	DSI2	QPSK	Back Side	0	21100	2535	1	Mid	0.03	0.798	18.62	19.50	1.225	0.978	/
	DSI2		Bottom Edge	0	21100	2535	1	Mid	-0.01	0.843	18.62	19.50	1.225	1.033	/
	DSI2		Back Side	0	20850	2510	50	High	-0.04	0.792	18.61	19.50	1.227	0.972	/
	DSI2		Bottom Edge	0	20850	2510	50	High	0.06	0.830	18.61	19.50	1.227	1.018	/
Sensor-1															
Ant.4	DSI4	QPSK	Front Side	9	21100	2535	1	Mid	-0.09	0.296	23.03	23.50	1.114	0.330	/
	DSI4		Back Side	9	21100	2535	1	Mid	-0.09	0.510	23.03	23.50	1.114	0.568	/
	DSI4		Top Edge	9	21100	2535	1	Mid	-0.01	0.634	23.03	23.50	1.114	0.706	/
	DSI4		Front Side	9	21100	2535	50	Mid	0.07	0.301	23.19	23.50	1.074	0.323	/
	DSI4		Back Side	9	21100	2535	50	Mid	-0.04	0.509	23.19	23.50	1.074	0.547	/
	DSI4		Top Edge	9	21100	2535	50	Mid	0.09	0.627	23.19	23.50	1.074	0.673	/
Ant.1	DSI4	QPSK	Front Side	9	21100	2535	1	Mid	0.00	0.193	21.17	22.00	1.211	0.234	/
	DSI4		Front Side	9	20850	2510	50	High	0.07	0.190	21.05	22.00	1.245	0.237	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.10 LTE Band 12 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DSI1	QPSK	Left Cheek	0	23095	707.5	1	Mid	-0.08	0.366	24.04	25.50	1.400	0.512	/
	DSI1		Left Tilt	0	23095	707.5	1	Mid	0.00	0.358	24.04	25.50	1.400	0.501	/
	DSI1		Right Cheek	0	23095	707.5	1	Mid	0.00	0.518	24.04	25.50	1.400	0.725	34#
	DSI1		Right Tilt	0	23095	707.5	1	Mid	-0.12	0.463	24.04	25.50	1.400	0.648	/
	DSI1		Left Cheek	0	23060	704	25	Mid	0.01	0.318	22.98	24.50	1.419	0.451	/
	DSI1		Left Tilt	0	23060	704	25	Mid	0.05	0.301	22.98	24.50	1.419	0.427	/
	DSI1		Right Cheek	0	23060	704	25	Mid	0.10	0.410	22.98	24.50	1.419	0.582	/
	DSI1		Right Tilt	0	23060	704	25	Mid	0.03	0.368	22.98	24.50	1.419	0.522	/
Ant.1	DSI1	QPSK	Left Cheek	0	23095	707.5	1	Mid	0.13	0.115	24.02	25.50	1.406	0.162	/
	DSI1		Left Tilt	0	23095	707.5	1	Mid	-0.07	0.062	24.02	25.50	1.406	0.087	/
	DSI1		Right Cheek	0	23095	707.5	1	Mid	0.10	0.103	24.02	25.50	1.406	0.145	/
	DSI1		Right Tilt	0	23095	707.5	1	Mid	-0.14	0.056	24.02	25.50	1.406	0.079	/
	DSI1		Left Cheek	0	23095	707.5	25	High	0.09	0.092	22.97	24.50	1.422	0.131	/
	DSI1		Left Tilt	0	23095	707.5	25	High	0.05	0.050	22.97	24.50	1.422	0.071	/
	DSI1		Right Cheek	0	23095	707.5	25	High	-0.03	0.081	22.97	24.50	1.422	0.115	/
	DSI1		Right Tilt	0	23095	707.5	25	High	-0.13	0.043	22.97	24.50	1.422	0.061	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	23095	707.5	1	Mid	0.02	0.107	24.04	25.50	1.400	0.150	/
	DSI2&4		Back Side	15	23095	707.5	1	Mid	-0.06	0.140	24.04	25.50	1.400	0.196	/
	DSI2&4		Front Side	15	23060	704	25	Mid	0.16	0.088	22.98	24.50	1.419	0.125	/
	DSI2&4		Back Side	15	23060	704	25	Mid	0.05	0.116	22.98	24.50	1.419	0.165	/
Ant.1	DSI2&3	QPSK	Front Side	15	23095	707.5	1	Mid	0.10	0.165	24.02	25.50	1.406	0.232	/
	DSI2&3		Back Side	15	23095	707.5	1	Mid	0.00	0.202	24.02	25.50	1.406	0.284	35#
	DSI2&3		Front Side	15	23095	707.5	25	High	-0.14	0.131	22.97	24.50	1.422	0.186	/
	DSI2&3		Back Side	15	23095	707.5	25	High	0.15	0.164	22.97	24.50	1.422	0.233	/
Hotspot															
Ant.4	DSI5	QPSK	Front Side	10	23095	707.5	1	Mid	-0.01	0.102	24.04	25.50	1.400	0.143	/
	DSI5		Back Side	10	23095	707.5	1	Mid	0.06	0.149	24.04	25.50	1.400	0.209	/
	DSI5		Left Edge	10	23095	707.5	1	Mid	-0.03	0.132	24.04	25.50	1.400	0.185	/
	DSI5		Right Edge	10	23095	707.5	1	Mid	0.06	0.103	24.04	25.50	1.400	0.144	/
	DSI5		Top Edge	10	23095	707.5	1	Mid	0.02	0.105	24.04	25.50	1.400	0.147	/
	DSI5		Front Side	10	23095	707.5	25	Mid	-0.11	0.087	22.98	24.50	1.419	0.123	/
	DSI5		Back Side	10	23095	707.5	25	Mid	-0.13	0.120	22.98	24.50	1.419	0.170	/
	DSI5		Left Edge	10	23095	707.5	25	Mid	0.09	0.106	22.98	24.50	1.419	0.150	/
	DSI5		Right Edge	10	23095	707.5	25	Mid	-0.01	0.084	22.98	24.50	1.419	0.119	/
	DSI5		Top Edge	10	23095	707.5	25	Mid	0.12	0.081	22.98	24.50	1.419	0.115	/

Ant.1	DSI5	QPSK	Front Side	10	23095	707.5	1	Mid	0.10	0.114	24.02	25.50	1.406	0.160	/
	DSI5		Back Side	10	23095	707.5	1	Mid	-0.13	0.188	24.02	25.50	1.406	0.264	/
	DSI5		Left Edge	10	23095	707.5	1	Mid	0.09	0.147	24.02	25.50	1.406	0.207	/
	DSI5		Right Edge	10	23095	707.5	1	Mid	0.02	0.235	24.02	25.50	1.406	0.330	36#
	DSI5		Bottom Edge	10	23095	707.5	1	Mid	-0.05	0.113	24.02	25.50	1.406	0.159	/
	DSI5		Front Side	10	23095	707.5	25	High	0.14	0.094	22.97	24.50	1.422	0.134	/
	DSI5		Back Side	10	23095	707.5	25	High	0.13	0.157	22.97	24.50	1.422	0.223	/
	DSI5		Left Edge	10	23095	707.5	25	High	-0.06	0.113	22.97	24.50	1.422	0.161	/
	DSI5		Right Edge	10	23095	707.5	25	High	-0.15	0.185	22.97	24.50	1.422	0.263	/
	DSI5		Bottom Edge	10	23095	707.5	25	High	-0.11	0.097	22.97	24.50	1.422	0.138	/

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

11.11 LTE Band 13 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DSI1	QPSK	Left Cheek	0	23230	782	1	High	-0.01	0.484	24.25	25.50	1.334	0.646	/
	DSI1		Left Tilt	0	23230	782	1	High	0.00	0.475	24.25	25.50	1.334	0.634	/
	DSI1		Right Cheek	0	23230	782	1	High	0.01	0.682	24.25	25.50	1.334	0.910	37#
	DSI1		Right Tilt	0	23230	782	1	High	-0.07	0.590	24.25	25.50	1.334	0.787	/
	DSI1		Left Cheek	0	23230	782	25	Mid	0.10	0.368	23.21	24.50	1.346	0.495	/
	DSI1		Left Tilt	0	23230	782	25	Mid	0.06	0.364	23.21	24.50	1.346	0.490	/
	DSI1		Right Cheek	0	23230	782	25	Mid	0.10	0.534	23.21	24.50	1.346	0.719	/
	DSI1		Right Tilt	0	23230	782	25	Mid	-0.11	0.467	23.21	24.50	1.346	0.629	/
	DSI1		Right Cheek	0	23230	782	50	Low	0.04	0.528	23.05	24.50	1.396	0.737	/
Ant.1	DSI1	QPSK	Left Cheek	0	23230	782	1	High	-0.03	0.145	23.97	25.50	1.422	0.206	/
	DSI1		Left Tilt	0	23230	782	1	High	-0.04	0.079	23.97	25.50	1.422	0.112	/
	DSI1		Right Cheek	0	23230	782	1	High	-0.03	0.128	23.97	25.50	1.422	0.182	/
	DSI1		Right Tilt	0	23230	782	1	High	-0.09	0.071	23.97	25.50	1.422	0.101	/
	DSI1		Left Cheek	0	23230	782	25	Mid	0.11	0.109	23.92	25.50	1.439	0.157	/
	DSI1		Left Tilt	0	23230	782	25	Mid	-0.01	0.062	23.92	25.50	1.439	0.089	/
	DSI1		Right Cheek	0	23230	782	25	Mid	0.09	0.103	23.92	25.50	1.439	0.148	/
	DSI1		Right Tilt	0	23230	782	25	Mid	-0.14	0.055	23.92	25.50	1.439	0.079	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	23230	782	1	High	0.10	0.132	24.25	25.50	1.334	0.176	/
	DSI2&4		Back Side	15	23230	782	1	High	-0.09	0.161	24.25	25.50	1.334	0.215	/
	DSI2&4		Front Side	15	23230	782	25	Mid	-0.07	0.094	23.21	24.50	1.346	0.127	/
	DSI2&4		Back Side	15	23230	782	25	Mid	0.00	0.115	23.21	24.50	1.346	0.155	/
Ant.1	DSI2&3	QPSK	Front Side	15	23230	782	1	High	0.10	0.172	23.97	25.50	1.422	0.245	/
	DSI2&3		Back Side	15	23230	782	1	High	0.00	0.185	23.97	25.50	1.422	0.263	38#
	DSI2&3		Front Side	15	23230	782	25	Mid	0.07	0.125	23.92	25.50	1.439	0.180	/
	DSI2&3		Back Side	15	23230	782	25	Mid	0.04	0.135	23.92	25.50	1.439	0.194	/
Hotspot															
Ant.4	DSI5	QPSK	Front Side	10	23230	782	1	High	0.09	0.191	24.25	25.50	1.334	0.255	/
	DSI5		Back Side	10	23230	782	1	High	0.04	0.191	24.25	25.50	1.334	0.255	/
	DSI5		Left Edge	10	23230	782	1	High	0.10	0.121	24.25	25.50	1.334	0.161	/
	DSI5		Right Edge	10	23230	782	1	High	-0.09	0.128	24.25	25.50	1.334	0.171	/
	DSI5		Top Edge	10	23230	782	1	High	-0.15	0.151	24.25	25.50	1.334	0.201	/
	DSI5		Front Side	10	23230	782	25	Mid	0.01	0.143	23.21	24.50	1.346	0.192	/
	DSI5		Back Side	10	23230	782	25	Mid	0.01	0.143	23.21	24.50	1.346	0.192	/
	DSI5		Left Edge	10	23230	782	25	Mid	0.04	0.085	23.21	24.50	1.346	0.114	/
	DSI5		Right Edge	10	23230	782	25	Mid	-0.04	0.090	23.21	24.50	1.346	0.121	/

	DSI5		Top Edge	10	23230	782	25	Mid	-0.13	0.137	23.21	24.50	1.346	0.184	/
Ant.1	DSI5	QPSK	Front Side	10	23230	782	1	High	-0.11	0.146	23.97	25.50	1.422	0.208	/
	DSI5		Back Side	10	23230	782	1	High	0.01	0.258	23.97	25.50	1.422	0.367	39#
	DSI5		Left Edge	10	23230	782	1	High	-0.04	0.120	23.97	25.50	1.422	0.171	/
	DSI5		Right Edge	10	23230	782	1	High	-0.07	0.237	23.97	25.50	1.422	0.337	/
	DSI5		Bottom Edge	10	23230	782	1	High	-0.07	0.212	23.97	25.50	1.422	0.301	/
	DSI5		Front Side	10	23230	782	25	Mid	-0.02	0.111	23.92	25.50	1.439	0.160	/
	DSI5		Back Side	10	23230	782	25	Mid	0.01	0.183	23.92	25.50	1.439	0.263	/
	DSI5		Left Edge	10	23230	782	25	Mid	-0.15	0.085	23.92	25.50	1.439	0.122	/
	DSI5		Right Edge	10	23230	782	25	Mid	-0.07	0.176	23.92	25.50	1.439	0.253	/
	DSI5		Bottom Edge	10	23230	782	25	Mid	-0.15	0.164	23.92	25.50	1.439	0.236	/

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

11.12 LTE Band 17 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DSI1	QPSK	Left Cheek	0	23790	710	1	Mid	-0.07	0.389	23.96	25.50	1.426	0.555	/
	DSI1		Left Tilt	0	23790	710	1	Mid	0.02	0.369	23.96	25.50	1.426	0.526	/
	DSI1		Right Cheek	0	23790	710	1	Mid	0.02	0.533	23.96	25.50	1.426	0.760	40#
	DSI1		Right Tilt	0	23790	710	1	Mid	0.13	0.475	23.96	25.50	1.426	0.677	/
	DSI1		Left Cheek	0	23790	710	25	Mid	-0.07	0.302	22.94	24.50	1.432	0.432	/
	DSI1		Left Tilt	0	23790	710	25	Mid	-0.12	0.300	22.94	24.50	1.432	0.430	/
	DSI1		Right Cheek	0	23790	710	25	Mid	0.07	0.426	22.94	24.50	1.432	0.610	/
	DSI1		Right Tilt	0	23790	710	25	Mid	0.13	0.380	22.94	24.50	1.432	0.544	/
Ant.1	DSI1	QPSK	Left Cheek	0	23790	710	1	Mid	0.14	0.112	24.00	25.50	1.413	0.158	/
	DSI1		Left Tilt	0	23790	710	1	Mid	-0.07	0.058	24.00	25.50	1.413	0.082	/
	DSI1		Right Cheek	0	23790	710	1	Mid	-0.13	0.103	24.00	25.50	1.413	0.146	/
	DSI1		Right Tilt	0	23790	710	1	Mid	0.08	0.051	24.00	25.50	1.413	0.072	/
	DSI1		Left Cheek	0	23780	709	25	High	0.10	0.085	23.03	24.50	1.403	0.119	/
	DSI1		Left Tilt	0	23780	709	25	High	0.09	0.046	23.03	24.50	1.403	0.065	/
	DSI1		Right Cheek	0	23780	709	25	High	-0.04	0.079	23.03	24.50	1.403	0.111	/
	DSI1		Right Tilt	0	23780	709	25	High	0.08	0.041	23.03	24.50	1.403	0.058	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	23790	710	1	Mid	0.13	0.107	23.96	25.50	1.426	0.153	/
	DSI2&4		Back Side	15	23790	710	1	Mid	-0.15	0.138	23.96	25.50	1.426	0.197	/
	DSI2&4		Front Side	15	23790	710	25	Mid	0.11	0.081	22.94	24.50	1.432	0.116	/
	DSI2&4		Back Side	15	23790	710	25	Mid	0.09	0.105	22.94	24.50	1.432	0.150	/
Ant.1	DSI2&3	QPSK	Front Side	15	23790	710	1	Mid	-0.02	0.166	24.00	25.50	1.413	0.235	/
	DSI2&3		Back Side	15	23790	710	1	Mid	0.01	0.202	24.00	25.50	1.413	0.285	41#
	DSI2&3		Front Side	15	23780	709	25	High	0.09	0.126	23.03	24.50	1.403	0.177	/
	DSI2&3		Back Side	15	23780	709	25	High	-0.05	0.151	23.03	24.50	1.403	0.212	/
Hotspot															
Ant.4	DSI5	QPSK	Front Side	10	23790	710	1	Mid	0.11	0.105	23.96	25.50	1.426	0.150	/
	DSI5		Back Side	10	23790	710	1	Mid	0.10	0.145	23.96	25.50	1.426	0.207	/
	DSI5		Left Edge	10	23790	710	1	Mid	0.01	0.126	23.96	25.50	1.426	0.180	/
	DSI5		Right Edge	10	23790	710	1	Mid	-0.02	0.102	23.96	25.50	1.426	0.145	/
	DSI5		Top Edge	10	23790	710	1	Mid	-0.11	0.137	23.96	25.50	1.426	0.195	/
	DSI5		Front Side	10	23790	710	25	Mid	-0.03	0.085	22.94	24.50	1.432	0.122	/
	DSI5		Back Side	10	23790	710	25	Mid	0.07	0.111	22.94	24.50	1.432	0.159	/
	DSI5		Left Edge	10	23790	710	25	Mid	-0.15	0.096	22.94	24.50	1.432	0.137	/
	DSI5		Right Edge	10	23790	710	25	Mid	0.15	0.075	22.94	24.50	1.432	0.107	/
	DSI5		Top Edge	10	23790	710	25	Mid	-0.06	0.077	22.94	24.50	1.432	0.110	/

Ant.1	DSI5	QPSK	Front Side	10	23790	710	1	Mid	-0.10	0.133	24.00	25.50	1.413	0.188	/
	DSI5		Back Side	10	23790	710	1	Mid	0.07	0.216	24.00	25.50	1.413	0.305	/
	DSI5		Left Edge	10	23790	710	1	Mid	0.15	0.153	24.00	25.50	1.413	0.216	/
	DSI5		Right Edge	10	23790	710	1	Mid	0.01	0.235	24.00	25.50	1.413	0.332	42#
	DSI5		Bottom Edge	10	23790	710	1	Mid	0.03	0.127	24.00	25.50	1.413	0.179	/
	DSI5		Front Side	10	23780	709	25	High	-0.13	0.097	23.03	24.50	1.403	0.136	/
	DSI5		Back Side	10	23780	709	25	High	0.00	0.153	23.03	24.50	1.403	0.215	/
	DSI5		Left Edge	10	23780	709	25	High	0.10	0.114	23.03	24.50	1.403	0.160	/
	DSI5		Right Edge	10	23780	709	25	High	-0.13	0.183	23.03	24.50	1.403	0.257	/
	DSI5		Bottom Edge	10	23780	709	25	High	0.11	0.102	23.03	24.50	1.403	0.143	/

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

11.13 LTE Band 26 (15MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DSI1	QPSK	Left Cheek	0	26965	841.5	1	Mid	-0.01	0.686	22.09	23.50	1.384	0.949	43#
	DSI1		Left Tilt	0	26965	841.5	1	Mid	0.08	0.546	22.09	23.50	1.384	0.756	/
	DSI1		Right Cheek	0	26965	841.5	1	Mid	-0.03	0.621	22.09	23.50	1.384	0.859	/
	DSI1		Right Tilt	0	26965	841.5	1	Mid	0.01	0.538	22.09	23.50	1.384	0.745	/
	DSI1		Left Cheek	0	26765	821.5	36	Low	-0.13	0.677	22.05	23.50	1.396	0.945	/
	DSI1		Left Tilt	0	26765	821.5	36	Low	0.09	0.538	22.05	23.50	1.396	0.751	/
	DSI1		Right Cheek	0	26765	821.5	36	Low	-0.12	0.584	22.05	23.50	1.396	0.815	/
	DSI1		Right Tilt	0	26765	821.5	36	Low	0.06	0.528	22.05	23.50	1.396	0.737	/
	DSI1		Left Cheek	0	26765	821.5	1	Mid	-0.14	0.640	21.80	23.50	1.479	0.947	/
	DSI1		Left Cheek	0	26865	831.5	1	Mid	-0.12	0.637	21.77	23.50	1.489	0.948	/
	DSI1		Left Cheek	0	26865	831.5	36	Mid	0.01	0.624	21.88	23.50	1.452	0.906	/
	DSI1		Left Cheek	0	26965	841.5	36	High	0.13	0.653	21.93	23.50	1.435	0.937	/
	DSI1		Left Cheek	0	26765	821.5	75	Low	0.14	0.611	21.79	23.50	1.483	0.906	/
	DSI1		Right Cheek	0	26765	821.5	1	Mid	0.04	0.581	21.80	23.50	1.479	0.859	/
	DSI1		Right Cheek	0	26865	831.5	1	Mid	-0.03	0.576	21.77	23.50	1.489	0.858	/
	DSI1		Right Cheek	0	26865	831.5	36	Mid	0.04	0.569	21.88	23.50	1.452	0.826	/
	DSI1		Right Cheek	0	26965	841.5	36	High	0.09	0.602	21.93	23.50	1.435	0.864	/
	DSI1		Right Cheek	0	26765	821.5	75	Low	-0.10	0.558	21.79	23.50	1.483	0.828	/
Ant.1	DSI1	QPSK	Left Cheek	0	26865	831.5	1	Low	0.00	0.213	24.14	25.50	1.368	0.291	/
	DSI1		Left Tilt	0	26865	831.5	1	Low	-0.10	0.101	24.14	25.50	1.368	0.138	/
	DSI1		Right Cheek	0	26865	831.5	1	Low	0.08	0.194	24.14	25.50	1.368	0.265	/
	DSI1		Right Tilt	0	26865	831.5	1	Low	0.11	0.086	24.14	25.50	1.368	0.118	/
	DSI1		Left Cheek	0	26965	841.5	36	Low	-0.15	0.184	23.15	24.50	1.365	0.251	/
	DSI1		Left Tilt	0	26965	841.5	36	Low	0.14	0.087	23.15	24.50	1.365	0.119	/
	DSI1		Right Cheek	0	26965	841.5	36	Low	-0.15	0.156	23.15	24.50	1.365	0.213	/
	DSI1		Right Tilt	0	26965	841.5	36	Low	0.00	0.068	23.15	24.50	1.365	0.093	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	26965	841.5	1	Low	0.07	0.099	23.87	25.50	1.455	0.144	/
	DSI2&4		Back Side	15	26965	841.5	1	Low	0.00	0.125	23.87	25.50	1.455	0.182	/
	DSI2&4		Front Side	15	26865	831.5	36	Mid	0.11	0.085	22.95	24.50	1.429	0.121	/
	DSI2&4		Back Side	15	26865	831.5	36	Mid	-0.04	0.108	22.95	24.50	1.429	0.154	/
Ant.1	DSI2&3	QPSK	Front Side	15	26865	831.5	1	Low	0.06	0.161	24.14	25.50	1.368	0.220	/
	DSI2&3		Back Side	15	26865	831.5	1	Low	0.03	0.163	24.14	25.50	1.368	0.223	44#
	DSI2&3		Front Side	15	26965	841.5	36	Low	0.02	0.134	23.15	24.50	1.365	0.183	/
	DSI2&3		Back Side	15	26965	841.5	36	Low	0.13	0.141	23.15	24.50	1.365	0.192	/
Hotspot															

Ant.4	DSI5	QPSK	Front Side	10	26965	841.5	1	Low	0.09	0.206	23.87	25.50	1.455	0.300	/
	DSI5		Back Side	10	26965	841.5	1	Low	0.09	0.233	23.87	25.50	1.455	0.339	/
	DSI5		Left Edge	10	26965	841.5	1	Low	-0.02	0.087	23.87	25.50	1.455	0.127	/
	DSI5		Right Edge	10	26965	841.5	1	Low	0.07	0.098	23.87	25.50	1.455	0.143	/
	DSI5		Top Edge	10	26965	841.5	1	Low	-0.02	0.195	23.87	25.50	1.455	0.284	/
	DSI5		Front Side	10	26865	831.5	36	Mid	0.08	0.174	22.95	24.50	1.429	0.249	/
	DSI5		Back Side	10	26865	831.5	36	Mid	0.07	0.190	22.95	24.50	1.429	0.272	/
	DSI5		Left Edge	10	26865	831.5	36	Mid	-0.15	0.075	22.95	24.50	1.429	0.107	/
	DSI5		Right Edge	10	26865	831.5	36	Mid	0.06	0.088	22.95	24.50	1.429	0.126	/
	DSI5		Top Edge	10	26865	831.5	36	Mid	-0.06	0.189	22.95	24.50	1.429	0.270	/
Ant.1	DSI5	QPSK	Front Side	10	26865	831.5	1	Low	0.00	0.225	24.14	25.50	1.368	0.308	/
	DSI5		Back Side	10	26865	831.5	1	Low	-0.01	0.357	24.14	25.50	1.368	0.488	45#
	DSI5		Left Edge	10	26865	831.5	1	Low	0.05	0.108	24.14	25.50	1.368	0.148	/
	DSI5		Right Edge	10	26865	831.5	1	Low	-0.02	0.184	24.14	25.50	1.368	0.252	/
	DSI5		Bottom Edge	10	26865	831.5	1	Low	0.10	0.256	24.14	25.50	1.368	0.350	/
	DSI5		Front Side	10	26965	841.5	36	Low	0.06	0.183	23.15	24.50	1.365	0.250	/
	DSI5		Back Side	10	26965	841.5	36	Low	-0.04	0.306	23.15	24.50	1.365	0.418	/
	DSI5		Left Edge	10	26965	841.5	36	Low	-0.12	0.086	23.15	24.50	1.365	0.117	/
	DSI5		Right Edge	10	26965	841.5	36	Low	-0.11	0.149	23.15	24.50	1.365	0.203	/
	DSI5		Bottom Edge	10	26965	841.5	36	Low	0.16	0.228	23.15	24.50	1.365	0.311	/

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

11.14 LTE Band 66 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DSI1	QPSK	Left Cheek	0	132572	1770	1	Mid	0.06	0.308	16.93	18.00	1.279	0.394	/
	DSI1		Left Tilt	0	132572	1770	1	Mid	-0.10	0.426	16.93	18.00	1.279	0.545	/
	DSI1		Right Cheek	0	132572	1770	1	Mid	0.08	0.515	16.93	18.00	1.279	0.659	/
	DSI1		Right Tilt	0	132572	1770	1	Mid	0.01	0.614	16.93	18.00	1.279	0.785	46#
	DSI1		Left Cheek	0	132572	1770	50	Mid	-0.03	0.308	16.99	18.00	1.262	0.389	/
	DSI1		Left Tilt	0	132572	1770	50	Mid	-0.07	0.436	16.99	18.00	1.262	0.550	/
	DSI1		Right Cheek	0	132572	1770	50	Mid	0.10	0.517	16.99	18.00	1.262	0.652	/
	DSI1		Right Tilt	0	132572	1770	50	Mid	0.14	0.608	16.99	18.00	1.262	0.767	/
	DSI1		Right Tilt	0	132072	1720	1	Mid	-0.11	0.562	16.87	18.00	1.297	0.729	/
	DSI1		Right Tilt	0	132322	1745	1	Mid	0.00	0.582	16.76	18.00	1.330	0.774	/
	DSI1		Right Tilt	0	132072	1720	50	High	-0.02	0.579	16.87	18.00	1.297	0.751	/
	DSI1		Right Tilt	0	132322	1745	50	Mid	0.08	0.579	16.87	18.00	1.297	0.751	/
	DSI1		Right Tilt	0	132072	1720	100	Low	0.13	0.581	16.82	18.00	1.312	0.762	/
Ant.1	DSI1	QPSK	Left Cheek	0	132572	1770	1	Mid	-0.08	0.068	24.37	25.50	1.297	0.088	/
	DSI1		Left Tilt	0	132572	1770	1	Mid	0.04	0.042	24.37	25.50	1.297	0.054	/
	DSI1		Right Cheek	0	132572	1770	1	Mid	0.04	0.059	24.37	25.50	1.297	0.077	/
	DSI1		Right Tilt	0	132572	1770	1	Mid	-0.01	0.041	24.37	25.50	1.297	0.053	/
	DSI1		Left Cheek	0	132572	1770	50	Mid	-0.08	0.055	23.43	24.50	1.279	0.070	/
	DSI1		Left Tilt	0	132572	1770	50	Mid	0.16	0.032	23.43	24.50	1.279	0.041	/
	DSI1		Right Cheek	0	132572	1770	50	Mid	-0.13	0.047	23.43	24.50	1.279	0.060	/
	DSI1		Right Tilt	0	132572	1770	50	Mid	-0.01	0.032	23.43	24.50	1.279	0.041	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	132322	1745	1	Mid	-0.02	0.401	24.26	25.50	1.330	0.533	/
	DSI2&4		Back Side	15	132322	1745	1	Mid	0.01	0.527	24.26	25.50	1.330	0.701	47#
	DSI2&4		Front Side	15	132572	1770	50	Mid	0.10	0.326	23.41	24.50	1.285	0.419	/
	DSI2&4		Back Side	15	132572	1770	50	Mid	0.05	0.419	23.41	24.50	1.285	0.538	/
Ant.1	DSI2&3	QPSK	Front Side	15	132072	1720	1	Mid	-0.12	0.111	20.90	22.00	1.288	0.143	/
	DSI2&3		Back Side	15	132072	1720	1	Mid	0.16	0.164	20.90	22.00	1.288	0.211	/
	DSI2&3		Front Side	15	132572	1770	50	Mid	0.01	0.108	20.93	22.00	1.279	0.138	/
	DSI2&3		Back Side	15	132572	1770	50	Mid	0.11	0.158	20.93	22.00	1.279	0.202	/
Hotspot															
Ant.4	DSI5	QPSK	Front Side	10	132572	1770	1	Mid	0.05	0.393	20.43	21.50	1.279	0.503	/
	DSI5		Back Side	10	132572	1770	1	Mid	-0.13	0.519	20.43	21.50	1.279	0.664	/
	DSI5		Left Edge	10	132572	1770	1	Mid	-0.04	0.052	20.43	21.50	1.279	0.067	/
	DSI5		Right Edge	10	132572	1770	1	Mid	-0.07	0.008	20.43	21.50	1.279	0.010	/
	DSI5		Top Edge	10	132572	1770	1	Mid	0.16	0.768	20.43	21.50	1.279	0.982	/

	DSI5		Front Side	10	132572	1770	50	Mid	-0.05	0.396	20.51	21.50	1.256	0.497	/
	DSI5		Back Side	10	132572	1770	50	Mid	-0.01	0.508	20.51	21.50	1.256	0.638	/
	DSI5		Left Edge	10	132572	1770	50	Mid	-0.10	0.056	20.51	21.50	1.256	0.070	/
	DSI5		Right Edge	10	132572	1770	50	Mid	-0.13	0.008	20.51	21.50	1.256	0.010	/
	DSI5		Top Edge	10	132572	1770	50	Mid	0.06	0.742	20.51	21.50	1.256	0.932	/
	DSI5		Top Edge	10	132072	1720	1	Mid	0.06	0.735	20.33	21.50	1.309	0.962	/
	DSI5		Top Edge	10	132322	1745	1	Mid	0.00	0.743	20.39	21.50	1.291	0.959	/
	DSI5		Top Edge	10	132072	1720	50	High	0.00	0.745	20.14	21.50	1.368	1.019	/
	DSI5		Top Edge	10	132322	1745	50	High	-0.01	0.784	20.35	21.50	1.303	1.022	48#
	DSI5		Top Edge	10	132572	1770	100	Low	-0.03	0.743	20.32	21.50	1.312	0.975	/
Ant.1	DSI5	QPSK	Front Side	10	132072	1720	1	Mid	-0.08	0.249	21.95	23.00	1.274	0.317	/
	DSI5		Back Side	10	132072	1720	1	Mid	0.12	0.432	21.95	23.00	1.274	0.550	/
	DSI5		Left Edge	10	132072	1720	1	Mid	0.01	0.116	21.95	23.00	1.274	0.148	/
	DSI5		Right Edge	10	132072	1720	1	Mid	0.09	0.078	21.95	23.00	1.274	0.099	/
	DSI5		Bottom Edge	10	132072	1720	1	Mid	0.08	0.697	21.95	23.00	1.274	0.888	/
	DSI5		Front Side	10	132072	1720	50	High	0.00	0.323	21.92	23.00	1.282	0.414	/
	DSI5		Back Side	10	132072	1720	50	High	0.04	0.526	21.92	23.00	1.282	0.674	/
	DSI5		Left Edge	10	132072	1720	50	High	-0.11	0.146	21.92	23.00	1.282	0.187	/
	DSI5		Right Edge	10	132072	1720	50	High	-0.02	0.090	21.92	23.00	1.282	0.115	/
	DSI5		Bottom Edge	10	132072	1720	50	High	-0.13	0.704	21.92	23.00	1.282	0.903	/
	DSI5		Bottom Edge	10	132322	1745	1	Mid	0.05	0.685	21.79	23.00	1.321	0.905	/
	DSI5		Bottom Edge	10	132572	1770	1	Mid	-0.05	0.675	21.91	23.00	1.285	0.867	/
	DSI5		Bottom Edge	10	132322	1745	50	Mid	0.12	0.649	21.80	23.00	1.318	0.855	/
	DSI5		Bottom Edge	10	132572	1770	50	Mid	0.08	0.680	21.87	23.00	1.297	0.882	/
DSI5	Bottom Edge	10	132572	1770	100	Low	-0.10	0.668	21.89	23.00	1.291	0.862	/		
Sensor-1															
Ant.1	DSI4	QPSK	Back Side	15	132572	1770	1	Mid	0.00	0.321	24.37	25.50	1.297	0.416	/
	DSI4		Bottom Edge	15	132572	1770	1	Mid	-0.07	0.504	24.37	25.50	1.297	0.654	/
	DSI4		Back Side	15	132572	1770	50	Mid	0.04	0.247	23.43	24.50	1.279	0.316	/
	DSI4		Bottom Edge	15	132572	1770	50	Mid	-0.06	0.398	23.43	24.50	1.279	0.509	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.4	DSI3	QPSK	Front Side	0	132072	1720	1	Mid	-0.10	0.785	18.95	20.00	1.274	1.000	/
	DSI3		Back Side	0	132072	1720	1	Mid	0.01	0.663	18.95	20.00	1.274	0.845	/
	DSI3		Top Edge	0	132072	1720	1	Mid	0.07	1.670	18.95	20.00	1.274	2.128	/
	DSI3		Front Side	0	132572	1770	50	Mid	0.00	0.833	18.97	20.00	1.268	1.056	/
	DSI3		Back Side	0	132572	1770	50	Mid	0.00	0.714	18.97	20.00	1.268	0.905	/
	DSI3		Top Edge	0	132572	1770	50	Mid	-0.10	1.740	18.97	20.00	1.268	2.206	/
	DSI3		Top Edge	0	132322	1745	1	High	-0.09	1.760	18.72	20.00	1.343	2.364	49#
	DSI3		Top Edge	0	132572	1770	1	Mid	-0.06	1.330	18.91	20.00	1.285	1.709	/
	DSI3		Top Edge	0	132072	1720	50	Mid	-0.02	1.800	18.85	20.00	1.303	2.345	/
	DSI3		Top Edge	0	132572	1770	50	Mid	-0.11	1.740	18.95	20.00	1.274	2.217	/
	DSI3		Top Edge	0	132572	1770	100	Low	0.00	1.740	18.80	20.00	1.318	2.293	/
Ant.1	DSI2	QPSK	Bottom Edge	0	132072	1720	1	Mid	0.05	1.590	20.90	22.00	1.288	2.048	/
	DSI2		Bottom Edge	0	132572	1770	50	Mid	0.05	1.800	20.93	22.00	1.279	2.302	/
	DSI2		Bottom Edge	0	132322	1745	1	Mid	-0.05	1.760	20.84	22.00	1.306	2.299	/
	DSI2		Bottom Edge	0	132572	1770	1	Mid	0.04	1.680	20.87	22.00	1.297	2.179	/
	DSI2		Bottom Edge	0	132072	1720	50	Mid	-0.03	1.780	20.91	22.00	1.285	2.287	/
	DSI2		Bottom Edge	0	132322	1745	50	Mid	0.08	1.730	20.82	22.00	1.312	2.270	/
	DSI2		Bottom Edge	0	132572	1770	100	Low	0.07	1.750	20.83	22.00	1.309	2.291	/
Sensor-1															
Ant.4	DSI4	QPSK	Front Side	9	132322	1745	1	Mid	-0.05	0.395	24.26	25.50	1.330	0.525	/
	DSI4		Back Side	9	132322	1745	1	Mid	0.01	0.843	24.26	25.50	1.330	1.121	/
	DSI4		Top Edge	9	132322	1745	1	Mid	0.00	0.972	24.26	25.50	1.330	1.293	/
	DSI4		Front Side	9	132572	1770	50	Mid	0.09	0.311	23.41	24.50	1.285	0.400	/
	DSI4		Back Side	9	132572	1770	50	Mid	-0.02	0.684	23.41	24.50	1.285	0.879	/
	DSI4		Top Edge	9	132572	1770	50	Mid	0.04	0.810	23.41	24.50	1.285	1.041	/
Ant.1	DSI4	QPSK	Front Side	9	132572	1770	1	Mid	-0.01	0.275	24.37	25.50	1.297	0.357	/
	DSI4		Front Side	9	132572	1770	50	Mid	0.03	0.218	23.43	24.50	1.279	0.279	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.15 LTE Band 38 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DSI1	QPSK	Left Cheek	0	37850	2580	1	Mid	-0.01	0.316	18.92	19.50	1.143	0.361	/
	DSI1		Left Tilt	0	37850	2580	1	Mid	0.07	0.414	18.92	19.50	1.143	0.473	/
	DSI1		Right Cheek	0	37850	2580	1	Mid	0.11	0.787	18.92	19.50	1.143	0.900	/
	DSI1		Right Tilt	0	37850	2580	1	Mid	0.08	0.648	18.92	19.50	1.143	0.741	/
	DSI1		Left Cheek	0	37850	2580	50	Mid	0.02	0.320	18.95	19.50	1.135	0.363	/
	DSI1		Left Tilt	0	37850	2580	50	Mid	0.05	0.421	18.95	19.50	1.135	0.478	/
	DSI1		Right Cheek	0	37850	2580	50	Mid	0.05	0.801	18.95	19.50	1.135	0.909	/
	DSI1		Right Tilt	0	37850	2580	50	Mid	-0.15	0.652	18.95	19.50	1.135	0.740	/
	DSI1		Right Cheek	0	38000	2595	1	Mid	0.08	0.752	18.80	19.50	1.175	0.884	/
	DSI1		Right Cheek	0	38150	2610	1	Mid	0.13	0.784	18.73	19.50	1.194	0.936	/
	DSI1		Right Cheek	0	38000	2595	50	Mid	-0.03	0.793	18.82	19.50	1.169	0.927	/
	DSI1		Right Cheek	0	38150	2610	50	Mid	0.01	0.819	18.70	19.50	1.202	0.984	50#
	DSI1		Right Cheek	0	38150	2610	100	Low	0.07	0.801	18.70	19.50	1.202	0.963	/
Ant.1	DSI1	QPSK	Left Cheek	0	37850	2580	1	Mid	-0.06	0.064	24.48	25.50	1.265	0.081	/
	DSI1		Left Tilt	0	37850	2580	1	Mid	-0.12	0.034	24.48	25.50	1.265	0.043	/
	DSI1		Right Cheek	0	37850	2580	1	Mid	0.11	0.058	24.48	25.50	1.265	0.073	/
	DSI1		Right Tilt	0	37850	2580	1	Mid	-0.07	0.031	24.48	25.50	1.265	0.039	/
	DSI1		Left Cheek	0	38000	2595	50	Mid	-0.11	0.051	23.33	24.50	1.309	0.067	/
	DSI1		Left Tilt	0	38000	2595	50	Mid	-0.14	0.025	23.33	24.50	1.309	0.033	/
	DSI1		Right Cheek	0	38000	2595	50	Mid	-0.04	0.046	23.33	24.50	1.309	0.060	/
	DSI1		Right Tilt	0	38000	2595	50	Mid	-0.08	0.023	23.33	24.50	1.309	0.030	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	37850	2580	1	Mid	0.05	0.353	24.98	25.50	1.127	0.398	/
	DSI2&4		Back Side	15	37850	2580	1	Mid	-0.01	0.365	24.98	25.50	1.127	0.411	51#
	DSI2&4		Front Side	15	37850	2580	50	Mid	0.16	0.336	23.91	24.50	1.146	0.385	/
	DSI2&4		Back Side	15	37850	2580	50	Mid	-0.11	0.358	23.91	24.50	1.146	0.410	/
Ant.1	DSI2&3	QPSK	Front Side	15	37850	2580	1	Mid	-0.07	0.092	20.93	22.00	1.279	0.118	/
	DSI2&3		Back Side	15	37850	2580	1	Mid	-0.09	0.186	20.93	22.00	1.279	0.238	/
	DSI2&3		Front Side	15	37850	2580	50	Mid	-0.04	0.093	20.85	22.00	1.303	0.121	/
	DSI2&3		Back Side	15	37850	2580	50	Mid	0.16	0.179	20.85	22.00	1.303	0.233	/
Hotspot															
Ant.4	DSI5	QPSK	Front Side	10	37850	2580	1	Mid	-0.07	0.549	24.98	25.50	1.127	0.619	/
	DSI5		Back Side	10	37850	2580	1	Mid	0.05	0.443	24.98	25.50	1.127	0.499	/
	DSI5		Left Edge	10	37850	2580	1	Mid	-0.12	0.307	24.98	25.50	1.127	0.346	/
	DSI5		Right Edge	10	37850	2580	1	Mid	0.00	0.005	24.98	25.50	1.127	0.006	/
	DSI5		Top Edge	10	37850	2580	1	Mid	0.09	0.840	24.98	25.50	1.127	0.947	/

	DSI5		Front Side	10	37850	2580	50	Mid	-0.15	0.552	23.91	24.50	1.146	0.633	/
	DSI5		Back Side	10	37850	2580	50	Mid	0.16	0.471	23.91	24.50	1.146	0.540	/
	DSI5		Left Edge	10	37850	2580	50	Mid	0.12	0.311	23.91	24.50	1.146	0.356	/
	DSI5		Right Edge	10	37850	2580	50	Mid	-0.06	0.005	23.91	24.50	1.146	0.006	/
	DSI5		Top Edge	10	37850	2580	50	Mid	0.02	0.869	23.91	24.50	1.146	0.996	52#
	DSI5		Top Edge	10	38000	2595	1	Mid	0.00	0.819	24.81	25.50	1.172	0.960	/
	DSI5		Top Edge	10	38150	2610	1	Mid	-0.11	0.806	24.60	25.50	1.230	0.991	/
	DSI5		Top Edge	10	38000	2595	50	High	0.02	0.830	23.74	24.50	1.191	0.989	/
	DSI5		Top Edge	10	38150	2610	50	Mid	0.14	0.821	23.72	24.50	1.197	0.983	/
	DSI5		Top Edge	10	37850	2580	100	Low	0.01	0.827	23.84	24.50	1.164	0.963	/
Ant.1	DSI5	QPSK	Front Side	10	37850	2580	1	Mid	0.14	0.194	21.43	22.50	1.279	0.248	/
	DSI5		Back Side	10	37850	2580	1	Mid	0.03	0.405	21.43	22.50	1.279	0.518	/
	DSI5		Left Edge	10	37850	2580	1	Mid	0.08	0.006	21.43	22.50	1.279	0.008	/
	DSI5		Right Edge	10	37850	2580	1	Mid	0.15	0.073	21.43	22.50	1.279	0.093	/
	DSI5		Bottom Edge	10	37850	2580	1	Mid	-0.09	0.685	21.43	22.50	1.279	0.876	/
	DSI5		Front Side	10	37850	2580	50	Mid	0.03	0.193	21.31	22.50	1.315	0.254	/
	DSI5		Back Side	10	37850	2580	50	Mid	0.14	0.405	21.31	22.50	1.315	0.533	/
	DSI5		Left Edge	10	37850	2580	50	Mid	-0.01	0.006	21.31	22.50	1.315	0.008	/
	DSI5		Right Edge	10	37850	2580	50	Mid	0.05	0.078	21.31	22.50	1.315	0.103	/
	DSI5		Bottom Edge	10	37850	2580	50	Mid	0.08	0.674	21.31	22.50	1.315	0.886	/
	DSI5		Bottom Edge	10	38000	2595	1	Mid	-0.04	0.658	21.32	22.50	1.312	0.863	/
	DSI5		Bottom Edge	10	38150	2610	1	Mid	0.10	0.669	21.29	22.50	1.321	0.884	/
	DSI5		Bottom Edge	10	38000	2595	50	Mid	0.03	0.668	21.28	22.50	1.324	0.884	/
	DSI5		Bottom Edge	10	38150	2610	50	Mid	-0.09	0.659	21.18	22.50	1.355	0.893	/
DSI5	Bottom Edge	10	37850	2580	100	Low	0.12	0.604	21.23	22.50	1.340	0.809	/		
Sensor-1															
Ant.1	DSI4	QPSK	Back Side	15	37850	2580	1	Mid	0.06	0.371	23.85	25.00	1.303	0.483	/
	DSI4		Bottom Edge	15	37850	2580	1	Mid	0.07	0.610	23.85	25.00	1.303	0.795	/
	DSI4		Back Side	15	37850	2580	50	Mid	-0.07	0.342	23.38	24.50	1.294	0.443	/
	DSI4		Bottom Edge	15	37850	2580	50	Mid	-0.02	0.571	23.38	24.50	1.294	0.739	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.4	DSI3	QPSK	Top Edge	0	37850	2580	1	Mid	0.00	1.750	21.46	22.00	1.132	1.981	53#
	DSI3		Top Edge	0	37850	2580	50	Mid	0.11	1.660	21.40	22.00	1.148	1.906	/
Ant.1	DSI2	QPSK	Bottom Edge	0	37850	2580	1	Mid	-0.01	1.240	20.93	22.00	1.279	1.586	/
	DSI2		Bottom Edge	0	37850	2580	50	Mid	0.02	1.130	20.85	22.00	1.303	1.472	/
Sensor-1															
Ant.1	DSI4	QPSK	Front Side	9	37850	2580	1	Mid	0.05	0.198	23.85	25.00	1.303	0.258	/
	DSI4		Front Side	9	37850	2580	50	Mid	-0.04	0.181	23.38	24.50	1.294	0.234	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.16 LTE Band 41 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.4	DSI1	QPSK	Left Cheek	0	40185	2549.5	1	Mid	-0.06	0.332	18.18	18.50	1.076	0.357	/
	DSI1		Left Tilt	0	40185	2549.5	1	Mid	-0.10	0.425	18.18	18.50	1.076	0.457	/
	DSI1		Right Cheek	0	40185	2549.5	1	Mid	-0.13	0.746	18.18	18.50	1.076	0.803	/
	DSI1		Right Tilt	0	40185	2549.5	1	Mid	-0.07	0.542	18.18	18.50	1.076	0.583	/
	DSI1		Left Cheek	0	40185	2549.5	50	High	0.11	0.332	18.07	18.50	1.104	0.367	/
	DSI1		Left Tilt	0	40185	2549.5	50	High	0.01	0.430	18.07	18.50	1.104	0.475	/
	DSI1		Right Cheek	0	40185	2549.5	50	High	-0.13	0.729	18.07	18.50	1.104	0.805	/
	DSI1		Right Tilt	0	40185	2549.5	50	High	0.11	0.551	18.07	18.50	1.104	0.608	/
	DSI1		Right Cheek	0	39750	2506	1	Mid	0.00	0.694	18.11	18.50	1.094	0.759	/
	DSI1		Right Cheek	0	40620	2593	1	Mid	0.12	0.722	17.92	18.50	1.143	0.825	/
	DSI1		Right Cheek	0	41055	2636.5	1	Mid	-0.08	0.768	17.64	18.50	1.219	0.936	/
	DSI1		Right Cheek	0	41490	2680	1	Mid	0.09	0.800	17.52	18.50	1.253	1.002	/
	DSI1		Right Cheek	0	39750	2506	50	Mid	0.01	0.714	18.06	18.50	1.107	0.790	/
	DSI1		Right Cheek	0	40620	2593	50	Low	0.06	0.730	17.85	18.50	1.161	0.848	/
	DSI1		Right Cheek	0	41055	2636.5	50	Low	-0.11	0.738	17.54	18.50	1.247	0.920	/
	DSI1		Right Cheek	0	41490	2680	50	Mid	0.02	0.828	17.55	18.50	1.245	1.031	54#
	DSI1		Right Cheek	0	39750	2506	100	Low	0.05	0.790	17.80	18.50	1.175	0.928	/
	Ant.1		DSI1	QPSK	Left Cheek	0	41490	2680	1	Mid	0.10	0.060	24.63	25.50	1.222
DSI1		Left Tilt	0		41490	2680	1	Mid	-0.01	0.052	24.63	25.50	1.222	0.064	/
DSI1		Right Cheek	0		41490	2680	1	Mid	-0.05	0.055	24.63	25.50	1.222	0.067	/
DSI1		Right Tilt	0		41490	2680	1	Mid	-0.13	0.039	24.63	25.50	1.222	0.048	/
DSI1		Left Cheek	0		40185	2549.5	50	Mid	0.08	0.048	23.69	24.50	1.205	0.058	/
DSI1		Left Tilt	0		40185	2549.5	50	Mid	-0.13	0.040	23.69	24.50	1.205	0.048	/
DSI1		Right Cheek	0		40185	2549.5	50	Mid	0.12	0.044	23.69	24.50	1.205	0.053	/
DSI1		Right Tilt	0		40185	2549.5	50	Mid	0.15	0.030	23.69	24.50	1.205	0.036	/
Body-worn															
Ant.4	DSI2&4	QPSK	Front Side	15	40620	2593	1	Mid	0.10	0.305	24.97	25.50	1.130	0.345	/
	DSI2&4		Back Side	15	40620	2593	1	Mid	0.01	0.366	24.97	25.50	1.130	0.414	55#
	DSI2&4		Front Side	15	39750	2506	50	Low	0.01	0.254	24.00	24.50	1.122	0.285	/
	DSI2&4		Back Side	15	39750	2506	50	Low	-0.11	0.294	24.00	24.50	1.122	0.330	/
Ant.1	DSI2&3	QPSK	Front Side	15	41055	2636.5	1	Mid	0.09	0.096	21.14	22.00	1.219	0.117	/
	DSI2&3		Back Side	15	41055	2636.5	1	Mid	-0.15	0.192	21.14	22.00	1.219	0.234	/
	DSI2&3		Front Side	15	41055	2636.5	50	Mid	-0.12	0.092	21.14	22.00	1.219	0.112	/
	DSI2&3		Back Side	15	41055	2636.5	50	Mid	-0.08	0.191	21.14	22.00	1.219	0.233	/
Hotspot															
Ant.4	DSI5	QPSK	Front Side	10	40620	2593	1	Mid	0.12	0.554	24.97	25.50	1.130	0.626	/

	DSI5		Back Side	10	40620	2593	1	Mid	-0.06	0.448	24.97	25.50	1.130	0.506	/		
	DSI5		Left Edge	10	40620	2593	1	Mid	-0.08	0.320	24.97	25.50	1.130	0.362	/		
	DSI5		Right Edge	10	40620	2593	1	Mid	0.06	0.115	24.97	25.50	1.130	0.130	/		
	DSI5		Top Edge	10	40620	2593	1	Mid	0.00	0.876	24.97	25.50	1.130	0.990	56#		
	DSI5		Front Side	10	39750	2506	50	High	0.00	0.447	24.00	24.50	1.122	0.502	/		
	DSI5		Back Side	10	39750	2506	50	High	-0.05	0.379	24.00	24.50	1.122	0.425	/		
	DSI5		Left Edge	10	39750	2506	50	High	0.07	0.264	24.00	24.50	1.122	0.296	/		
	DSI5		Right Edge	10	39750	2506	50	High	-0.15	0.076	24.00	24.50	1.122	0.085	/		
	DSI5		Top Edge	10	39750	2506	50	High	-0.05	0.679	24.00	24.50	1.122	0.762	/		
	DSI5		Top Edge	10	39750	2506	1	Mid	-0.04	0.598	24.97	25.50	1.130	0.676	/		
	DSI5		Top Edge	10	40185	2549.5	1	Mid	0.07	0.776	24.95	25.50	1.135	0.881	/		
	DSI5		Top Edge	10	41055	2636.5	1	Mid	0.14	0.794	24.59	25.50	1.233	0.979	/		
	DSI5		Top Edge	10	41490	2680	1	Mid	0.00	0.803	24.64	25.50	1.219	0.979	/		
	DSI5		Top Edge	10	40185	2549.5	50	High	-0.13	0.506	23.99	24.50	1.125	0.569	/		
	DSI5		Top Edge	10	40620	2593	50	Low	0.06	0.613	23.77	24.50	1.183	0.725	/		
	DSI5		Top Edge	10	41055	2636.5	50	Mid	0.08	0.627	23.64	24.50	1.219	0.764	/		
	DSI5		Top Edge	10	41490	2680	50	Mid	0.00	0.630	23.59	24.50	1.233	0.777	/		
	DSI5		Top Edge	10	39750	2506	100	Low	0.13	0.584	23.90	24.50	1.148	0.670	/		
	Ant.1		DSI5	QPSK	Front Side	10	41055	2636.5	1	Mid	0.03	0.205	21.14	22.00	1.219	0.250	/
			DSI5		Back Side	10	41055	2636.5	1	Mid	-0.10	0.433	21.14	22.00	1.219	0.528	/
DSI5		Left Edge	10		41055	2636.5	1	Mid	0.12	0.010	21.14	22.00	1.219	0.012	/		
DSI5		Right Edge	10		41055	2636.5	1	Mid	0.08	0.083	21.14	22.00	1.219	0.101	/		
DSI5		Bottom Edge	10		41055	2636.5	1	Mid	0.06	0.654	21.14	22.00	1.219	0.797	/		
DSI5		Front Side	10		41055	2636.5	50	Mid	0.06	0.210	21.14	22.00	1.219	0.256	/		
DSI5		Back Side	10		41055	2636.5	50	Mid	-0.01	0.408	21.14	22.00	1.219	0.497	/		
DSI5		Left Edge	10		41055	2636.5	50	Mid	0.09	0.009	21.14	22.00	1.219	0.011	/		
DSI5		Right Edge	10		41055	2636.5	50	Mid	0.07	0.077	21.14	22.00	1.219	0.094	/		
DSI5		Bottom Edge	10		41055	2636.5	50	Mid	-0.07	0.637	21.14	22.00	1.219	0.777	/		
Sensor-1																	
Ant.1	DSI4	QPSK	Back Side	15	40185	2549.5	1	Mid	-0.01	0.386	23.62	24.50	1.225	0.473	/		
	DSI4		Bottom Edge	15	40185	2549.5	1	Mid	0.04	0.625	23.62	24.50	1.225	0.766	/		
	DSI4		Back Side	15	40185	2549.5	50	Mid	0.05	0.340	23.64	24.50	1.219	0.414	/		
	DSI4		Bottom Edge	15	40185	2549.5	50	Mid	0.07	0.582	23.64	24.50	1.219	0.709	/		
Note: Refer to ANNEX C for the detailed test data for each test configuration.																	

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.4	DSI3	QPSK	Top Edge	0	39750	2506	1	Mid	0.00	1.580	21.07	21.50	1.104	1.744	57#
	DSI3		Top Edge	0	39750	2506	50	High	-0.03	1.270	21.03	21.50	1.114	1.415	/
Ant.1	DSI2	QPSK	Bottom Edge	0	41055	2636.5	1	Mid	-0.11	0.963	21.14	22.00	1.219	1.174	/
	DSI2		Bottom Edge	0	41055	2636.5	50	Mid	-0.06	0.959	21.14	22.00	1.219	1.169	/
Sensor-1															
Ant.1	DSI4	QPSK	Front Side	9	40185	2549.5	1	Mid	-0.04	0.214	23.62	24.50	1.225	0.262	/
	DSI4		Front Side	9	40185	2549.5	50	Mid	0.06	0.188	23.64	24.50	1.219	0.229	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

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Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head															
Ant.7	Level1	802.11 b	Left Cheek	0	6	2437	0.01	0.533	16.21	17.00	1.199	99.40	1.006	0.643	/
	Level1	802.11 b	Left Tilt	0	6	2437	0.06	0.436	16.21	17.00	1.199	99.40	1.006	0.526	/
	Level1	802.11 b	Right Cheek	0	6	2437	-0.04	0.238	16.21	17.00	1.199	99.40	1.006	0.287	/
	Level1	802.11 b	Right Tilt	0	6	2437	0.06	0.229	16.21	17.00	1.199	99.40	1.006	0.276	/
Ant.7	Level1	802.11 g	Left Cheek	0	6	2437	-0.01	0.736	18.20	19.00	1.202	97.30	1.028	0.909	/
	Level1	802.11 g	Left Tilt	0	6	2437	0.11	0.646	18.20	19.00	1.202	97.30	1.028	0.798	/
	Level1	802.11 g	Right Cheek	0	6	2437	-0.05	0.335	18.20	19.00	1.202	97.30	1.028	0.414	/
	Level1	802.11 g	Right Tilt	0	6	2437	0.06	0.354	18.20	19.00	1.202	97.30	1.028	0.437	/
	Level1	802.11 g	Left Cheek	0	4	2427	0.03	0.695	17.96	19.00	1.271	97.30	1.028	0.908	/
	Level1	802.11 g	Left Cheek	0	9	2452	0.03	0.739	17.99	19.00	1.262	97.30	1.028	0.959	58#
Ant.7	Level2	802.11 b	Left Cheek	0	6	2437	0.04	0.465	15.73	16.50	1.194	99.40	1.006	0.559	/
	Level2	802.11 b	Left Tilt	0	6	2437	-0.01	0.389	15.73	16.50	1.194	99.40	1.006	0.467	/
	Level2	802.11 b	Right Cheek	0	6	2437	0.04	0.196	15.73	16.50	1.194	99.40	1.006	0.235	/
	Level2	802.11 b	Right Tilt	0	6	2437	0.05	0.193	15.73	16.50	1.194	99.40	1.006	0.232	/
Body-Wron															
Ant.7	Level3&4	802.11 b	Front Side	15	6	2437	-0.03	0.080	16.21	17.00	1.199	99.40	1.006	0.096	/
	Level3&4	802.11 b	Back Side	15	6	2437	-0.07	0.081	16.21	17.00	1.199	99.40	1.006	0.098	/
Ant.7	Level3&4	802.11 g	Front Side	15	6	2437	0.03	0.130	18.20	19.00	1.202	97.30	1.028	0.161	/
	Level3&4	802.11 g	Back Side	15	6	2437	0.06	0.138	18.20	19.00	1.202	97.30	1.028	0.171	59#
Hotspot															
Ant.7	Level3&4	802.11 b	Front Side	10	6	2437	-0.07	0.147	16.21	17.00	1.199	99.40	1.006	0.177	/
	Level3&4	802.11 b	Back Side	10	6	2437	0.08	0.128	16.21	17.00	1.199	99.40	1.006	0.154	/
	Level3&4	802.11 b	Right Edge	10	6	2437	0.01	0.189	16.21	17.00	1.199	99.40	1.006	0.228	/
	Level3&4	802.11 b	Top Edge	10	6	2437	-0.05	0.137	16.21	17.00	1.199	99.40	1.006	0.165	/
Ant.7	Level3&4	802.11 g	Front Side	10	6	2437	0.08	0.211	18.20	19.00	1.202	97.30	1.028	0.261	/
	Level3&4	802.11 g	Back Side	10	6	2437	-0.02	0.185	18.20	19.00	1.202	97.30	1.028	0.229	/
	Level3&4	802.11 g	Right Edge	10	6	2437	0.05	0.268	18.20	19.00	1.202	97.30	1.028	0.331	60#
	Level3&4	802.11 g	Top Edge	10	6	2437	0.02	0.194	18.20	19.00	1.202	97.30	1.028	0.240	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific															
Ant.7	Level3&4	802.11 b	Front Side	0	6	2437	0.02	0.423	16.21	17.00	1.199	99.40	1.006	0.510	/
	Level3&4	802.11 b	Back Side	0	6	2437	-0.01	0.426	16.21	17.00	1.199	99.40	1.006	0.514	/
	Level3&4	802.11 b	Right Edge	0	6	2437	0.02	0.454	16.21	17.00	1.199	99.40	1.006	0.548	/
	Level3&4	802.11 b	Top Edge	0	6	2437	0.08	0.374	16.21	17.00	1.199	99.40	1.006	0.451	/
Ant.7	Level3&4	802.11 g	Front Side	0	6	2437	-0.13	0.701	18.20	19.00	1.202	97.30	1.028	0.866	/
	Level3&4	802.11 g	Back Side	0	6	2437	0.04	0.705	18.20	19.00	1.202	97.30	1.028	0.871	/
	Level3&4	802.11 g	Right Edge	0	6	2437	-0.10	0.761	18.20	19.00	1.202	97.30	1.028	0.940	61#
	Level3&4	802.11 g	Top Edge	0	6	2437	-0.06	0.624	18.20	19.00	1.202	97.30	1.028	0.771	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

11.18 WIFI 5GHz

Antenna	Band	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head																
Ant7	5.3G	Level1	802.11 n (HT40)	Left Cheek	0	54	5270	0.08	0.394	13.56	15.00	1.393	95.30	1.049	0.576	/
	5.3G	Level1	802.11 n (HT40)	Left Tilt	0	54	5270	0.06	0.578	13.56	15.00	1.393	95.30	1.049	0.845	62#
	5.3G	Level1	802.11 n (HT40)	Right Cheek	0	54	5270	0.07	0.176	13.56	15.00	1.393	95.30	1.049	0.257	/
	5.3G	Level1	802.11 n (HT40)	Right Tilt	0	54	5270	-0.05	0.180	13.56	15.00	1.393	95.30	1.049	0.263	/
	5.3G	Level1	802.11 n (HT40)	Left Tilt	0	62	5310	-0.05	0.512	12.83	14.50	1.469	95.30	1.049	0.789	/
Ant7	5.3G	Level1	802.11 ac (VHT80)	Left Cheek	0	58	5290	-0.02	0.213	10.15	12.00	1.531	91.60	1.092	0.356	/
	5.3G	Level1	802.11 ac (VHT80)	Left Tilt	0	58	5290	0.06	0.320	10.15	12.00	1.531	91.60	1.092	0.535	/
	5.3G	Level1	802.11 ac (VHT80)	Right Cheek	0	58	5290	0.03	0.096	10.15	12.00	1.531	91.60	1.092	0.160	/
	5.3G	Level1	802.11 ac (VHT80)	Right Tilt	0	58	5290	-0.08	0.099	10.15	12.00	1.531	91.60	1.092	0.166	/
Ant7	5.6G	Level1	802.11 n (HT40)	Left Cheek	0	118	5590	0.07	0.463	13.46	15.00	1.426	95.30	1.049	0.693	/
	5.6G	Level1	802.11 n (HT40)	Left Tilt	0	118	5590	0.07	0.689	13.46	15.00	1.426	95.30	1.049	1.031	63#
	5.6G	Level1	802.11 n (HT40)	Right Cheek	0	118	5590	0.05	0.221	13.46	15.00	1.426	95.30	1.049	0.331	/
	5.6G	Level1	802.11 n (HT40)	Right Tilt	0	118	5590	0.09	0.246	13.46	15.00	1.426	95.30	1.049	0.368	/
	5.6G	Level1	802.11 n (HT40)	Left Tilt	0	110	5550	0.00	0.654	13.43	15.00	1.435	95.30	1.049	0.984	/
	5.6G	Level1	802.11 n (HT40)	Left Tilt	0	134	5670	-0.02	0.662	13.42	15.00	1.439	95.30	1.049	0.999	/
Ant7	5.6G	Level2	802.11 ac (VHT80)	Left Cheek	0	122	5610	0.03	0.186	10.49	11.50	1.262	91.60	1.092	0.256	/
	5.6G	Level2	802.11 ac (VHT80)	Left Tilt	0	122	5610	0.02	0.291	10.49	11.50	1.262	91.60	1.092	0.401	/
	5.6G	Level2	802.11 ac (VHT80)	Right Cheek	0	122	5610	-0.01	0.094	10.49	11.50	1.262	91.60	1.092	0.130	/

	5.6G	Level2	802.11 ac (VHT80)	Right Tilt	0	122	5610	0.02	0.103	10.49	11.50	1.262	91.60	1.092	0.142	/
Ant7	5.8G	Level1	802.11 ac (VHT80)	Left Cheek	0	155	5775	-0.08	0.439	13.54	15.50	1.570	91.60	1.092	0.753	/
	5.8G	Level1	802.11 ac (VHT80)	Left Tilt	0	155	5775	0.06	0.573	13.54	15.50	1.570	91.60	1.092	0.982	64#
	5.8G	Level1	802.11 ac (VHT80)	Right Cheek	0	155	5775	-0.03	0.165	13.54	15.50	1.570	91.60	1.092	0.283	/
	5.8G	Level1	802.11 ac (VHT80)	Right Tilt	0	155	5775	-0.06	0.174	13.54	15.50	1.570	91.60	1.092	0.298	/
Ant7	5.8G	Level2	802.11 ac (VHT80)	Left Cheek	0	155	5775	-0.05	0.194	10.11	12.00	1.545	91.60	1.092	0.327	/
	5.8G	Level2	802.11 ac (VHT80)	Left Tilt	0	155	5775	-0.02	0.252	10.11	12.00	1.545	91.60	1.092	0.425	/
	5.8G	Level2	802.11 ac (VHT80)	Right Cheek	0	155	5775	0.08	0.076	10.11	12.00	1.545	91.60	1.092	0.128	/
	5.8G	Level2	802.11 ac (VHT80)	Right Tilt	0	155	5775	0.10	0.079	10.11	12.00	1.545	91.60	1.092	0.133	/
Body-worn																
Ant7	5.3G	Level3&4	802.11 n (HT40)	Front Side	15	54	5270	-0.05	0.086	13.56	15.00	1.393	95.30	1.049	0.126	/
	5.3G	Level3&4	802.11 n (HT40)	Back Side	15	54	5270	0.11	0.169	13.56	15.00	1.393	95.30	1.049	0.247	65#
Ant7	5.6G	Level3&4	802.11 n (HT40)	Front Side	15	118	5590	-0.11	0.129	13.46	15.00	1.426	95.30	1.049	0.193	/
	5.6G	Level3&4	802.11 n (HT40)	Back Side	15	118	5590	-0.12	0.224	13.46	15.00	1.426	95.30	1.049	0.335	66#
Ant7	5.8G	Level3&4	802.11 ac (VHT80)	Front Side	15	155	5775	0.05	0.092	13.54	15.50	1.570	91.60	1.092	0.158	/
	5.8G	Level3&4	802.11 ac (VHT80)	Back Side	15	155	5775	0.16	0.174	13.54	15.50	1.570	91.60	1.092	0.298	67#
Hotspot																
Ant7	5.2G	Level3&4	802.11 n (HT40)	Front Side	10	46	5230	0.04	0.088	13.57	15.00	1.390	95.30	1.049	0.128	/
	5.2G	Level3&4	802.11 n (HT40)	Back Side	10	46	5230	0.12	0.167	13.57	15.00	1.390	95.30	1.049	0.244	/
	5.2G	Level3&4	802.11 n (HT40)	Right Edge	10	46	5230	0.01	0.118	13.57	15.00	1.390	95.30	1.049	0.172	/
	5.2G	Level3&4	802.11 n (HT40)	Top Edge	10	46	5230	0.12	0.241	13.57	15.00	1.390	95.30	1.049	0.351	68#
Ant7	5.8G	Level3&4	802.11 ac (VHT80)	Front Side	10	155	5775	-0.11	0.091	13.54	15.50	1.570	91.60	1.092	0.156	/

5.8G	Level3&4	802.11 ac (VHT80)	Back Side	10	155	5775	0.03	0.167	13.54	15.50	1.570	91.60	1.092	0.286	/
5.8G	Level3&4	802.11 ac (VHT80)	Right Edge	10	155	5775	0.08	0.098	13.54	15.50	1.570	91.60	1.092	0.168	/
5.8G	Level3&4	802.11 ac (VHT80)	Top Edge	10	155	5775	-0.01	0.263	13.54	15.50	1.570	91.60	1.092	0.451	69#

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

Antenna	Band	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific																
Ant7	5.3G	Level3&4	802.11 n (HT40)	Front Side	0	54	5270	0.12	0.264	13.56	15.00	1.393	95.30	1.049	0.386	/
	5.3G	Level3&4	802.11 n (HT40)	Back Side	0	54	5270	0.05	0.303	13.56	15.00	1.393	95.30	1.049	0.443	/
	5.3G	Level3&4	802.11 n (HT40)	Right Edge	0	54	5270	0.12	0.276	13.56	15.00	1.393	95.30	1.049	0.403	/
	5.3G	Level3&4	802.11 n (HT40)	Top Edge	0	54	5270	-0.01	0.374	13.56	15.00	1.393	95.30	1.049	0.547	70#
Ant7	5.6G	Level3&4	802.11 n (HT40)	Front Side	0	118	5590	0.11	0.320	13.46	15.00	1.426	95.30	1.049	0.479	/
	5.6G	Level3&4	802.11 n (HT40)	Back Side	0	118	5590	0.03	0.493	13.46	15.00	1.426	95.30	1.049	0.737	/
	5.6G	Level3&4	802.11 n (HT40)	Right Edge	0	118	5590	-0.12	0.195	13.46	15.00	1.426	95.30	1.049	0.292	/
	5.6G	Level3&4	802.11 n (HT40)	Top Edge	0	118	5590	-0.02	0.503	13.46	15.00	1.426	95.30	1.049	0.752	71#
Ant7	5.8G	Level3&4	802.11 ac (VHT80)	Front Side	0	155	5775	0.04	0.251	13.54	15.50	1.570	91.60	1.092	0.430	/
	5.8G	Level3&4	802.11 ac (VHT80)	Back Side	0	155	5775	0.11	0.389	13.54	15.50	1.570	91.60	1.092	0.667	/
	5.8G	Level3&4	802.11 ac (VHT80)	Right Edge	0	155	5775	-0.01	0.152	13.54	15.50	1.570	91.60	1.092	0.261	/
	5.8G	Level3&4	802.11 ac (VHT80)	Top Edge	0	155	5775	0.02	0.544	13.54	15.50	1.570	91.60	1.092	0.933	72#

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

11.19 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.7	DH5	Left Cheek	0	39	2441	0.11	0.147	14.17	15.00	1.211	76.61	1.305	0.232	73#
Ant.7	DH5	Left Tilt	0	39	2441	0.14	0.135	14.17	15.00	1.211	76.61	1.305	0.213	/
Ant.7	DH5	Right Cheek	0	39	2441	0.12	0.072	14.17	15.00	1.211	76.61	1.305	0.114	/
Ant.7	DH5	Right Tilt	0	39	2441	-0.12	0.069	14.17	15.00	1.211	76.61	1.305	0.109	/
Body-worn														
Ant.7	DH5	Front Side	15	39	2441	0.03	0.021	14.17	15.00	1.211	76.61	1.305	0.033	/
Ant.7	DH5	Back Side	15	39	2441	-0.08	0.024	14.17	15.00	1.211	76.61	1.305	0.038	74#
Hotspot														
Ant.7	DH5	Front Side	10	39	2441	0.14	0.035	14.17	15.00	1.211	76.61	1.305	0.055	/
Ant.7	DH5	Back Side	10	39	2441	-0.07	0.034	14.17	15.00	1.211	76.61	1.305	0.054	/
Ant.7	DH5	Right Edge	10	39	2441	0.13	0.048	14.17	15.00	1.211	76.61	1.305	0.076	75#
Ant.7	DH5	Top Edge	10	39	2441	0.03	0.029	14.17	15.00	1.211	76.61	1.305	0.046	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific														
Ant.7	DH5	Front Side	0	39	2441	0.10	0.132	14.17	15.00	1.211	76.61	1.305	0.209	/
Ant.7	DH5	Back Side	0	39	2441	0.14	0.131	14.17	15.00	1.211	76.61	1.305	0.207	/
Ant.7	DH5	Right Edge	0	39	2441	-0.04	0.143	14.17	15.00	1.211	76.61	1.305	0.226	76#
Ant.7	DH5	Top Edge	0	39	2441	-0.07	0.119	14.17	15.00	1.211	76.61	1.305	0.188	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

11.20 Worst Case of WCDMA Band 2 SAR

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Head--Worce Case for Second supply													
Ant.4	DSI1	RMC	Right Tilt	0	9538	1907.6	0.03	0.775	16.43	17.50	1.279	0.991	77#
Head--Worce Case for Three supply													
Ant.4	DSI1	RMC	Right Tilt	0	9538	1907.6	0.05	0.733	16.43	17.50	1.279	0.938	78#
Head--Worce Case for Bracket													
Ant.4	DSI1	RMC	Right Tilt	0	9538	1907.6	-0.01	0.808	16.43	17.50	1.279	1.033	79#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	10 g Scaled SAR (W/kg)	Meas. No.
Specific--Worce Case for Second supply													
Ant.4	DSI3	RMC	Top Edge	0	9538	1907.6	0.01	1.960	18.36	19.50	1.300	2.548	80#
Specific--Worce Case for Three supply													
Ant.4	DSI3	RMC	Top Edge	0	9538	1907.6	0.00	1.960	18.36	19.50	1.300	2.548	81#
Specific--Worce Case for Bracket													
Ant.4	DSI3	RMC	Top Edge	0	9538	1907.6	0.00	1.930	18.36	19.50	1.300	2.509	82#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.21 Worst Case of WCDMA Band 4 SAR

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Hotspot--Worce Case for Second supply													
Ant.4	DSI5	RMC	Top Edge	10	1312	1712.4	0.00	0.781	20.79	22.00	1.321	1.032	83#
Hotspot--Worce Case for Three supply													
Ant.4	DSI5	RMC	Top Edge	10	1312	1712.4	-0.03	0.759	20.79	22.00	1.321	1.003	84#
Hotspot--Worce Case for Bracket													
Ant.4	DSI5	RMC	Top Edge	10	1312	1712.4	0.13	0.782	20.79	22.00	1.321	1.033	85#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

11.22 Worst Case of LTE Band 2 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-power (dBm)	Scaling Factor	1 g Scaled SAR (W/kg)	Meas. No.
Body-worn-Worce Case for Second supply															
Ant.4	DSI2&4	QPSK	Back Side	15	18900	1880	1	Mid	0.04	0.694	24.26	25.50	1.330	0.923	86#
Body-worn--Worce Case for Three supply															
Ant.4	DSI2&4	QPSK	Back Side	15	18900	1880	1	Mid	-0.03	0.679	24.26	25.50	1.330	0.903	87#
Body-worn--Worce Case for for Bracket															
Ant.4	DSI2&4	QPSK	Back Side	15	18900	1880	1	Mid	-0.01	0.685	24.26	25.50	1.330	0.911	88#
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	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
1907.6	WCDMA Band2	Head	Right Tilt	0.814	Yes	0.808	1.01
1712.4	WCDMA Band4	Hotspot	Top Edge	0.824	Yes	0.810	1.02
1860	LTE Band2	Hotspot	Top Edge	0.858	Yes	0.843	1.02
1720	LTE Band4	Hotspot	Top Edge	0.830	Yes	0.828	1.00
2535	LTE Band7	Head	Right Cheek	0.892	Yes	0.856	1.04
2610	LTE Band38	Head	Right Cheek	0.819	Yes	0.803	1.02
2580	LTE Band38	Hotspot	Top Edge	0.869	Yes	0.819	1.06
2680	LTE Band41	Head	Right Cheek	0.828	Yes	0.821	1.01
2593	LTE Band41	Hotspot	Top Edge	0.876	Yes	0.835	1.05

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	Head	Body-worn	Hotspot	Specific
1	5G WIFI + BT	Yes	Yes	Yes	Yes
2	WWAN + 2.4G WIFI	Yes	Yes	Yes	Yes
3	WWAN + 5G WIFI	Yes	Yes	Yes	Yes
4	WWAN + BT	Yes	Yes	Yes	Yes
5	WWAN + 5G WIFI + BT	Yes	Yes	Yes	Yes
1	5G WIFI + BT	Yes	Yes	Yes	Yes

Note:

- WiFi 2.4G and Bluetooth can't transmit simultaneously.
- The maximum SAR summation is calculated based on the same configuration and test position.

13.2 Sum SAR of Simultaneous Transmission

13.2.1 Head Simultaneous Transmission SAR Evaluation for WLAN with BT

Position	Stand alone SAR		SUM SAR
	1	2	
	5GWIFI Max.	Bluetooth	1+2
	Level1		
Left Cheek	0.959	0.232	1.191
Left Tilt	0.798	0.213	1.011
Right Cheek	0.414	0.114	0.528
Right Tilt	0.437	0.109	0.546

Note:

1: The highest Summed 1g SAR is 1.191 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.2 Body-Worn Simultaneous Transmission SAR Evaluation for WLAN with BT

Position	Stand alone SAR		SUM SAR
	1	2	
	5GWIFI Max.	Bluetooth	1+2
	Level3		
Front Side 15mm	0.193	0.033	0.226
Back Side 15mm	0.335	0.038	0.373

Note:

1: The highest Summed 1g SAR is 0.373 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.3 Hotspot Simultaneous Transmission SAR Evaluation for WLAN with BT

Position	Stand alone SAR		SUM SAR
	1	2	
	5GWIFI Max.	Bluetooth	1+2
	Level3		
Front Side 10mm	0.156	0.055	0.211
Back Side 10mm	0.286	0.054	0.340
Left Edge 10mm	0.000	0.000	0.000
Right Edge 10mm	0.172	0.076	0.248
Top Edge 10mm	0.451	0.046	0.497
Bottom Edge 10mm	0.000	0.000	0.000

Note:

1: The highest Summed 1g SAR is 0.497 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.4 Sum Body-worn SAR of Simultaneous Transmission

Position	Stand alone SAR		SUM SAR
	1	2	
	5GWIFI Max.	Bluetooth	1+2
	Level3		
Front Side 0mm	0.479	0.209	0.688
Back Side 0mm	0.737	0.207	0.944
Left Edge 0mm	0.000	0.000	0.000
Right Edge 0mm	0.403	0.226	0.629
Top Edge 0mm	0.933	0.188	1.121
Bottom Edge 0mm	0.000	0.000	0.000

Note:

1: The highest Summed 10g SAR is 1.121 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.5 Head Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	1+2	1+3+4
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth		
			DSI1	Level2	Level2			
GSM850	Ant.4	Left Cheek	0.795	0.559	0.356	0.232	1.354	1.383
		Left Tilt	0.717	0.467	0.535	0.213	1.184	1.465
		Right Cheek	0.942	0.235	0.160	0.114	1.177	1.216
		Right Tilt	0.717	0.232	0.166	0.109	0.949	0.992
GSM850	Ant.1	Left Cheek	0.153	0.559	0.356	0.232	0.712	0.741
		Left Tilt	0.074	0.467	0.535	0.213	0.541	0.822
		Right Cheek	0.129	0.235	0.160	0.114	0.364	0.403
		Right Tilt	0.070	0.232	0.166	0.109	0.302	0.345
GSM1900	Ant.4	Left Cheek	0.491	0.559	0.356	0.232	1.050	1.079
		Left Tilt	0.662	0.467	0.535	0.213	1.129	1.410
		Right Cheek	0.749	0.235	0.160	0.114	0.984	1.023
		Right Tilt	0.953	0.232	0.166	0.109	1.185	1.228
GSM1900	Ant.1	Left Cheek	0.142	0.559	0.356	0.232	0.701	0.730
		Left Tilt	0.092	0.467	0.535	0.213	0.559	0.840
		Right Cheek	0.131	0.235	0.160	0.114	0.366	0.405
		Right Tilt	0.073	0.232	0.166	0.109	0.305	0.348
WCDMA B2	Ant.4	Left Cheek	0.527	0.559	0.356	0.232	1.086	1.115
		Left Tilt	0.681	0.467	0.535	0.213	1.148	1.429
		Right Cheek	0.731	0.235	0.160	0.114	0.966	1.005
		Right Tilt	1.041	0.232	0.166	0.109	1.273	1.316
WCDMA B2	Ant.1	Left Cheek	0.155	0.559	0.356	0.232	0.714	0.743
		Left Tilt	0.121	0.467	0.535	0.213	0.588	0.869
		Right Cheek	0.132	0.235	0.160	0.114	0.367	0.406
		Right Tilt	0.120	0.232	0.166	0.109	0.352	0.395
WCDMA B4	Ant.4	Left Cheek	0.577	0.559	0.356	0.232	1.136	1.165
		Left Tilt	0.777	0.467	0.535	0.213	1.244	1.525
		Right Cheek	0.783	0.235	0.160	0.114	1.018	1.057
		Right Tilt	1.032	0.232	0.166	0.109	1.264	1.307
WCDMA B4	Ant.1	Left Cheek	0.086	0.559	0.356	0.232	0.645	0.674
		Left Tilt	0.053	0.467	0.535	0.213	0.520	0.801
		Right Cheek	0.082	0.235	0.160	0.114	0.317	0.356
		Right Tilt	0.051	0.232	0.166	0.109	0.283	0.326
WCDMA B5	Ant.4	Left Cheek	0.958	0.559	0.356	0.232	1.517	1.546
		Left Tilt	0.735	0.467	0.535	0.213	1.202	1.483
		Right Cheek	0.736	0.235	0.160	0.114	0.971	1.010
		Right Tilt	0.716	0.232	0.166	0.109	0.948	0.991
WCDMA B5	Ant.1	Left Cheek	0.270	0.559	0.356	0.232	0.829	0.858

		Left Tilt	0.129	0.467	0.535	0.213	0.596	0.877
		Right Cheek	0.216	0.235	0.160	0.114	0.451	0.490
		Right Tilt	0.117	0.232	0.166	0.109	0.349	0.392
LTE B2	Ant.4	Left Cheek	0.492	0.559	0.356	0.232	1.051	1.080
		Left Tilt	0.619	0.467	0.535	0.213	1.086	1.367
		Right Cheek	0.701	0.235	0.160	0.114	0.936	0.975
		Right Tilt	0.967	0.232	0.166	0.109	1.199	1.242
LTE B2	Ant.1	Left Cheek	0.168	0.559	0.356	0.232	0.727	0.756
		Left Tilt	0.136	0.467	0.535	0.213	0.603	0.884
		Right Cheek	0.160	0.235	0.160	0.114	0.395	0.434
		Right Tilt	0.127	0.232	0.166	0.109	0.359	0.402
LTE B4	Ant.4	Left Cheek	0.544	0.559	0.356	0.232	1.103	1.132
		Left Tilt	0.675	0.467	0.535	0.213	1.142	1.423
		Right Cheek	0.752	0.235	0.160	0.114	0.987	1.026
		Right Tilt	0.897	0.232	0.166	0.109	1.129	1.172
LTE B4	Ant.1	Left Cheek	0.091	0.559	0.356	0.232	0.650	0.679
		Left Tilt	0.055	0.467	0.535	0.213	0.522	0.803
		Right Cheek	0.081	0.235	0.160	0.114	0.316	0.355
		Right Tilt	0.052	0.232	0.166	0.109	0.284	0.327
LTE B5	Ant.4	Left Cheek	0.914	0.559	0.356	0.232	1.473	1.502
		Left Tilt	0.779	0.467	0.535	0.213	1.246	1.527
		Right Cheek	0.793	0.235	0.160	0.114	1.028	1.067
		Right Tilt	0.702	0.232	0.166	0.109	0.934	0.977
LTE B5	Ant.1	Left Cheek	0.317	0.559	0.356	0.232	0.876	0.905
		Left Tilt	0.160	0.467	0.535	0.213	0.627	0.908
		Right Cheek	0.270	0.235	0.160	0.114	0.505	0.544
		Right Tilt	0.139	0.232	0.166	0.109	0.371	0.414
LTE B7	Ant.4	Left Cheek	0.392	0.559	0.356	0.232	0.951	0.980
		Left Tilt	0.502	0.467	0.535	0.213	0.969	1.250
		Right Cheek	0.939	0.235	0.160	0.114	1.174	1.213
		Right Tilt	0.796	0.232	0.166	0.109	1.028	1.071
LTE B7	Ant.1	Left Cheek	0.068	0.559	0.356	0.232	0.627	0.656
		Left Tilt	0.060	0.467	0.535	0.213	0.527	0.808
		Right Cheek	1.004	0.235	0.160	0.114	1.239	1.278
		Right Tilt	0.057	0.232	0.166	0.109	0.289	0.332
LTE B12	Ant.4	Left Cheek	0.512	0.559	0.356	0.232	1.071	1.100
		Left Tilt	0.501	0.467	0.535	0.213	0.968	1.249
		Right Cheek	0.725	0.235	0.160	0.114	0.960	0.999
		Right Tilt	0.648	0.232	0.166	0.109	0.880	0.923
LTE B12	Ant.1	Left Cheek	0.162	0.559	0.356	0.232	0.721	0.750
		Left Tilt	0.087	0.467	0.535	0.213	0.554	0.835
		Right Cheek	0.145	0.235	0.160	0.114	0.380	0.419
		Right Tilt	0.079	0.232	0.166	0.109	0.311	0.354

LTE B13	Ant.4	Left Cheek	0.646	0.559	0.356	0.232	1.205	1.234
		Left Tilt	0.634	0.467	0.535	0.213	1.101	1.382
		Right Cheek	0.910	0.235	0.160	0.114	1.145	1.184
		Right Tilt	0.787	0.232	0.166	0.109	1.019	1.062
LTE B13	Ant.1	Left Cheek	0.206	0.559	0.356	0.232	0.765	0.794
		Left Tilt	0.112	0.467	0.535	0.213	0.579	0.860
		Right Cheek	0.182	0.235	0.160	0.114	0.417	0.456
		Right Tilt	0.101	0.232	0.166	0.109	0.333	0.376
LTE B17	Ant.4	Left Cheek	0.555	0.559	0.356	0.232	1.114	1.143
		Left Tilt	0.526	0.467	0.535	0.213	0.993	1.274
		Right Cheek	0.760	0.235	0.160	0.114	0.995	1.034
		Right Tilt	0.677	0.232	0.166	0.109	0.909	0.952
LTE B17	Ant.1	Left Cheek	0.158	0.559	0.356	0.232	0.717	0.746
		Left Tilt	0.082	0.467	0.535	0.213	0.549	0.830
		Right Cheek	0.146	0.235	0.160	0.114	0.381	0.420
		Right Tilt	0.072	0.232	0.166	0.109	0.304	0.347
LTE B26	Ant.4	Left Cheek	0.949	0.559	0.356	0.232	1.508	1.537
		Left Tilt	0.756	0.467	0.535	0.213	1.223	1.504
		Right Cheek	0.859	0.235	0.160	0.114	1.094	1.133
		Right Tilt	0.745	0.232	0.166	0.109	0.977	1.020
LTE B26	Ant.1	Left Cheek	0.291	0.559	0.356	0.232	0.850	0.879
		Left Tilt	0.138	0.467	0.535	0.213	0.605	0.886
		Right Cheek	0.265	0.235	0.160	0.114	0.500	0.539
		Right Tilt	0.118	0.232	0.166	0.109	0.350	0.393
LTE B66	Ant.4	Left Cheek	0.394	0.559	0.356	0.232	0.953	0.982
		Left Tilt	0.550	0.467	0.535	0.213	1.017	1.298
		Right Cheek	0.659	0.235	0.160	0.114	0.894	0.933
		Right Tilt	0.785	0.232	0.166	0.109	1.017	1.060
LTE B66	Ant.1	Left Cheek	0.088	0.559	0.356	0.232	0.647	0.676
		Left Tilt	0.054	0.467	0.535	0.213	0.521	0.802
		Right Cheek	0.077	0.235	0.160	0.114	0.312	0.351
		Right Tilt	0.053	0.232	0.166	0.109	0.285	0.328
LTE B38	Ant.4	Left Cheek	0.363	0.559	0.356	0.232	0.922	0.951
		Left Tilt	0.478	0.467	0.535	0.213	0.945	1.226
		Right Cheek	0.984	0.235	0.160	0.114	1.219	1.258
		Right Tilt	0.741	0.232	0.166	0.109	0.973	1.016
LTE B38	Ant.1	Left Cheek	0.081	0.559	0.356	0.232	0.640	0.669
		Left Tilt	0.043	0.467	0.535	0.213	0.510	0.791
		Right Cheek	0.073	0.235	0.160	0.114	0.308	0.347
		Right Tilt	0.039	0.232	0.166	0.109	0.271	0.314
LTE B41	Ant.4	Left Cheek	0.367	0.559	0.356	0.232	0.926	0.955
		Left Tilt	0.475	0.467	0.535	0.213	0.942	1.223
		Right Cheek	1.031	0.235	0.160	0.114	1.266	1.305

		Right Tilt	0.608	0.232	0.166	0.109	0.840	0.883
LTE B41	Ant. 1	Left Cheek	0.073	0.559	0.356	0.232	0.632	0.661
		Left Tilt	0.064	0.467	0.535	0.213	0.531	0.812
		Right Cheek	0.067	0.235	0.160	0.114	0.302	0.341
		Right Tilt	0.048	0.232	0.166	0.109	0.280	0.323

Note:

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

2: The highest Summed 1g SAR is 1.546 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.6 Body-Worn Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	1+2	1+3+4
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth		
			DSI2/3/4	Level4	Level4			
GSM850	Ant.4	Front Side 15mm	0.213	0.161	0.193	0.033	0.374	0.439
		Back Side 15mm	0.286	0.171	0.335	0.038	0.457	0.659
GSM850	Ant.1	Front Side 15mm	0.110	0.161	0.193	0.033	0.271	0.336
		Back Side 15mm	0.128	0.171	0.335	0.038	0.299	0.501
GSM1900	Ant.4	Front Side 15mm	0.309	0.161	0.193	0.033	0.470	0.535
		Back Side 15mm	0.586	0.171	0.335	0.038	0.757	0.959
GSM1900	Ant.1	Front Side 15mm	0.144	0.161	0.193	0.033	0.305	0.370
		Back Side 15mm	0.205	0.171	0.335	0.038	0.376	0.578
WCDMA B2	Ant.4	Front Side 15mm	0.441	0.161	0.193	0.033	0.602	0.667
		Back Side 15mm	0.889	0.171	0.335	0.038	1.060	1.262
WCDMA B2	Ant.1	Front Side 15mm	0.291	0.161	0.193	0.033	0.452	0.517
		Back Side 15mm	0.371	0.171	0.335	0.038	0.542	0.744
WCDMA B4	Ant.4	Front Side 15mm	0.361	0.161	0.193	0.033	0.522	0.587
		Back Side 15mm	0.659	0.171	0.335	0.038	0.830	1.032
WCDMA B4	Ant.1	Front Side 15mm	0.306	0.161	0.193	0.033	0.467	0.532
		Back Side 15mm	0.465	0.171	0.335	0.038	0.636	0.838
WCDMA B5	Ant.4	Front Side 15mm	0.254	0.161	0.193	0.033	0.415	0.480
		Back Side 15mm	0.343	0.171	0.335	0.038	0.514	0.716
WCDMA B5	Ant.1	Front Side 15mm	0.204	0.161	0.193	0.033	0.365	0.430
		Back Side 15mm	0.221	0.171	0.335	0.038	0.392	0.594
LTE B2	Ant.4	Front Side 15mm	0.647	0.161	0.193	0.033	0.808	0.873
		Back Side 15mm	0.924	0.171	0.335	0.038	1.095	1.297
LTE B2	Ant.1	Front Side 15mm	0.132	0.161	0.193	0.033	0.293	0.358
		Back Side 15mm	0.171	0.171	0.335	0.038	0.342	0.544
LTE B4	Ant.4	Front Side 15mm	0.547	0.161	0.193	0.033	0.708	0.773
		Back Side 15mm	0.732	0.171	0.335	0.038	0.903	1.105
LTE B4	Ant.1	Front Side 15mm	0.153	0.161	0.193	0.033	0.314	0.379
		Back Side 15mm	0.236	0.171	0.335	0.038	0.407	0.609
LTE B5	Ant.4	Front Side 15mm	0.162	0.161	0.193	0.033	0.323	0.388
		Back Side 15mm	0.201	0.171	0.335	0.038	0.372	0.574
LTE B5	Ant.1	Front Side 15mm	0.257	0.161	0.193	0.033	0.418	0.483
		Back Side 15mm	0.292	0.171	0.335	0.038	0.463	0.665
LTE B7	Ant.4	Front Side 15mm	0.235	0.161	0.193	0.033	0.396	0.461
		Back Side 15mm	0.410	0.171	0.335	0.038	0.581	0.783
LTE B7	Ant.1	Front Side 15mm	0.119	0.161	0.193	0.033	0.280	0.345
		Back Side 15mm	0.267	0.171	0.335	0.038	0.438	0.640

LTE B12	Ant.4	Front Side 15mm	0.150	0.161	0.193	0.033	0.311	0.376
		Back Side 15mm	0.196	0.171	0.335	0.038	0.367	0.569
LTE B12	Ant.1	Front Side 15mm	0.232	0.161	0.193	0.033	0.393	0.458
		Back Side 15mm	0.284	0.171	0.335	0.038	0.455	0.657
LTE B13	Ant.4	Front Side 15mm	0.176	0.161	0.193	0.033	0.337	0.402
		Back Side 15mm	0.215	0.171	0.335	0.038	0.386	0.588
LTE B13	Ant.1	Front Side 15mm	0.245	0.161	0.193	0.033	0.406	0.471
		Back Side 15mm	0.263	0.171	0.335	0.038	0.434	0.636
LTE B17	Ant.4	Front Side 15mm	0.153	0.161	0.193	0.033	0.314	0.379
		Back Side 15mm	0.197	0.171	0.335	0.038	0.368	0.570
LTE B17	Ant.1	Front Side 15mm	0.235	0.161	0.193	0.033	0.396	0.461
		Back Side 15mm	0.285	0.171	0.335	0.038	0.456	0.658
LTE B26	Ant.4	Front Side 15mm	0.144	0.161	0.193	0.033	0.305	0.370
		Back Side 15mm	0.182	0.171	0.335	0.038	0.353	0.555
LTE B26	Ant.1	Front Side 15mm	0.220	0.161	0.193	0.033	0.381	0.446
		Back Side 15mm	0.223	0.171	0.335	0.038	0.394	0.596
LTE B66	Ant.4	Front Side 15mm	0.533	0.161	0.193	0.033	0.694	0.759
		Back Side 15mm	0.701	0.171	0.335	0.038	0.872	1.074
LTE B66	Ant.1	Front Side 15mm	0.143	0.161	0.193	0.033	0.304	0.369
		Back Side 15mm	0.211	0.171	0.335	0.038	0.382	0.584
LTE B38	Ant.4	Front Side 15mm	0.398	0.161	0.193	0.033	0.559	0.624
		Back Side 15mm	0.411	0.171	0.335	0.038	0.582	0.784
LTE B38	Ant.1	Front Side 15mm	0.121	0.161	0.193	0.033	0.282	0.347
		Back Side 15mm	0.238	0.171	0.335	0.038	0.409	0.611
LTE B41	Ant.4	Front Side 15mm	0.345	0.161	0.193	0.033	0.506	0.571
		Back Side 15mm	0.414	0.171	0.335	0.038	0.585	0.787
LTE B41	Ant.1	Front Side 15mm	0.117	0.161	0.193	0.033	0.278	0.343
		Back Side 15mm	0.234	0.171	0.335	0.038	0.405	0.607

Note:

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

2: The highest Summed 1g SAR is 1.297 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.7 Hotspot Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	1+2	1+3+4
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth		
			DSI5	Level4	Level4			
GSM850	Ant.4	Front Side 10mm	0.281	0.261	0.156	0.055	0.542	0.492
		Back Side 10mm	0.434	0.229	0.286	0.054	0.663	0.774
		Left Edge 10mm	0.165	0.000	0.000	0.000	0.165	0.165
		Right Edge 10mm	0.143	0.331	0.172	0.076	0.474	0.391
		Top Edge 10mm	0.296	0.240	0.451	0.046	0.536	0.793
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
GSM850	Ant.1	Front Side 10mm	0.156	0.261	0.156	0.055	0.417	0.367
		Back Side 10mm	0.289	0.229	0.286	0.054	0.518	0.629
		Left Edge 10mm	0.099	0.000	0.000	0.000	0.099	0.099
		Right Edge 10mm	0.141	0.331	0.172	0.076	0.472	0.389
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.217	0.000	0.000	0.000	0.217	0.217
GSM1900	Ant.4	Front Side 10mm	0.345	0.261	0.156	0.055	0.606	0.556
		Back Side 10mm	0.735	0.229	0.286	0.054	0.964	1.075
		Left Edge 10mm	0.051	0.000	0.000	0.000	0.051	0.051
		Right Edge 10mm	0.003	0.331	0.172	0.076	0.334	0.251
		Top Edge 10mm	0.915	0.240	0.451	0.046	1.155	1.412
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Ant.1	Front Side 10mm	0.268	0.261	0.156	0.055	0.529	0.479
		Back Side 10mm	0.421	0.229	0.286	0.054	0.650	0.761
		Left Edge 10mm	0.190	0.000	0.000	0.000	0.190	0.190
		Right Edge 10mm	0.080	0.331	0.172	0.076	0.411	0.328
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.598	0.000	0.000	0.000	0.598	0.598
WCDMA B2	Ant.4	Front Side 10mm	0.305	0.261	0.156	0.055	0.566	0.516
		Back Side 10mm	0.619	0.229	0.286	0.054	0.848	0.959
		Left Edge 10mm	0.039	0.000	0.000	0.000	0.039	0.039
		Right Edge 10mm	0.000	0.331	0.172	0.076	0.331	0.248
		Top Edge 10mm	0.904	0.240	0.451	0.046	1.144	1.401
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Ant.1	Front Side 10mm	0.432	0.261	0.156	0.055	0.693	0.643
		Back Side 10mm	0.576	0.229	0.286	0.054	0.805	0.916
		Left Edge 10mm	0.249	0.000	0.000	0.000	0.249	0.249
		Right Edge 10mm	0.062	0.331	0.172	0.076	0.393	0.310
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.888	0.000	0.000	0.000	0.888	0.888
WCDMA B4	Ant.4	Front Side 10mm	0.432	0.261	0.156	0.055	0.693	0.643

		Back Side 10mm	0.798	0.229	0.286	0.054	1.027	1.138
		Left Edge 10mm	0.050	0.000	0.000	0.000	0.050	0.050
		Right Edge 10mm	0.027	0.331	0.172	0.076	0.358	0.275
		Top Edge 10mm	1.089	0.240	0.451	0.046	1.329	1.586
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Ant.1	Front Side 10mm	0.271	0.261	0.156	0.055	0.532	0.482
		Back Side 10mm	0.465	0.229	0.286	0.054	0.694	0.805
		Left Edge 10mm	0.117	0.000	0.000	0.000	0.117	0.117
		Right Edge 10mm	0.049	0.331	0.172	0.076	0.380	0.297
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.782	0.000	0.000	0.000	0.782	0.782
WCDMA B5	Ant.4	Front Side 10mm	0.349	0.261	0.156	0.055	0.610	0.560
		Back Side 10mm	0.591	0.229	0.286	0.054	0.820	0.931
		Left Edge 10mm	0.212	0.000	0.000	0.000	0.212	0.212
		Right Edge 10mm	0.188	0.331	0.172	0.076	0.519	0.436
		Top Edge 10mm	0.334	0.240	0.451	0.046	0.574	0.831
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Ant.1	Front Side 10mm	0.290	0.261	0.156	0.055	0.551	0.501
		Back Side 10mm	0.488	0.229	0.286	0.054	0.717	0.828
		Left Edge 10mm	0.151	0.000	0.000	0.000	0.151	0.151
		Right Edge 10mm	0.179	0.331	0.172	0.076	0.510	0.427
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.383	0.000	0.000	0.000	0.383	0.383
LTE B2	Ant.4	Front Side 10mm	0.362	0.261	0.156	0.055	0.623	0.573
		Back Side 10mm	0.471	0.229	0.286	0.054	0.700	0.811
		Left Edge 10mm	0.044	0.000	0.000	0.000	0.044	0.044
		Right Edge 10mm	0.006	0.331	0.172	0.076	0.337	0.254
		Top Edge 10mm	1.085	0.240	0.451	0.046	1.325	1.582
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B2	Ant.1	Front Side 10mm	0.480	0.261	0.156	0.055	0.741	0.691
		Back Side 10mm	0.667	0.229	0.286	0.054	0.896	1.007
		Left Edge 10mm	0.292	0.000	0.000	0.000	0.292	0.292
		Right Edge 10mm	0.089	0.331	0.172	0.076	0.420	0.337
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.750	0.000	0.000	0.000	0.750	0.750
LTE B4	Ant.4	Front Side 10mm	0.344	0.261	0.156	0.055	0.605	0.555
		Back Side 10mm	0.434	0.229	0.286	0.054	0.663	0.774
		Left Edge 10mm	0.035	0.000	0.000	0.000	0.035	0.035
		Right Edge 10mm	0.008	0.331	0.172	0.076	0.339	0.256
		Top Edge 10mm	1.062	0.240	0.451	0.046	1.302	1.559
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B4	Ant.1	Front Side 10mm	0.274	0.261	0.156	0.055	0.535	0.485
		Back Side 10mm	0.471	0.229	0.286	0.054	0.700	0.811

		Left Edge 10mm	0.120	0.000	0.000	0.000	0.120	0.120
		Right Edge 10mm	0.079	0.331	0.172	0.076	0.410	0.327
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.722	0.000	0.000	0.000	0.722	0.722
LTE B5	Ant.4	Front Side 10mm	0.314	0.261	0.156	0.055	0.575	0.525
		Back Side 10mm	0.347	0.229	0.286	0.054	0.576	0.687
		Left Edge 10mm	0.138	0.000	0.000	0.000	0.138	0.138
		Right Edge 10mm	0.173	0.331	0.172	0.076	0.504	0.421
		Top Edge 10mm	0.321	0.240	0.451	0.046	0.561	0.818
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B5	Ant.1	Front Side 10mm	0.343	0.261	0.156	0.055	0.604	0.554
		Back Side 10mm	0.544	0.229	0.286	0.054	0.773	0.884
		Left Edge 10mm	0.153	0.000	0.000	0.000	0.153	0.153
		Right Edge 10mm	0.267	0.331	0.172	0.076	0.598	0.515
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.460	0.000	0.000	0.000	0.460	0.460
LTE B7	Ant.4	Front Side 10mm	0.259	0.261	0.156	0.055	0.520	0.470
		Back Side 10mm	0.244	0.229	0.286	0.054	0.473	0.584
		Left Edge 10mm	0.180	0.000	0.000	0.000	0.180	0.180
		Right Edge 10mm	0.004	0.331	0.172	0.076	0.335	0.252
		Top Edge 10mm	0.526	0.240	0.451	0.046	0.766	1.023
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Ant.1	Front Side 10mm	0.271	0.261	0.156	0.055	0.532	0.482
		Back Side 10mm	0.629	0.229	0.286	0.054	0.858	0.969
		Left Edge 10mm	0.006	0.000	0.000	0.000	0.006	0.006
		Right Edge 10mm	0.093	0.331	0.172	0.076	0.424	0.341
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.680	0.000	0.000	0.000	0.680	0.680
LTE B12	Ant.4	Front Side 10mm	0.143	0.261	0.156	0.055	0.404	0.354
		Back Side 10mm	0.209	0.229	0.286	0.054	0.438	0.549
		Left Edge 10mm	0.185	0.000	0.000	0.000	0.185	0.185
		Right Edge 10mm	0.144	0.331	0.172	0.076	0.475	0.392
		Top Edge 10mm	0.147	0.240	0.451	0.046	0.387	0.644
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B12	Ant.1	Front Side 10mm	0.160	0.261	0.156	0.055	0.421	0.371
		Back Side 10mm	0.264	0.229	0.286	0.054	0.493	0.604
		Left Edge 10mm	0.207	0.000	0.000	0.000	0.207	0.207
		Right Edge 10mm	0.330	0.331	0.172	0.076	0.661	0.578
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.159	0.000	0.000	0.000	0.159	0.159
LTE B13	Ant.4	Front Side 10mm	0.255	0.261	0.156	0.055	0.516	0.466
		Back Side 10mm	0.255	0.229	0.286	0.054	0.484	0.595
		Left Edge 10mm	0.161	0.000	0.000	0.000	0.161	0.161

		Right Edge 10mm	0.171	0.331	0.172	0.076	0.502	0.419
		Top Edge 10mm	0.201	0.240	0.451	0.046	0.441	0.698
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B13	Ant.1	Front Side 10mm	0.208	0.261	0.156	0.055	0.469	0.419
		Back Side 10mm	0.367	0.229	0.286	0.054	0.596	0.707
		Left Edge 10mm	0.171	0.000	0.000	0.000	0.171	0.171
		Right Edge 10mm	0.337	0.331	0.172	0.076	0.668	0.585
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.301	0.000	0.000	0.000	0.301	0.301
LTE B17	Ant.4	Front Side 10mm	0.150	0.261	0.156	0.055	0.411	0.361
		Back Side 10mm	0.207	0.229	0.286	0.054	0.436	0.547
		Left Edge 10mm	0.180	0.000	0.000	0.000	0.180	0.180
		Right Edge 10mm	0.145	0.331	0.172	0.076	0.476	0.393
		Top Edge 10mm	0.195	0.240	0.451	0.046	0.435	0.692
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B17	Ant.1	Front Side 10mm	0.188	0.261	0.156	0.055	0.449	0.399
		Back Side 10mm	0.305	0.229	0.286	0.054	0.534	0.645
		Left Edge 10mm	0.216	0.000	0.000	0.000	0.216	0.216
		Right Edge 10mm	0.332	0.331	0.172	0.076	0.663	0.580
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.179	0.000	0.000	0.000	0.179	0.179
LTE B26	Ant.4	Front Side 10mm	0.300	0.261	0.156	0.055	0.561	0.511
		Back Side 10mm	0.339	0.229	0.286	0.054	0.568	0.679
		Left Edge 10mm	0.127	0.000	0.000	0.000	0.127	0.127
		Right Edge 10mm	0.143	0.331	0.172	0.076	0.474	0.391
		Top Edge 10mm	0.284	0.240	0.451	0.046	0.524	0.781
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B26	Ant.1	Front Side 10mm	0.308	0.261	0.156	0.055	0.569	0.519
		Back Side 10mm	0.488	0.229	0.286	0.054	0.717	0.828
		Left Edge 10mm	0.148	0.000	0.000	0.000	0.148	0.148
		Right Edge 10mm	0.252	0.331	0.172	0.076	0.583	0.500
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.350	0.000	0.000	0.000	0.350	0.350
LTE B66	Ant.4	Front Side 10mm	0.503	0.261	0.156	0.055	0.764	0.714
		Back Side 10mm	0.664	0.229	0.286	0.054	0.893	1.004
		Left Edge 10mm	0.070	0.000	0.000	0.000	0.070	0.070
		Right Edge 10mm	0.010	0.331	0.172	0.076	0.341	0.258
		Top Edge 10mm	1.022	0.240	0.451	0.046	1.262	1.519
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Ant.1	Front Side 10mm	0.414	0.261	0.156	0.055	0.675	0.625
		Back Side 10mm	0.674	0.229	0.286	0.054	0.903	1.014
		Left Edge 10mm	0.187	0.000	0.000	0.000	0.187	0.187
		Right Edge 10mm	0.115	0.331	0.172	0.076	0.446	0.363

		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.905	0.000	0.000	0.000	0.905	0.905
LTE B38	Ant.4	Front Side 10mm	0.633	0.261	0.156	0.055	0.894	0.844
		Back Side 10mm	0.540	0.229	0.286	0.054	0.769	0.880
		Left Edge 10mm	0.356	0.000	0.000	0.000	0.356	0.356
		Right Edge 10mm	0.006	0.331	0.172	0.076	0.337	0.254
		Top Edge 10mm	0.996	0.240	0.451	0.046	1.236	1.493
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
				Front Side 10mm	0.254	0.261	0.156	0.055
LTE B38	Ant.1	Back Side 10mm	0.533	0.229	0.286	0.054	0.762	0.873
		Left Edge 10mm	0.008	0.000	0.000	0.000	0.008	0.008
		Right Edge 10mm	0.103	0.331	0.172	0.076	0.434	0.351
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.886	0.000	0.000	0.000	0.886	0.886
				Front Side 10mm	0.626	0.261	0.156	0.055
LTE B41	Ant.4	Back Side 10mm	0.506	0.229	0.286	0.054	0.735	0.846
		Left Edge 10mm	0.362	0.000	0.000	0.000	0.362	0.362
		Right Edge 10mm	0.130	0.331	0.172	0.076	0.461	0.378
		Top Edge 10mm	0.990	0.240	0.451	0.046	1.230	1.487
		Bottom Edge 10mm	0.000	0.000	0.000	0.000	0.000	0.000
				Front Side 10mm	0.256	0.261	0.156	0.055
LTE B41	Ant.1	Back Side 10mm	0.528	0.229	0.286	0.054	0.757	0.868
		Left Edge 10mm	0.012	0.000	0.000	0.000	0.012	0.012
		Right Edge 10mm	0.101	0.331	0.172	0.076	0.432	0.349
		Top Edge 10mm	0.000	0.240	0.451	0.046	0.240	0.497
		Bottom Edge 10mm	0.797	0.000	0.000	0.000	0.797	0.797

Note:

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

2: The highest Summed 1g SAR is 1.586 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13.2.8 Specific Simultaneous Transmission SAR Evaluation for WWAN and WLAN and BT

Band	Antenna	Position	Stand alone SAR				SUM SAR	
			1	2	3	4	1+2	1+3+4
			WWAN	2.4GWIFI Max.	5GWIFI Max.	Bluetooth		
			DSI2/3	Level4	Level4			
GSM1900	Ant.4	Back Side 0mm	1.243	0.871	0.737	0.207	2.114	2.187
WCDMA B2	Ant.4	Front Side 0mm	0.960	0.866	0.479	0.209	1.826	1.648
		Back Side 0mm	1.301	0.871	0.737	0.207	2.172	2.245
		Top Edge 0mm	2.574	0.771	0.933	0.188	3.345	3.695
WCDMA B2	Ant.1	Back Side 0mm	2.299	0.871	0.737	0.207	3.170	3.243
		Bottom Edge 0mm	1.762	0.000	0.000	0.000	1.762	1.762
WCDMA B4	Ant.4	Back Side 0mm	1.086	0.871	0.737	0.207	1.957	2.030
		Top Edge 0mm	2.221	0.771	0.933	0.188	2.992	3.342
WCDMA B4	Ant.1	Back Side 0mm	1.664	0.871	0.737	0.207	2.535	2.608
		Bottom Edge 0mm	2.010	0.000	0.000	0.000	2.010	2.010
LTE B2	Ant.4	Back Side 0mm	0.906	0.871	0.737	0.207	1.777	1.850
		Top Edge 0mm	2.329	0.771	0.933	0.188	3.100	3.450
LTE B2	Ant.1	Back Side 0mm	1.979	0.871	0.737	0.207	2.850	2.923
		Bottom Edge 0mm	1.763	0.000	0.000	0.000	1.763	1.763
LTE B4	Ant.4	Top Edge 0mm	2.487	0.771	0.933	0.188	3.258	3.608
LTE B4	Ant.1	Bottom Edge 0mm	1.974	0.000	0.000	0.000	1.974	1.974
LTE B7	Ant.4	Front Side 0mm	0.845	0.866	0.479	0.209	1.711	1.533
		Back Side 0mm	0.643	0.871	0.737	0.207	1.514	1.587
		Top Edge 0mm	1.743	0.771	0.933	0.188	2.514	2.864
LTE B7	Ant.1	Back Side 0mm	0.978	0.866	0.479	0.209	1.844	1.666
		Bottom Edge 0mm	1.033	0.000	0.000	0.000	1.033	1.033
LTE B66	Ant.4	Front Side 0mm	1.056	0.866	0.479	0.209	1.922	1.744
		Back Side 0mm	0.905	0.871	0.737	0.207	1.776	1.849
		Top Edge 0mm	2.364	0.771	0.933	0.188	3.135	3.485
LTE B66	Ant.1	Bottom Edge 0mm	2.302	0.000	0.000	0.000	2.302	2.302
LTE B38	Ant.4	Top Edge 0mm	1.981	0.771	0.933	0.188	2.752	3.102
LTE B38	Ant.1	Bottom Edge 0mm	1.586	0.000	0.000	0.000	1.586	1.586
LTE B41	Ant.4	Top Edge 0mm	1.744	0.771	0.933	0.188	2.515	2.865
LTE B41	Ant.1	Bottom Edge 0mm	1.174	0.000	0.000	0.000	1.174	1.174

Note:

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

2: The highest Summed 10g SAR is 3.695 W/Kg < 4.0 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	DASY8	16.2.2.1588	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	SN: 1208	2024/08/19	2027/08/18
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2024/05/08	2027/05/07
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2024/05/08	2027/05/07
1950MHz Validation Dipole	Speag	D1950V3	SN: 1240	2024/08/22	2027/08/21
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2024/05/08	2027/05/07
5GHz Validation Dipole	Speag	D5GHZV2	SN: 1200	2024/05/09	2027/05/08
Data Acquisition Electronicsr	Speag	DAE4	SN: 1711	2024/03/18	2025/03/17
E-Field Probe	Speag	EX3DV4	SN: 7510	2024/06/25	2025/06/24
Signal Generator	R&S	SMB100A	177746	2024/04/24	2025/04/23
Power Meter	R&S	NRVD-B2	835843/014	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z4	100381	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z2	100211	2024/08/08	2025/08/07
Wireless Communication Test Set	Anritsu	MT8820C	6201502991	2023/11/14	2024/11/13
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/13
Thermometer	Elitech	RC-4	EF5238001628	2023/10/09	2024/10/08
Thermometer	Elitech	RC-4HC	EF7239002652	2023/11/17	2024/11/16
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	SAM	SN: 1859	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 a DAK3.5 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 (%)
2024.09.13	Head	750	21.6	0.88	40.91	0.89	41.94	-1.12	-2.46
2024.09.14	Head	750	21.6	0.92	41.04	0.89	41.94	3.37	-2.15
2024.09.15	Head	835	21.3	0.89	42.17	0.90	41.50	-1.11	1.61
2024.09.16	Head	835	21.2	0.91	41.52	0.90	41.50	1.11	0.05
2024.09.17	Head	835	21.1	0.93	40.22	0.90	41.50	3.33	-3.08
2024.09.18	Head	1750	21.7	1.35	39.32	1.37	40.08	-1.46	-1.90
2024.09.19	Head	1750	21.3	1.40	39.44	1.37	40.08	2.19	-1.60
2024.09.20	Head	1750	21.5	1.38	39.04	1.37	40.08	0.73	-2.59
2024.09.21	Head	1950	21.3	1.45	38.92	1.40	40.00	3.57	-2.70
2024.09.22	Head	1950	21.5	1.41	39.54	1.40	40.00	0.71	-1.15
2024.09.23	Head	1950	21.2	1.45	39.32	1.40	40.00	3.57	-1.70
2024.09.24	Head	2450	21.2	1.78	38.49	1.80	39.20	-1.11	-1.81
2024.09.25	Head	2450	21.7	1.82	39.57	1.80	39.20	1.11	0.94
2024.09.26	Head	2600	21.7	1.98	39.63	1.96	39.01	1.02	1.59
2024.09.27	Head	2600	21.5	1.97	38.49	1.96	39.01	0.51	-1.33
2024.09.28	Head	5250	21.3	4.65	36.55	4.71	35.93	-1.27	1.73
2024.09.29	Head	5600	21.0	5.19	35.78	5.07	35.53	2.37	0.70
2024.09.30	Head	5750	21.2	5.10	35.65	5.22	35.36	-2.30	0.82

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 (%)
2024.09.13	Head	750	100	0.85	8.52	8.46	0.71
2024.09.14	Head	750	100	0.86	8.59	8.46	1.54
2024.09.15	Head	835	100	0.96	9.58	9.74	-1.64
2024.09.16	Head	835	100	0.98	9.75	9.74	0.10
2024.09.17	Head	835	100	0.96	9.61	9.74	-1.33
2024.09.18	Head	1750	100	3.63	36.30	37.00	-1.89
2024.09.19	Head	1750	100	3.76	37.60	37.00	1.62
2024.09.20	Head	1750	100	3.73	37.30	37.00	0.81
2024.09.21	Head	1950	100	4.13	41.30	41.70	-0.96
2024.09.22	Head	1950	100	4.11	41.10	41.70	-1.44
2024.09.23	Head	1950	100	4.21	42.10	41.70	0.96
2024.09.24	Head	2450	100	5.32	53.20	52.60	1.14
2024.09.25	Head	2450	100	5.28	52.80	52.60	0.38
2024.09.26	Head	2600	100	5.47	54.70	55.90	-2.15
2024.09.27	Head	2600	100	5.45	54.50	55.90	-2.50
2024.09.28	Head	5250	100	7.86	78.60	77.70	1.16
2024.09.29	Head	5600	100	8.23	82.30	81.30	1.23
2024.09.30	Head	5750	100	7.77	77.70	77.60	0.13

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

Head liquid 10g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2024.09.18	Head	1750	100	1.91	19.10	19.70	-3.05
2024.09.19	Head	1750	100	1.94	19.40	19.70	-1.52
2024.09.20	Head	1750	100	1.95	19.50	19.70	-1.02
2024.09.21	Head	1950	100	2.08	20.80	21.70	-4.15
2024.09.22	Head	1950	100	2.03	20.30	21.70	-6.45
2024.09.23	Head	1950	100	2.17	21.70	21.70	0.00
2024.09.24	Head	2450	100	2.52	25.20	24.70	2.02
2024.09.25	Head	2450	100	2.45	24.50	24.70	-0.81
2024.09.26	Head	2600	100	2.59	25.90	25.40	1.97
2024.09.27	Head	2600	100	2.52	25.20	25.40	-0.79
2024.09.28	Head	5250	100	2.21	22.10	22.00	0.45
2024.09.29	Head	5600	100	2.39	23.90	23.10	3.46
2024.09.30	Head	5750	100	2.16	21.60	21.90	-1.37

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

System Performance Check Data (750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD750V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD750	CW, 0--	750.0, 100	10.29	0.884	40.9	22.4	21.6

Hardware Setup

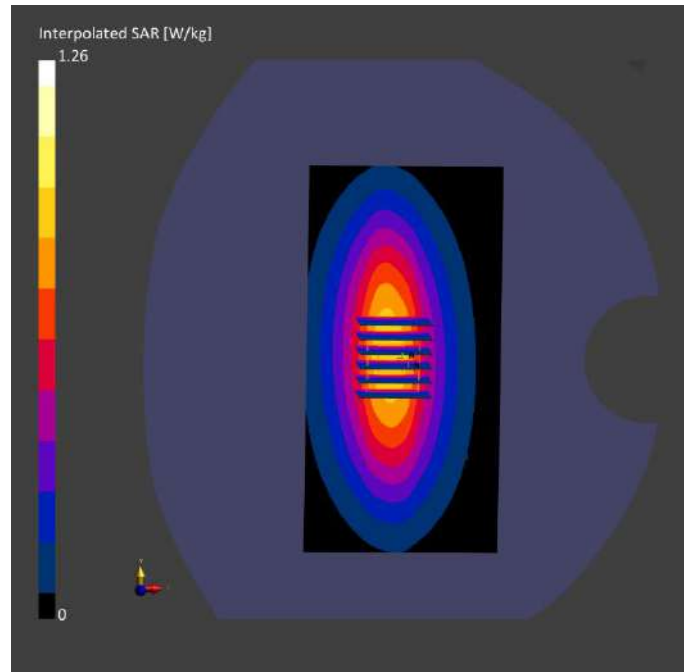
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.843	0.852
psSAR10g [W/kg]	0.515	0.552
Power Drift [dB]	0.04	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.6
Dist 3dB Peak [mm]		20.2



System Performance Check Data (750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD750V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD750	CW, 0--	750.0, 100	10.29	0.916	41.0	22.5	21.6

Hardware Setup

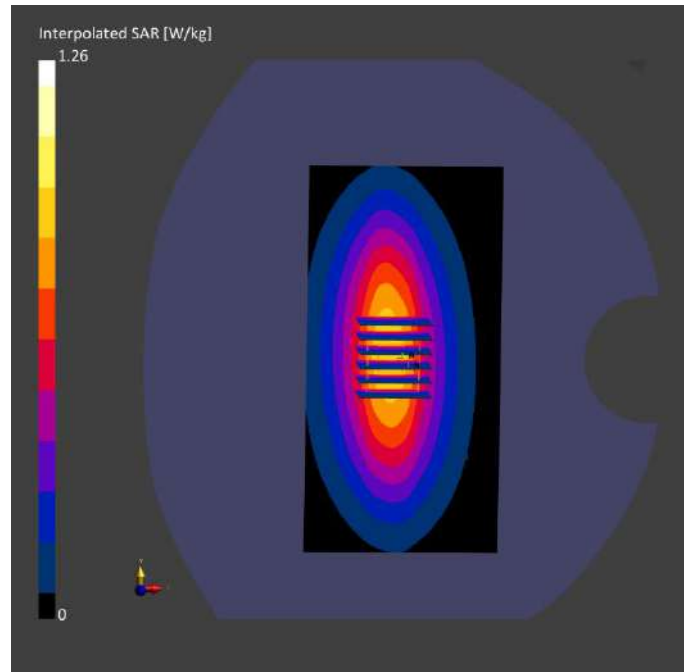
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-14	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-14	2024-09-14
psSAR1g [W/kg]	0.847	0.859
psSAR10g [W/kg]	0.519	0.561
Power Drift [dB]	0.04	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.6
Dist 3dB Peak [mm]		20.1



System Performance Check Data (835MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD835V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.894	42.2	22.5	21.3

Hardware Setup

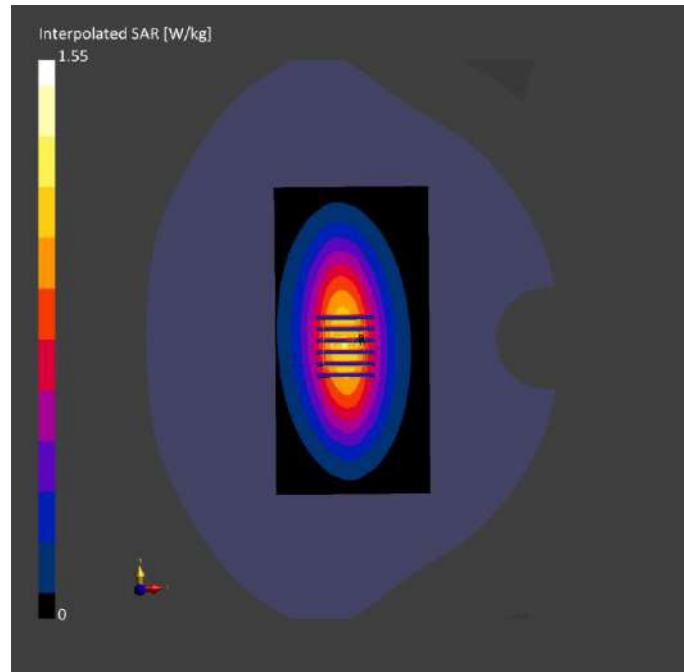
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.936	0.958
psSAR10g [W/kg]	0.628	0.623
Power Drift [dB]	0.05	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.7
Dist 3dB Peak [mm]		12.2



System Performance Check Data (835MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD835V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.905	41.5	22.4	21.2

Hardware Setup

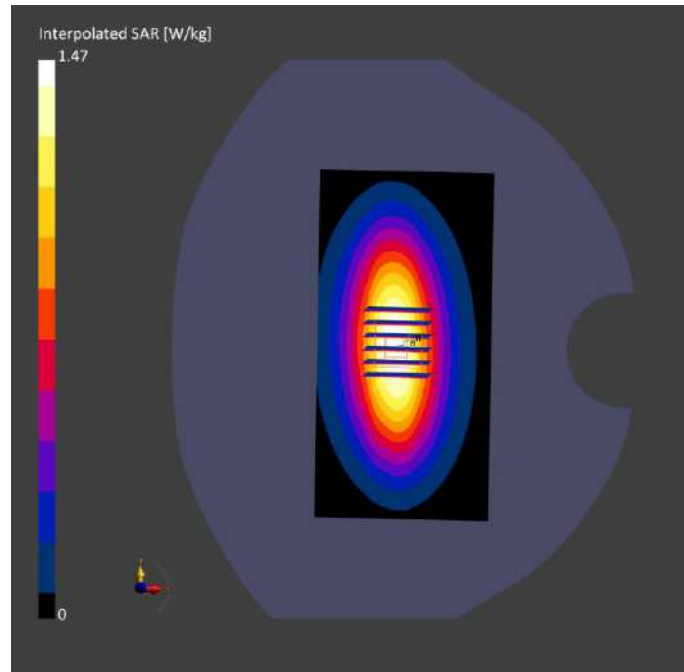
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-16	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-16	2024-09-16
psSAR1g [W/kg]	0.959	0.975
psSAR10g [W/kg]	0.638	0.631
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.7
Dist 3dB Peak [mm]		13.1



System Performance Check Data (835MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD835V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD835	CW, 0--	835.0, 50	9.99	0.928	40.2	22.6	21.1

Hardware Setup

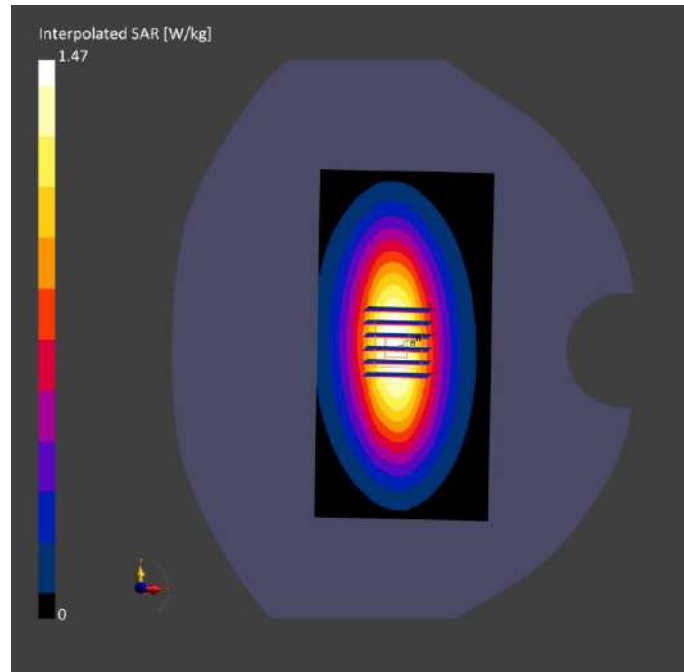
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.963	0.961
psSAR10g [W/kg]	0.622	0.628
Power Drift [dB]	-0.03	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.1
Dist 3dB Peak [mm]		13.2



System Performance Check Data (1750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1750V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1750	CW, 0--	1750.0, 50	8.67	1.35	39.3	22.6	21.7

Hardware Setup

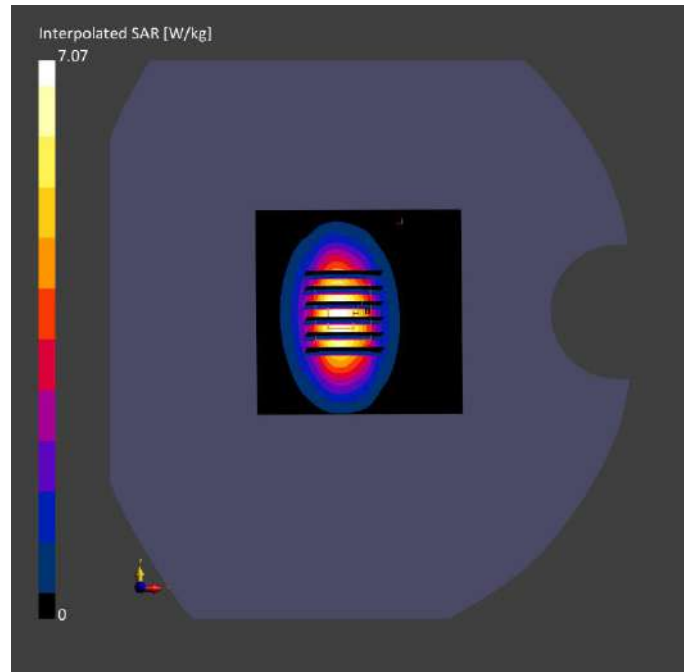
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-18	2024-09-18
psSAR1g [W/kg]	3.39	3.63
psSAR10g [W/kg]	1.85	1.91
Power Drift [dB]	0.03	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.2
Dist 3dB Peak [mm]		9.5



System Performance Check Data (1750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1750V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1750	CW, 0--	1750.0, 50	8.67	1.40	39.4	22.3	21.3

Hardware Setup

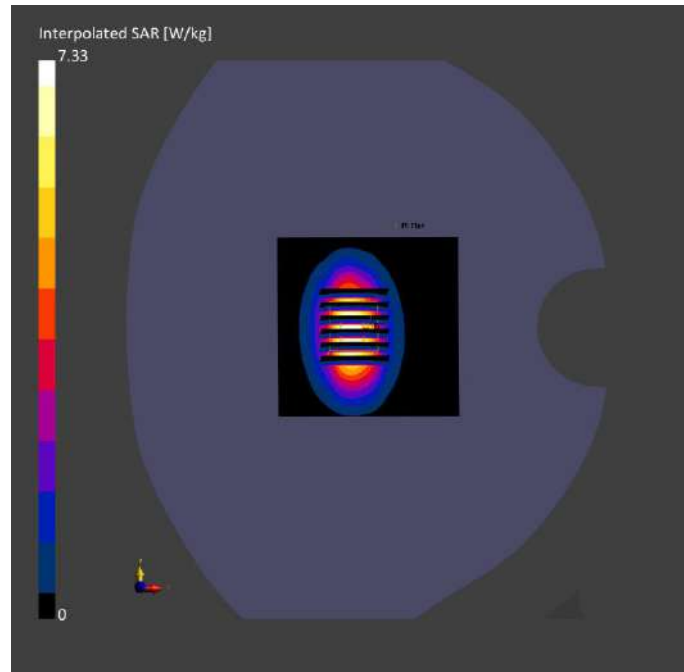
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-19	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	3.57	3.76
psSAR10g [W/kg]	1.79	1.94
Power Drift [dB]	-0.03	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.7
Dist 3dB Peak [mm]		9.2



System Performance Check Data (1750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1750V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1750	CW, 0--	1750.0, 50	8.67	1.38	39.0	22.4	21.5

Hardware Setup

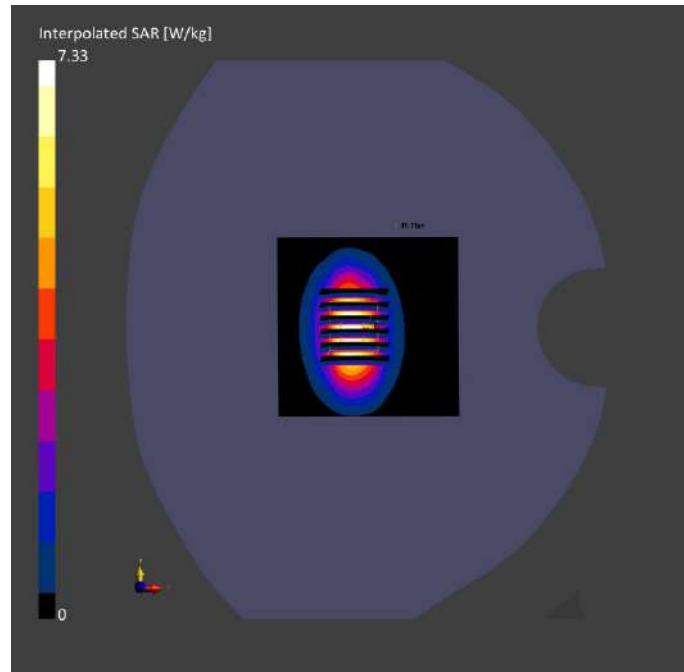
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-20	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	3.63	3.73
psSAR10g [W/kg]	1.81	1.95
Power Drift [dB]	-0.05	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.6
Dist 3dB Peak [mm]		9.1



System Performance Check Data (1950MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1950V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1950	CW, 0--	1950.0, 50	8.33	1.45	38.9	22.6	21.3

Hardware Setup

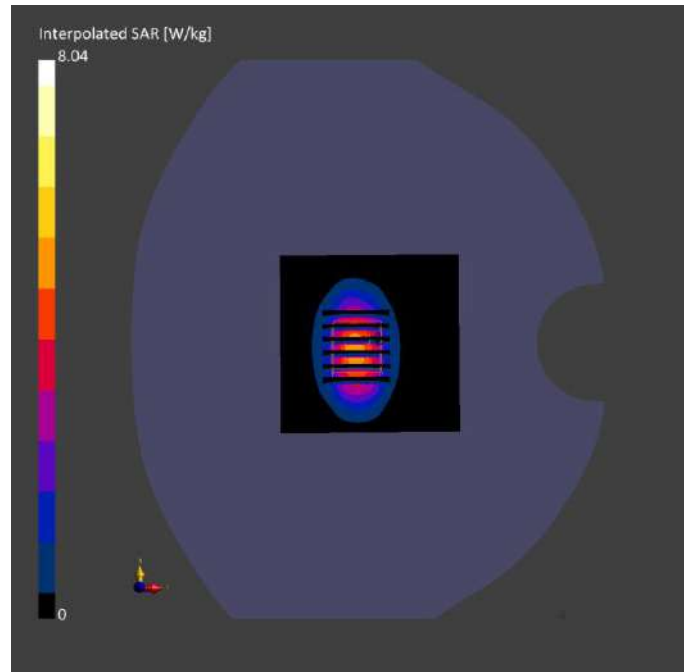
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	3.88	4.13
psSAR10g [W/kg]	1.92	2.08
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.7
Dist 3dB Peak [mm]		9.4



System Performance Check Data (1950MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1950V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1950	CW, 0--	1950.0, 50	8.33	1.41	39.5	22.2	21.5

Hardware Setup

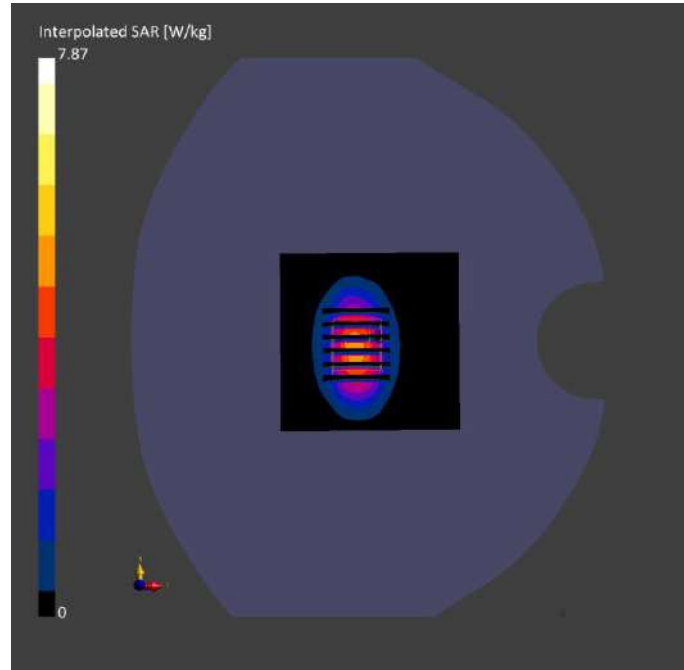
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-22	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-22	2024-09-22
psSAR1g [W/kg]	4.23	4.11
psSAR10g [W/kg]	2.11	2.03
Power Drift [dB]	0.05	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.6
Dist 3dB Peak [mm]		9.7



System Performance Check Data (1950MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1950V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D1950	CW, 0--	1950.0, 50	8.33	1.45	39.3	22.1	21.2

Hardware Setup

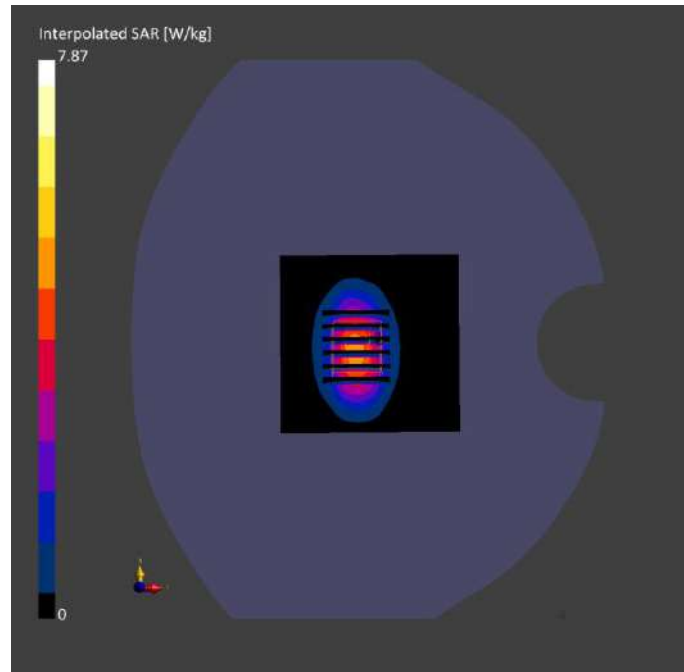
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	4.31	4.21
psSAR10g [W/kg]	2.21	2.17
Power Drift [dB]	0.05	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.5
Dist 3dB Peak [mm]		9.3



System Performance Check Data (2450MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D2450V2, SPEAG	40.0 x 8.0 x 8.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D2450	CW, 0--	2450.0, 50	7.75	1.78	38.5	22.5	21.2

Hardware Setup

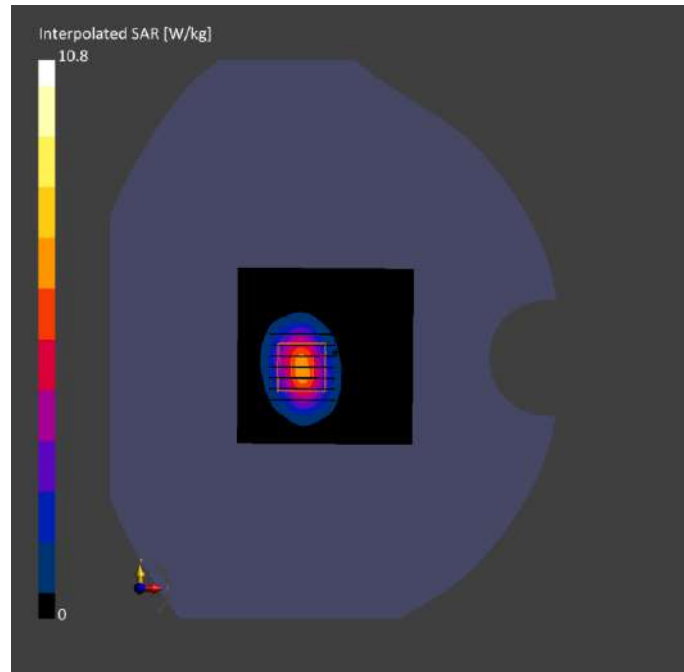
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-24	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-24	2024-09-24
psSAR1g [W/kg]	5.25	5.32
psSAR10g [W/kg]	2.31	2.52
Power Drift [dB]	0.04	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.4
Dist 3dB Peak [mm]		9.4



System Performance Check Data (2450MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D2450V2, SPEAG	40.0 x 8.0 x 8.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D2450	CW, 0--	2450.0, 50	7.75	1.82	39.6	22.3	21.7

Hardware Setup

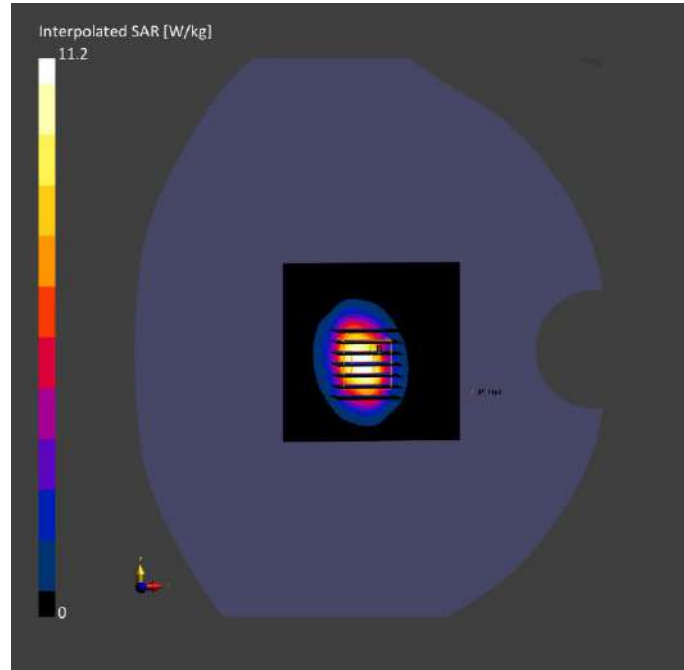
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-25	2024-09-25
psSAR1g [W/kg]	5.15	5.28
psSAR10g [W/kg]	2.33	2.45
Power Drift [dB]	-0.03	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.6
Dist 3dB Peak [mm]		9.2



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600	CW, 0--	2600.0, 50	7.59	1.98	39.6	22.6	21.7

Hardware Setup

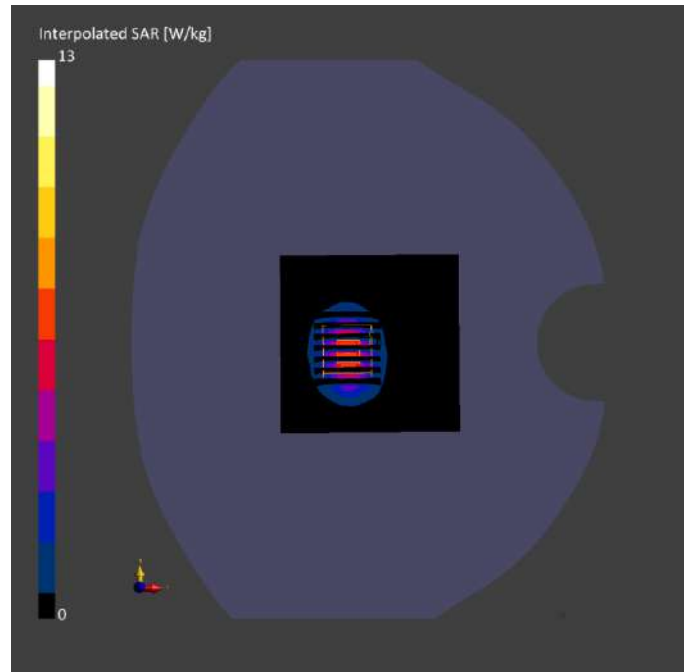
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-26	2024-09-26
psSAR1g [W/kg]	5.39	5.47
psSAR10g [W/kg]	2.48	2.59
Power Drift [dB]	0.04	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.5
Dist 3dB Peak [mm]		8.9



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600	CW, 0--	2600.0, 50	7.59	1.97	38.5	22.6	21.5

Hardware Setup

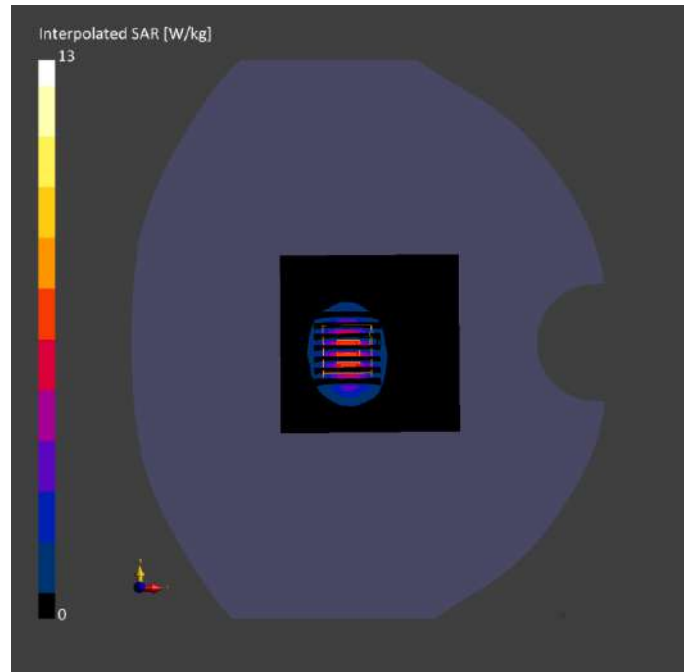
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-27	2024-09-27
psSAR1g [W/kg]	5.38	5.45
psSAR10g [W/kg]	2.41	2.52
Power Drift [dB]	0.02	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.4
Dist 3dB Peak [mm]		8.8



System Performance Check Data (5250MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D5GHz	CW, 0--	5250.0, 30	5.74	4.65	36.6	22.2	21.3

Hardware Setup

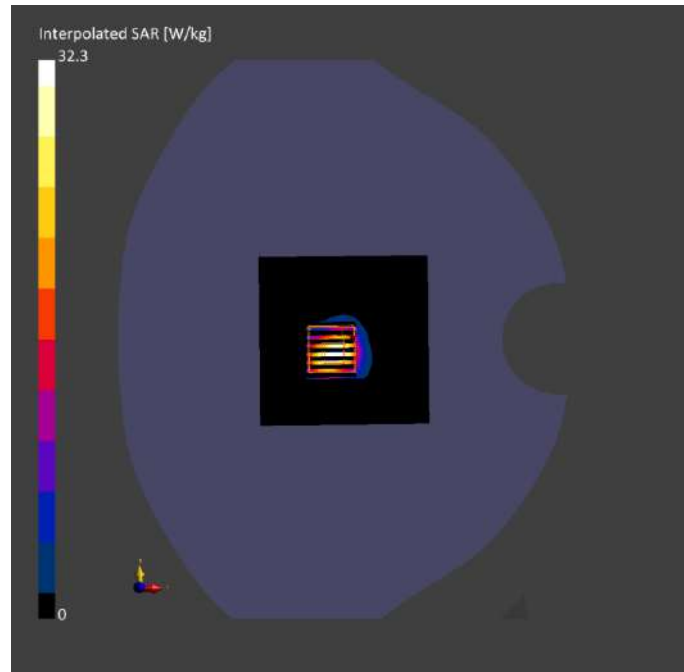
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-28	2024-09-28
psSAR1g [W/kg]	7.65	7.86
psSAR10g [W/kg]	2.14	2.21
Power Drift [dB]	-0.01	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		69.5
Dist 3dB Peak [mm]		7.5



System Performance Check Data (5600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D5GHz	CW, 0--	5600.0, 60	5.00	5.19	35.8	22.5	21.0

Hardware Setup

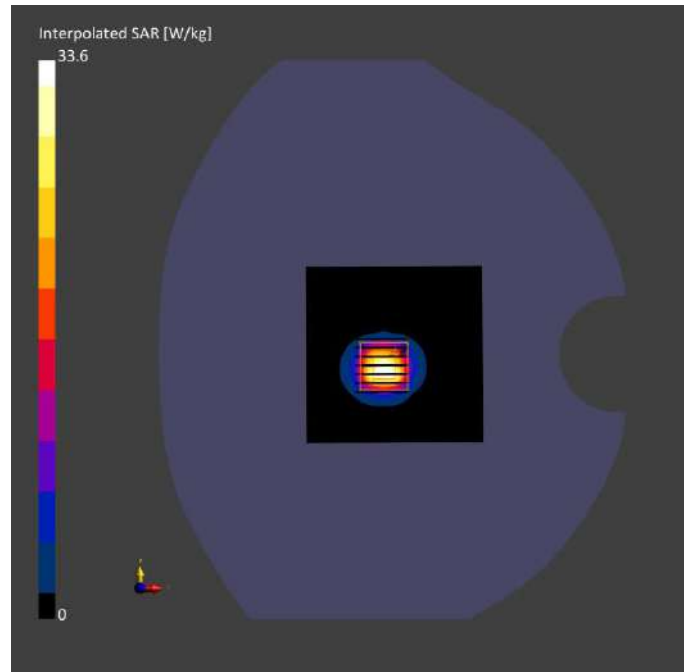
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-29	2024-09-29
psSAR1g [W/kg]	7.95	8.23
psSAR10g [W/kg]	2.15	2.39
Power Drift [dB]	0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.3
Dist 3dB Peak [mm]		7.7



System Performance Check Data (5750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D5GHz	CW, 0--	5750.0, 80	5.04	5.10	35.7	22.4	21.2

Hardware Setup

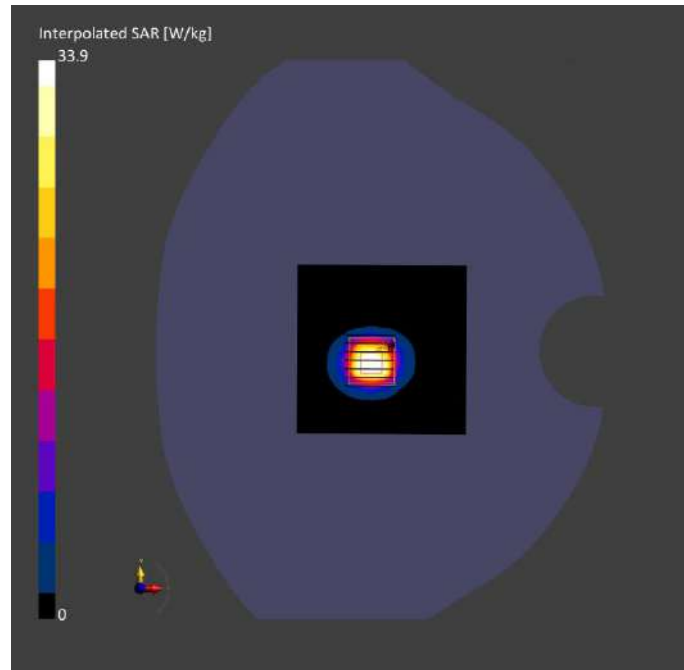
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-30	2024-09-30
psSAR1g [W/kg]	7.63	7.77
psSAR10g [W/kg]	2.08	2.16
Power Drift [dB]	-0.08	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.2
Dist 3dB Peak [mm]		7.7



ANNEX C TEST DATA

Meas.1 Right Head with Cheek on Middle Channel in GPRS850 2slots mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	GSM 850	GSM, 10024-DAC	836.6, 190	9.99	0.912	41.4	22.5	21.3

Hardware Setup

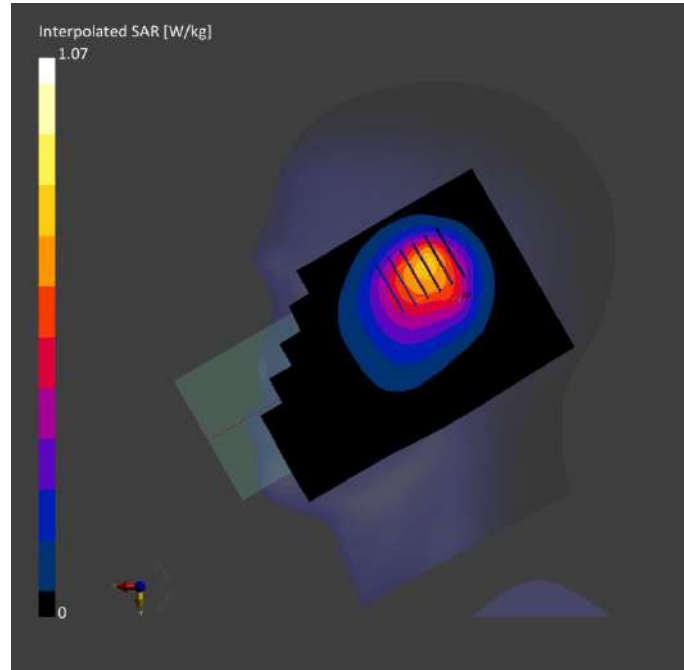
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.662	0.640
psSAR10g [W/kg]	0.439	0.419
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.6
Dist 3dB Peak [mm]		11.5



Meas.2 Body Plane with Back Side 15mm on Middle Channel in GPRS850 2slots mode with Antenna 4 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	GSM, 850	GSM, 10024-DAC	836.6, 190	9.99	0.912	41.4	22.5	21.3

Hardware Setup

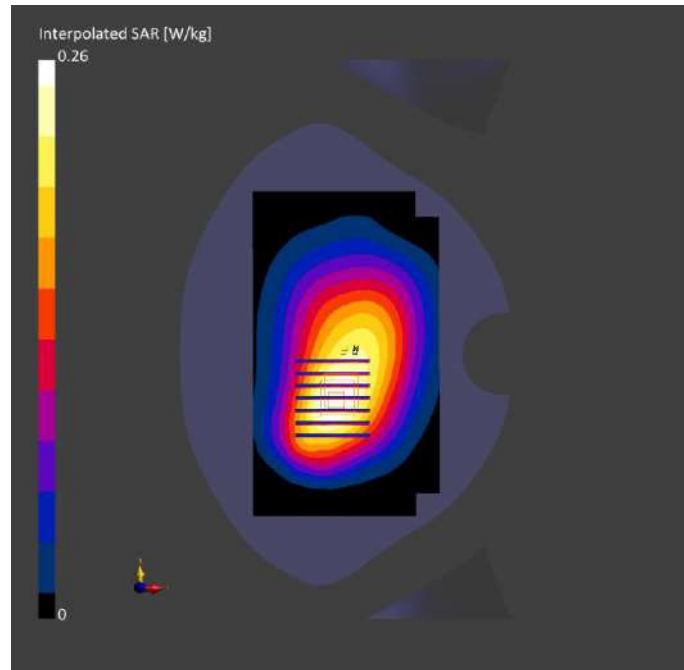
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.183	0.194
psSAR10g [W/kg]	0.127	0.141
Power Drift [dB]	0.14	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		72.5
Dist 3dB Peak [mm]		24.2



Meas.3 Body Plane with Back Side 10mm on Middle Channel in GPRS850 2slots mode with Antenna 4 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	GSM, 850	GSM, 10024-DAC	836.6, 190	9.99	0.912	41.4	22.5	21.3

Hardware Setup

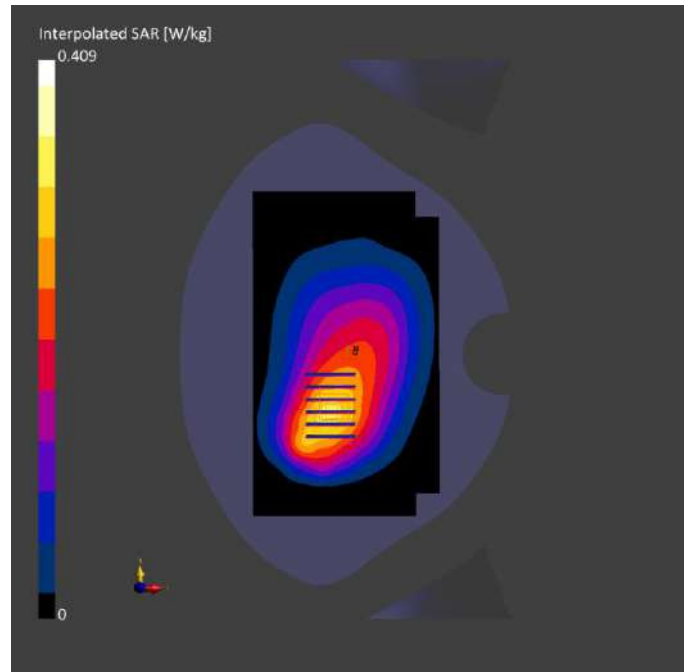
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.283	0.295
psSAR10g [W/kg]	0.196	0.207
Power Drift [dB]	0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		71.2
Dist 3dB Peak [mm]		28.8



Meas.4 Right Head with Tilt on High Channel in GPRS1900 2slots mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	PCS 1900	GSM, 10024-DAC	1909.8, 810	8.33	1.39	40.2	22.2	21.5

Hardware Setup

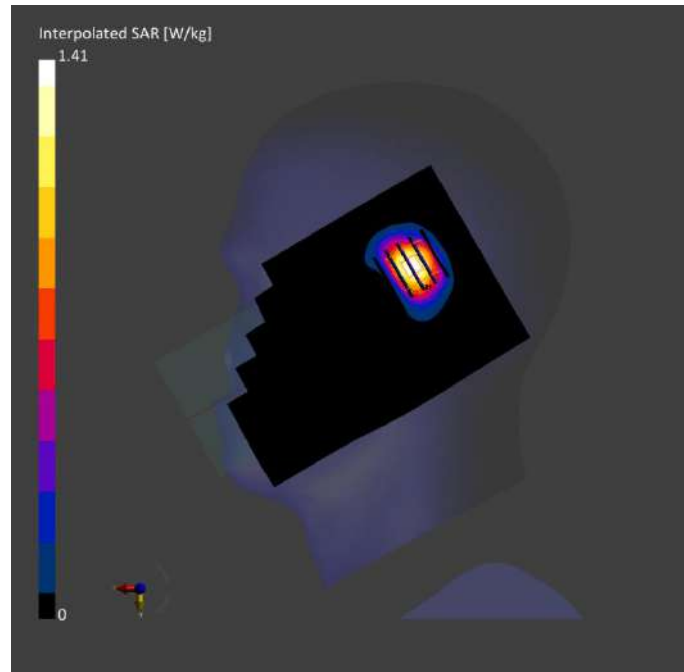
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-22	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-22	2024-09-22
psSAR1g [W/kg]	0.516	0.705
psSAR10g [W/kg]	0.271	0.320
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.5
Dist 3dB Peak [mm]		6.4



Meas.5 Body Plane with Back Side 15mm on High Channel in GPRS1900 2slots mode with Antenna 4 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	PCS 1900	GSM, 10024-DAC	1909.8, 810	8.33	1.39	40.2	22.2	21.5

Hardware Setup

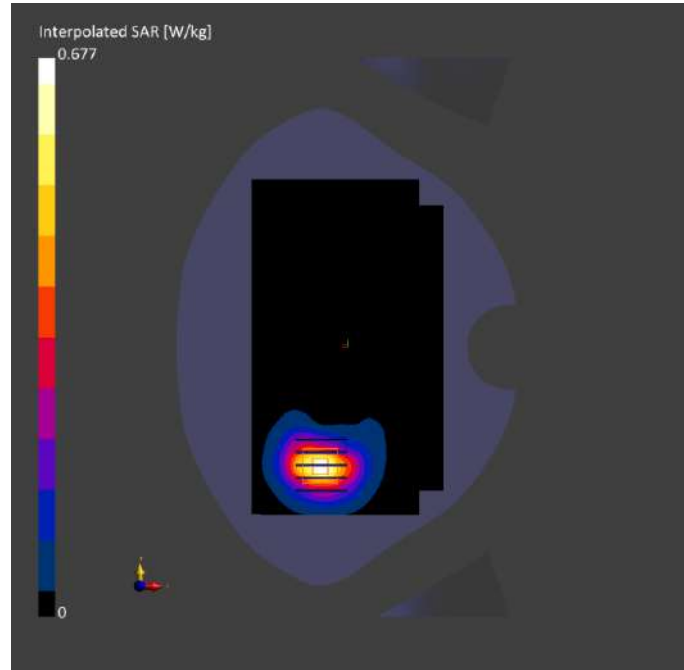
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-22	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-22	2024-09-22
psSAR1g [W/kg]	0.397	0.415
psSAR10g [W/kg]	0.212	0.231
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.0
Dist 3dB Peak [mm]		12.2



Meas.6 Body Plane with Top Edge 10mm on High Channel in GPRS1900 2slots mode with Antenna 4 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	PCS, 1900	GSM, 10026-DAC	1909.8, 810	8.33	1.39	40.2	22.2	21.5

Hardware Setup

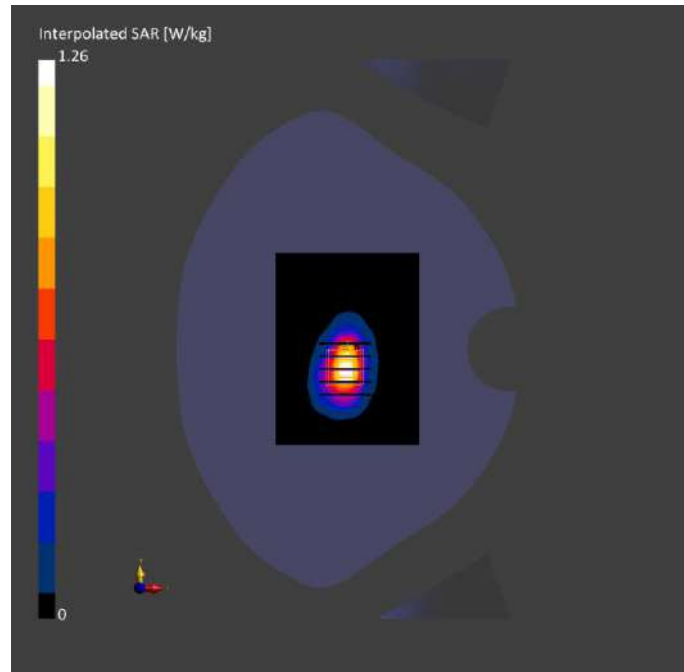
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-22	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-22	2024-09-22
psSAR1g [W/kg]	0.615	0.678
psSAR10g [W/kg]	0.302	0.338
Power Drift [dB]	0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		8.6



Meas.7 Body Plane with Top Edge 0mm on High Channel in GPRS1900 2slots mode with Antenna 4 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	PCS, 1900	GSM, 10026-DAC	1909.8, 810	8.33	1.39	40.2	22.2	21.5

Hardware Setup

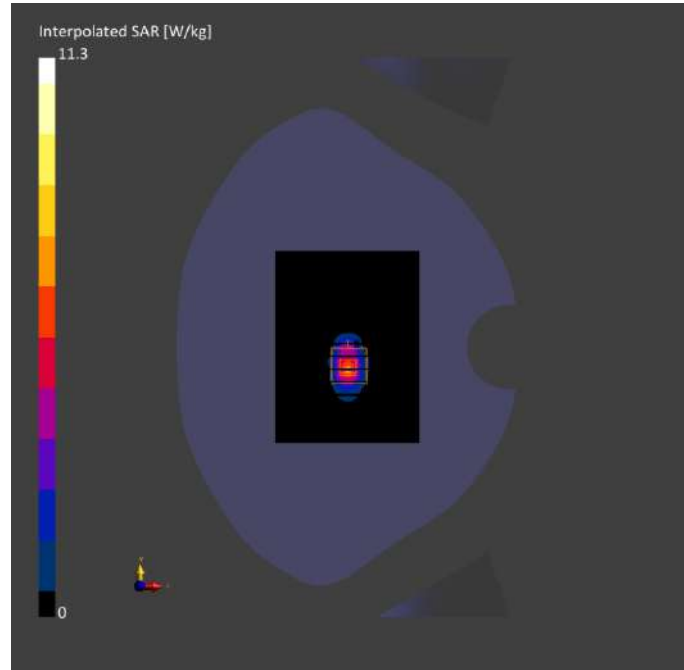
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-22	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-22	2024-09-22
psSAR1g [W/kg]	5.04	4.86
psSAR10g [W/kg]	2.15	1.90
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		39.7
Dist 3dB Peak [mm]		4.8



Meas.8 Right Head with Tilt on High Channel in WCDMA Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.42	39.2	22.6	21.3

Hardware Setup

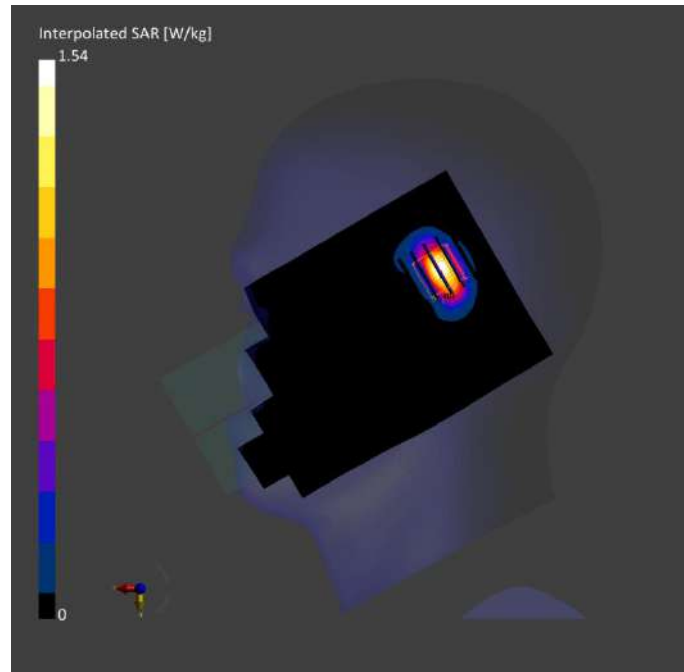
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	All points	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.789	0.814
psSAR10g [W/kg]	0.355	0.377
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		7.2



Meas.9 Body Plane with Back Side 15mm on High Channel in WCDMA Band2 mode with Antenna 4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 2	WCDMA, 10011-CAC	1907.6, 9538	8.33	1.42	39.2	22.6	21.3

Hardware Setup

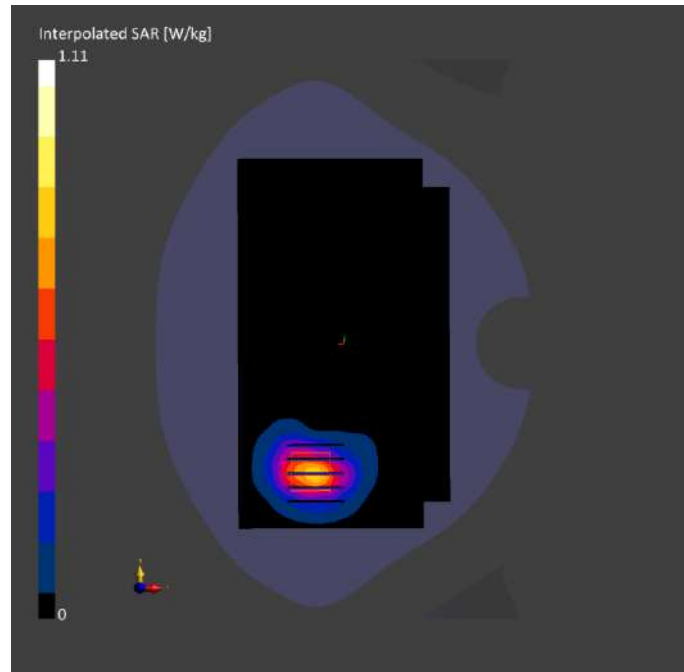
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.648	0.684
psSAR10g [W/kg]	0.349	0.381
Power Drift [dB]	-0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.7
Dist 3dB Peak [mm]		12.8



Meas.10 Body Plane with Top Edge 10mm on High Channel in WCDMA Band2 mode with Antenna 4 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.42	39.2	22.6	21.3

Hardware Setup

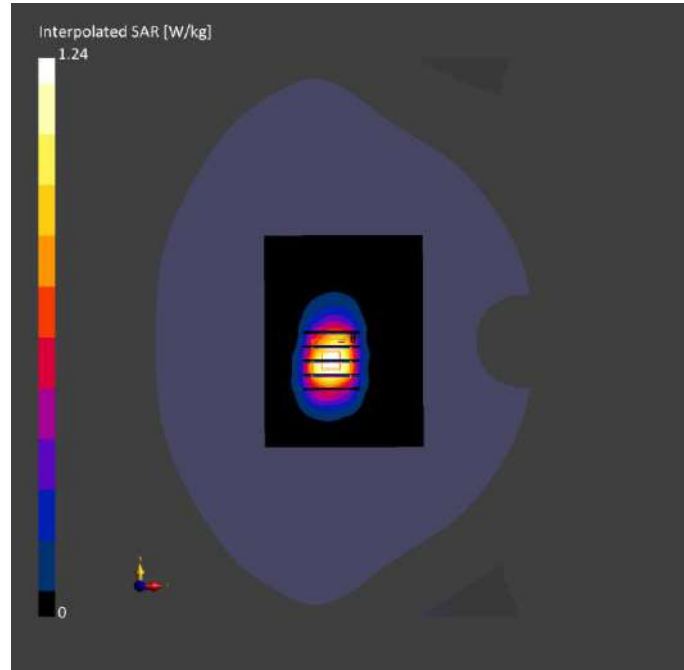
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.528	0.684
psSAR10g [W/kg]	0.287	0.343
Power Drift [dB]	0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		9.6



**Meas.11 Body Plane with Top Edge 0mm on High Channel in WCDMA Band2 mode with Antenna 4
Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	Band 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.42	39.2	22.6	21.3

Hardware Setup

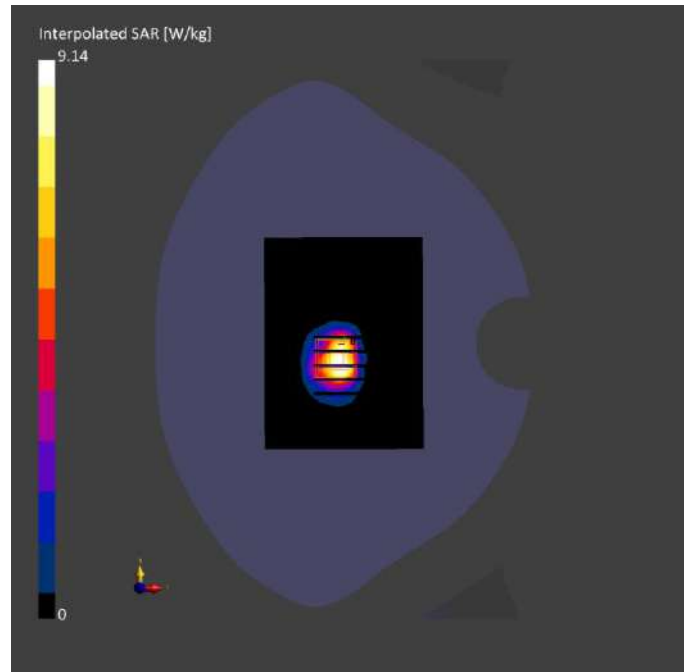
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	3.05	4.61
psSAR10g [W/kg]	1.49	1.98
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.5
Dist 3dB Peak [mm]		8.0



Meas.12 Right Head with Tilt on Low Channel in WCDMA Band4 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 4	WCDMA, 10457-AAB	1712.4, 1312	8.67	1.32	40.4	22.6	21.7

Hardware Setup

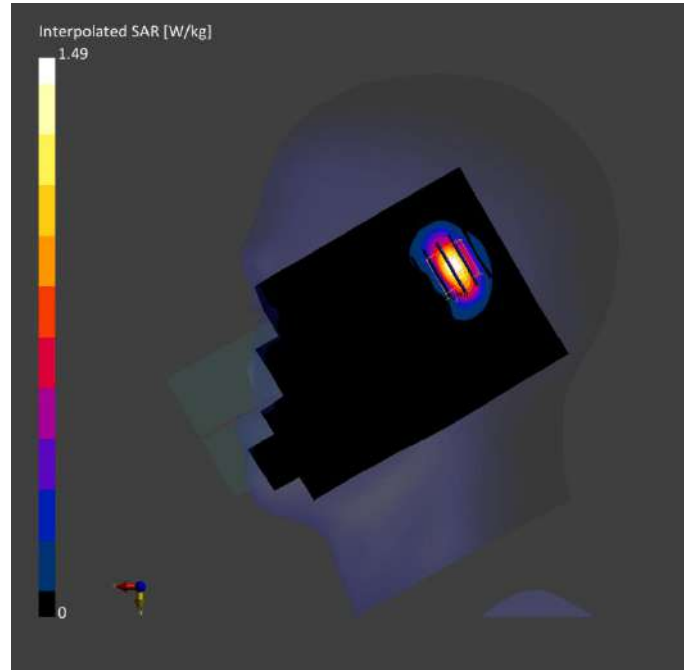
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	All points	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-18	2024-09-18
psSAR1g [W/kg]	0.789	0.781
psSAR10g [W/kg]	0.362	0.368
Power Drift [dB]	0.05	0.15
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		6.4



Meas.13 Body Plane with Back Side 15mm on High Channel in WCDMA Band4 mode with Antenna 4 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 4	WCDMA, 10011-CAC	1752.6, 1513	8.67	1.39	38.8	22.6	21.7

Hardware Setup

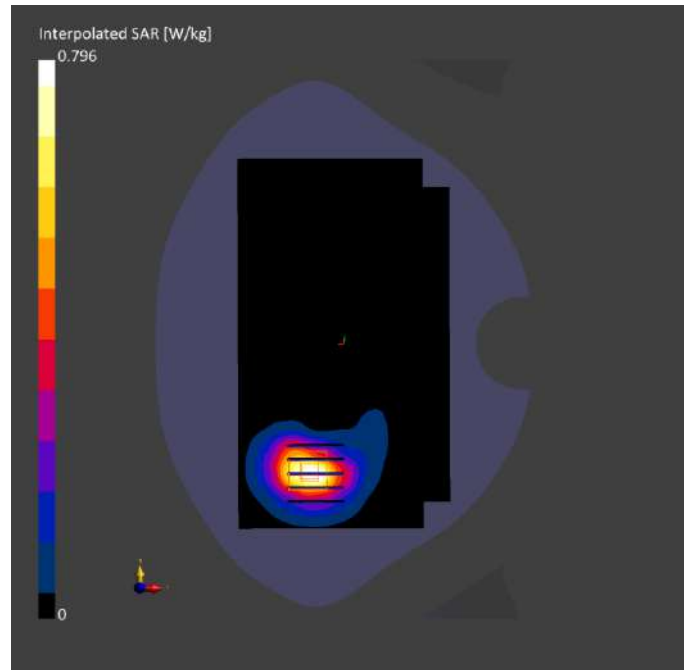
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-18	2024-09-18
psSAR1g [W/kg]	0.463	0.500
psSAR10g [W/kg]	0.256	0.283
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.8
Dist 3dB Peak [mm]		11.3



Meas.14 Body Plane with Top Edge 10mm on Low Channel in WCDMA Band4 mode with Antenna 4 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 10.00	Band 4	WCDMA, 10457-AAB	1712.4, 1312	8.67	1.32	40.4	22.6	21.7

Hardware Setup

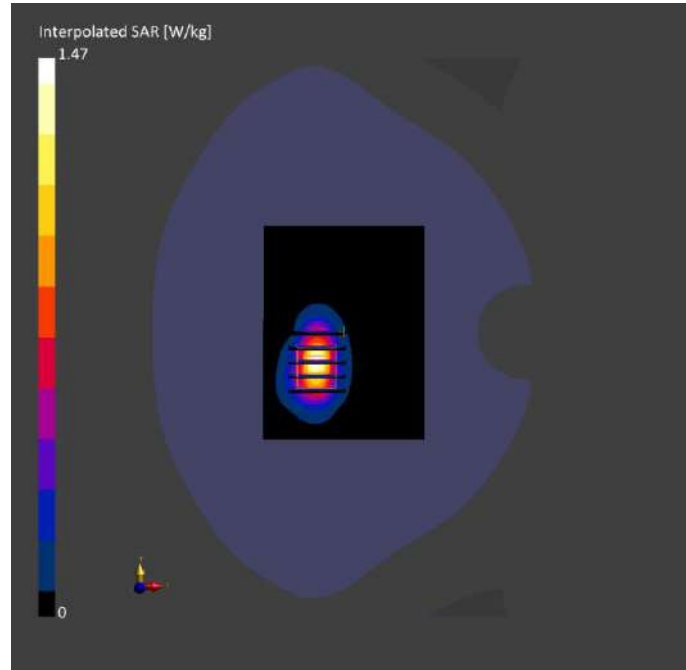
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-18	2024-09-18
psSAR1g [W/kg]	0.800	0.824
psSAR10g [W/kg]	0.390	0.419
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		8.2



**Meas.15 Body Plane with Top Edge 0mm on Low Channel in WCDMA Band4 mode with Antenna 4
Device under Test Properties**

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band 4	WCDMA, 10457-AAB	1712.4, 1312	8.67	1.32	40.4	22.6	21.7

Hardware Setup

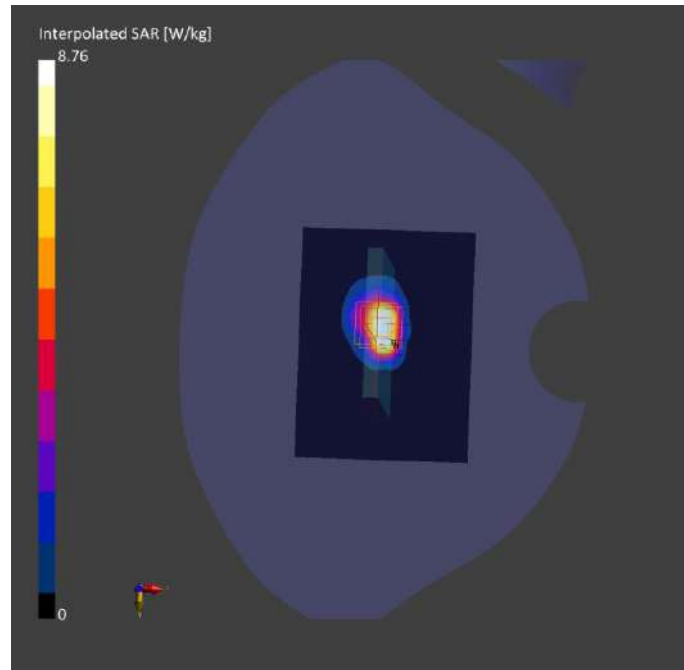
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-18	2024-09-18
psSAR1g [W/kg]	3.14	4.01
psSAR10g [W/kg]	1.51	1.67
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		37.2
Dist 3dB Peak [mm]		5.1



Meas.16 Left Head with Tilt on High Channel in WCDMA Band5 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	CHEEK, 0.00	Band 5	WCDMA, 10011-CAC	846.6, 4233	9.99	0.913	41.1	22.5	21.3

Hardware Setup

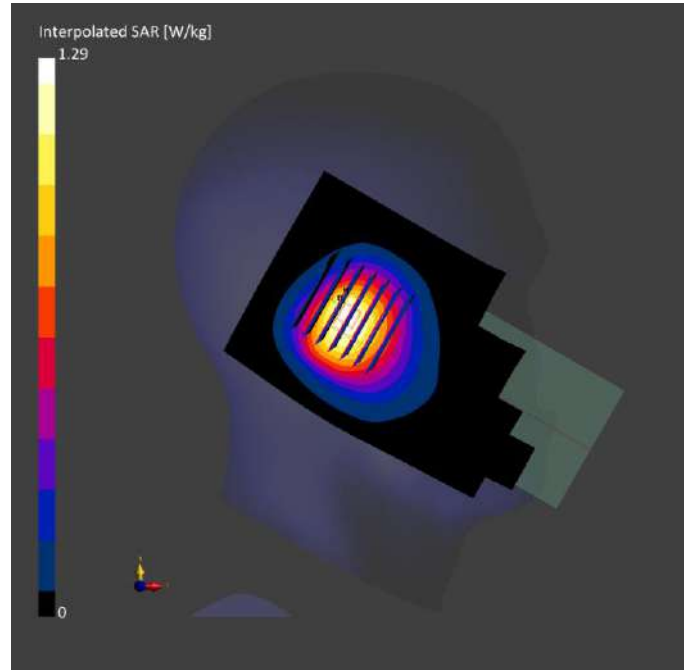
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.780	0.777
psSAR10g [W/kg]	0.522	0.531
Power Drift [dB]	0.18	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.4
Dist 3dB Peak [mm]		11.6



Meas.17 Body Plane with Back Side 15mm on High Channel in WCDMA Band5 mode with Antenna 4 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 5	WCDMA, 10011-CAC	846.6, 4233	9.99	0.913	41.1	22.5	21.3

Hardware Setup

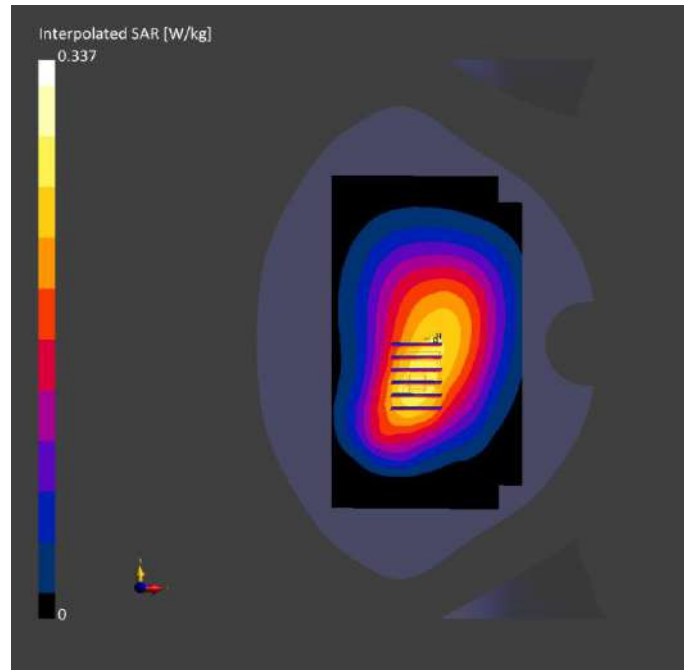
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.245	0.254
psSAR10g [W/kg]	0.170	0.189
Power Drift [dB]	0.13	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		75.9
Dist 3dB Peak [mm]		> 16.0



Meas.18 Body Plane with Back Side 10mm on High Channel in WCDMA Band5 mode with Antenna 4 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 5	WCDMA, 10011-CAC	846.6, 4233	9.99	0.913	41.1	22.5	21.3

Hardware Setup

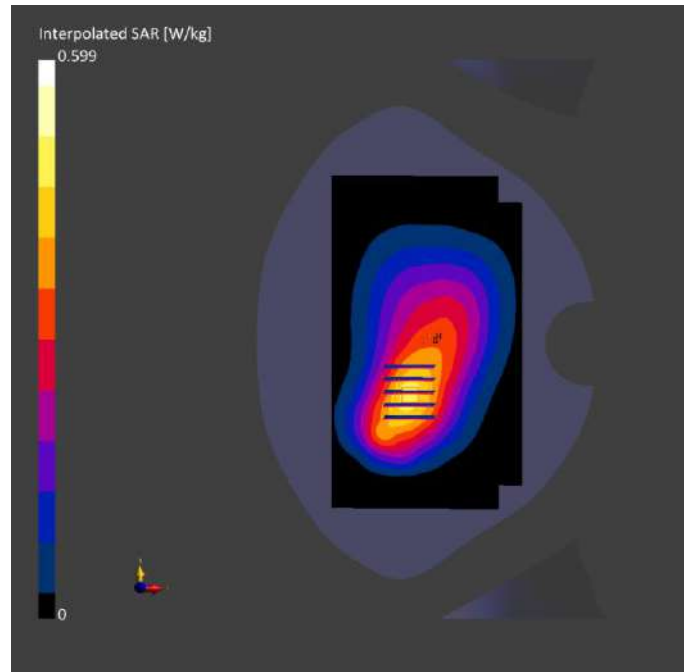
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-15	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-15	2024-09-15
psSAR1g [W/kg]	0.417	0.437
psSAR10g [W/kg]	0.284	0.306
Power Drift [dB]	0.01	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		70.7
Dist 3dB Peak [mm]		25.0



Meas.19 Right Head with Tilt on Middle Channel in LTE Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 2	LTE-FDD, 10297-AAE	1880.0, 18900	8.33	1.42	40.2	22.1	21.2

Hardware Setup

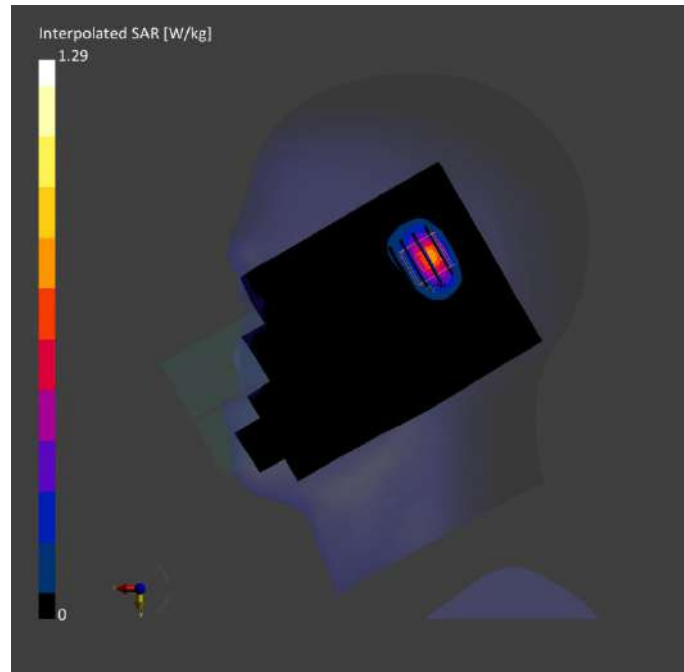
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	All points	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.601	0.704
psSAR10g [W/kg]	0.277	0.329
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		8.0



Meas.20 Body Plane with Back Side 15mm on Middle Channel in LTE Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 2	LTE-FDD, 10169-CAF	1880.0, 18900	8.33	1.42	40.2	22.1	21.2

Hardware Setup

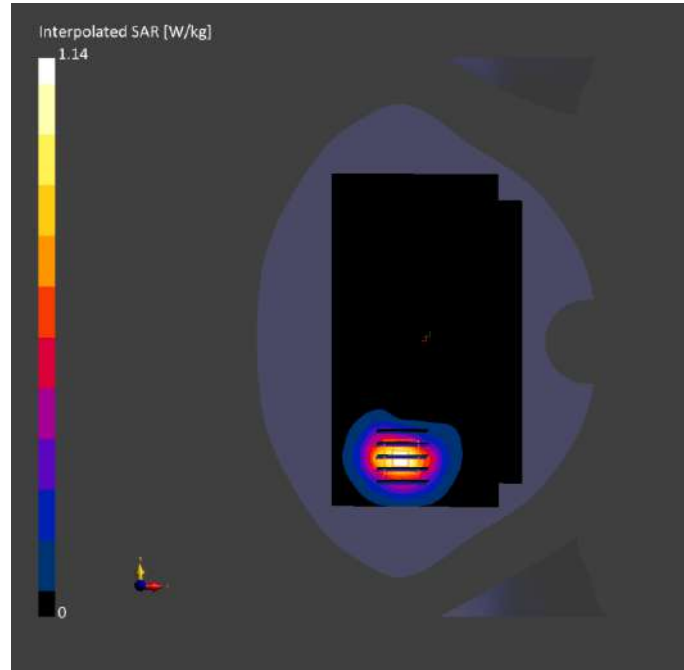
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.669	0.695
psSAR10g [W/kg]	0.356	0.387
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.0
Dist 3dB Peak [mm]		12.2



Meas.21 Body Plane with Top Edge 10mm on Low Channel in LTE Band2 mode with Antenna 4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	Band 2	LTE-FDD, 10297-AAE	1860.0, 18700	8.33	1.35	40.9	22.1	21.2

Hardware Setup

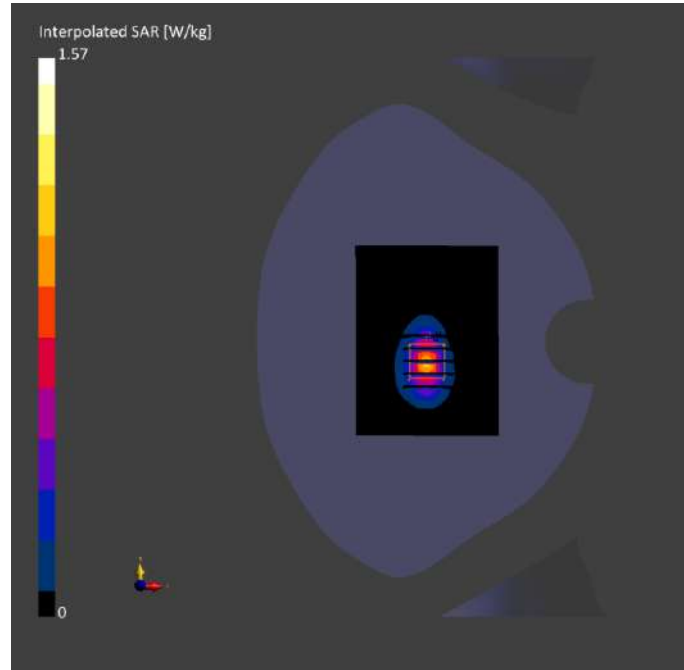
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.818	0.858
psSAR10g [W/kg]	0.392	0.428
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		8.2



Meas.22 Body Plane with Top Edge 0mm on Low Channel in LTE Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	Band 2	LTE-FDD, 10169-CAF	1860.0, 18700	8.33	1.35	40.9	22.1	21.2

Hardware Setup

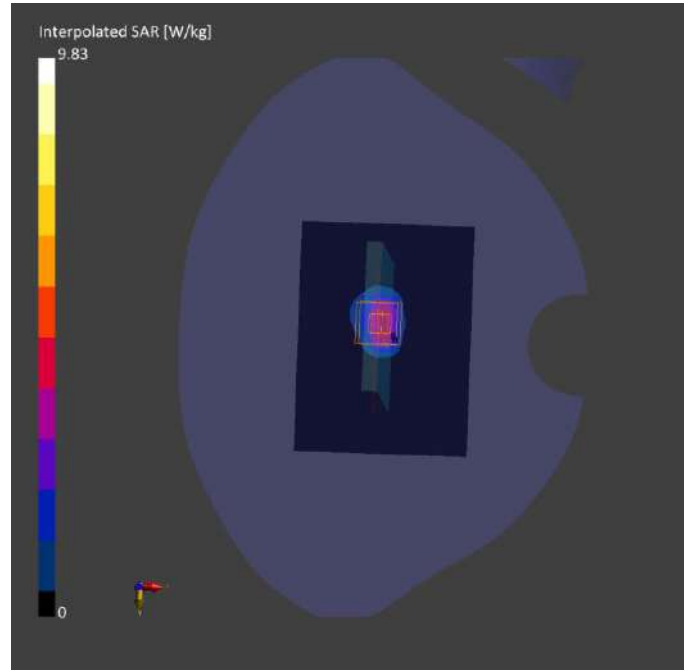
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	3.74	4.49
psSAR10g [W/kg]	1.73	1.80
Power Drift [dB]	-0.01	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		38.1
Dist 3dB Peak [mm]		4.8



Meas.23 Right Head with Tilt on Middle Channel in LTE Band4 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 4	LTE-FDD, 10297-AAE	1732.5, 20175	8.67	1.33	39.9	22.3	21.3

Hardware Setup

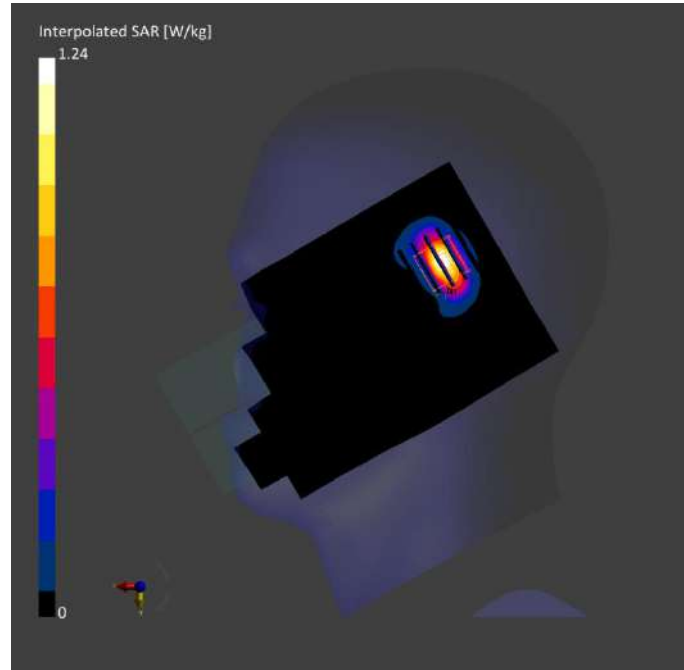
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-19	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	All points	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.642	0.671
psSAR10g [W/kg]	0.293	0.316
Power Drift [dB]	-0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		6.4



Meas.24 Body Plane with Back Side 15mm on Middle Channel in LTE Band4 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 4	LTE-FDD, 10169-CAF	1732.5, 20175	8.67	1.33	39.9	22.3	21.3

Hardware Setup

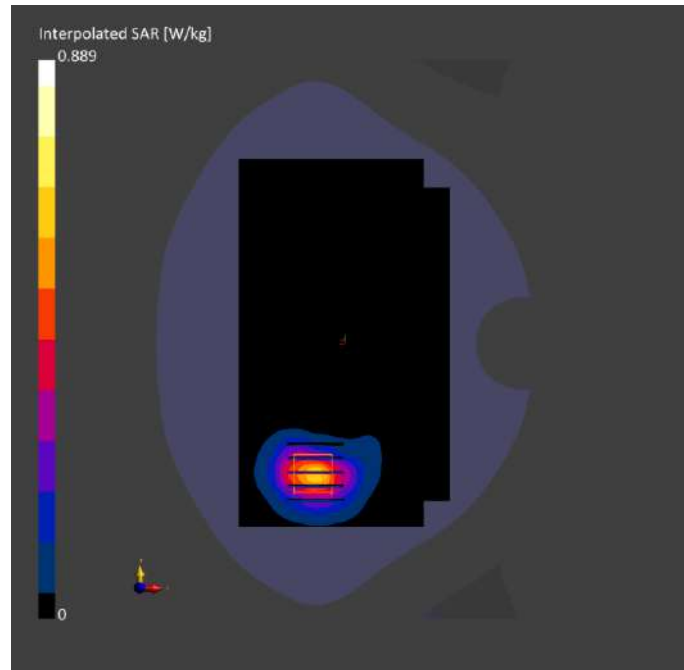
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-19	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.528	0.554
psSAR10g [W/kg]	0.285	0.314
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.2
Dist 3dB Peak [mm]		11.5



Meas.25 Body Plane with Top Edge 10mm on Low Channel in LTE Band4 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	Band 4	LTE-FDD, 10297-AAE	1720.0, 20050	8.67	1.32	41.4	22.3	21.3

Hardware Setup

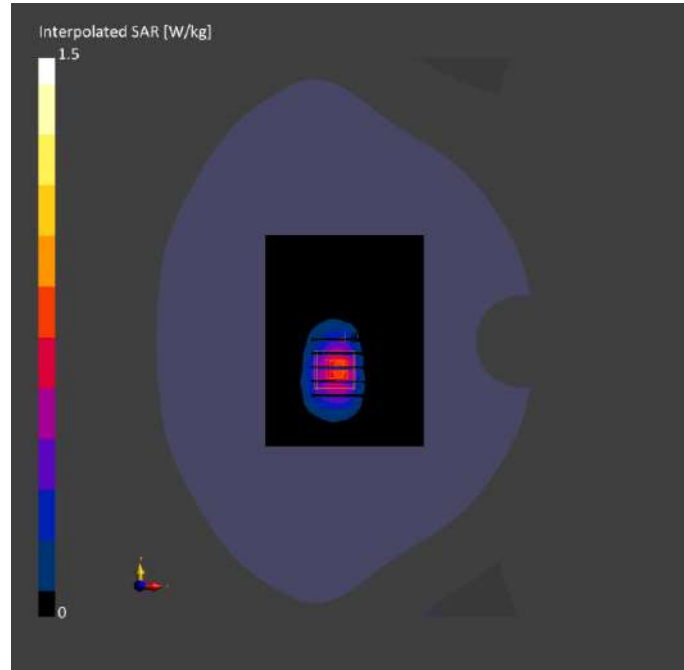
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-19	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	0.668	0.830
psSAR10g [W/kg]	0.355	0.423
Power Drift [dB]	0.11	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		8.0



Meas.26 Body Plane with Top Edge 0mm on Low Channel in LTE Band4 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	Band 4	LTE-FDD, 10169-CAF	1720.0, 20050	8.67	1.32	41.4	22.3	21.3

Hardware Setup

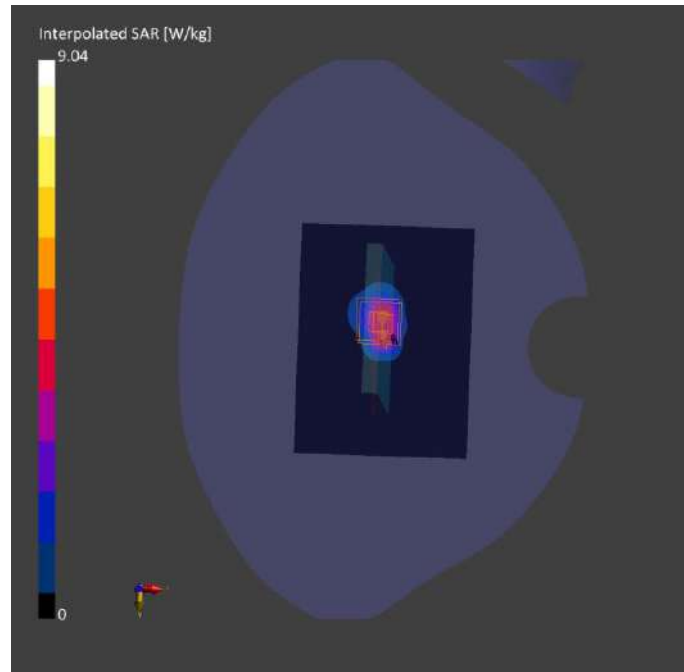
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-19	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-19	2024-09-19
psSAR1g [W/kg]	3.93	4.42
psSAR10g [W/kg]	1.86	1.87
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		42.3
Dist 3dB Peak [mm]		8.0



Meas.27 Left Head with Cheek on High Channel in LTE Band5 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	CHEEK, 0.00	Band 5	LTE-FDD, 10175-CAH	844.0, 20600	9.99	0.913	40.8	22.4	21.2

Hardware Setup

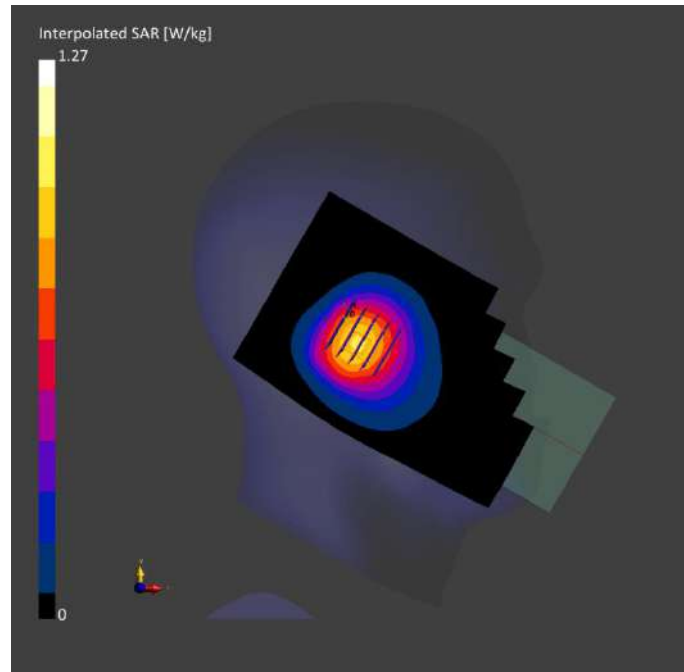
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-16	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-16	2024-09-16
psSAR1g [W/kg]	0.749	0.703
psSAR10g [W/kg]	0.474	0.481
Power Drift [dB]	-0.06	0.00
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		70.0
Dist 3dB Peak [mm]		> 16.0



Meas.28 Body Plane with Back Side 15mm on Middle Channel in LTE Band5 mode with Antenna 1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 5	LTE-FDD, 10175-CAH	836.5, 20525	9.99	0.909	41.4	22.4	21.2

Hardware Setup

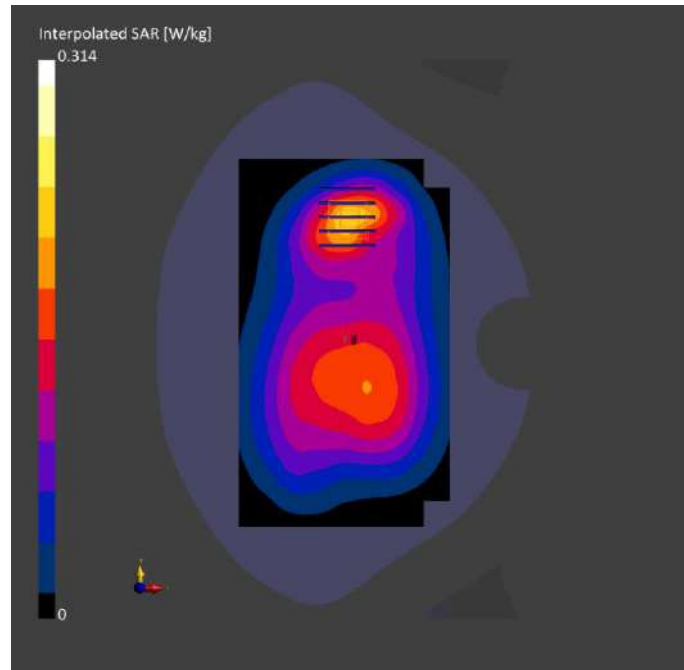
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-16	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-16	2024-09-16
psSAR1g [W/kg]	0.201	0.204
psSAR10g [W/kg]	0.132	0.128
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.0
Dist 3dB Peak [mm]		15.8



Meas.29 Body Plane with Back Side 10mm on Middle Channel in LTE Band5 mode with Antenna 1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 5	LTE-FDD, 10175-CAH	836.5, 20525	9.99	0.909	41.4	22.4	21.2

Hardware Setup

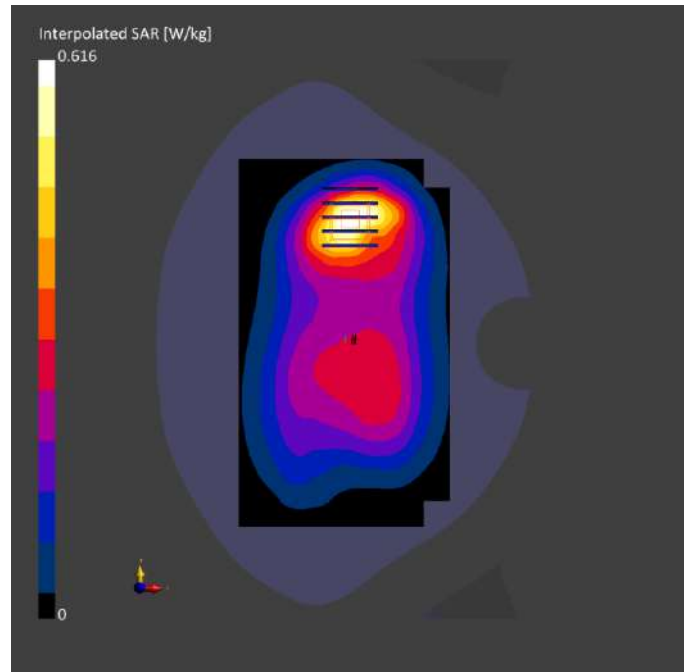
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-16	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-16	2024-09-16
psSAR1g [W/kg]	0.373	0.381
psSAR10g [W/kg]	0.243	0.230
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.6
Dist 3dB Peak [mm]		14.3



Meas.30 Right Head with Cheek on Middle Channel in LTE Band7 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 7	LTE-FDD, 10169-CAF	2535.0, 21100	7.75	1.91	38.9	22.3	21.7

Hardware Setup

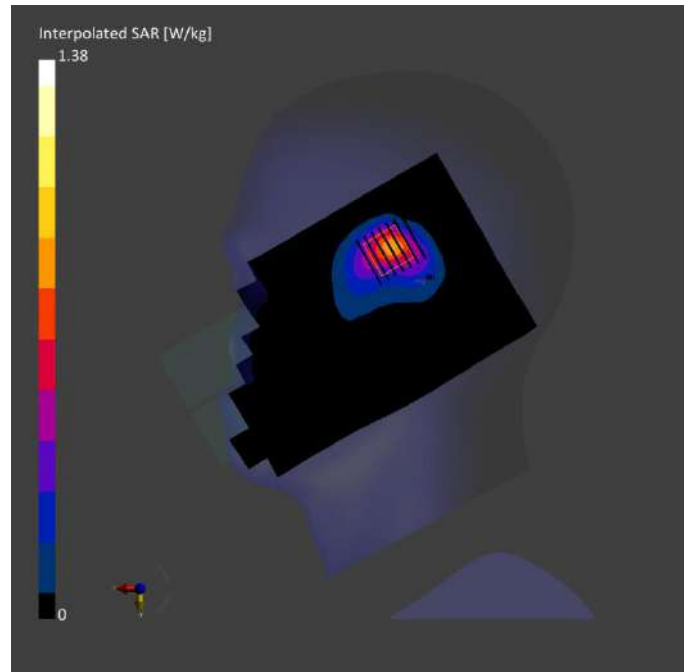
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	All points	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-25	2024-09-25
psSAR1g [W/kg]	0.896	0.892
psSAR10g [W/kg]	0.436	0.434
Power Drift [dB]	-0.08	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		7.8



Meas.31 Body Plane with Back Side 15mm on Middle Channel in LTE Band7 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 7	LTE-FDD, 10169-CAF	2535.0, 21100	7.75	1.91	38.9	22.3	21.7

Hardware Setup

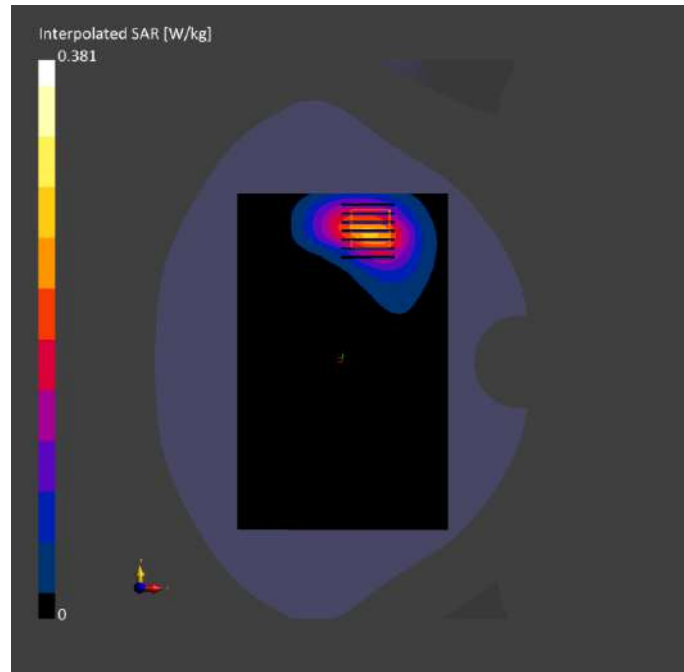
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-25	2024-09-25
psSAR1g [W/kg]	0.370	0.368
psSAR10g [W/kg]	0.211	0.200
Power Drift [dB]	0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		13.9



Meas.32 Body Plane with Bottom Edge 10mm on Low Channel in LTE Band7 mode with Antenna 1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, BOTTOM, 10.00	Band 7	LTE-FDD, 10169-CAF	2510.0, 20850	7.75	1.86	39.2	22.3	21.7

Hardware Setup

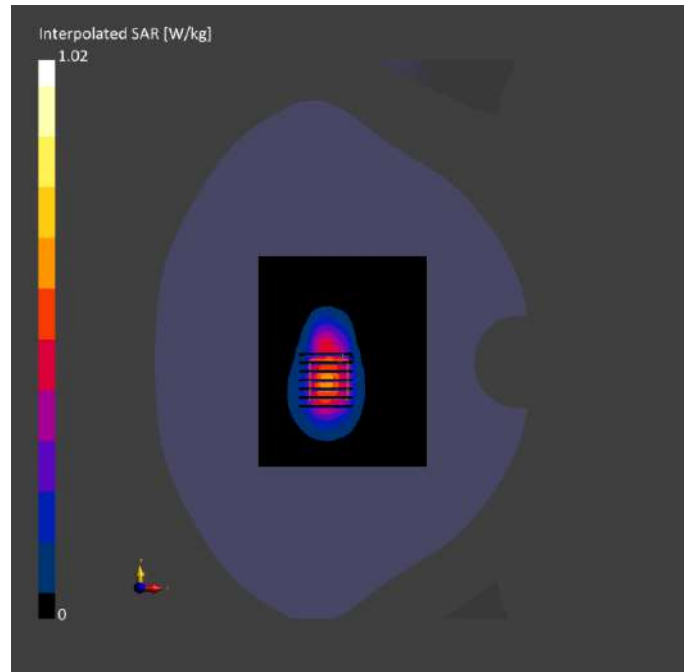
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-25	2024-09-25
psSAR1g [W/kg]	0.508	0.554
psSAR10g [W/kg]	0.259	0.280
Power Drift [dB]	0.00	0.16
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		10.4



Meas.33 Body Plane with Top Edge 0mm on Middle Channel in LTE Band7 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	Band 7	LTE-FDD, 10169-CAF	2535.0, 21100	7.75	1.91	38.9	22.3	21.7

Hardware Setup

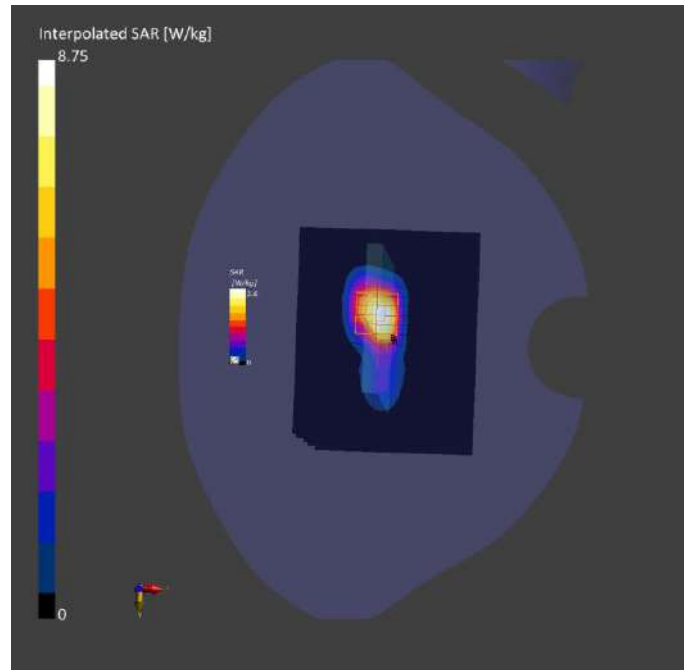
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-25	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-25	2024-09-25
psSAR1g [W/kg]	3.33	3.97
psSAR10g [W/kg]	1.49	1.59
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		43.6
Dist 3dB Peak [mm]		6.0



Meas.34 Right Head with Cheek on Middle Channel in LTE Band12 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 12	LTE-FDD, 10175-CAH	707.5, 23095	10.29	0.881	41.9	22.4	21.6

Hardware Setup

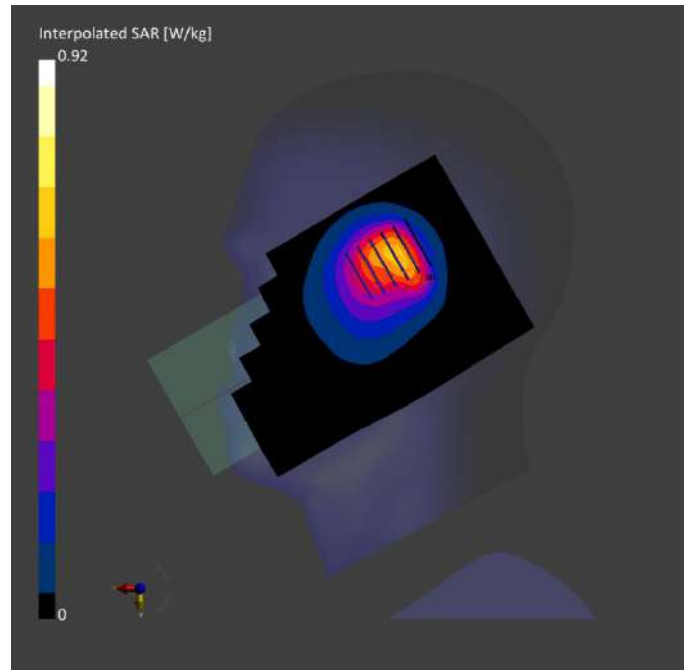
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.566	0.518
psSAR10g [W/kg]	0.377	0.337
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		44.6
Dist 3dB Peak [mm]		8.0



Meas.35 Body Plane with Back Side 15mm on Middle Channel in LTE Band12 mode with Antenna 1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 12	LTE-FDD, 10175-CAH	707.5, 23095	10.29	0.881	41.9	22.4	21.6

Hardware Setup

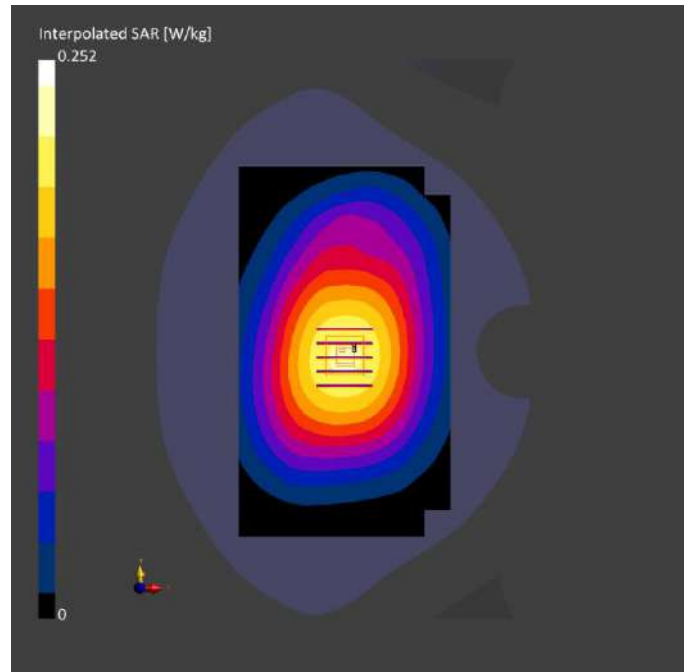
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.190	0.202
psSAR10g [W/kg]	0.137	0.158
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.1
Dist 3dB Peak [mm]		> 16.0



Meas.36 Body Plane with Right Edge 10mm on Middle Channel in LTE Band12 mode with Antenna 1
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, RIGHT, 10.00	Band 12	LTE-FDD, 10175-CAH	707.5, 23095	10.29	0.881	41.9	22.4	21.6

Hardware Setup

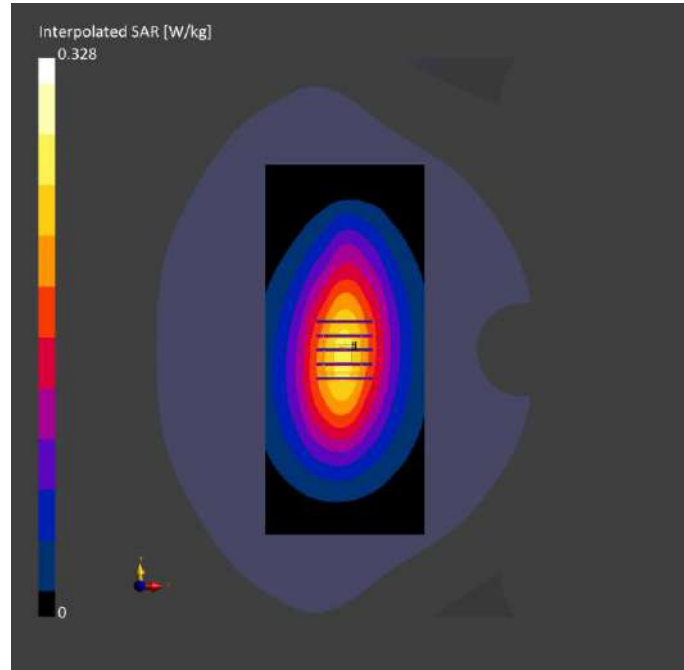
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.229	0.235
psSAR10g [W/kg]	0.157	0.166
Power Drift [dB]	0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		70.7
Dist 3dB Peak [mm]		> 16.0



Meas.37 Right Head with Cheek on Middle Channel in LTE Band13 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.29	0.902	40.8	22.4	21.6

Hardware Setup

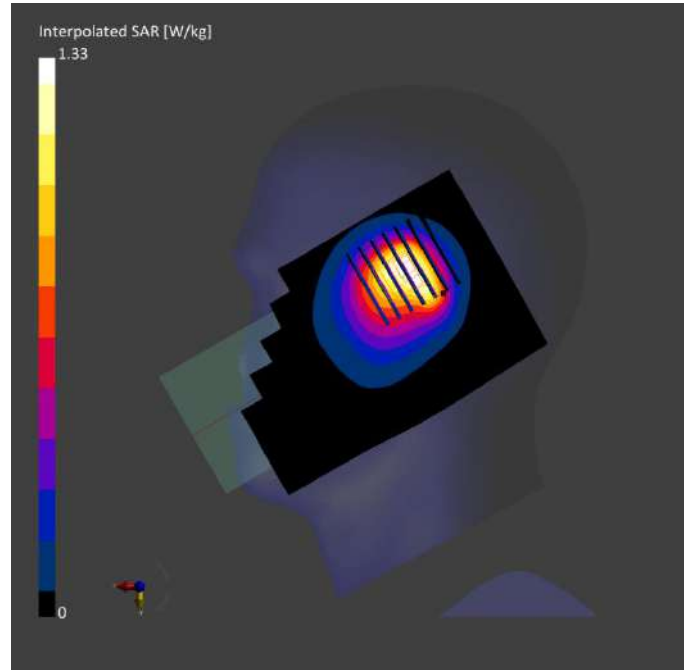
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.730	0.682
psSAR10g [W/kg]	0.486	0.432
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		43.9
Dist 3dB Peak [mm]		9.8



Meas.38 Body Plane with Back Side 15mm on Middle Channel in LTE Band13 mode with Antenna 1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.29	0.902	40.8	22.4	21.6

Hardware Setup

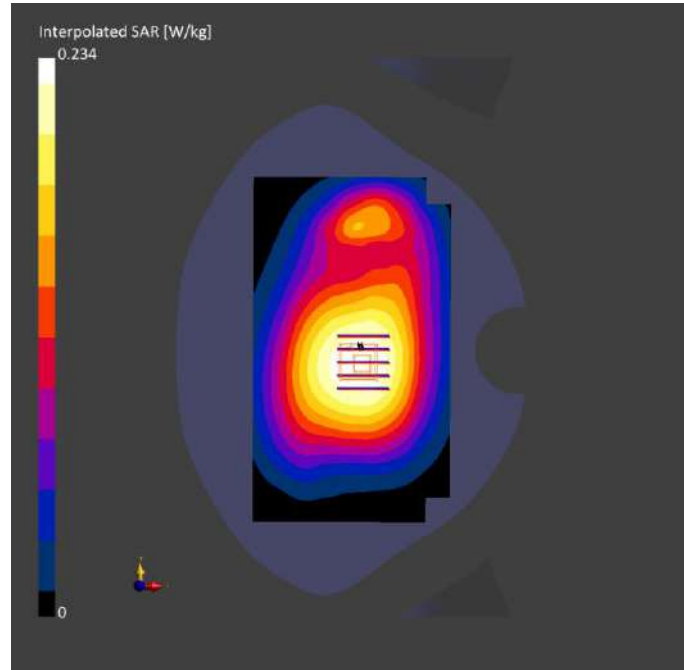
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.175	0.185
psSAR10g [W/kg]	0.125	0.143
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.4
Dist 3dB Peak [mm]		> 16.0



Meas.39 Body Plane with Back Side 10mm on Middle Channel in LTE Band13 mode with Antenna 1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 13	LTE-FDD, 10175-CAH	782.0, 23230	10.29	0.902	40.8	22.4	21.6

Hardware Setup

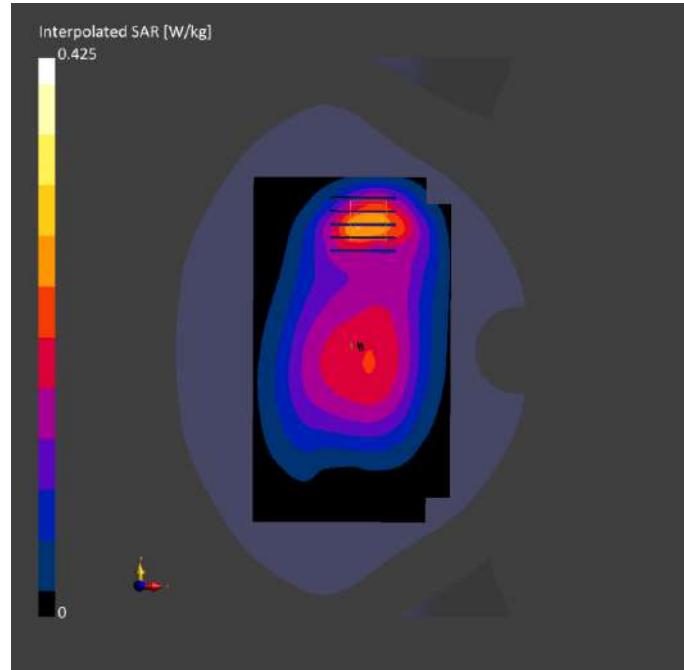
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-13	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-13	2024-09-13
psSAR1g [W/kg]	0.246	0.258
psSAR10g [W/kg]	0.163	0.153
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.7
Dist 3dB Peak [mm]		12.9



Meas.40 Right Head with Cheek on Middle Channel in LTE Band17 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 17	LTE-FDD, 10175-CAH	710.0, 23790	10.29	0.917	41.6	22.5	21.6

Hardware Setup

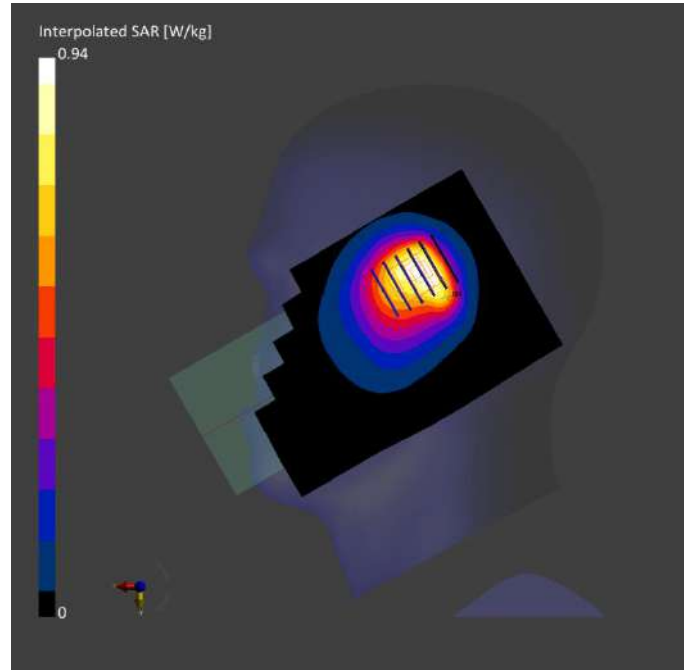
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-14	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-14	2024-09-14
psSAR1g [W/kg]	0.584	0.533
psSAR10g [W/kg]	0.388	0.348
Power Drift [dB]	-0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		44.9
Dist 3dB Peak [mm]		8.0



Meas.41 Body Plane with Back Side 15mm on Middle Channel in LTE Band17 mode with Antenna 1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 17	LTE-FDD, 10175-CAH	710.0, 23790	10.29	0.917	41.6	22.5	21.6

Hardware Setup

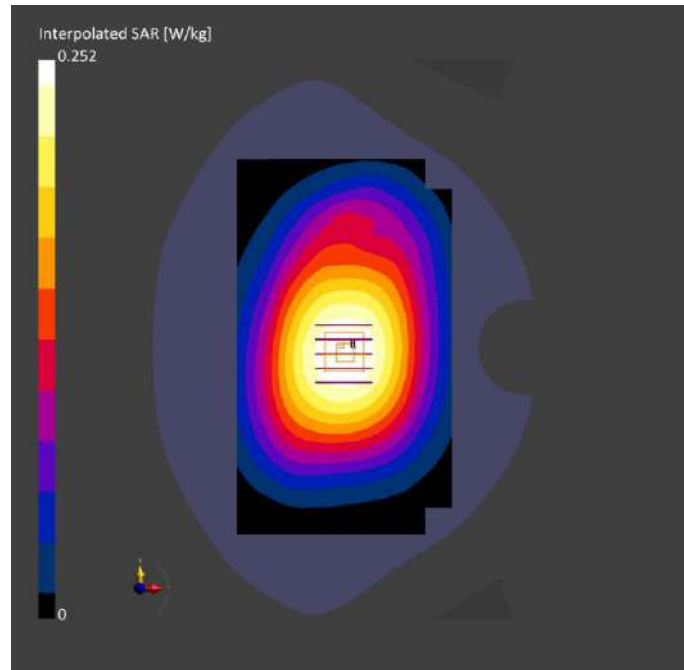
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-14	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-14	2024-09-14
psSAR1g [W/kg]	0.190	0.202
psSAR10g [W/kg]	0.137	0.158
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.7
Dist 3dB Peak [mm]		> 16.0



Meas.42 Body Plane with Right Edge 10mm on Middle Channel in LTE Band17 mode with Antenna 1
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, RIGHT, 10.00	Band 17	LTE-FDD, 10175-CAH	710.0, 23790	10.29	0.917	41.6	22.5	21.6

Hardware Setup

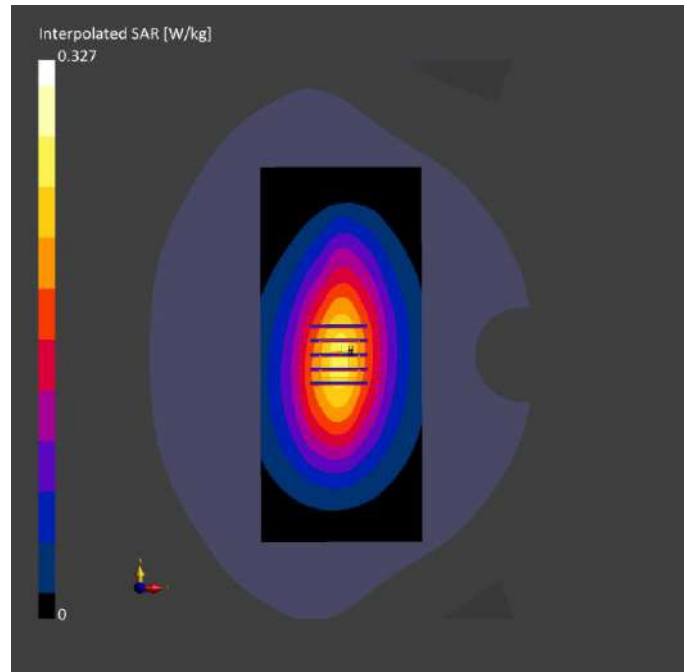
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-14	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-14	2024-09-14
psSAR1g [W/kg]	0.229	0.235
psSAR10g [W/kg]	0.158	0.166
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		70.9
Dist 3dB Peak [mm]		> 16.0



Meas.43 Left Head with Cheek on High Channel in LTE Band26 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	CHEEK, 0.00	Band 26	LTE-FDD, 10181-CAF	841.5, 26965	9.99	0.929	40.2	22.6	21.1

Hardware Setup

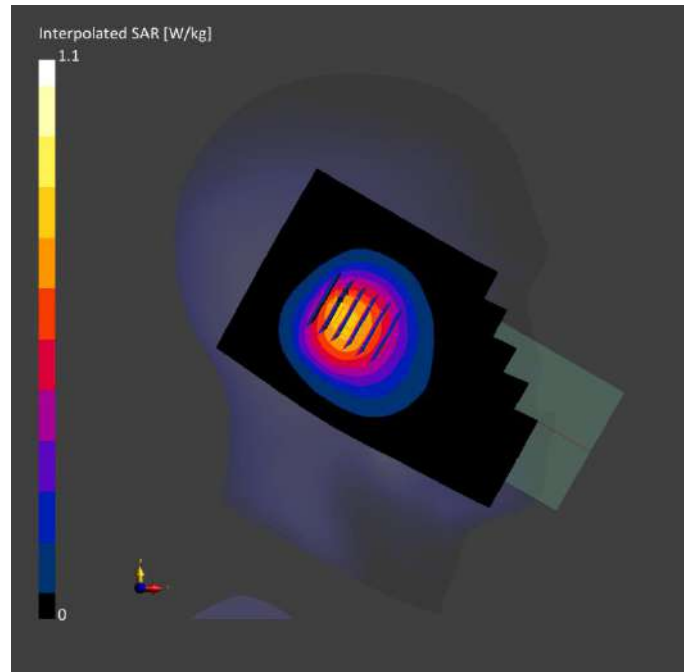
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.695	0.686
psSAR10g [W/kg]	0.473	0.470
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		9.3



Meas.44 Body Plane with Back Side 15mm on Middle Channel in LTE Band26 mode with Antenna 1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	9.99	0.898	40.9	22.6	21.1

Hardware Setup

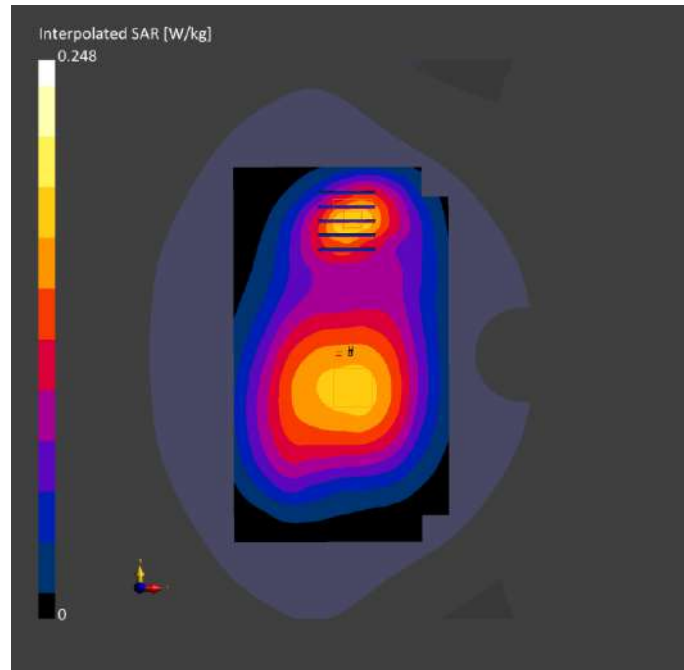
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.160	0.163
psSAR10g [W/kg]	0.110	0.103
Power Drift [dB]	-0.01	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		65.2
Dist 3dB Peak [mm]		16.0



Meas.45 Body Plane with Back Side 10mm on Middle Channel in LTE Band26 mode with Antenna 1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 26	LTE-FDD, 10181-CAF	831.5, 26865	9.99	0.898	40.9	22.6	21.1

Hardware Setup

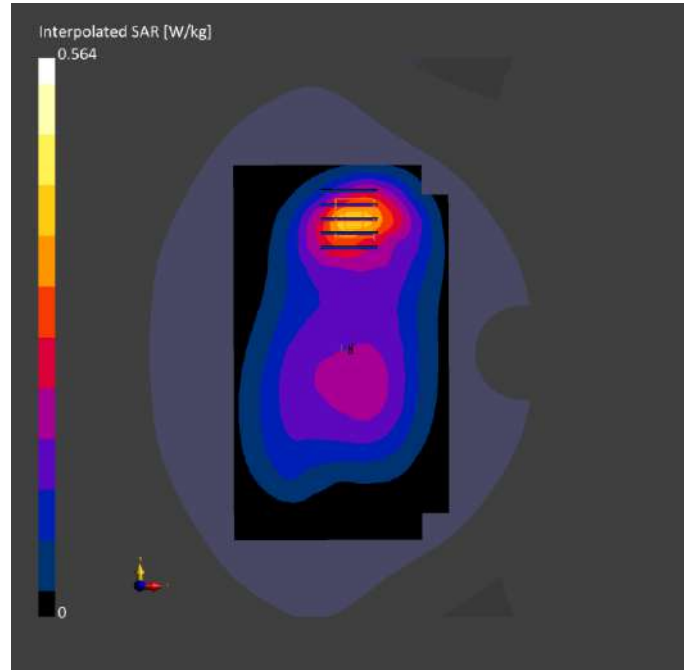
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-17	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-17	2024-09-17
psSAR1g [W/kg]	0.350	0.357
psSAR10g [W/kg]	0.229	0.217
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.7
Dist 3dB Peak [mm]		14.8



Meas.46 Right Head with Tilt on High Channel in LTE Band66 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 66	LTE-FDD, 10169-CAF	1770.0, 132572	8.67	1.39	38.7	22.4	21.5

Hardware Setup

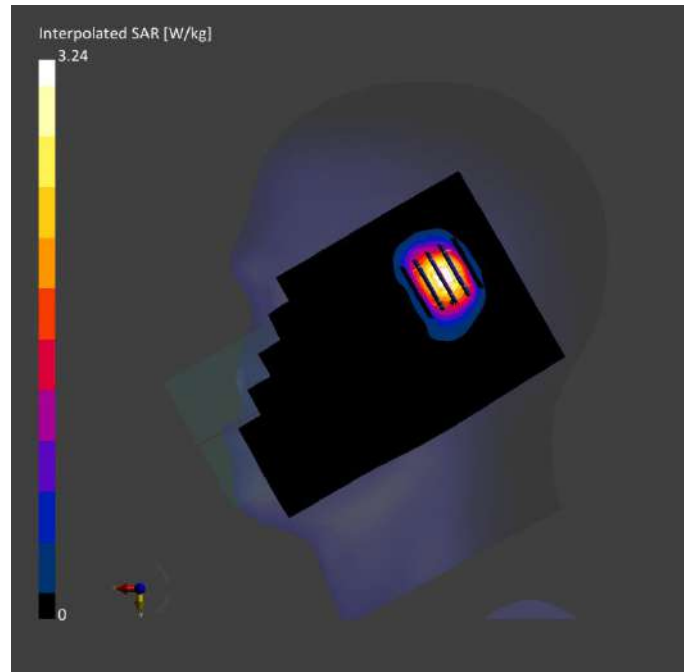
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-20	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	0.609	0.614
psSAR10g [W/kg]	0.248	0.293
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		6.4



Meas.47 Body Plane with Back Side 15mm on Middle Channel in LTE Band66 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 66	LTE-FDD, 10169-CAF	1745.0, 132322	8.67	1.36	39.1	22.4	21.5

Hardware Setup

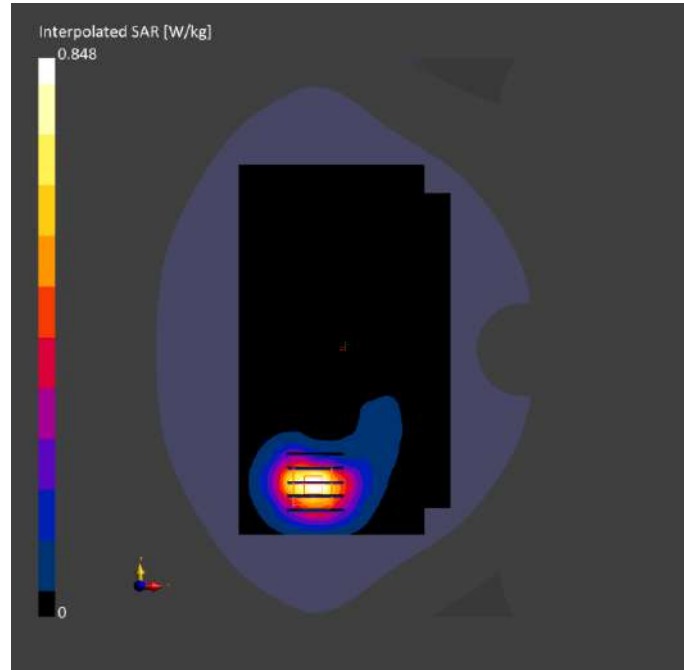
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-20	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	0.494	0.527
psSAR10g [W/kg]	0.272	0.298
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.6
Dist 3dB Peak [mm]		11.3



Meas.48 Body Plane with Top Edge 10mm on Middle Channel in LTE Band66 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	Band 66	LTE-FDD, 10169-CAF	1745.0, 132322	8.67	1.36	39.1	22.4	21.5

Hardware Setup

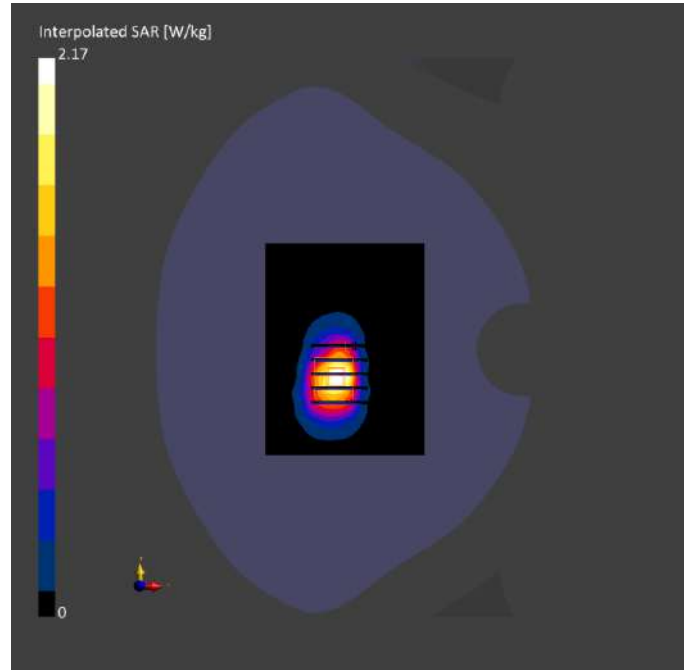
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-20	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	0.702	0.784
psSAR10g [W/kg]	0.362	0.399
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.2
Dist 3dB Peak [mm]		8.0



Meas.49 Body Plane with Top Edge 0mm on Middle Channel in LTE Band66 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	Band 66	LTE-FDD, 10169-CAF	1745.0, 132322	8.67	1.36	39.1	22.4	21.5

Hardware Setup

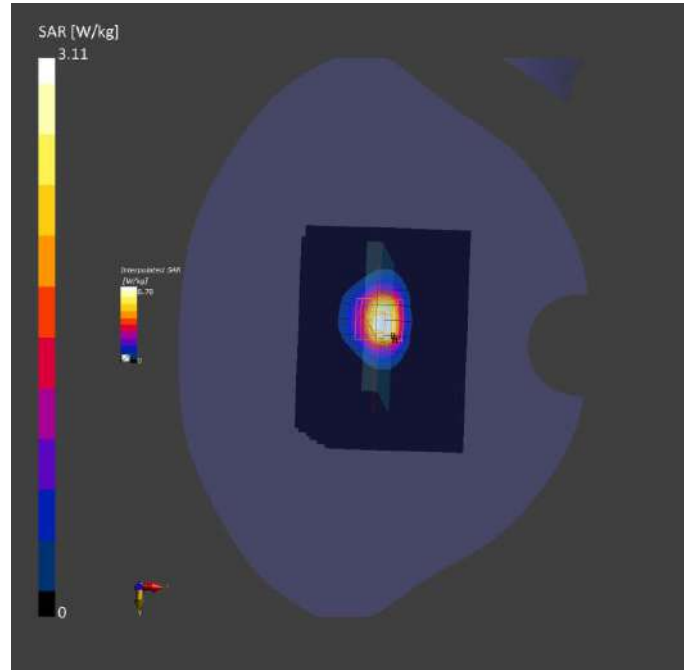
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-20	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-20	2024-09-20
psSAR1g [W/kg]	3.75	4.20
psSAR10g [W/kg]	1.60	1.76
Power Drift [dB]	-0.03	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.6
Dist 3dB Peak [mm]		7.2



Meas.50 Right Head with Cheek on High Channel in LTE Band38 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 38	LTE-TDD, 10172-CAH	2610.0, 38150	7.59	2.02	38.4	22.6	21.7

Hardware Setup

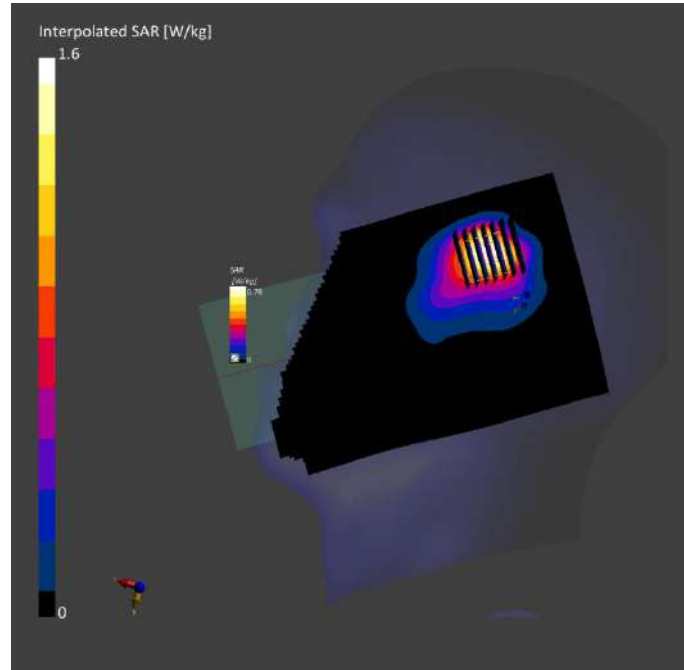
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	All points	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-26	2024-09-26
psSAR1g [W/kg]	0.743	0.819
psSAR10g [W/kg]	0.375	0.388
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.4
Dist 3dB Peak [mm]		8.5



Meas.51 Body Plane with Back Side 15mm on Low Channel in LTE Band38 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 38	LTE-TDD, 10172-CAH	2580.0, 37850	7.59	1.90	40.1	22.6	21.7

Hardware Setup

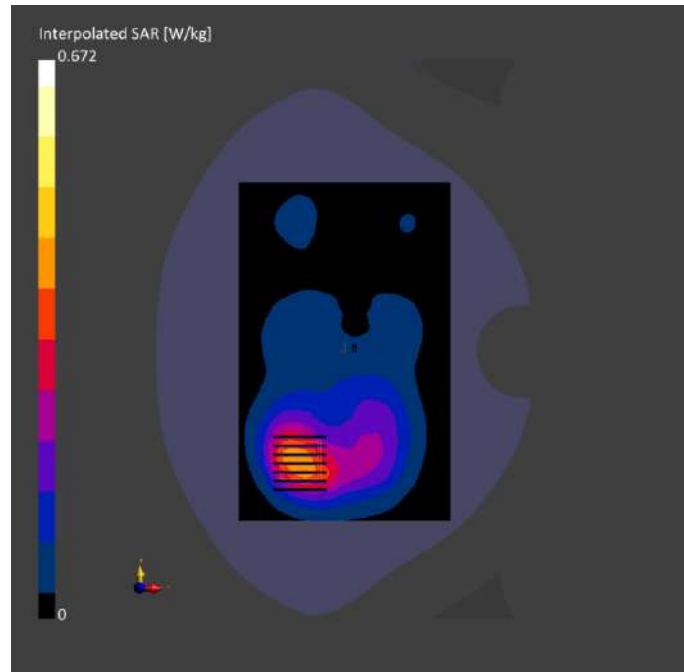
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-26	2024-09-26
psSAR1g [W/kg]	0.356	0.365
psSAR10g [W/kg]	0.194	0.199
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		14.1



Meas.52 Body Plane with Top Edge 10mm on Low Channel in LTE Band38 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	Band 38	LTE-TDD, 10172-CAH	2580.0, 37850	7.59	1.90	40.1	22.6	21.7

Hardware Setup

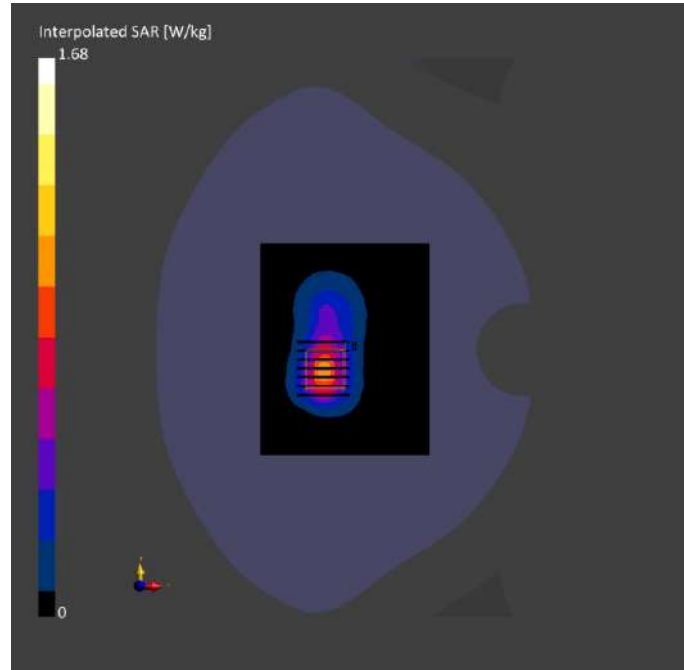
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-26	2024-09-26
psSAR1g [W/kg]	0.845	0.869
psSAR10g [W/kg]	0.397	0.418
Power Drift [dB]	0.00	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.8
Dist 3dB Peak [mm]		9.8



Meas.53 Body Plane with Top Edge 0mm on Low Channel in LTE Band38 mode with Antenna 4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	Band 38	LTE-TDD, 10172-CAH	2580.0, 37850	7.59	1.90	40.1	22.6	21.7

Hardware Setup

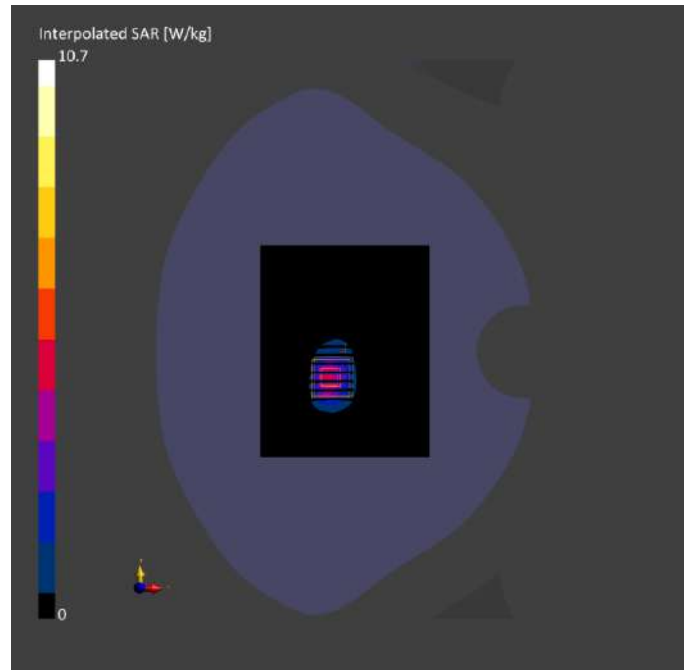
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-26	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-26	2024-09-26
psSAR1g [W/kg]	3.66	4.61
psSAR10g [W/kg]	1.58	1.75
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		40.7
Dist 3dB Peak [mm]		6.0



Meas.54 Right Head with Cheek on High Channel in LTE Band41 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	CHEEK, 0.00	Band 41	LTE-TDD, 10172-CAH	2680.0, 41490	7.59	1.98	38.4	22.6	21.5

Hardware Setup

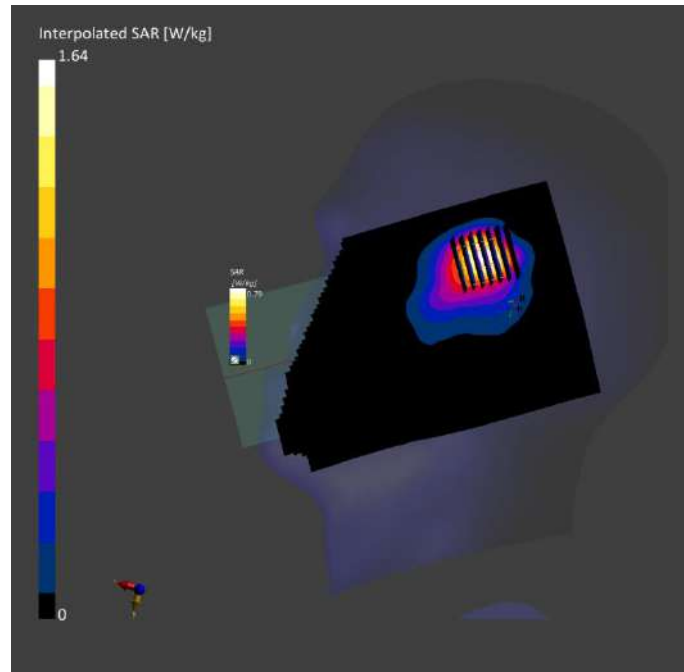
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	All points	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-27	2024-09-27
psSAR1g [W/kg]	0.747	0.828
psSAR10g [W/kg]	0.373	0.387
Power Drift [dB]	0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.4
Dist 3dB Peak [mm]		8.5



Meas.55 Body Plane with Back Side 15mm on Middle Channel in LTE Band41 mode with Antenna 4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 41	LTE-TDD, 10172-CAH	2593.0, 40620	7.59	1.95	39.6	22.6	21.5

Hardware Setup

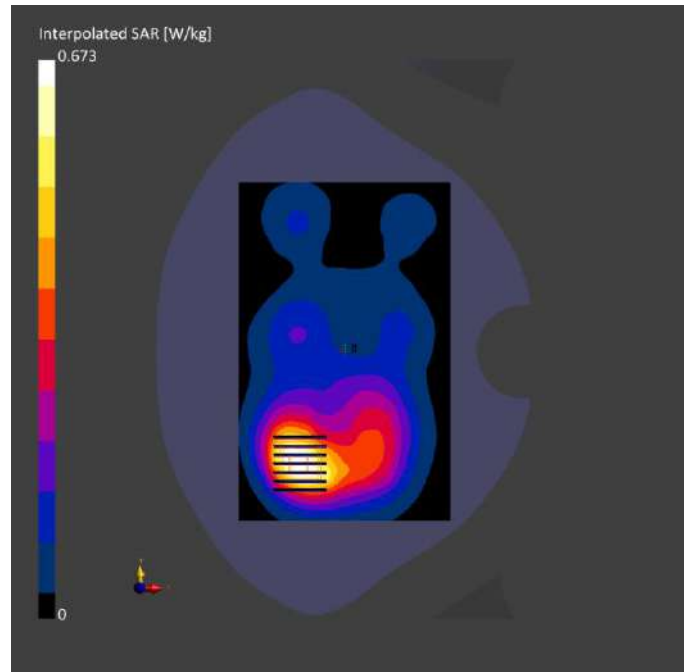
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-27	2024-09-27
psSAR1g [W/kg]	0.355	0.366
psSAR10g [W/kg]	0.193	0.200
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.2
Dist 3dB Peak [mm]		13.5



Meas.56 Body Plane with Top Edge 10mm on Middle Channel in LTE Band41 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	Band 41	LTE-TDD, 10172-CAH	2593.0, 40620	7.59	1.95	39.6	22.6	21.5

Hardware Setup

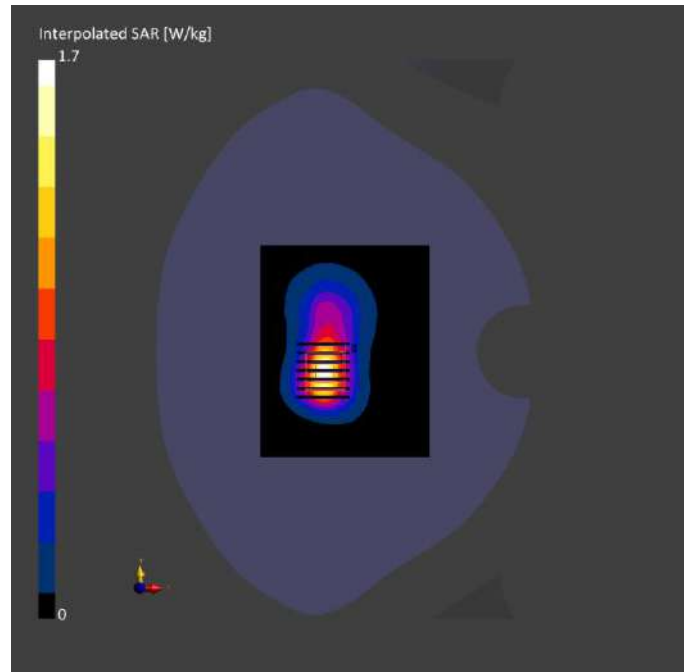
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-27	2024-09-27
psSAR1g [W/kg]	0.851	0.876
psSAR10g [W/kg]	0.400	0.421
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.0
Dist 3dB Peak [mm]		10.0



Meas.57 Body Plane with Top Edge 0mm on Low Channel in LTE Band41 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	Band 41	LTE-TDD, 10172-CAH	2506.0, 39750	7.75	1.82	40.2	22.6	21.5

Hardware Setup

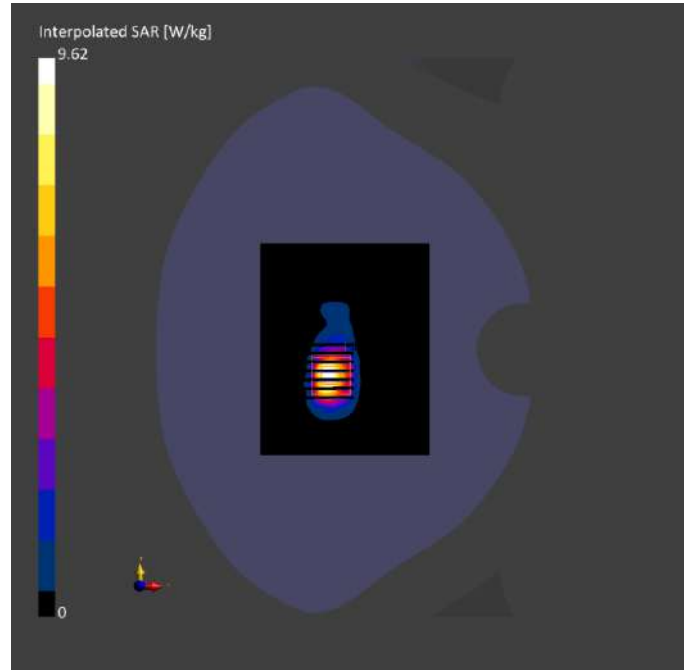
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-27	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-27	2024-09-27
psSAR1g [W/kg]	3.31	4.15
psSAR10g [W/kg]	1.43	1.58
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor		
[dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		40.5
Dist 3dB Peak [mm]		6.1



Meas.58 Left Head with Cheek on 9 Channel in IEEE802.11g mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	CHEEK, 0.00	WLAN, 2.4GHz	WLAN, 10564-AAA	2452.0, 9	7.75	1.78	38.4	22.5	21.2

Hardware Setup

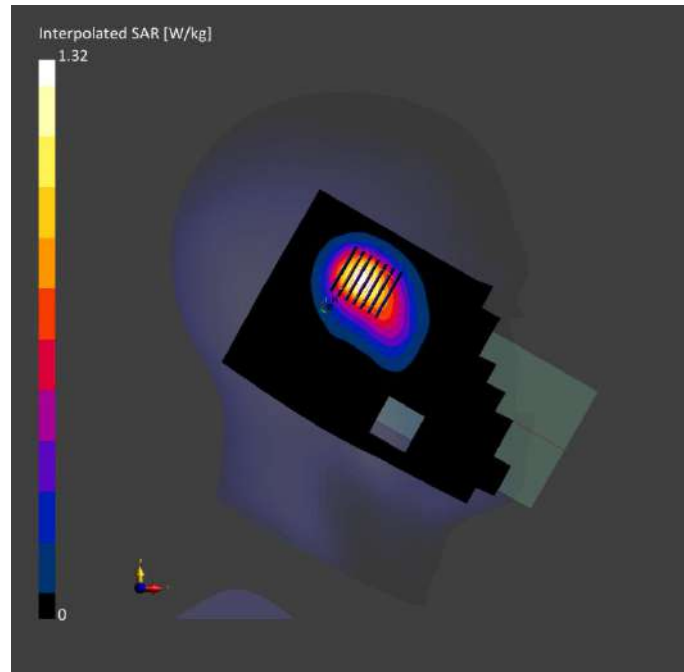
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-24	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-24	2024-09-24
psSAR1g [W/kg]	0.682	0.739
psSAR10g [W/kg]	0.349	0.381
Power Drift [dB]	-0.01	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.9
Dist 3dB Peak [mm]		12.3



Meas.59 Body Plane with Back Side 15mm on 6 Channel in IEEE802.11g mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLAN, 2.4GHz	WLAN, 10564-AAA	2437.0, 6	7.75	1.75	38.9	22.5	21.2

Hardware Setup

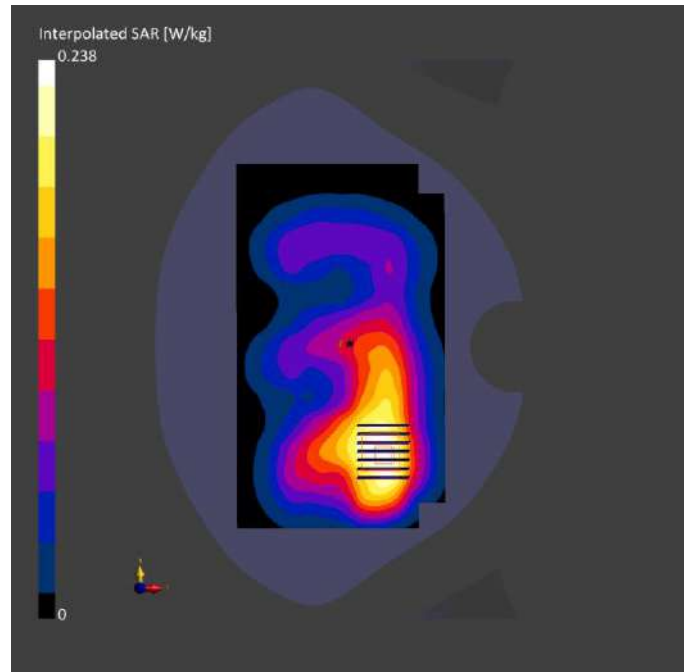
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-24	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-24	2024-09-24
psSAR1g [W/kg]	0.137	0.138
psSAR10g [W/kg]	0.079	0.082
Power Drift [dB]	0.00	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		> 15.0



Meas.60 Body Plane with Right Edge 10mm on 6 Channel in IEEE802.11g mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, RIGHT, 10.00	WLAN, 2.4GHz	WLAN, 10564-AAA	2437.0, 6	7.75	1.75	38.9	22.5	21.2

Hardware Setup

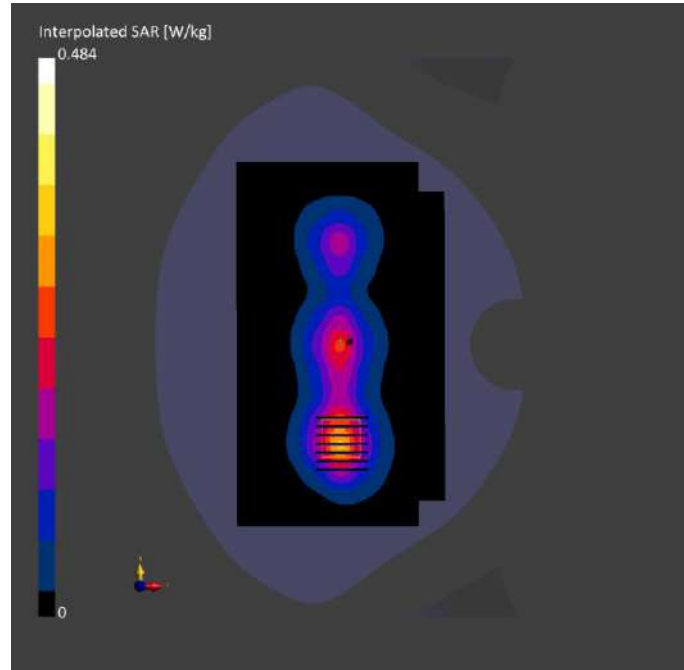
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-24	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-24	2024-09-24
psSAR1g [W/kg]	0.261	0.268
psSAR10g [W/kg]	0.136	0.143
Power Drift [dB]	-0.04	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.3
Dist 3dB Peak [mm]		14.0



Meas.61 Body Plane with Right Edge 0mm on 6 Channel in IEEE802.11g mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, RIGHT, 0.00	WLAN, 2.4GHz	WLAN, 10564-AAA	2437.0, 6	7.75	1.75	38.9	22.5	21.2

Hardware Setup

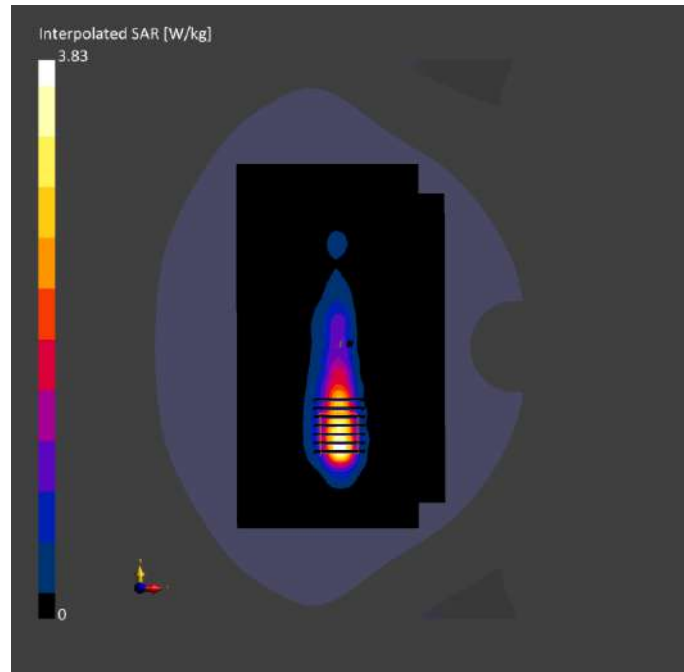
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-24	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-24	2024-09-24
psSAR1g [W/kg]	1.73	1.70
psSAR10g [W/kg]	0.784	0.761
Power Drift [dB]	-0.06	-0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		43.7
Dist 3dB Peak [mm]		8.0



Meas.62 Left Head with Tilt on 54 Channel in IEEE802.11n40 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	TILT, 0.00	WLAN, 5GHz	WLAN, 10114-CAD	5270.0, 54	5.5	4.66	36.1	22.2	21.3

Hardware Setup

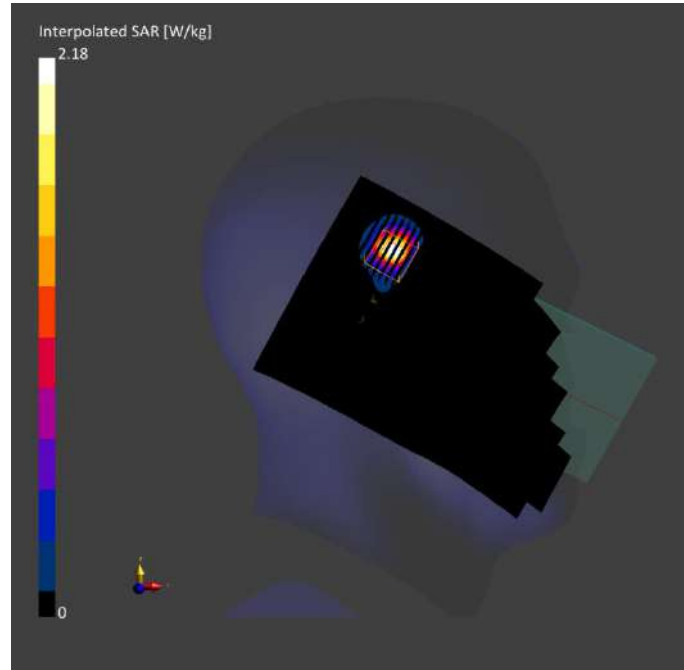
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-28	2024-09-28
psSAR1g [W/kg]	0.488	0.578
psSAR10g [W/kg]	0.152	0.162
Power Drift [dB]	-0.03	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		6.1



Meas.63 Left Head with Tilt on 118 Channel in IEEE802.11n40 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	TILT, 0.00	WLAN, N	WLAN, 10114-	5590.0, 118	5.0	5.11	35.9	22.5	21.0
		5GHz	CAD						

Hardware Setup

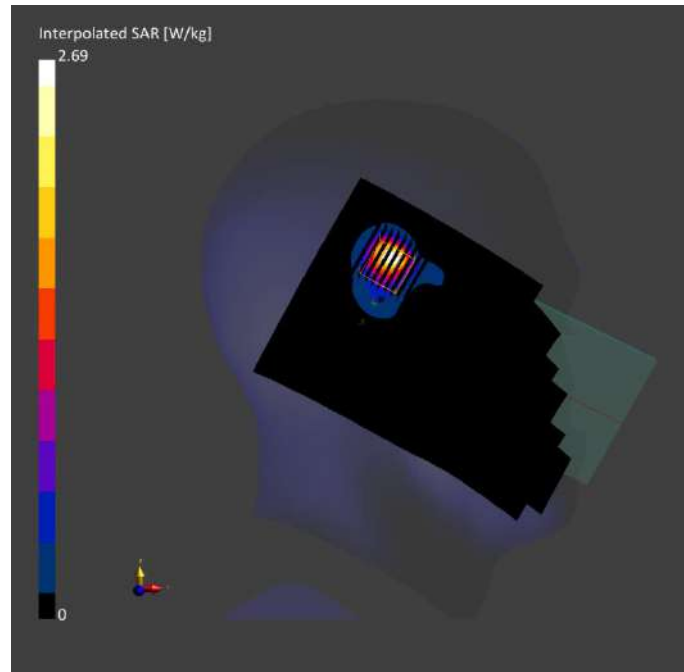
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-29	2024-09-29
psSAR1g [W/kg]	0.593	0.689
psSAR10g [W/kg]	0.194	0.203
Power Drift [dB]	0.02	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.2
Dist 3dB Peak [mm]		6.8



Meas.64 Left Head with Tilt on 155 Channel in IEEE802.11ac80 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	TILT, 0.00	WLAN, 5GHz	WLAN, 10544- AAC	5775.0, 155	5.04	5.10	35.4	22.4	21.2

Hardware Setup

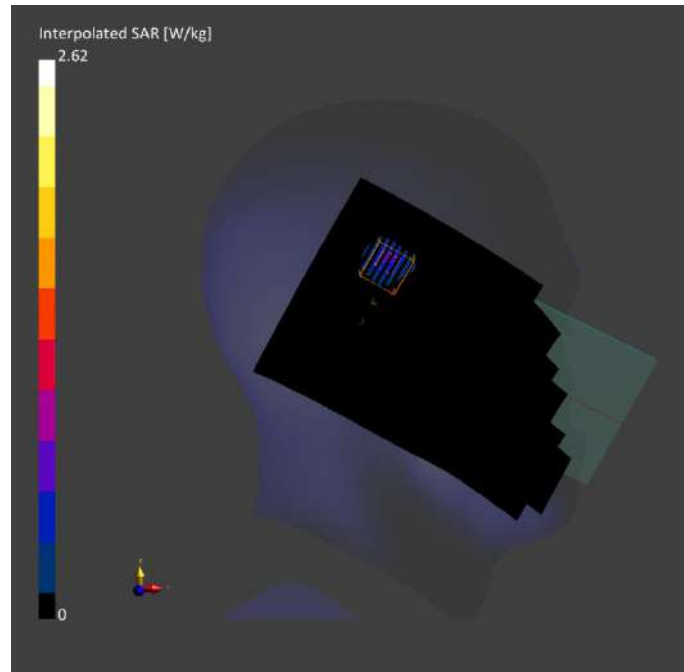
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-30	2024-09-30
psSAR1g [W/kg]	0.502	0.573
psSAR10g [W/kg]	0.151	0.162
Power Drift [dB]	0.14	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		6.8



Meas.65 Body Plane with Back Side 15mm on 54 Channel in IEEE802.11n40 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLAN, N	WLAN, 10114-CAD	5270.0, 54	5.5	4.66	36.1	22.2	21.3

Hardware Setup

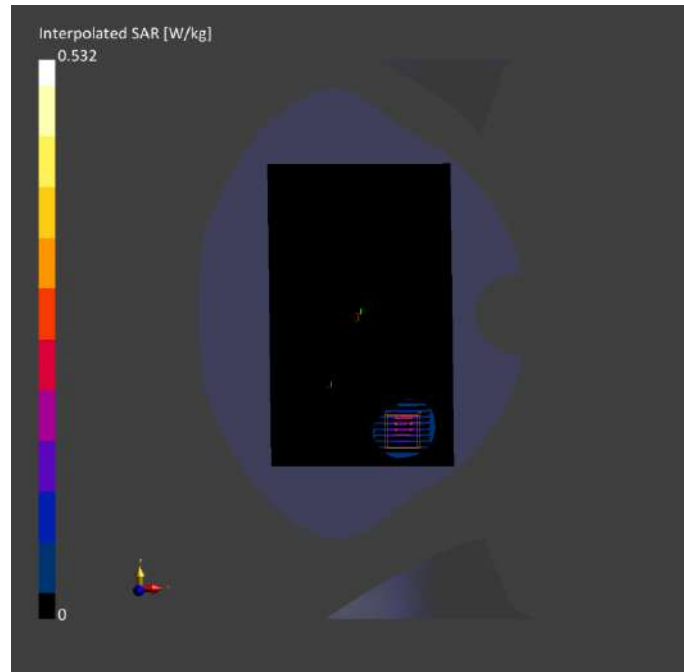
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-28	2024-09-28
psSAR1g [W/kg]	0.164	0.169
psSAR10g [W/kg]	0.060	0.060
Power Drift [dB]	0.06	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.4
Dist 3dB Peak [mm]		9.3



Meas.66 Body Plane with Back Side 15mm on 118 Channel in IEEE802.11n40 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLAN, N	WLAN, 10114-CAD	5590.0, 118	5.0	5.11	35.9	22.5	21.0

Hardware Setup

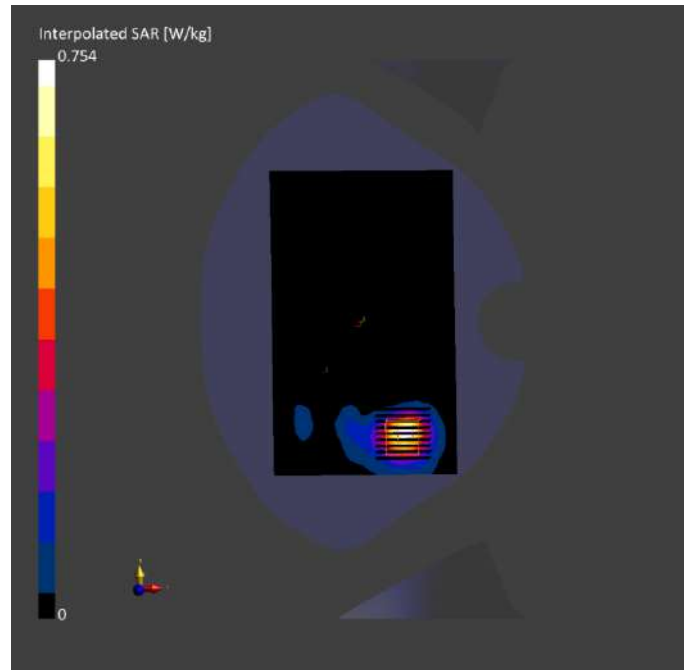
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-29	2024-09-29
psSAR1g [W/kg]	0.220	0.224
psSAR10g [W/kg]	0.082	0.080
Power Drift [dB]	-0.07	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		10.4



Meas.67 Body Plane with Back Side 15mm on 155 Channel in IEEE802.11ac80 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLAN, 5GHz	WLAN, 10544-AAC	5775.0, 155	5.04	5.10	35.4	22.4	21.2

Hardware Setup

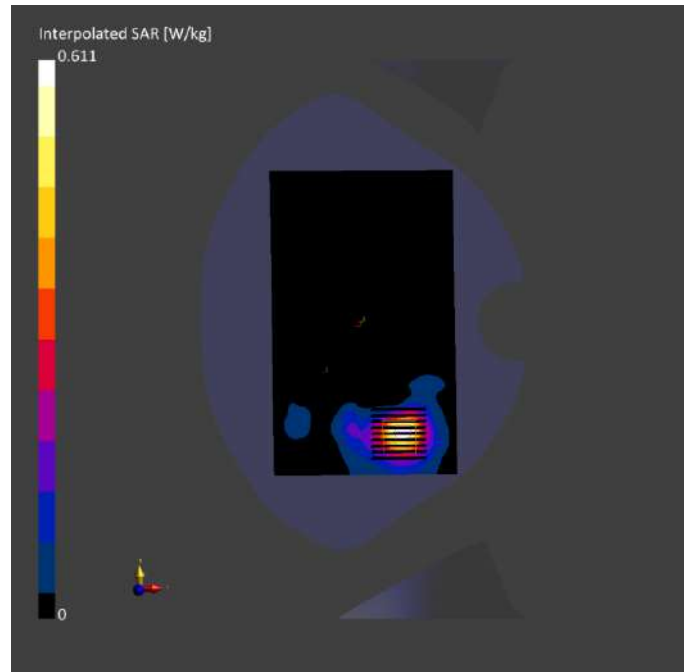
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	Y
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-30	2024-09-30
psSAR1g [W/kg]	0.173	0.174
psSAR10g [W/kg]	0.066	0.064
Power Drift [dB]	0.05	0.16
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.1
Dist 3dB Peak [mm]		10.5



Meas.68 Body Plane with Top Edge 10mm on 46 Channel in IEEE802.11n40 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	WLAN, N, 5GHz	WLAN, 10114-CAD	5230.0, 46	5.74	4.59	36.9	22.2	21.3

Hardware Setup

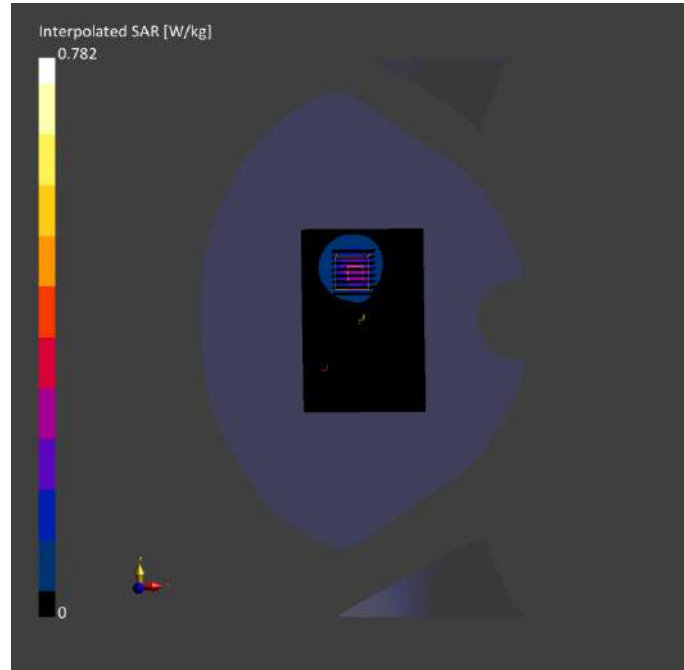
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-28	2024-09-28
psSAR1g [W/kg]	0.232	0.241
psSAR10g [W/kg]	0.088	0.088
Power Drift [dB]	-0.01	0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.1
Dist 3dB Peak [mm]		10.2



Meas.69 Body Plane with Top Edge 10mm on 155 Channel in IEEE802.11ac80 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 10.00	WLAN, N	WLAN, 10544- AAC	5775.0, 155	5.04	5.10	35.4	22.4	21.2

Hardware Setup

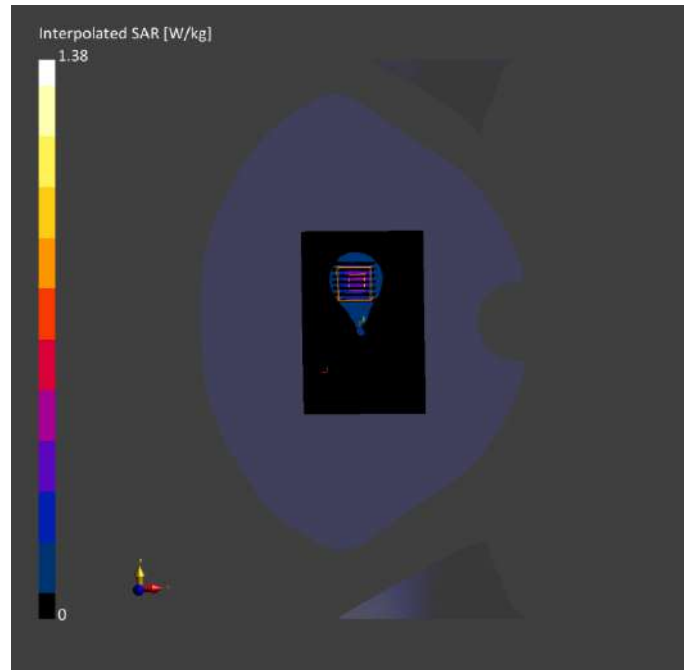
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	Y	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-30	2024-09-30
psSAR1g [W/kg]	0.252	0.263
psSAR10g [W/kg]	0.089	0.092
Power Drift [dB]	0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.3
Dist 3dB Peak [mm]		9.6



Meas.70 Body Plane with Top Edge 0mm on 54 Channel in IEEE802.11n40 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	WLAN, N	5270.0, 10599-54	5.5	4.66	36.1	22.2	21.3	

Hardware Setup

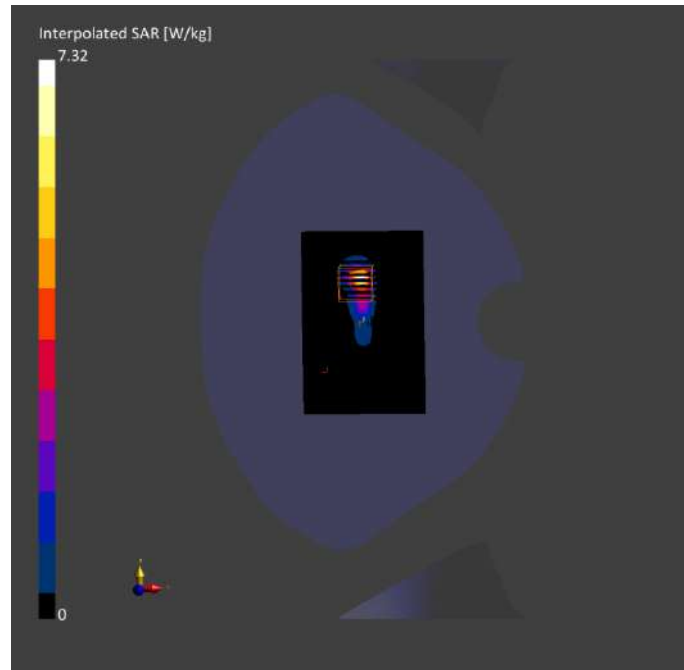
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-28	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-28	2024-09-28
psSAR1g [W/kg]	1.37	1.65
psSAR10g [W/kg]	0.361	0.374
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		4.3



Meas.71 Body Plane with Top Edge 0mm on 118 Channel in IEEE802.11n40 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	WLAN, N	WLAN, 10599- AAC	5590.0, 118	5.0	5.11	35.9	22.5	21.0

Hardware Setup

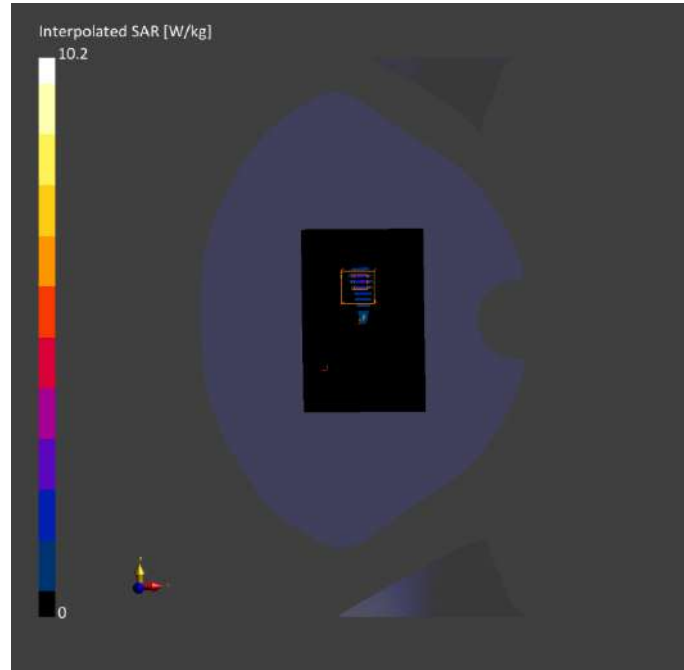
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Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-29	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-29	2024-09-29
psSAR1g [W/kg]	1.84	2.19
psSAR10g [W/kg]	0.489	0.503
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		4.7



Meas.72 Body Plane with Top Edge 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom	Position, Test Section, TSL	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, TOP, 0.00	WLAN, N	WLAN, 10544- AAC	5775.0, 155	5.04	5.10	35.4	22.4	21.2

Hardware Setup

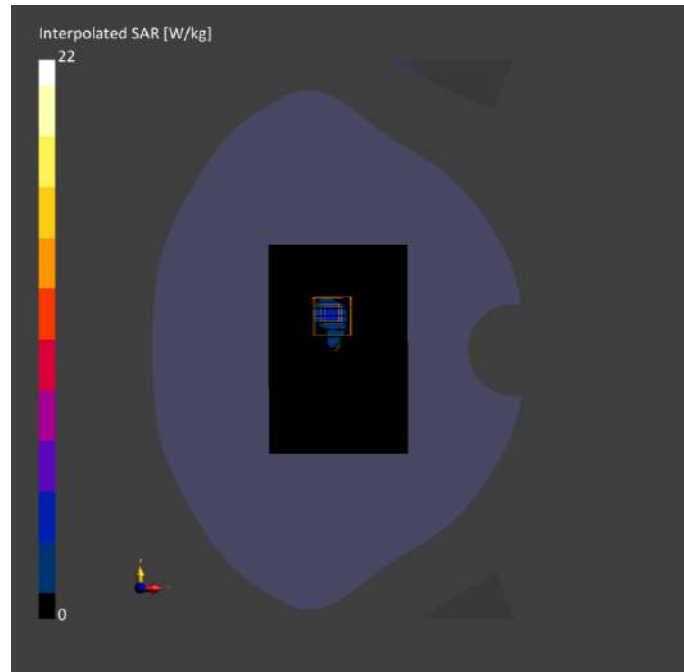
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-30	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-30	2024-09-30
psSAR1g [W/kg]	1.70	2.42
psSAR10g [W/kg]	0.487	0.544
Power Drift [dB]	-0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.6
Dist 3dB Peak [mm]		4.1



Meas.73 Left Head with Cheek on 39 Channel in Bluetooth mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	CHEEK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.75	1.76	38.7	22.5	21.2

Hardware Setup

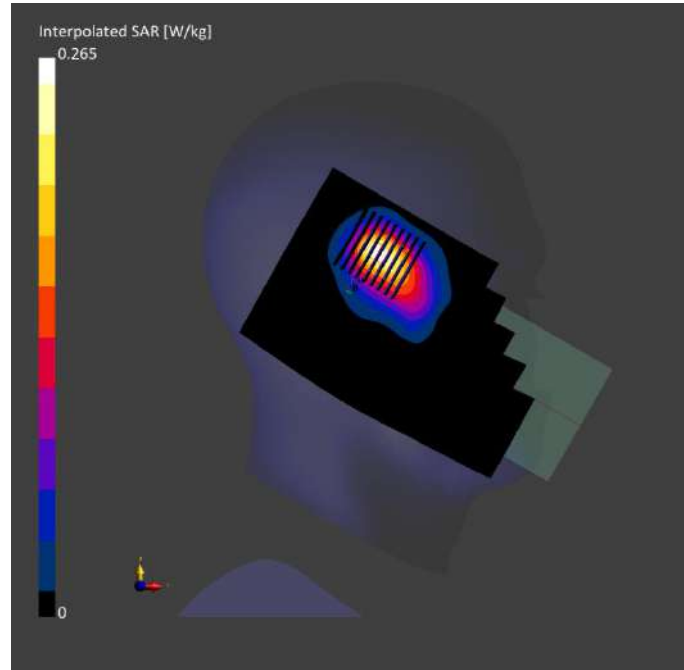
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-24	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-24	2024-09-24
psSAR1g [W/kg]	0.161	0.147
psSAR10g [W/kg]	0.083	0.078
Power Drift [dB]	0.03	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.0
Dist 3dB Peak [mm]		11.0



Meas.74 Body Plane with Back Side 15mm on 39 Channel in Bluetooth mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.75	1.76	38.7	22.5	21.2

Hardware Setup

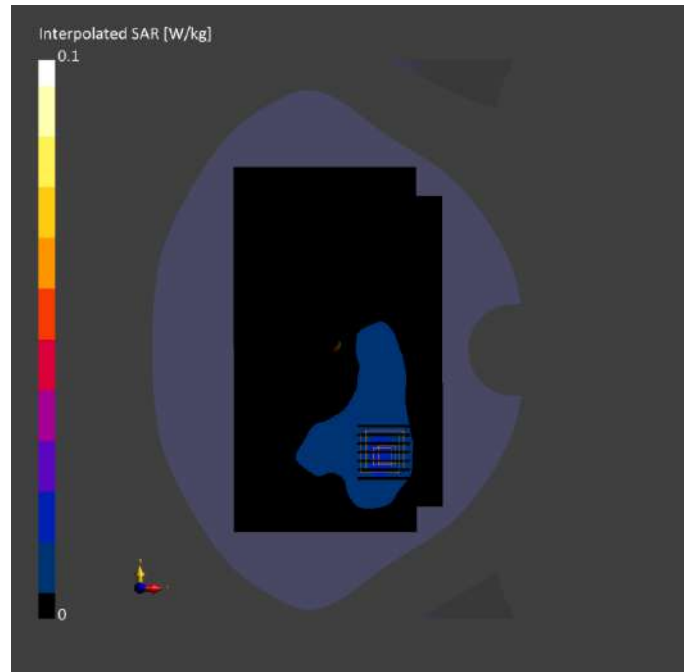
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-24	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-24	2024-09-24
psSAR1g [W/kg]	0.030	0.024
psSAR10g [W/kg]	0.018	0.013
Power Drift [dB]	0.06	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		> 15.0



Meas.75 Body Plane with Right Edge 10mm on 39 Channel in Bluetooth mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE, RIGHT, 10.00	ISM, 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.75	1.76	38.7	22.5	21.2

Hardware Setup

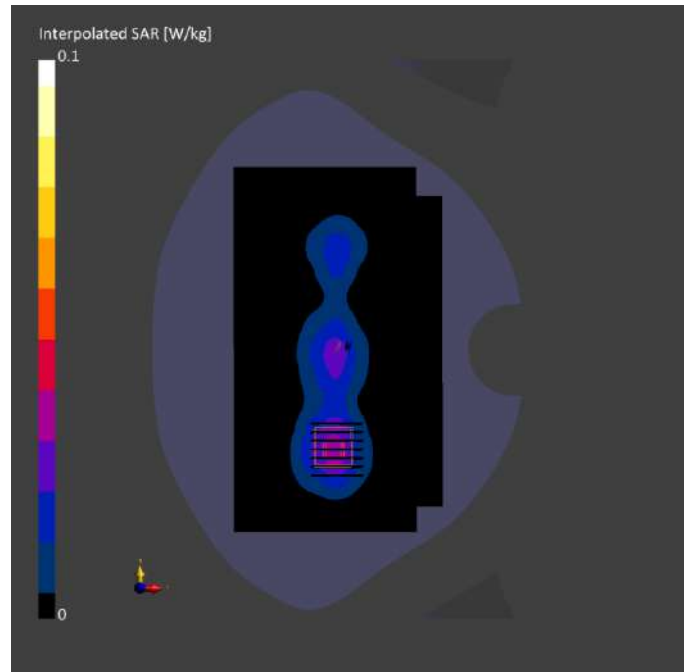
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-24	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-24	2024-09-24
psSAR1g [W/kg]	0.058	0.048
psSAR10g [W/kg]	0.031	0.024
Power Drift [dB]	-0.14	0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.8
Dist 3dB Peak [mm]		> 15.0



Meas.76 Body Plane with Right Edge 0mm on 39 Channel in Bluetooth mode with Antenna 7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE RIGHT, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.0, 39	7.75	1.76	38.7	22.5	21.2

Hardware Setup

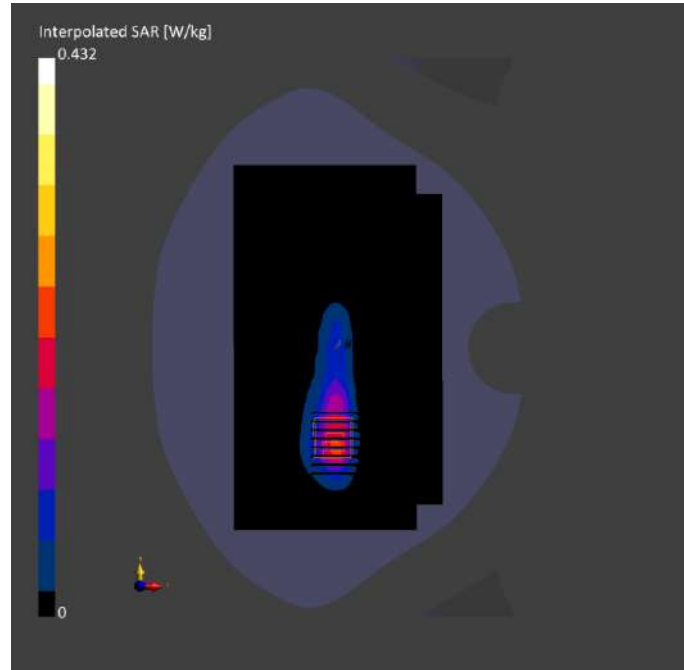
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-24	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-24	2024-09-24
psSAR1g [W/kg]	0.321	0.317
psSAR10g [W/kg]	0.148	0.143
Power Drift [dB]	-0.02	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		44.0
Dist 3dB Peak [mm]		7.0



Meas.77 Right Head with Tilt on High Channel in WCDMA Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.42	39.2	22.6	21.3

Hardware Setup

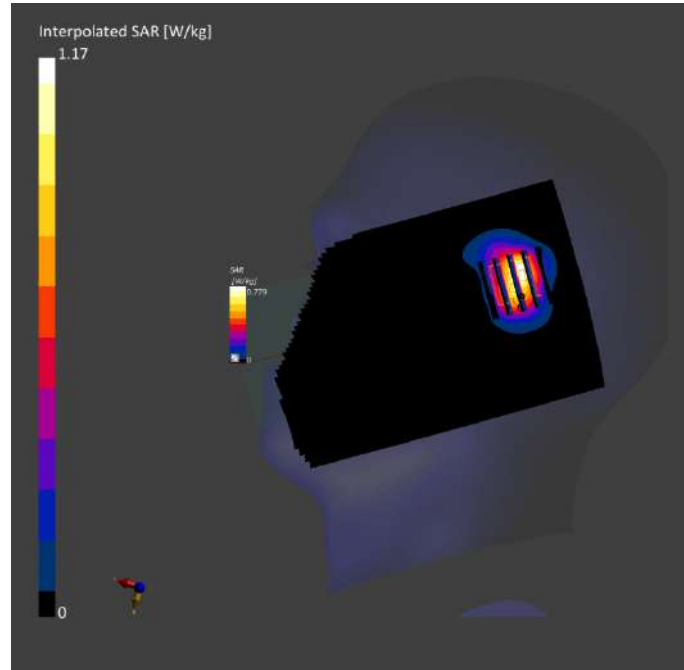
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	All points	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.622	0.775
psSAR10g [W/kg]	0.320	0.392
Power Drift [dB]	0.11	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		69.3
Dist 3dB Peak [mm]		8.0



Meas.78 Right Head with Tilt on High Channel in WCDMA Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.42	39.2	22.6	21.3

Hardware Setup

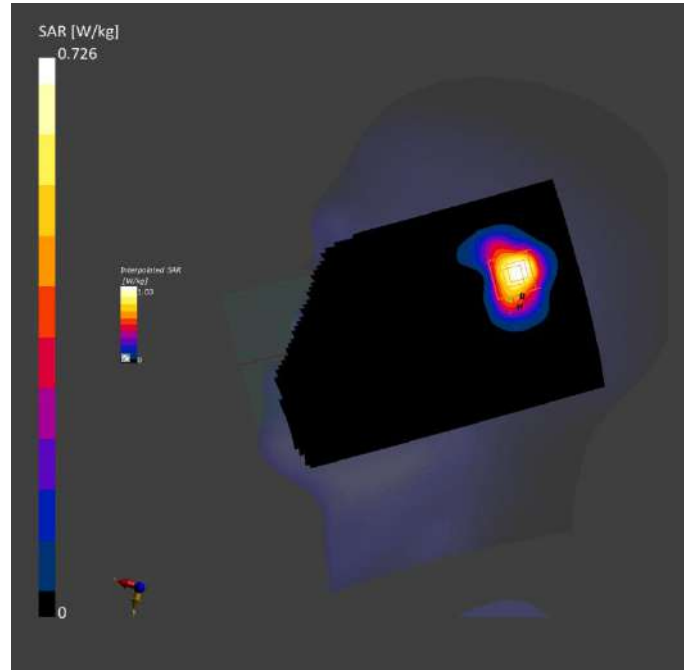
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	All points	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.608	0.733
psSAR10g [W/kg]	0.309	0.381
Power Drift [dB]	-0.03	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.2
Dist 3dB Peak [mm]		8.7



Meas.79 Right Head with Tilt on High Channel in WCDMA Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
RightHead, HSL	TILT, 0.00	Band 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.42	39.2	22.6	21.3

Hardware Setup

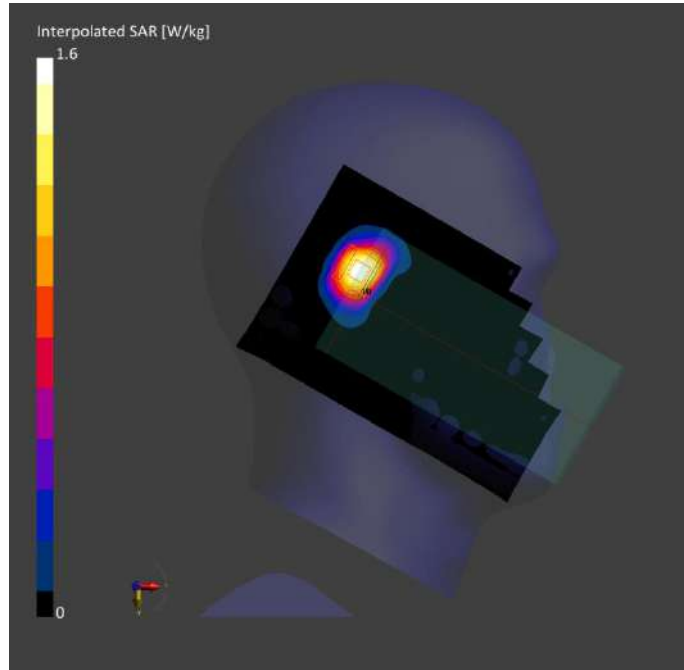
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	All points	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	0.567	0.808
psSAR10g [W/kg]	0.302	0.368
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		6.5



Meas.80 Body Plane with Top Edge 0mm on High Channel in WCDMA Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.42	39.2	22.6	21.3

Hardware Setup

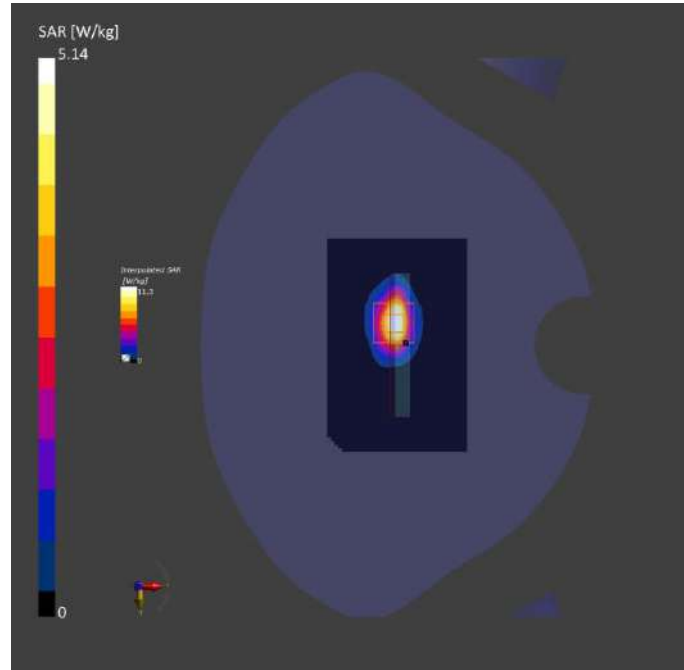
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	4.56	4.88
psSAR10g [W/kg]	1.94	1.96
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		39.8
Dist 3dB Peak [mm]		4.8



Meas.81 Body Plane with Top Edge 0mm on High Channel in WCDMA Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.42	39.2	22.6	21.3

Hardware Setup

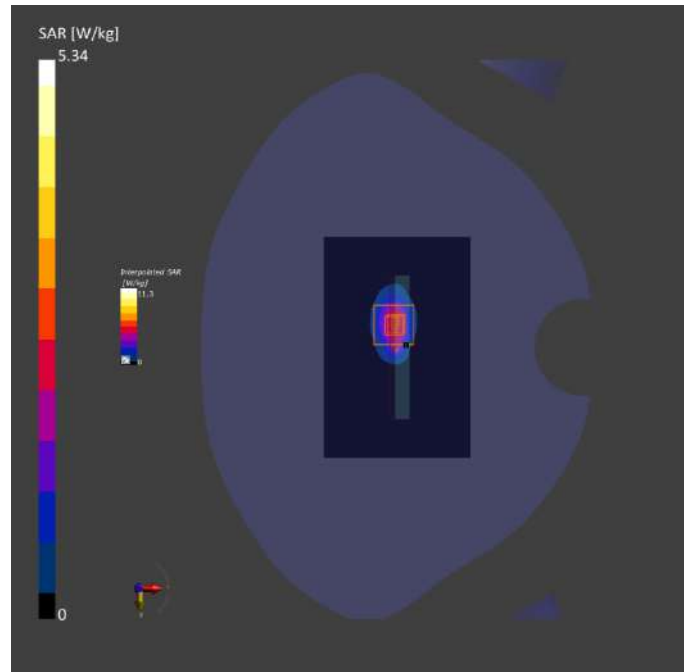
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	4.57	4.87
psSAR10g [W/kg]	1.93	1.96
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		39.6
Dist 3dB Peak [mm]		4.8



Meas.82 Body Plane with Top Edge 0mm on High Channel in WCDMA Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band 2	WCDMA, 10457-AAB	1907.6, 9538	8.33	1.42	39.2	22.6	21.3

Hardware Setup

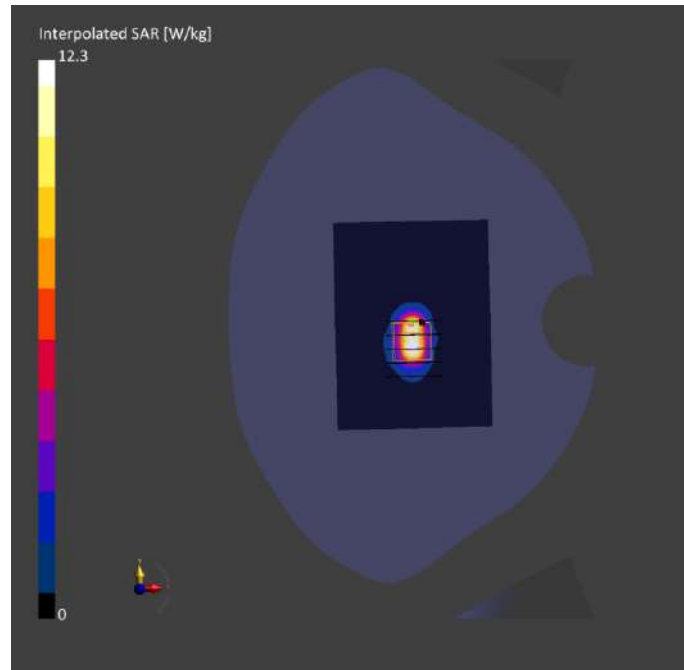
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-21	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-21	2024-09-21
psSAR1g [W/kg]	4.72	4.87
psSAR10g [W/kg]	2.02	1.93
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		40.9
Dist 3dB Peak [mm]		4.8



Meas.83 Body Plane with Top Edge 10mm on Low Channel in WCDMA Band4 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 10.00	Band 4	WCDMA, 10457-AAB	1712.4, 1312	8.67	1.32	40.4	22.6	21.7

Hardware Setup

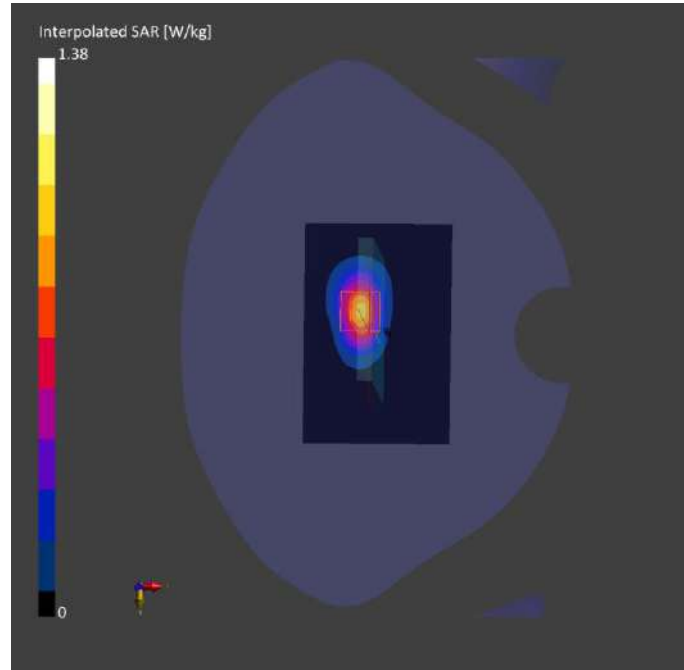
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-18	2024-09-18
psSAR1g [W/kg]	0.766	0.781
psSAR10g [W/kg]	0.387	0.404
Power Drift [dB]	0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.3
Dist 3dB Peak [mm]		9.6



Meas.84 Body Plane with Top Edge 10mm on Low Channel in WCDMA Band4 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 10.00	Band 4	WCDMA, 10457-AAB	1712.4, 1312	8.67	1.32	40.4	22.6	21.7

Hardware Setup

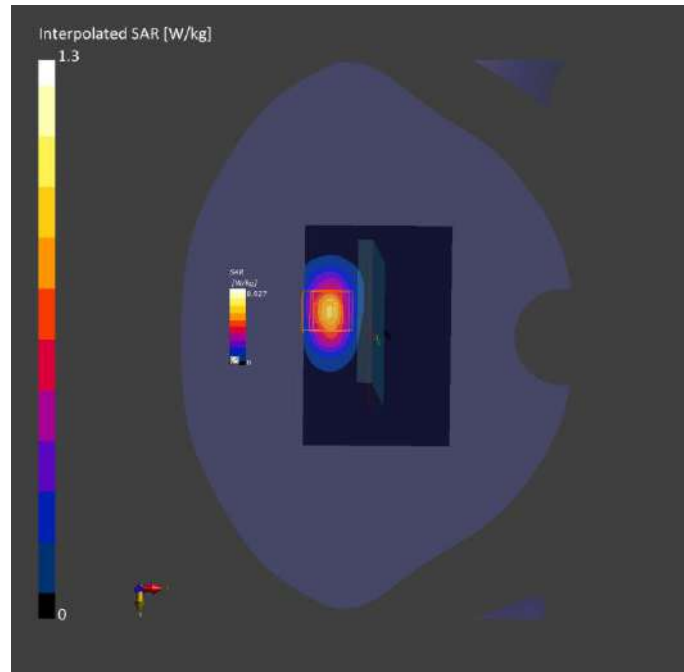
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-18	2024-09-18
psSAR1g [W/kg]	0.792	0.759
psSAR10g [W/kg]	0.405	0.409
Power Drift [dB]	-0.01	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.0
Dist 3dB Peak [mm]		10.1



Meas.85 Body Plane with Top Edge 10mm on Low Channel in WCDMA Band4 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 10.00	Band 4	WCDMA, 10457-AAB	1712.4, 1312	8.67	1.32	40.4	22.6	21.7

Hardware Setup

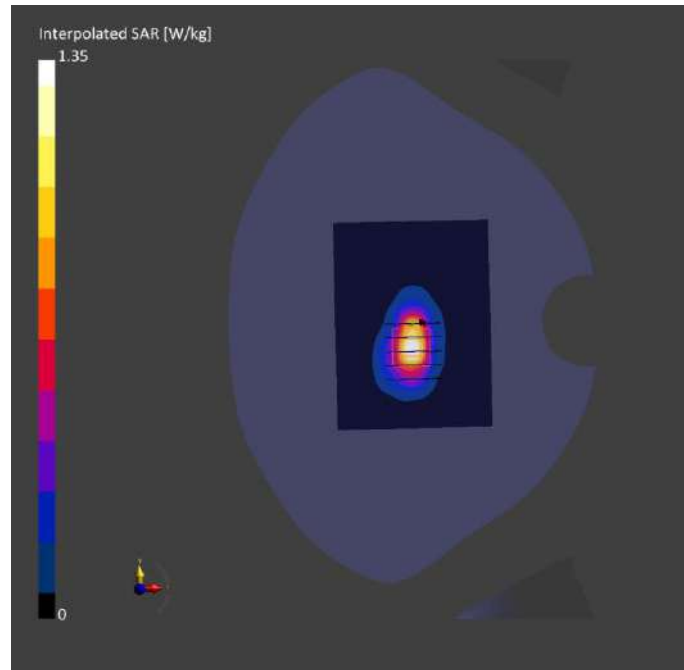
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-18	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-18	2024-09-18
psSAR1g [W/kg]	0.744	0.782
psSAR10g [W/kg]	0.366	0.398
Power Drift [dB]	-0.01	0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		8.0



Meas.86 Body Plane with Back Side 15mm on Middle Channel in LTE Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 2	LTE-FDD, 10169-CAF	1880.0, 18900	8.33	1.42	40.2	22.1	21.2

Hardware Setup

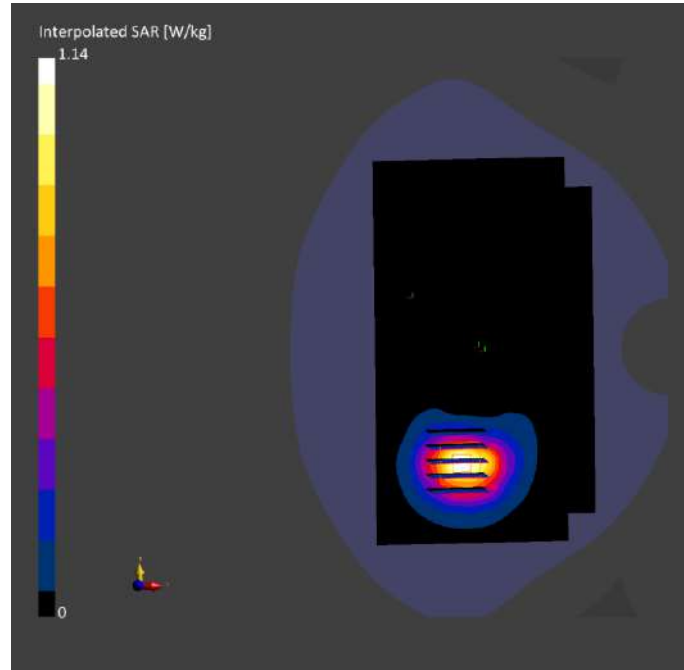
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.658	0.694
psSAR10g [W/kg]	0.359	0.396
Power Drift [dB]	0.01	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.6
Dist 3dB Peak [mm]		12.8



Meas.87 Body Plane with Back Side 15mm on Middle Channel in LTE Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 2	LTE-FDD, 10169-CAF	1880.0, 18900	8.33	1.42	40.2	22.1	21.2

Hardware Setup

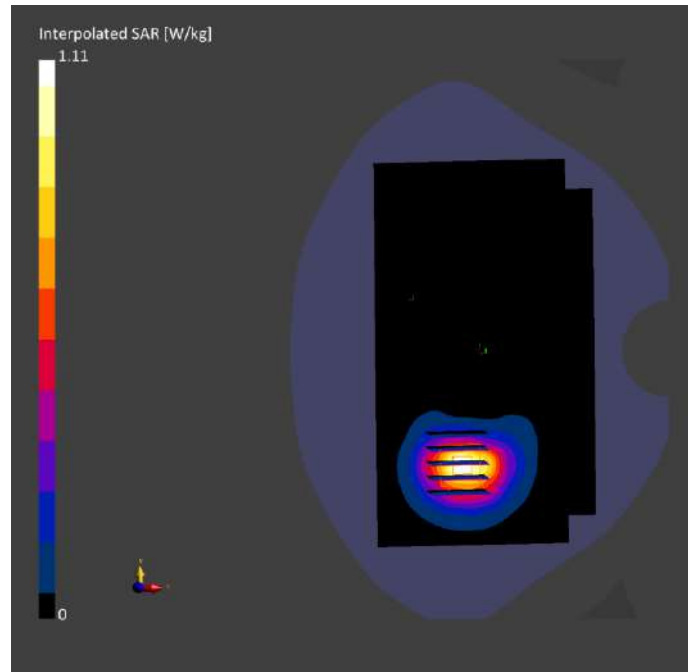
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.642	0.679
psSAR10g [W/kg]	0.351	0.389
Power Drift [dB]	-0.04	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.7
Dist 3dB Peak [mm]		12.8



Meas.88 Body Plane with Back Side 15mm on Middle Channel in LTE Band2 mode with Antenna 4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
O7L	167.0 x 78.0 x 8.0	Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 2	LTE-FDD, 10169-CAF	1880.0, 18900	8.33	1.42	40.2	22.1	21.2

Hardware Setup

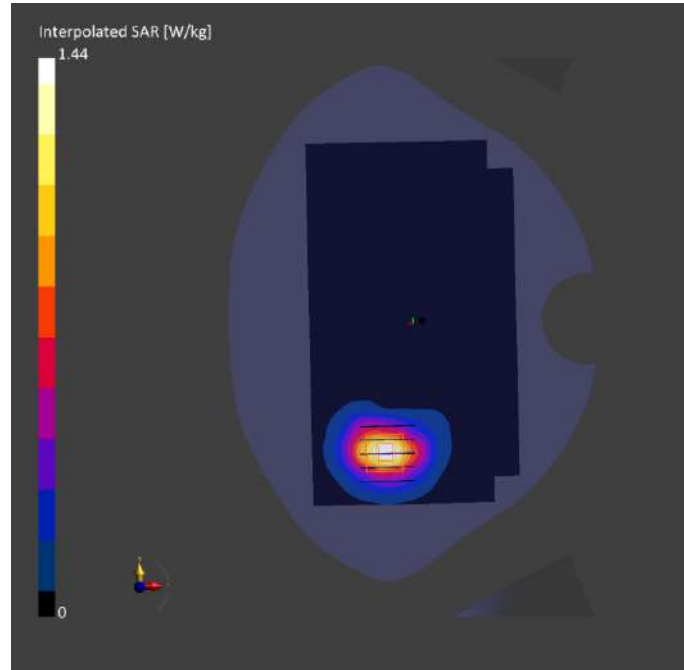
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2024-09-23	EX3DV4 - SN7510, 2024-06-25	DAE4 Sn1711, 2024-03-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-23	2024-09-23
psSAR1g [W/kg]	0.653	0.685
psSAR10g [W/kg]	0.372	0.381
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.5
Dist 3dB Peak [mm]		12.2



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2480911-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ2480911-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "BL-SZ2480911-AC.pdf".

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