

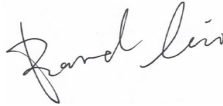
SAR EVALUATION REPORT

For

Shanghai Xiangcheng Communication Technology Co.,Ltd

6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai. China

FCC ID: 2A2UU-K1141

Report Type: Original Report	Product Name: A8 Smart Payment Terminal, A8K Smart Payment Terminal
Report Number:	<u>RKSA251230001-20B</u>
Report Date:	<u>2026-02-25</u>
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TABLE OF CONTENTS

REPORT REVISION HISTORY	3
REFERENCE, STANDARDS, AND GUIDELINES.....	7
SAR LIMITS	7
FACILITIES.....	8
DESCRIPTION OF TEST SYSTEM	9
EQUIPMENT LIST AND CALIBRATION	18
EQUIPMENTS LIST & CALIBRATION INFORMATION	18
LIQUID VERIFICATION	19
SYSTEM ACCURACY VERIFICATION.....	27
SAR SYSTEM VALIDATION DATA	29
EUT TEST STRATEGY AND METHODOLOGY	41
TEST POSITIONS FOR BODY-WORN AND OTHER CONFIGURATIONS	41
TEST DISTANCE FOR SAR EVALUATION	41
SAR EVALUATION PROCEDURE.....	42
CONDUCTED OUTPUT POWER MEASUREMENT	43
TEST PROCEDURE	43
RADIO CONFIGURATION	43
MAXIMUM TARGET OUTPUT POWER	49
TEST RESULTS:	51
STANDALONE SAR TEST EXCLUSION CONSIDERATIONS	75
STANDALONE SAR TEST EXCLUSION CONSIDERATIONS	78
STANDALONE SAR ESTIMATION:	78
SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT	80
SAR MEASUREMENT RESULTS.....	82
SAR TEST DATA.....	82
SAR MEASUREMENT VARIABILITY	98
SAR SIMULTANEOUS TRANSMISSION DESCRIPTION	99
APPENDIX A SAR PLOTS OF SAR MEASUREMENT	100
APPENDIX B MEASUREMENT UNCERTAINTY	101
APPENDIX C EUT TEST POSITION PHOTOS	102
APPENDIX D CALIBRATION CERTIFICATES	103
APPENDIX E DIPOLE INTERMEDIATE CHECK	104

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA251230001-20B	R1V1	2026-02-25	Initial Release

EUT Information	
Applicant:	Shanghai Xiangcheng Communication Technology Co.,Ltd
Product Type	Portable
Exposure Category:	Population / Uncontrolled
Body-Worn Accessories:	None
Operation Mode :	GPRS/EGPRS WCDMA FDD-LTE/ TDD-LTE WLAN2.4G WLAN5G BT/BLE NFC
Power Supply:	DC 7.2V from battery
Normal Operation:	Limbs/Body Supported
Frequency Band:	GPRS/EGPRS 850: 824-849 MHz(TX), 869-894 MHz(RX) GPRS/EGPRS 1900: 1850-1910 MHz(TX), 1930-1990 MHz(RX) WCDMA Band II: 1850-1910 MHz(TX), 1930-1990 MHz(RX) WCDMA Band IV: 1710-1755 MHz(TX), 2110-2155 MHz(RX) WCDMA Band V: 824-849 MHz(TX), 869-894 MHz(RX) LTE Band 2: 1850-1910 MHz(TX), 1930-1990 MHz(RX) LTE Band 4: 1710-1755 MHz(TX), 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX), 869-894 MHz(RX) LTE Band 7: 2500-2570 MHz(TX), 2620-2690 MHz(RX) LTE Band 26: 814-849 MHz(TX), 859-894 MHz(RX) LTE Band 38: 2570-2620 MHz(TX), 2570-2620 MHz(RX) LTE Band 41: 2535-2675 MHz MHz(TX), 2535-2675 MHz MHz(RX) WLAN (2.4G): 2412 -2462 MHz (TX&RX) WLAN (5.2G): 5150-5250MHz(TX&RX) WLAN (5.3G): 5250-5350MHz(TX&RX) WLAN (5.6G): 5470-5725MHz(TX&RX) WLAN (5.8G) : 5725-5850 MHz(TX&RX) BT: 2402 MHz-2480 MHz(TX&RX) BLE(1Mbps): 2402 MHz-2480 MHz(TX&RX) NFC:13.56MHz
Tested Model:	K1141
Dimensions (L×W×H):	194 × 82 × 56 mm(A8 Dual, A8K Dual) 194 × 79 × 56 mm(A8, A8K)
Product name:	A8 Smart Payment Terminal, A8K Smart Payment Terminal
Trademark:	KOZEN
Serial Number:	RKSA251230001-1(A8 Dual) RKSA251230001-2(A8) RKSA251230001-3(A8K Dual) RKSA251230001-4(A8K)
Test Date:	2026-01-30~2026-02-09

MODE	Max. SAR Level(s) Reported(W/kg)	Limit
GSM850	0.68 W/kg 10g Limbs SAR 0.18 W/kg 1g Body SAR	1.6 W/kg(Body) 4.0 W/kg(Limbs)
PCS1900	0.82 W/kg 10g Limbs SAR 0.10 W/kg 1g Body SAR	
WCDMA Band II	1.26 W/kg 10g Limbs SAR 0.13 W/kg 1g Body SAR	
WCDMA Band IV	1.12 W/kg 10g Limbs SAR 0.09 W/kg 1g Body SAR	
WCDMA Band V	0.29 W/kg 10g Limbs SAR 0.06 W/kg 1g Body SAR	
LTE Band 2	1.38 W/kg 10g Limbs SAR 0.16 W/kg 1g Body SAR	
LTE Band 4	1.16 W/kg 10g Limbs SAR 0.09 W/kg 1g Body SAR	
LTE Band 26&5	0.26 W/kg 10g Limbs SAR 0.07 W/kg 1g Body SAR	
LTE Band 7	1.51 W/kg 10g Limbs SAR 0.42 W/kg 1g Body SAR	
LTE Band 41&38	0.73 W/kg 10g Limbs SAR 0.17 W/kg 1g Body SAR	
2.4GHz WLAN	0.40 W/kg 10g Limbs SAR 0.10 W/kg 1g Body SAR	
5.2GHz WLAN	0.72 W/kg 10g Limbs SAR 0.37 W/kg 1g Body SAR	
5.3GHz WLAN	0.48 W/kg 10g Limbs SAR 0.30 W/kg 1g Body SAR	
5.6GHz WLAN	0.42 W/kg 10g Limbs SAR 0.13 W/kg 1g Body SAR	
5.8GHz WLAN	0.74 W/kg 10g Limbs SAR 0.27 W/kg 1g Body SAR	
Simultaneous	2.25 W/kg 10g Limbs SAR 0.79 W/kg 1g Body SAR 0.52 W/kg 1g Body SAR(hotspot)	

Applicable Standards**FCC 47 CFR part 2.1093**

Radiofrequency radiation exposure evaluation: portable devices

▲ RF Exposure Procedures: TCB Workshop April 2019**IEEE 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

KDB procedures

KDB 447498 D01 General RF Exposure Guidance v06

KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04

KDB 865664 D02 RF Exposure Reporting v01r02

KDB 941225 D01 3G SAR Procedures v03r01

KDB 941225 D05 SAR for LTE Devices v02r05

KDB 248227 D01 802.11 Wi-Fi SAR v02r02

Note: This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in **FCC 47 CFR part 2.1093** and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures.

The results and statements contained in this report pertain only to the device(s) evaluated.

All measurement and test data in this report was gathered from production sample serial number:

RKSA251230001-1, RKSA251230001-2 RKSA251230001-3, RKSA251230001-4 (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2025-12-23

Note:

We tested all the high-end prototypes of A8 Dual and A8K Dual because their antennas are different and their configurations are higher than the standard ones. The standard sample A8 has the same antenna as A8 Dual, and the A8K has the same antenna as A8K Dual. The A8 and A8K models lack the magnetic head and secondary screen in appearance, and their battery capacity is lower than that of the high-end models. Therefore, we mainly tested the high-end models and also tested the right side of the standard model sample. The worst values of top and left of the standard prototype were verified. For details, please refer to the difference statement letter.

REFERENCE, STANDARDS, AND GUIDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

SAR Limits

FCC Limit

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

Occupational/Controlled Environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg for 1g Body SAR and 4.0 W/kg for 10g Extremity SAR applied to the EUT.

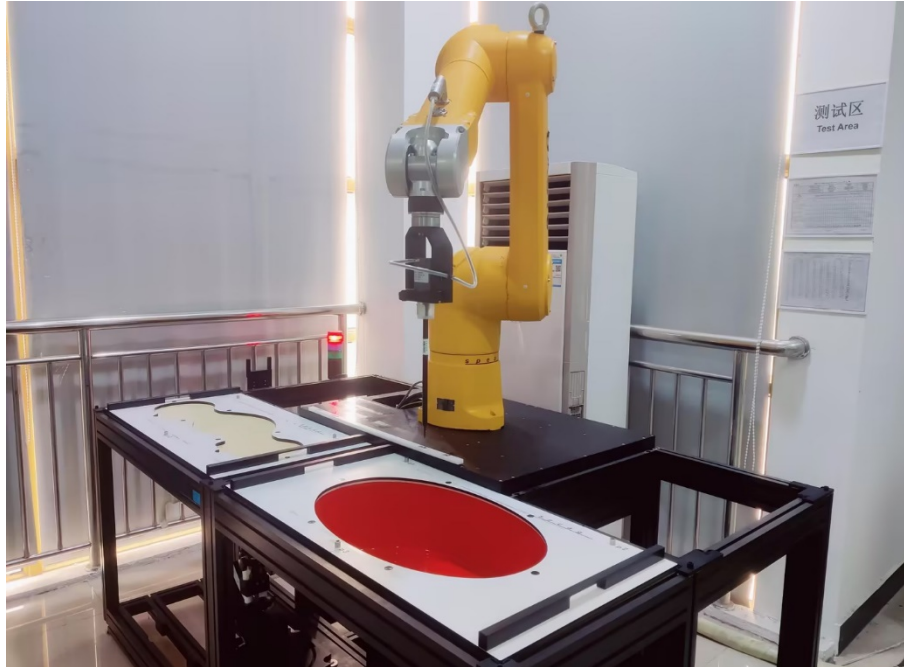
FACILITIES

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN5055.

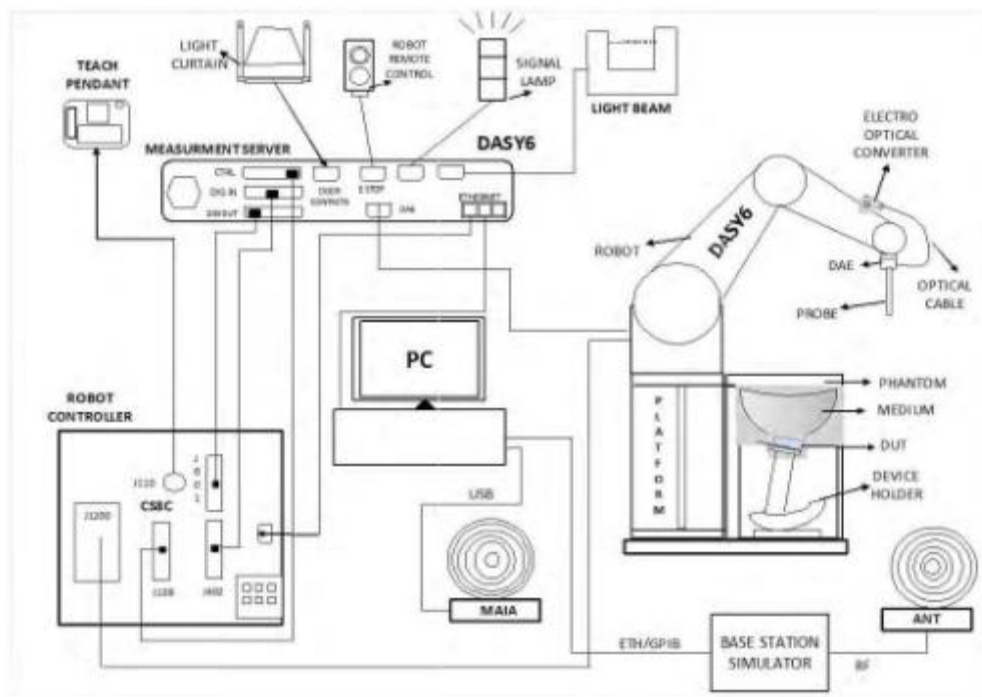
DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY6 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY6 System Description

The DASY6 system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot (Staubli TX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, 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.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

DASY6 Measurement Server

The DASY6 measurement server is based on a PC/104 CPU board with a 400 MHz Intel ULV Celeron, 128 MB chip-disk and 128 MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16-bit AD converter system for optical detection and digital I/O interface are contained on the DASY6 I/O board, which is directly connected to the PC/104 bus of the CPU board.



The measurement server performs all real-time data evaluations of field measurements and surface detection, controls robot movements, and handles safety operations. The PC operating system cannot interfere with these time-critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program- controlled robot movements. Furthermore, the measurement server is equipped with an expansion port, which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Connection of devices from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

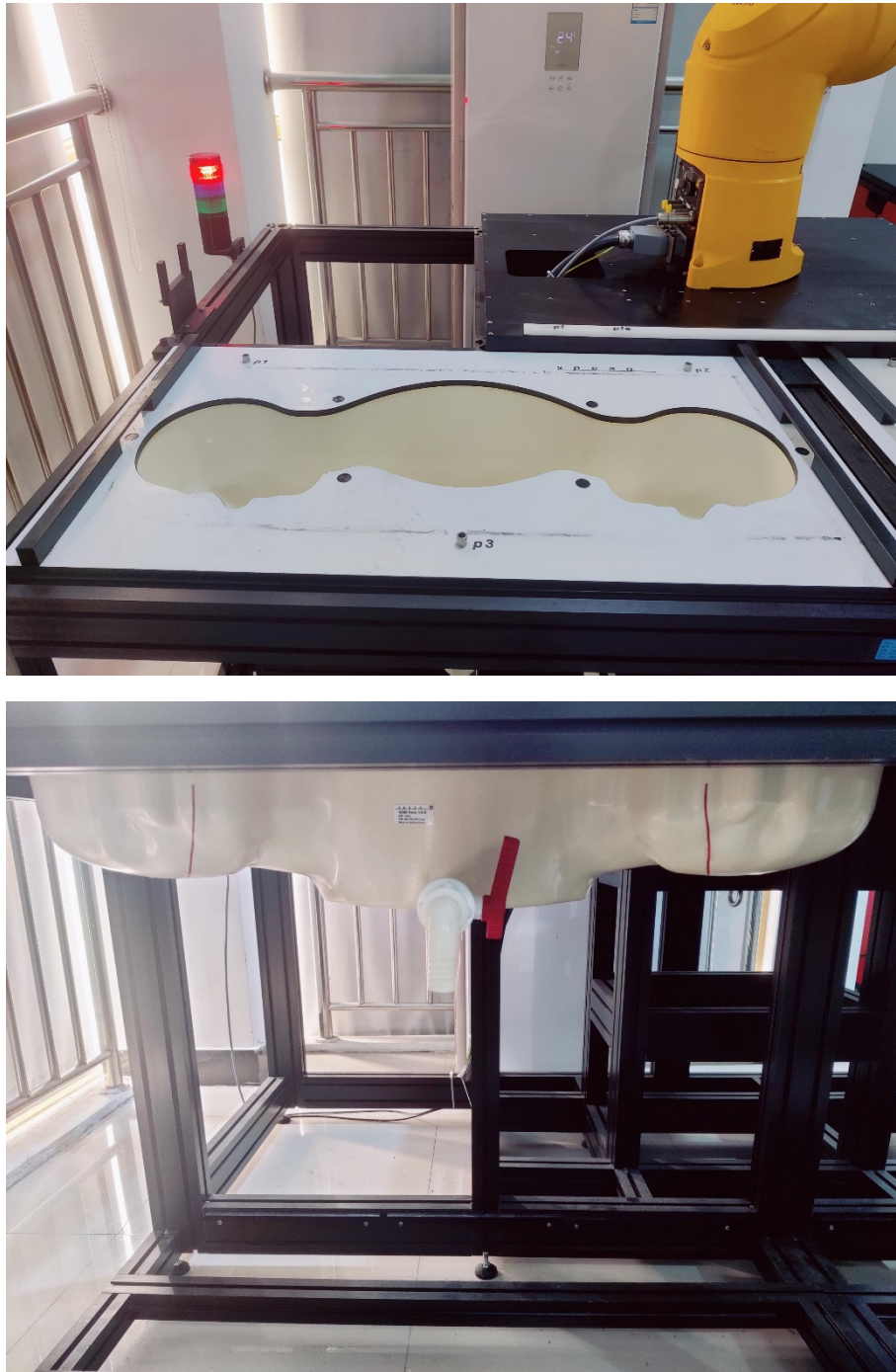
The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of both the DAE4 as well as of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

EX3DV4 E-Field Probes

Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

SAM Twin Phantom

The SAM Twin Phantom (shown in front of DASY6) is a fiberglass shell phantom with shell thickness 2 mm, except in the ear region where the thickness is increased to 6 mm. The phantom has three measurement areas: 1) Left Head, 2) Right Head, and 3) Flat Section. For larger devices, the use of the ELI-Phantom (shown behind DASY6) is required. For devices such as glasses with a wireless link, the Face Down Phantom is the most suitable (between the SAM Twin and ELI phantoms). When the phantom is mounted inside allocated slot of the DASY6 platform, phantom reference points can be taught directly in the DASY5 V5.2 software. When the DASY6 platform is used to mount the Phantom, some of the phantom teaching points cannot be reached by the robot in DASY5 V5.2. A special tool called P1a-P2aX-Former is provided to transform two of the three points, P1 and P2, to reachable locations. To use these new teaching points, a revised phantom configuration file is required.

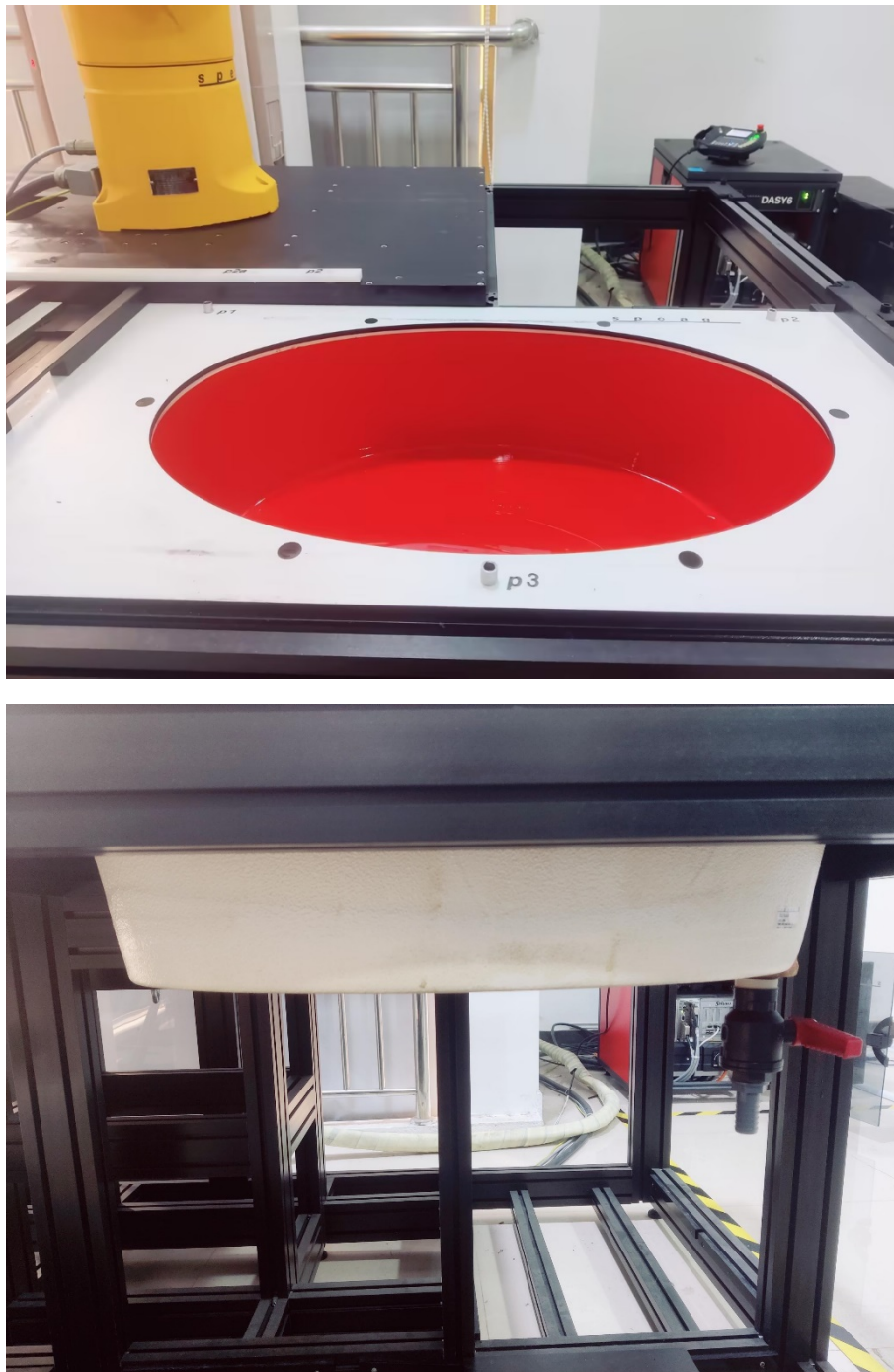
In addition to our standard broadband liquids, the phantom can be used with the following tissue simulating liquids:

Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.

DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).

Do not use other organic solvents without previously testing the solvent resistivity of the phantom.

Approximately 25 liters of liquid is required to fill the SAM Twin phantom.

ELI Phantom

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI is fully compatible with the latest draft of the standard IEEE 1528:2013 and the use of all known tissue simulating liquids. ELI has been optimized for performance and can be integrated into a SPEAG standard phantom table. A cover is provided to prevent evaporation of water and changes in liquid parameters. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points.

The phantom can be used with the following tissue simulating liquids:

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

Approximately 25 liters of liquid is required to _fill the ELI phantom.

Robots

The DASY6 system uses the high-precision industrial robots TX60L, TX90XL, and RX160L from Staubli SA (France). The TX robot family - the successor of the well-known RX robot family - continues to offer the features important for DASY6 applications:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is provided

Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10mm, with the side length of the 10g cube is 21.5mm.

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x 7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528:2013

Recommended Tissue Dielectric Parameters for Head liquid

Table 2 – Dielectric properties of the tissue-equivalent medium

Frequency MHz	Real part of the complex relative permittivity, ϵ_r'	Conductivity, σ S/m	Penetration depth (E-field), δ mm
4	55,0	0,75	293,0
13	55,0	0,75	165,5
30	55,0	0,75	112,8
150	52,3	0,76	62,0
300	45,3	0,87	46,1
450	43,5	0,87	43,0
750	41,9	0,89	39,8
835	41,5	0,90	39,0
900	41,5	0,97	36,2
1 450	40,5	1,20	28,6
1 800	40,0	1,40	24,3
1 900	40,0	1,40	24,3
1 950	40,0	1,40	24,3
2 000	40,0	1,40	24,3
2 100	39,8	1,49	22,8
2 450	39,2	1,80	18,7
2 600	39,0	1,96	17,2
3 000	38,5	2,40	14,0
3 500	37,9	2,91	11,4
4 000	37,4	3,43	10,0
4 500	36,8	3,94	9,7

Frequency MHz	Real part of the complex relative permittivity, ε'_r	Conductivity, σ S/m	Penetration depth (E-field), δ mm
<i>5 000</i>	36,2	4,45	1,5
<i>5 200</i>	36,0	4,66	8,4
<i>5 400</i>	35,8	4,86	8,1
<i>5 600</i>	35,5	5,07	7,5
<i>5 800</i>	35,3	5,27	7,3
<i>6 000</i>	35,1	5,48	7,0
<i>6 500</i>	34,5	6,07	6,7
<i>7 000</i>	33,9	6,65	6,4
<i>7 500</i>	33,3	7,24	6,1
<i>8 000</i>	32,7	7,84	5,9
<i>8 500</i>	32,1	8,46	5,3
<i>9 000</i>	31,6	9,08	4,8
<i>9 500</i>	31,0	9,71	4,4
<i>10 000</i>	30,4	10,40	4,0

NOTE For convenience, permittivity and conductivity values are linearly interpolated for frequencies that are not a part of the original data from Drossos et al. [2]. They are shown in italics in Table 2. The italicized values are linearly interpolated (below 5800 MHz) or extrapolated (above 5800 MHz) from the non-italicized values that are immediately above and below these values.

EQUIPMENT LIST AND CALIBRATION**Equipments List & Calibration Information**

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52 52.10.4.1535	N/A	N/A	N/A
DASY6 Measurement Server	DASY6 6.0.31	N/A	N/A	N/A
Data Acquisition Electronics	DAE4	527	2025/05/16	2026/05/15
E-Field Probe	EX3DV4	7557	2025/05/16	2026/05/15
Mounting Device	MD4HHTV5	SD 000 H01 KA	N/A	N/A
Twin-SAM Phantom	QD 000 P41 Ax	1963	N/A	N/A
Dipole, 835MHz	D835V2	445	2025/06/10	2028/06/09
Dipole,1750MHz	D1750V2	1140	2024/06/17	2027/06/16
Dipole,1900MHz	D1900V2	5d206	2024/06/15	2027/06/14
Dipole,2450MHz	D2450V2	970	2024/06/15	2027/06/14
Dipole,2600MHz	D2600V2	1162	2025/06/11	2028/06/10
Dipole,5GHz	D5GHzV2	1296	2025/06/10	2028/06/09
Simulated Tissue LiquidHead	HBBL600-6000V6	180611-3	Each Time	
Network Analyzer	E5071B	SG42400155	2025/04/08	2026/04/07
Dielectric Assessment Kit	DAK-3.5	SM DAK 300AB	N/A	N/A
Signal Generator	SMBV100A	261558	2025/04/08	2026/04/07
Power Amplifier	ZHL-5W-202-S+	416402204	N/A	N/A
Power Amplifier	ZVE-8G+	558401902	N/A	N/A
Directional Coupler	4242-10	3307	N/A	N/A
Attenuator	3dB	5402	N/A	N/A
Attenuator	10dB	AU 3842	N/A	N/A
Radio Communication Analyzer	MT8820C	6200930956	2025/04/08	2026/04/07
Hygrothermograph	HD-7W	202408A000201	2025/04/11	2026/04/10
Thermometer	UL-IL01	N/A	2025/04/08	2026/04/07
Power Meter	E4419B	MY41291878	2025/04/08	2026/04/07
Power Meter	E4419B	GB43312421	2025/04/08	2026/04/07

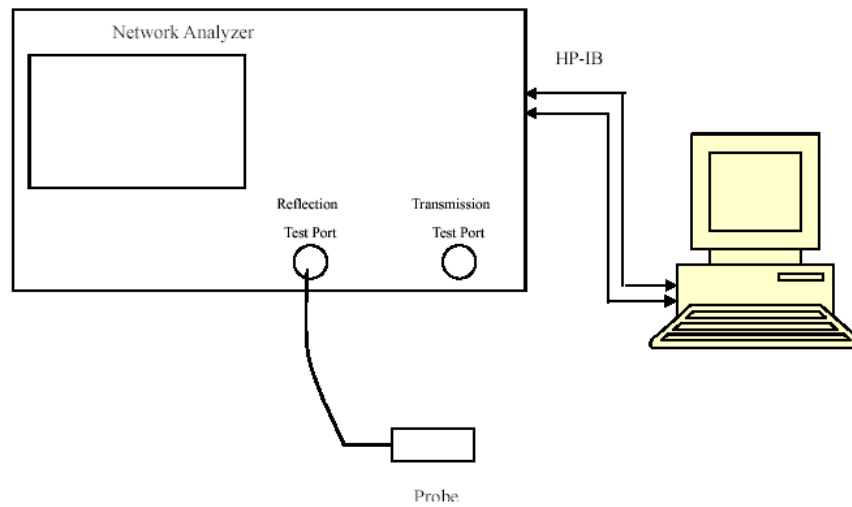
The Dipole calibration methods and procedures used were as detailed in:

FCC KDB Publication Number: “KDB865664 D01 SAR Measurement 100 MHz to 6 GHz”

1. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20 dB minimum return-loss requirement.
2. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
835	Simulated Tissue Liquid Head	0.917	42.107	0.900	41.500	1.89	1.46	± 5
836.6	Simulated Tissue Liquid Head	0.918	42.081	0.901	41.500	1.89	1.40	± 5
824.2	Simulated Tissue Liquid Head	0.906	42.241	0.898	41.512	0.89	1.76	± 5
848.8	Simulated Tissue Liquid Head	0.930	41.925	0.909	41.500	2.31	1.02	± 5
836.6	Simulated Tissue Liquid Head	0.918	42.081	0.901	41.500	1.89	1.40	± 5
826.4	Simulated Tissue Liquid Head	0.909	42.218	0.898	41.508	1.22	1.71	± 5
846.6	Simulated Tissue Liquid Head	0.929	41.953	0.907	41.500	2.43	1.09	± 5

Liquid Verification above was performed on 2026/01/30.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
835	Simulated Tissue Liquid Head	0.911	42.221	0.900	41.500	1.22	1.74	± 5
831.5	Simulated Tissue Liquid Head	0.908	42.269	0.899	41.501	1.00	1.85	± 5
821.5	Simulated Tissue Liquid Head	0.899	42.389	0.897	41.517	0.22	2.10	± 5
841.5	Simulated Tissue Liquid Head	0.917	42.130	0.903	41.500	1.55	1.52	± 5

Liquid Verification above was performed on 2026/01/31.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
1750	Simulated Tissue Liquid Head	1.345	41.140	1.370	40.100	-1.82	2.59	± 5
1732.6	Simulated Tissue Liquid Head	1.328	41.209	1.377	40.065	-3.56	2.86	± 5
1712.4	Simulated Tissue Liquid Head	1.307	41.307	1.364	40.104	-4.18	3.00	± 5
1752.6	Simulated Tissue Liquid Head	1.348	41.131	1.388	40.034	-2.88	2.74	± 5

Liquid Verification above was performed on 2026/02/01.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
1750	Simulated Tissue Liquid Head	1.371	40.977	1.370	40.100	0.07	2.19	± 5
1732.5	Simulated Tissue Liquid Head	1.354	41.058	1.377	40.065	-1.67	2.48	± 5
1720	Simulated Tissue Liquid Head	1.341	41.118	1.369	40.089	-2.05	2.57	± 5
1745	Simulated Tissue Liquid Head	1.365	40.999	1.384	40.046	-1.37	2.38	± 5

Liquid Verification above was performed on 2026/02/02.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
1900	Simulated Tissue Liquid Head	1.436	41.016	1.400	40.000	2.57	2.54	± 5
1880	Simulated Tissue Liquid Head	1.415	41.129	1.400	40.000	1.07	2.82	± 5
1850.2	Simulated Tissue Liquid Head	1.382	41.252	1.400	40.000	-1.29	3.13	± 5
1909.8	Simulated Tissue Liquid Head	1.448	40.962	1.400	40.000	3.43	2.41	± 5
1880	Simulated Tissue Liquid Head	1.415	41.129	1.400	40.000	1.07	2.82	± 5
1852.4	Simulated Tissue Liquid Head	1.385	41.243	1.400	40.000	-1.07	3.11	± 5
1907.6	Simulated Tissue Liquid Head	1.446	40.975	1.400	40.000	3.29	2.44	± 5

Liquid Verification above was performed on 2026/02/03.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
1900	Simulated Tissue Liquid Head	1.422	39.142	1.400	40.000	1.57	-2.14	± 5
1880	Simulated Tissue Liquid Head	1.402	39.232	1.400	40.000	0.14	-1.92	± 5
1860	Simulated Tissue Liquid Head	1.382	39.328	1.400	40.000	-1.29	-1.68	± 5
1900	Simulated Tissue Liquid Head	1.422	39.142	1.400	40.000	1.57	-2.14	± 5

Liquid Verification above was performed on 2026/02/04.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
2450	Simulated Tissue Liquid Head	1.868	38.907	1.800	39.200	3.78	-0.75	± 5
2437	Simulated Tissue Liquid Head	1.853	38.962	1.788	39.219	3.64	-0.66	± 5
2412	Simulated Tissue Liquid Head	1.823	39.060	1.765	39.256	3.29	-0.50	± 5
2462	Simulated Tissue Liquid Head	1.883	38.852	1.812	39.183	3.92	-0.84	± 5

Liquid Verification above was performed on 2026/02/05.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolera nce (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
2600	Simulated Tissue Liquid Head	2.054	37.679	1.960	39.000	4.80	-3.39	± 5
2535	Simulated Tissue Liquid Head	1.977	37.950	1.888	39.084	4.71	-2.90	± 5
2510	Simulated Tissue Liquid Head	1.946	38.054	1.861	39.117	4.57	-2.72	± 5
2560	Simulated Tissue Liquid Head	2.006	37.841	1.916	39.051	4.70	-3.10	± 5

Liquid Verification above was performed on 2026/02/06.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolera nce (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
2600	Simulated Tissue Liquid Head	2.052	37.814	1.960	39.000	4.69	-3.04	± 5
2605	Simulated Tissue Liquid Head	2.058	37.796	1.966	38.994	4.68	-3.07	± 5
2545	Simulated Tissue Liquid Head	1.986	38.044	1.899	39.071	4.58	-2.63	± 5
2575	Simulated Tissue Liquid Head	2.022	37.913	1.933	39.032	4.60	-2.87	± 5
2635	Simulated Tissue Liquid Head	2.091	37.657	1.998	38.956	4.65	-3.33	± 5
2665	Simulated Tissue Liquid Head	2.127	37.531	2.032	38.918	4.68	-3.56	± 5

Liquid Verification above was performed on 2026/02/07.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
5250	Simulated Tissue Liquid Head	4.829	37.101	4.710	35.900	2.53	3.35	± 5
5200	Simulated Tissue Liquid Head	4.777	37.180	4.660	36.000	2.51	3.28	± 5
5180	Simulated Tissue Liquid Head	4.758	37.214	4.639	36.020	2.57	3.31	± 5
5240	Simulated Tissue Liquid Head	4.819	37.114	4.701	35.960	2.51	3.21	± 5
5300	Simulated Tissue Liquid Head	4.882	37.037	4.760	35.900	2.56	3.17	± 5
5260	Simulated Tissue Liquid Head	4.839	37.085	4.721	35.940	2.50	3.19	± 5
5320	Simulated Tissue Liquid Head	4.900	37.003	4.780	35.880	2.51	3.13	± 5

Liquid Verification above was performed on 2026/02/08.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
5600	Simulated Tissue Liquid Head	5.196	36.571	5.070	35.500	2.49	3.02	± 5
5580	Simulated Tissue Liquid Head	5.170	36.605	5.049	35.523	2.40	3.05	± 5
5500	Simulated Tissue Liquid Head	5.086	36.726	4.965	35.650	2.44	3.02	± 5
5700	Simulated Tissue Liquid Head	5.303	36.419	5.170	35.400	2.57	2.88	± 5

Liquid Verification above was performed on 2026/02/09.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
5750	Simulated Tissue Liquid Head	5.357	36.372	5.220	35.400	2.62	2.75	± 5
5785	Simulated Tissue Liquid Head	5.390	36.312	5.255	35.315	2.57	2.82	± 5
5745	Simulated Tissue Liquid Head	5.352	36.377	5.215	35.355	2.63	2.89	± 5
5825	Simulated Tissue Liquid Head	5.440	36.250	5.296	35.275	2.72	2.76	± 5
5720	Simulated Tissue Liquid Head	5.326	36.407	5.190	35.380	2.62	2.90	± 5

Liquid Verification above was performed on 2026/02/09.

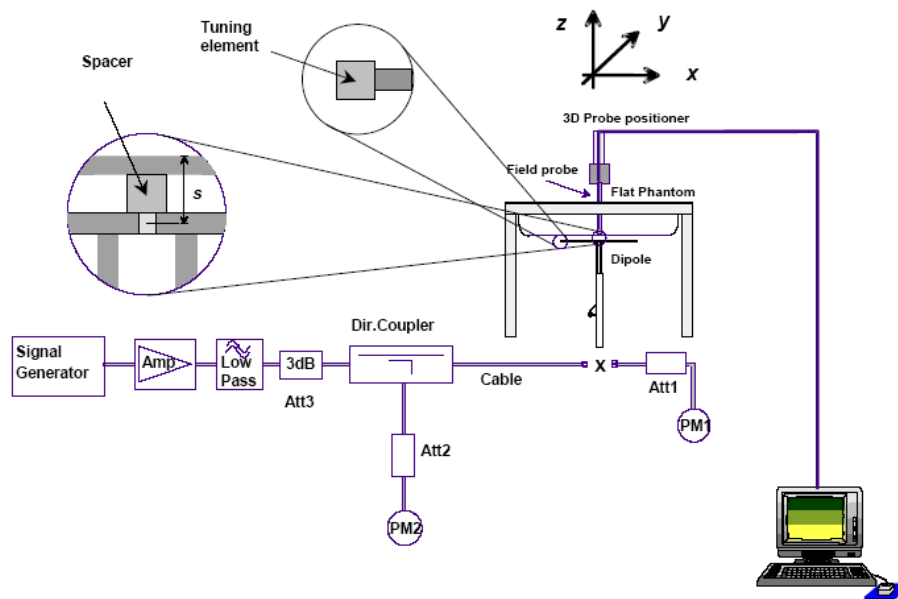
System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The spacing distances in the **System Verification Setup Block Diagram** is given by the following:

- $s = 15 \text{ mm} \pm 0,2 \text{ mm}$ for $300 \text{ MHz} \leq f \leq 1\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $1\,000 \text{ MHz} < f \leq 3\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $3\,000 \text{ MHz} < f \leq 6\,000 \text{ MHz}$.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2026/01/30	835MHz	Head	250	1g	2.41	9.64	9.50	1.47	±10
2026/01/31	835MHz	Head	250	1g	2.41	9.64	9.50	1.47	±10
2026/02/01	1750MHz	Head	250	1g	8.54	34.16	36.00	-5.11	±10
2026/02/02	1750MHz	Head	250	1g	8.80	35.2	36.00	-2.22	±10
2026/02/03	1900MHz	Head	100	1g	4.07	40.7	39.20	3.83	±10
2026/02/04	1900MHz	Head	100	1g	4.06	40.6	39.20	3.57	±10
2026/02/05	2450MHz	Head	100	1g	5.06	50.6	53.10	-4.71	±10
2026/02/06	2600MHz	Head	100	1g	5.70	57	54.60	4.40	±10
2026/02/07	2600MHz	Head	100	1g	5.66	56.6	54.60	3.66	±10
2026/02/08	5250MHz	Head	100	1g	7.90	79	78.70	0.38	±10
2026/02/09	5600MHz	Head	100	1g	8.28	82.8	81.60	1.47	±10
2026/02/09	5750MHz	Head	100	1g	7.45	74.5	78.70	-5.34	±10

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2026/01/30	835MHz	Head	250	10g	1.59	6.36	6.23	2.09	±10
2026/01/31	835MHz	Head	250	10g	1.60	6.4	6.23	2.73	±10
2026/02/01	1750MHz	Head	250	10g	4.68	18.72	19.40	-3.51	±10
2026/02/02	1750MHz	Head	250	10g	4.73	18.92	19.40	-2.47	±10
2026/02/03	1900MHz	Head	100	10g	2.14	21.4	20.60	3.88	±10
2026/02/04	1900MHz	Head	100	10g	2.13	21.3	20.60	3.40	±10
2026/02/05	2450MHz	Head	100	10g	2.39	23.9	24.90	-4.02	±10
2026/02/06	2600MHz	Head	100	10g	2.59	25.9	24.30	6.58	±10
2026/02/07	2600MHz	Head	100	10g	2.57	25.7	24.30	5.76	±10
2026/02/08	5250MHz	Head	100	10g	2.28	22.8	21.90	4.11	±10
2026/02/09	5600MHz	Head	100	10g	2.36	23.6	22.70	3.96	±10
2026/02/09	5750MHz	Head	100	10g	2.09	20.9	21.60	-3.24	±10

The SAR values above are normalized to 1 Watt forward power.

SAR SYSTEM VALIDATION DATA

System Check_Head_835MHz Test Date(2026-01-30)

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:445

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 42.107$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(9.97, 9.97, 9.97) @ 835 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=250mW/Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.50 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 56.12 V/m; Power Drift = -0.04 dB

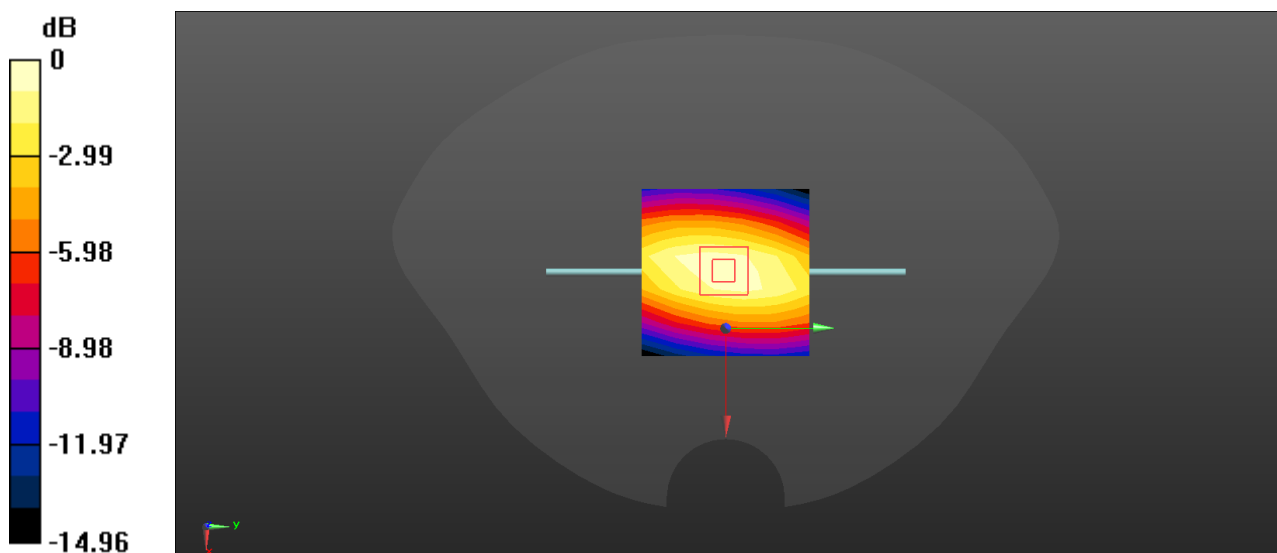
Peak SAR (extrapolated) = 3.54 W/kg

SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.59 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 68%

Maximum value of SAR (measured) = 2.81 W/kg



$$0 \text{ dB} = 2.81 \text{ W/kg} = 4.49 \text{ dBW/kg}$$

System Check_Head_835MHz Test Date(2026-01-31)

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:445

Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 42.221$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(9.97, 9.97, 9.97) @ 835 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=250mW/Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.62 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.50 V/m; Power Drift = -0.02 dB

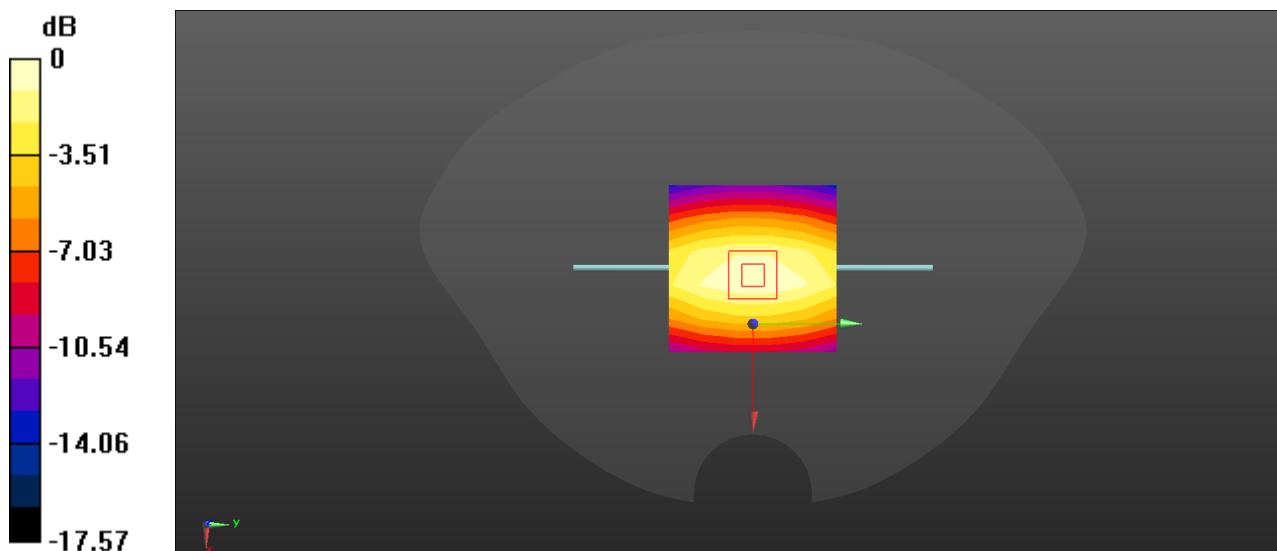
Peak SAR (extrapolated) = 3.53 W/kg

SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.6 W/kg

Smallest distance from peaks to all points 3 dB below = 21.5 mm

Ratio of SAR at M2 to SAR at M1 = 68.3%

Maximum value of SAR (measured) = 2.81 W/kg



$$0 \text{ dB} = 2.81 \text{ W/kg} = 4.49 \text{ dBW/kg}$$

System Check_Head_1750MHz Test Date(2026-02-01)

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1140

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.345$ S/m; $\epsilon_r = 41.14$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(8.34, 8.34, 8.34) @ 1750 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=250mW/Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 7.88 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 89.47 V/m; Power Drift = -0.02 dB

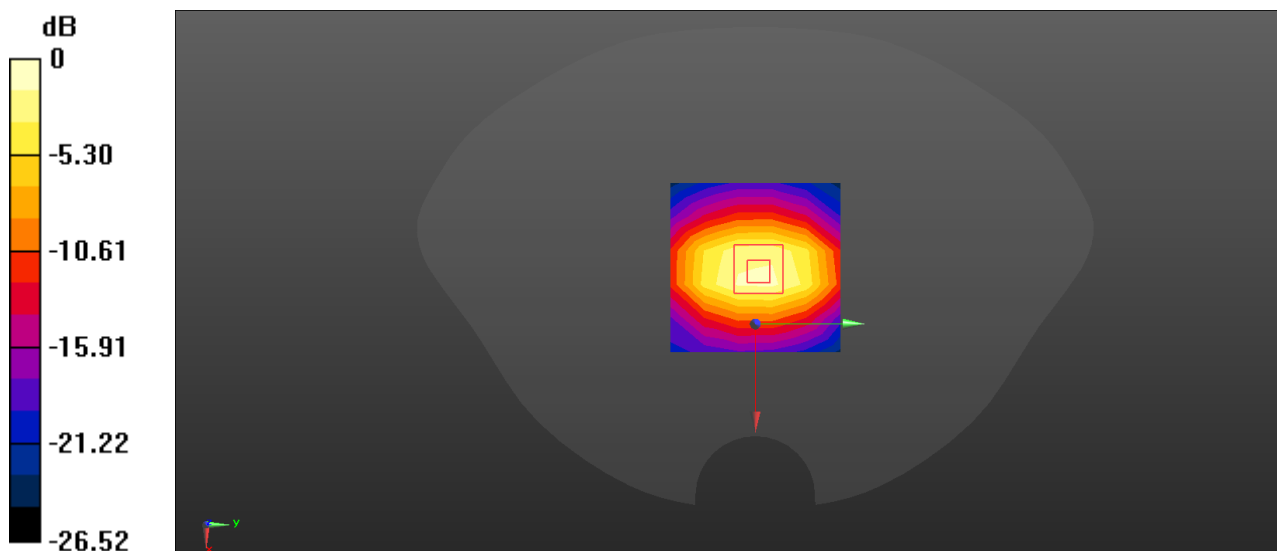
Peak SAR (extrapolated) = 14.6 W/kg

SAR(1 g) = 8.54 W/kg; SAR(10 g) = 4.68 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 59.1%

Maximum value of SAR (measured) = 10.6 W/kg



0 dB = 10.6 W/kg = 10.25 dBW/kg

System Check_Head_1750MHz Test Date(2026-02-02)

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1140

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.371$ S/m; $\epsilon_r = 40.977$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(8.34, 8.34, 8.34) @ 1750 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=250mW/Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 8.02 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 90.06 V/m; Power Drift = -0.03 dB

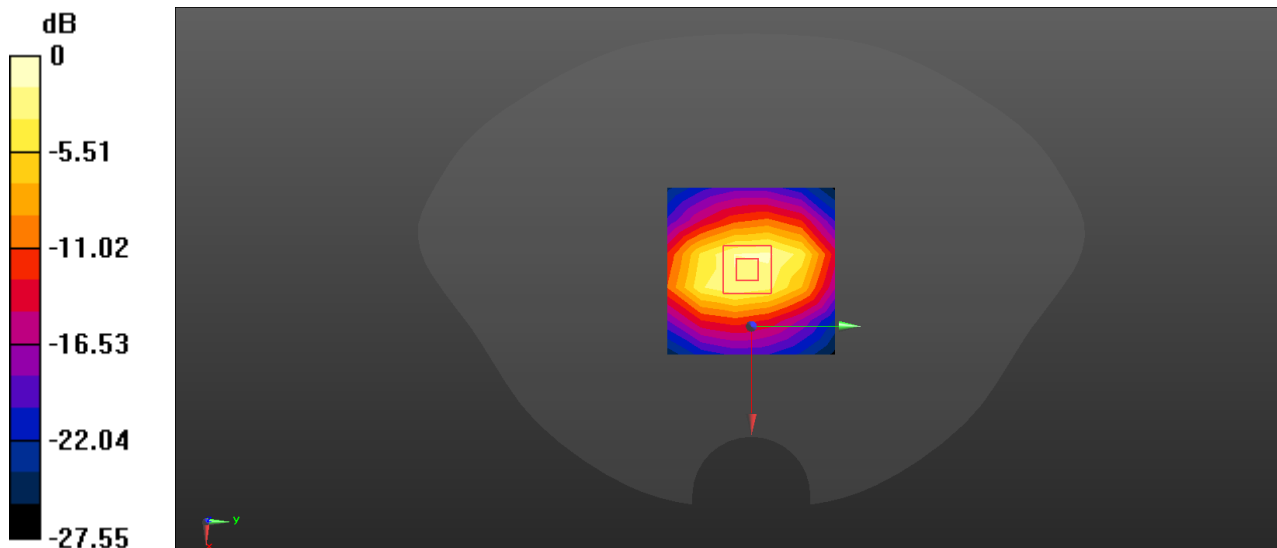
Peak SAR (extrapolated) = 15.3 W/kg

SAR(1 g) = 8.8 W/kg; SAR(10 g) = 4.73 W/kg

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 58.4%

Maximum value of SAR (measured) = 11.0 W/kg



0 dB = 11.0 W/kg = 10.41 dBW/kg

System Check_Head_1900MHz Test Date(2026-02-03)

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d206

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.436$ S/m; $\epsilon_r = 41.016$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(8.02, 8.02, 8.02) @ 1900 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.07 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 60.02 V/m; Power Drift = -0.05 dB

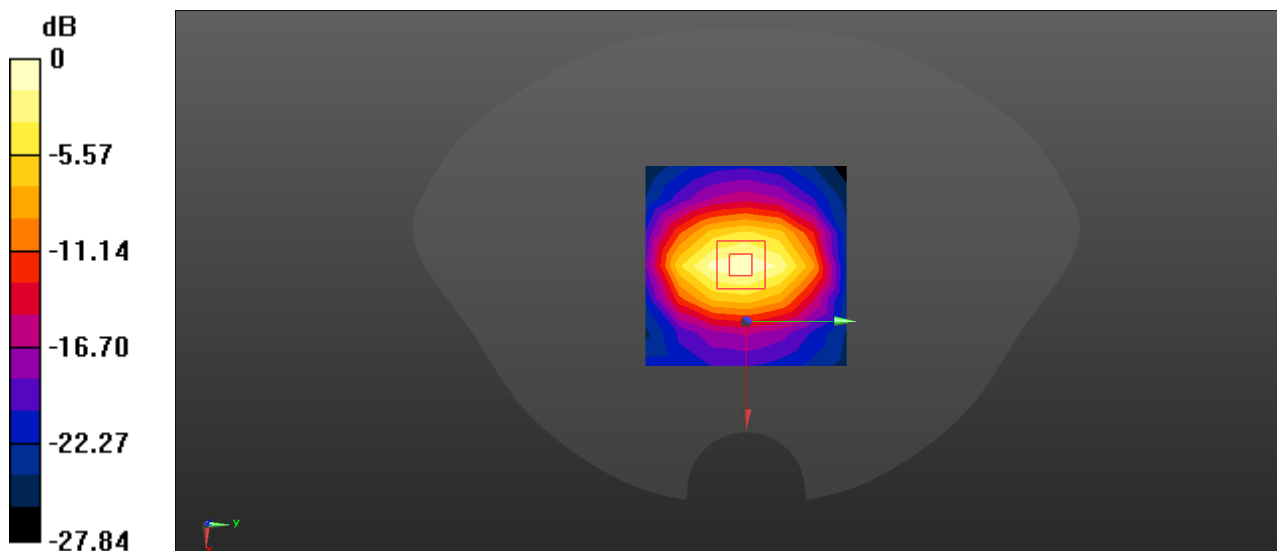
Peak SAR (extrapolated) = 7.30 W/kg

SAR(1 g) = 4.07 W/kg; SAR(10 g) = 2.14 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 5.05 W/kg



$$0 \text{ dB} = 5.05 \text{ W/kg} = 7.03 \text{ dBW/kg}$$

System Check_Head_1900MHz Test Date(2026-02-04)

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d206

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.422$ S/m; $\epsilon_r = 39.142$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(8.02, 8.02, 8.02) @ 1900 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.89 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 59.23 V/m; Power Drift = -0.09 dB

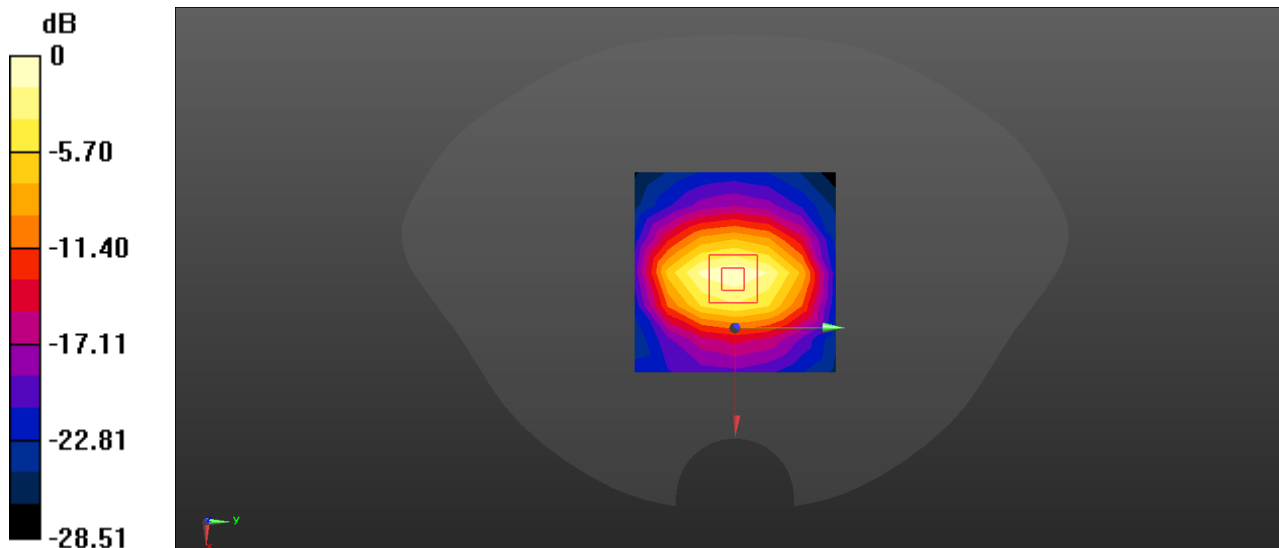
Peak SAR (extrapolated) = 7.30 W/kg

SAR(1 g) = 4.06 W/kg; SAR(10 g) = 2.13 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 5.06 W/kg



0 dB = 5.06 W/kg = 7.04 dBW/kg

System Check_Head_2450MHz

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:970

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.868$ S/m; $\epsilon_r = 38.907$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(7.43, 7.43, 7.43) @ 2450 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 5.01 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.13 V/m; Power Drift = 0.06 dB

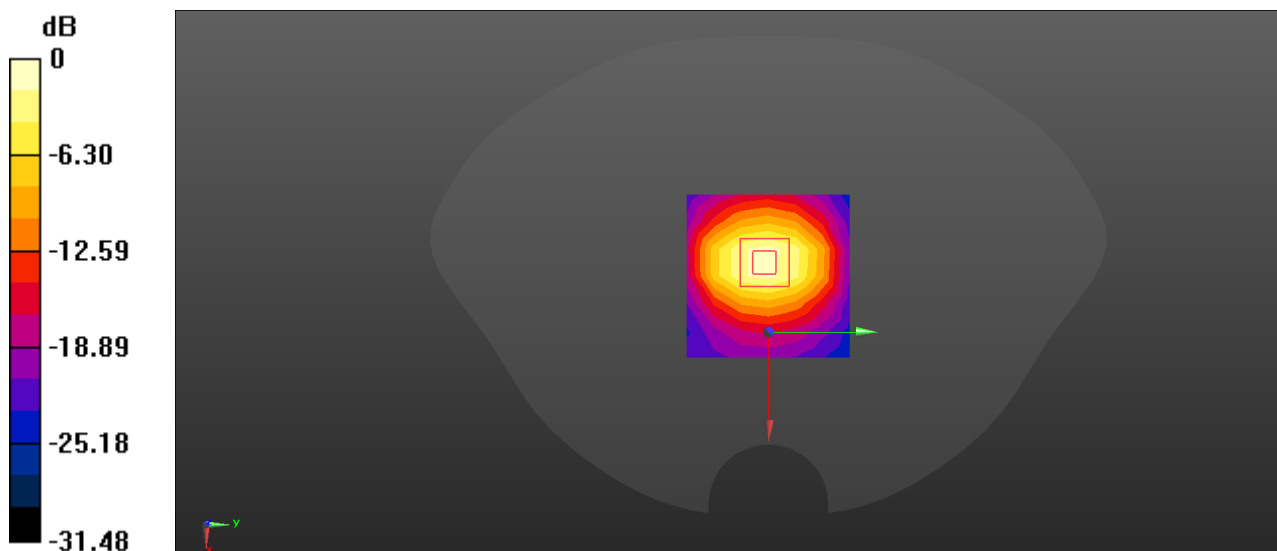
Peak SAR (extrapolated) = 10.2 W/kg

SAR(1 g) = 5.06 W/kg; SAR(10 g) = 2.39 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 50.8%

Maximum value of SAR (measured) = 6.62 W/kg



$$0 \text{ dB} = 6.62 \text{ W/kg} = 8.21 \text{ dBW/kg}$$

System Check_Head_2600MHz Test Date(2026-02-06)

DUT: D2600V2-1162; Type: D2600V2; Serial: D2600V2 - SN:1162

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.054$ S/m; $\epsilon_r = 37.679$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(7.26, 7.26, 7.26) @ 2600 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 8.14 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 65.65 V/m; Power Drift = -0.03 dB

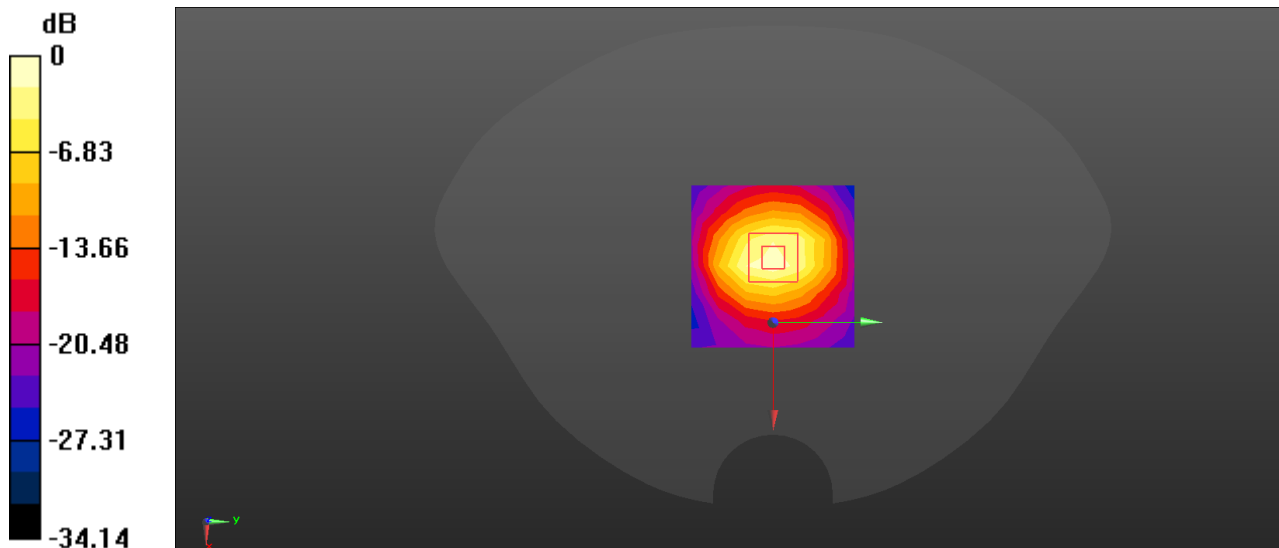
Peak SAR (extrapolated) = 12.0 W/kg

SAR(1 g) = 5.7 W/kg; SAR(10 g) = 2.59 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

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

Maximum value of SAR (measured) = 9.64 W/kg



0 dB = 9.64 W/kg = 9.84 dBW/kg

System Check_Head_2600MHz Test Date(2026-02-07)

DUT: D2600V2-1162; Type: D2600V2; Serial: D2600V2 - SN:1162

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.052$ S/m; $\epsilon_r = 37.814$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(7.26, 7.26, 7.26) @ 2600 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 7.28 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.33 V/m; Power Drift = 0.01 dB

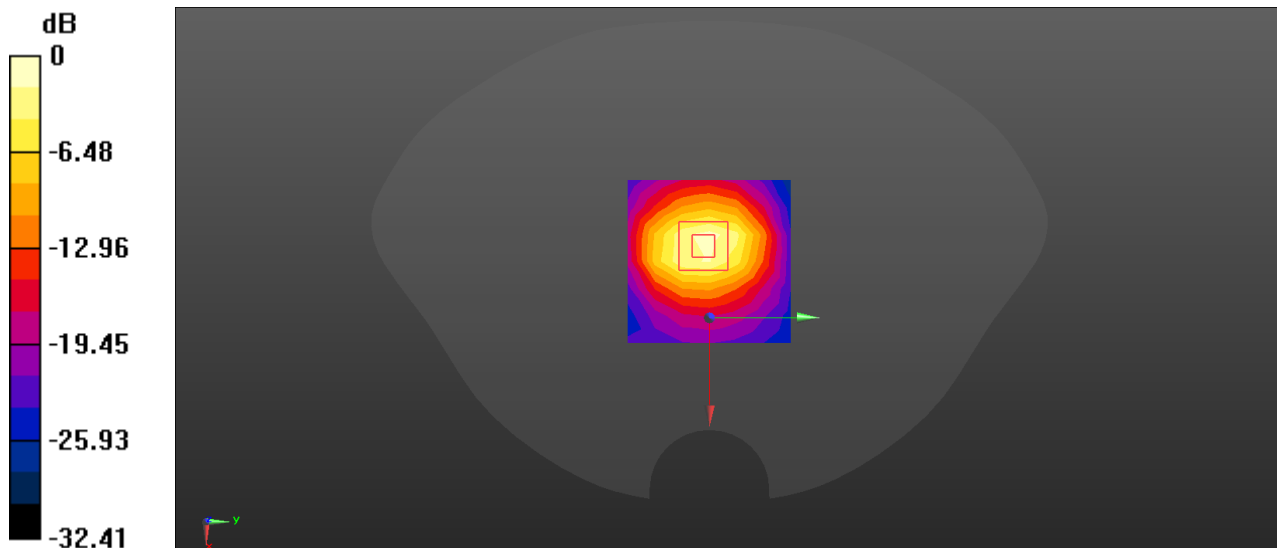
Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 5.66 W/kg; SAR(10 g) = 2.57 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 9.58 W/kg



0 dB = 9.58 W/kg = 9.81 dBW/kg

System Check_Head_5250MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1296

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.829$ S/m; $\epsilon_r = 37.101$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(5.27, 5.27, 5.27) @ 5250 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.4 W/kg

Pin=100mW/Zoom Scan (7x7x17)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 59.00 V/m; Power Drift = -0.02 dB

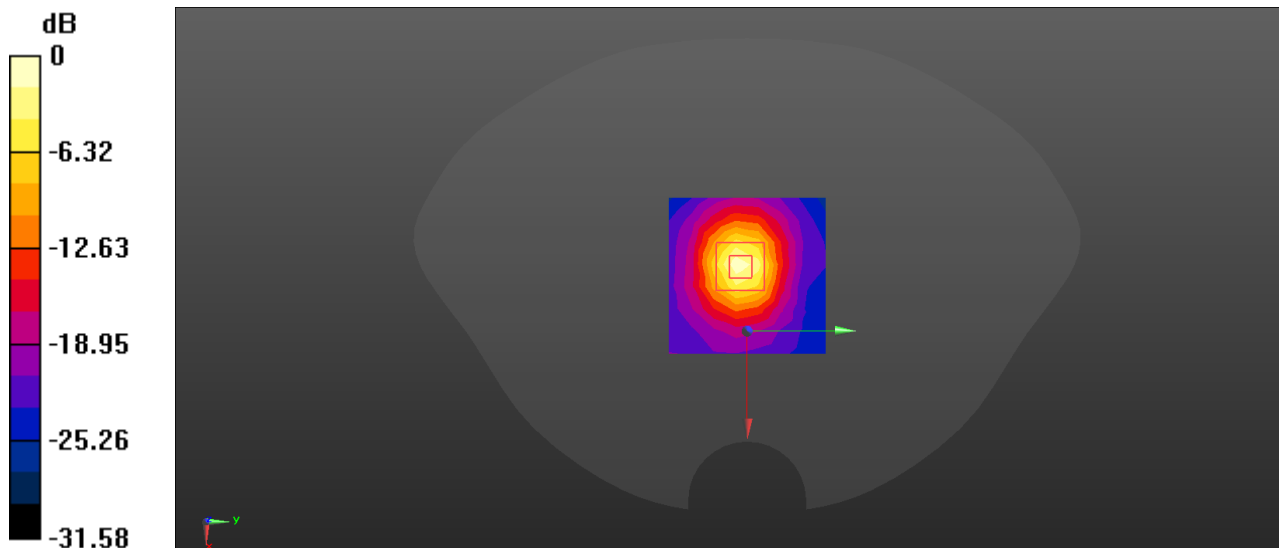
Peak SAR (extrapolated) = 30.5 W/kg

SAR(1 g) = 7.9 W/kg; SAR(10 g) = 2.28 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 66.4%

Maximum value of SAR (measured) = 12.3 W/kg



$$0 \text{ dB} = 12.3 \text{ W/kg} = 10.90 \text{ dBW/kg}$$

System Check_Head_5600MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1296

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.196$ S/m; $\epsilon_r = 36.571$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(4.67, 4.67, 4.67) @ 5600 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 10.8 W/kg

Pin=100mW/Zoom Scan (10x10x17)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 63.96 V/m; Power Drift = -0.03 dB

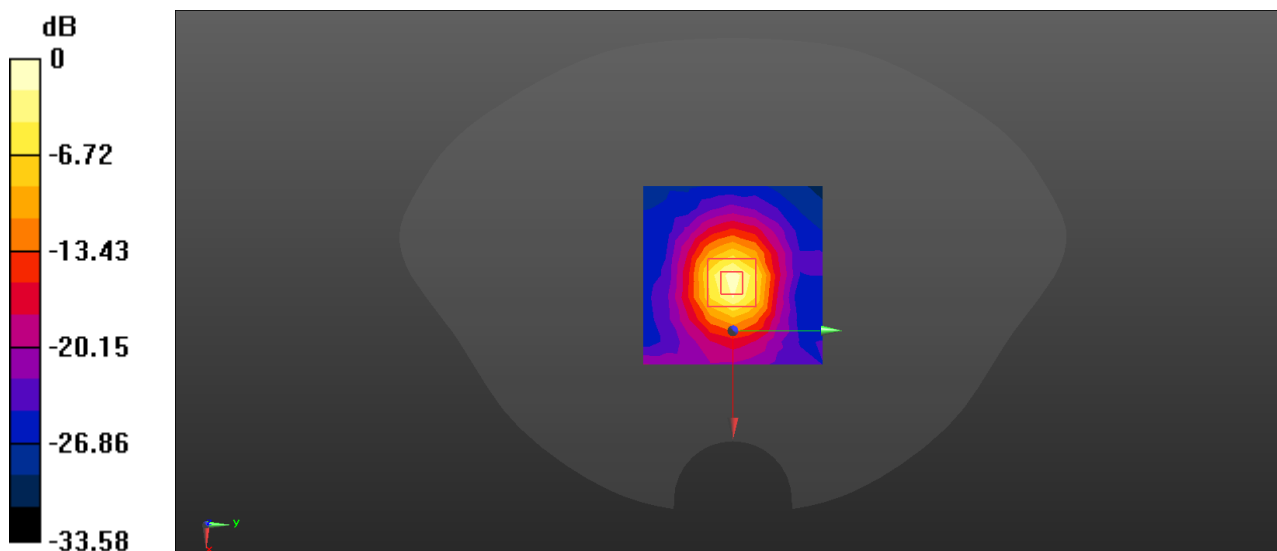
Peak SAR (extrapolated) = 35.0 W/kg

SAR(1 g) = 8.28 W/kg; SAR(10 g) = 2.36 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 64.4%

Maximum value of SAR (measured) = 12.7 W/kg



$$0 \text{ dB} = 12.7 \text{ W/kg} = 11.04 \text{ dBW/kg}$$

System Check_Head_5750MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1296

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.357$ S/m; $\epsilon_r = 36.372$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(4.76, 4.76, 4.76) @ 5750 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 15.0 W/kg

Pin=100mW/Zoom Scan (7x7x17)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 59.05 V/m; Power Drift = -0.04 dB

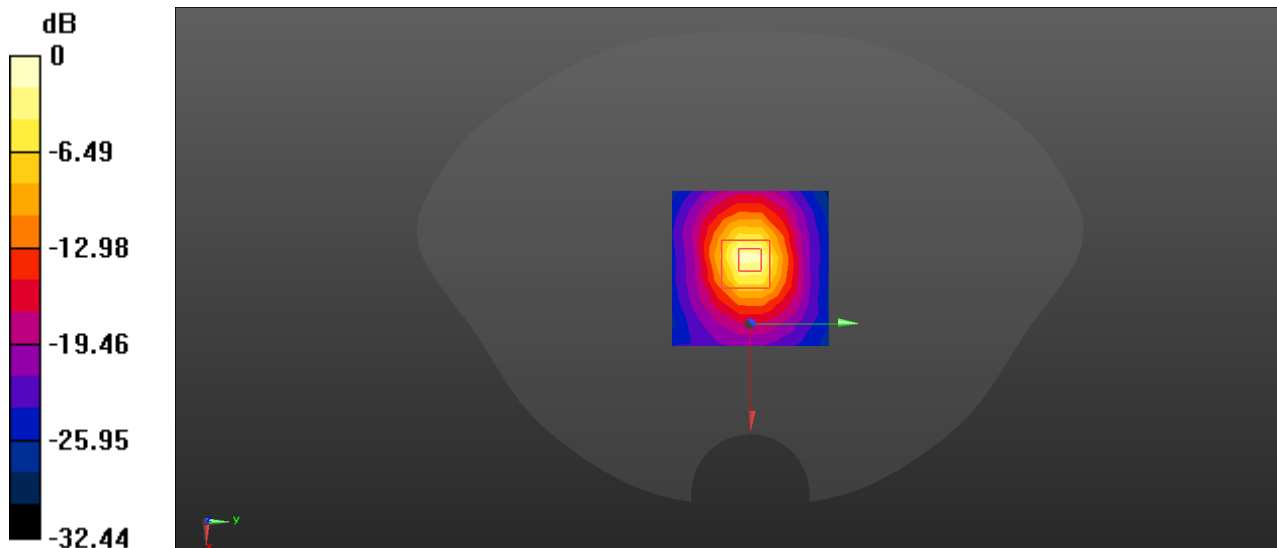
Peak SAR (extrapolated) = 32.9 W/kg

SAR(1 g) = 7.45 W/kg; SAR(10 g) = 2.09 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 61.7%

Maximum value of SAR (measured) = 19.0 W/kg

 $0 \text{ dB} = 19.0 \text{ W/kg} = 12.79 \text{ dBW/kg}$

EUT TEST STRATEGY AND METHODOLOGY

Test positions for body-worn and other configurations

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

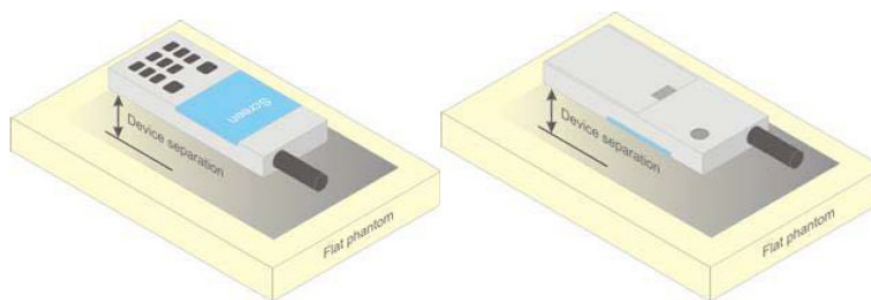


Figure 5 – Test positions for body-worn devices

Test Distance for SAR Evaluation

In this case the EUT (Equipment under Test) is set against from the phantom, the test distance is 0mm (Limbs)/10mm(Body supported)

SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.

Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.

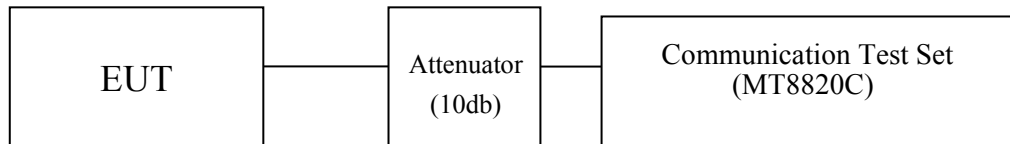
All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

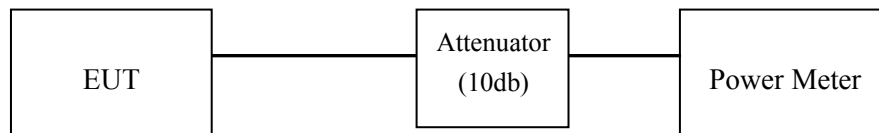
CONDUCTED OUTPUT POWER MEASUREMENT

Test Procedure

The RF output of the transmitter was connected to the input of the Communication Test Set and Power Meter through Connector.



GPRS&EGPRS&WCDMA<E



WLAN&BT&BLE

Radio Configuration

The power measurement was configured by the Wireless Communication Test Set.

GPRS/EGPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900

Press Connection control to choose the different menus

Press RESET > choose all the reset all settings

Connection Press Signal Off to turn off the signal and change settings

Network Support > GSM + GPRS or GSM + EGSM

Main Service > Packet Data

Service selection > Test Mode A – Auto Slot Config. off

MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting

> Slot configuration > Uplink/Gamma

> 33 dBm for GPRS 850

> 30 dBm for GPRS 1900

> 27 dBm for EGPRS 850

> 26 dBm for EGPRS 1900

BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel

Frequency Offset > + 0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stable)

BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off

P0 > 4 dB

Slot Config > Unchanged (if already set under MS signal)

TCH > choose desired test channel
Hopping > Off

Main Timeslot > 3
Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)
Bit Stream > 2E9-1 PSR Bit Stream
AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input
Connection Press Signal on to turn on the signal and change settings

WCDMA Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subset	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm2			
	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	$\beta_d(\text{SF})$	64			
	β_c/β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR(dB)	0	0	0.5	0.5
HSDPA Specific Settings	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	$A_{hs}=\beta_{hs}/\beta_c$	30/15			

HSUPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subset	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30/15	2/15	5/15
	β_c / β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.0	2.0	3.0	1.0
	MPR(dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	$A_{hs} = \beta_{hs} / \beta_c$	30/15				
HSUPA Specific Settings	DE-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E_FCI	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18		E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27

HSPA+

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default. Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.											

The following tests were conducted according to the test requirements in Table C.11.1.4 of 3GPP TS 34.121-1

FDD-LTE

For UE Power Class 1 and 3, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2-1 due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

For UE Power Class 1 and 3 the specific requirements and identified sub clauses are specified in Table 6.2.4-1 along with the allowed A-MPR values that may be used to meet these requirements. The allowed A-MPR values specified below in Table 6.2.4-1 to 6.2.4-15 are in addition to the allowed MPR requirements specified in sub clause 6.2.3.

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10, 15, 20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	N/A
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	
NS_11	6.6.2.2.1	23	1.4, 3, 5, 10, 15, 20	Table 6.2.4-5	
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4-6	
NS_13	6.6.3.3.6	26	5	Table 6.2.4-7	
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4-8	
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4-9 Table 6.2.4-10	
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4-11, Table 6.2.4-12, Table 6.2.4-13	
NS_17	6.6.3.3.10	28	5, 10	Table 5.6-1	N/A
NS_18	6.6.3.3.11	28	5	≥ 2	≤ 1
			10, 15, 20	≥ 1	≤ 4
NS_19	6.6.3.3.12	44	10, 15, 20	Table 6.2.4-14	
NS_20	6.2.2 6.6.2.2.1 6.6.3.2	23	5, 10, 15, 20	Table 6.2.4-15	
...					
NS_32	-	-	-	-	-

TDD-LTE

P TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

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

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	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	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations.

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

Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

We used configuration 0 for LTE Band 41/38 SAR test, that is 63.33%(1:1.58)for duty cycle.

Maximum Target Output Power**Full Power Target power**

Mode/Band	Max Target Power(dBm)		
	Channel		
	Low	Middle	High
GSM850 GPRS 1 TX	33	33	33
GSM850 GPRS 2 TX	31	31	31
GSM850 GPRS 3 TX	29	29	29
GSM850 GPRS 4 TX	27	27	27
GSM850 EGPRS 1 TX	32	32	32
GSM850 EGPRS 2 TX	30	30	30
GSM850 EGPRS 3 TX	28	28	28
GSM850 EGPRS 4 TX	25	25	25
PCS1900GPRS 1 TX	29	29	29
PCS1900GPRS 2 TX	27.5	27.5	27.5
PCS1900GPRS 3 TX	25	25	25
PCS1900GPRS 4 TX	23	23	23
PCS1900EGPRS 1 TX	28.5	28.5	28.5
PCS1900EGPRS 2 TX	26.5	26.5	26.5
PCS1900EGPRS 3 TX	24.8	24.8	24.8
PCS1900EGPRS 4 TX	22.5	22.5	22.5
WCDMA Band 2	22	22	22
WCDMA Band 4	22	22	22
WCDMA Band 5	23	23	23
LTE Band 2	24	24	24
LTE Band 4	24.5	24.5	24.5
LTE Band 26	24	24	24
LTE Band 5	24	24	24
LTE Band 7	24.5	24.5	24.5
LTE Band 38	24.5	24.5	24.5
LTE Band 41	24.5	24.5	24.5
2.4G WLAN(802.11b)	18	18	18
2.4G WLAN(802.11g)	10	10	10
2.4G WLAN(802.11n20)	9	9	9
2.4G WLAN(802.11n40)	8	8	8
5.2G WLAN(802.11a)	15	15	15
5.2G WLAN(802.11n20)	14.5	14.5	14.5
5.2G WLAN(802.11n40)	13	/	13

5.3G WLAN(802.11a)	13.5	13.5	13.5
5.3G WLAN(802.11n20)	14	14	14
5.3G WLAN(802.11n40)	11	/	11
5.8G WLAN(802.11a)	13	13	13
5.8G WLAN(802.11 n 20)	14.5	14.5	14.5
5.8G WLAN(802.11 n 40)	13	/	13
Bluetooth	6.5	6.5	6.5
BLE	-0.5	-0.5	-0.5

Full Power Target power

Max Target Power(dBm)				
Mode/Band	Channel			
	Low	Middle	Low High	High
5.6G WLAN(802.11a)	13	13	13	13
5.6G WLAN(802.11n20)	11	11	11	11
5.6G WLAN(802.11n40)	10	10	10	10

Note:

1. Channels without Max Target Power are represented by /.
2. The Maximum Target Power for LTE bands corresponds to their maximum power in QPSK modes with maximum bandwidth.

Test Results:**Maximum Output Power:****GPRS:**

Mode	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM850	128	824.2	32.19	30.81	28.57	26.38
	190	836.6	32.17	30.8	28.6	26.39
	251	848.8	32.1	30.72	28.52	26.34
PCS1900	512	1850.2	28.44	27.01	24.84	22.6
	661	1880	28.41	26.96	24.78	22.58
	810	1907.6	28.37	26.91	24.71	22.53

EGPRS:

Mode	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM850	128	824.2	31.07	29.18	27.1	24.95
	190	836.6	31.15	29.19	27.08	24.92
	251	848.8	31.12	29.14	27.02	24.85
PCS1900	512	1850.2	28.08	26.39	24.57	22.32
	661	1880	27.96	26.2	24.07	22.26
	810	1907.6	27.55	25.91	23.88	21.34

For SAR, the time based average power is relevant, the difference in between depends on the duty cycle of the TDMA signal.

Number of Time slot	1	2	3	4
Duty Cycle	1:8	1:4	1:2.66	1:2
Time based Ave. power compared to slotted Ave. power	-9 dB	-6 dB	-4.25 dB	-3 dB
Crest Factor	8	4	2.66	2

The time based average power for GPRS

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM850	128	824.2	23.19	24.81	24.32	23.38
	190	836.6	23.17	24.8	24.35	23.39
	251	848.8	23.1	24.72	24.27	23.34
PCS1900	512	1850.2	19.44	21.01	20.59	19.6
	661	1880	19.41	20.96	20.53	19.58
	810	1907.6	19.37	20.91	20.46	19.53

The time based average power for EGPRS

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM850	128	824.2	22.07	23.18	22.85	21.95
	190	836.6	22.15	23.19	22.83	21.92
	251	848.8	22.12	23.14	22.77	21.85
PCS1900	512	1850.2	19.08	20.39	20.32	19.32
	661	1880	18.96	20.2	19.82	19.26
	810	1907.6	18.55	19.91	19.63	18.34

Note:

1. Rohde & Schwarz Radio Communication Tester (MT8820C) was used for the measurement of GSM peak and average output power for active timeslots.
2. For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).
3. According to KDB941225D01-SAR for EGPRS mode are not required when the source-based time-averaged output power for data mode is lower than that in the normal GPRS mode.
4. For EGPRS, 1, 2, 3 and 4timeslots has been activated separately with power level 6(850 MHz band) and 5(1900 MHz band).

WCDMA Band 2

Test Condition	Test Mode	3GPP Sub Test	Averaged Mean Power(dBm)		
			Low Channel	Mid Channel	High Channel
Normal	Rel 99 RMC	1	21.7	21.84	21.89
	HSDPA	1	21.35	21.53	21.52
		2	21.26	21.7	21.49
		3	21.52	21.46	21.55
		4	21.56	21.48	21.45
	HSUPA	1	21.27	21.74	21.46
		2	21.25	21.63	21.87
		3	21.17	21.65	21.6
		4	21.6	21.39	21.7
		5	21.34	21.33	21.67
	HSPA+	1	21.48	21.33	21.69

WCDMA Band 4

Test Condition	Test Mode	3GPP Sub Test	Averaged Mean Power(dBm)		
			Low Channel	Mid Channel	High Channel
Normal	Rel 99 RMC	1	21.83	21.77	21.12
	HSDPA	1	21.45	21.25	21.02
		2	21.78	21.03	20.72
		3	21.61	21.16	20.66
		4	21.34	21.12	21
	HSUPA	1	21.64	21.35	20.72
		2	21.37	20.96	20.67
		3	21.71	21.34	20.75
		4	21.36	20.93	20.94
		5	21.5	20.95	21.05
	HSPA+	1	21.51	21.04	21.09

WCDMA Band 5

Test Condition	Test Mode	3GPP Sub Test	Averaged Mean Power(dBm)		
			Low Channel	Mid Channel	High Channel
Normal	Rel 99 RMC	1	22.38	22.4	22.38
	HSDPA	1	21.42	21.19	21.02
		2	21.8	21.1	21.76
		3	21.34	21.21	21.07
		4	21.71	21.27	21.65
	HSUPA	1	21.81	21.02	21.11
		2	21.38	21.23	21.02
		3	21.61	21.07	21.7
		4	21.54	21.28	21.89
		5	21.78	21.22	21.66
	HSPA+	1	21.35	21.06	21.97

Note:

- 1.The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in All 1
2. KDB 941225 D01-Body SAR is not required for HSDPA/HSUPA/ HSPA+ when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.

LTE Band 2

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	23.46	23.05	23.2
		1#3	23.55	23.22	23.32
		1#5	23.39	23.04	23.18
		3#0	23.4	23.22	23.35
		3#1	23.4	23.27	23.43
		3#3	23.33	23.23	23.38
		6#0	22.31	22.26	22.37
	16-QAM	1#0	22.68	22.03	22.13
		1#3	22.84	22.15	22.28
		1#5	22.67	22.09	22.13
		3#0	22.71	22.43	22.57
		3#1	22.73	22.51	22.6
		3#3	22.75	22.44	22.59
		6#0	21.24	21.45	21.58
3M	QPSK	1#0	23.14	23.18	23.41
		1#8	23.16	23.2	23.48
		1#14	23.19	23.2	23.47
		8#0	22.32	22.27	22.36
		8#7	22.36	22.33	22.4
		8#4	22.3	22.24	22.32
		15#0	22.3	22.26	22.34
	16-QAM	1#0	22.18	22.26	22.69
		1#8	22.09	22.23	22.69
		1#14	22.03	22.16	22.76
		8#0	21.31	21.36	21.48
		8#7	21.43	21.37	21.54
		8#4	21.29	21.31	21.44
		15#0	21.33	21.36	21.41

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.15	23.18	23.12
		1#12	23.38	23.39	23.42
		1#24	23.13	23.13	23.17
		12#0	22.33	22.25	22.39
		12#7	22.38	22.29	22.43
		12#13	22.38	22.26	22.38
		25#0	22.31	22.3	22.4
	16-QAM	1#0	22.27	22.25	22.88
		1#12	22.51	22.49	23.11
		1#24	22.23	22.21	22.85
		12#0	21.38	21.35	21.47
		12#7	21.48	21.37	21.48
		12#13	21.44	21.35	21.45
		25#0	21.35	21.33	21.52
10M	QPSK	1#0	23.15	23.25	23.45
		1#25	23.29	23.28	23.65
		1#49	23.06	23.12	23.43
		25#0	22.33	22.38	22.54
		25#12	22.37	22.34	22.41
		25#25	22.35	22.34	22.33
		50#0	22.3	22.37	22.43
	16-QAM	1#0	22.12	22.33	22.73
		1#25	22.25	22.38	22.87
		1#49	22.03	22.22	22.72
		25#12	21.52	21.49	21.5
		25#25	21.49	21.46	21.43
		50#0	21.43	21.37	21.48

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	23.4	23.19	23.44
		1#37	23.51	23.37	23.58
		1#74	23.22	23.08	23.4
		36#0	22.37	22.4	22.48
		36#20	22.4	22.35	22.45
		36#39	22.35	22.36	22.37
		75#0	22.36	22.36	22.42
	16-QAM	1#0	22.41	22.27	22.69
		1#37	22.55	22.4	22.82
		1#74	22.25	22.15	22.65
		36#0	21.34	21.43	21.48
		36#20	21.35	21.4	21.46
		36#39	21.29	21.34	21.34
		75#0	21.33	21.4	21.42
20M	QPSK	1#0	23.28	23.66	23.35
		1#49	23.25	23.28	23.29
		1#99	22.89	22.97	22.96
		50#0	22.27	23.48	22.4
		50#24	22.33	22.4	22.37
		50#50	22.22	22.42	22.13
		100#0	22.23	22.36	22.32
	16-QAM	1#0	22.45	22.84	22.48
		1#49	22.65	23.08	22.73
		1#99	22.32	22.74	22.42
		50#0	21.29	21.43	21.46
		50#24	21.34	21.44	21.44
		50#50	21.22	21.46	21.18
		100#0	21.3	21.46	21.37

LTE Band 4

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	23.8	23.59	23.87
		1#3	23.92	23.74	23.98
		1#5	23.8	23.56	23.84
		3#0	23.79	23.69	23.79
		3#1	23.78	23.79	23.83
		3#3	23.66	23.78	23.77
		6#0	22.67	22.74	22.76
	16-QAM	1#0	22.97	22.44	23.02
		1#3	23.13	22.57	23.14
		1#5	22.98	22.44	22.99
		3#0	22.98	22.88	23.01
		3#1	23.01	22.94	23.05
		3#3	22.98	22.88	23.01
		6#0	21.62	21.9	21.68
3M	QPSK	1#0	23.58	23.72	23.95
		1#8	23.63	23.72	23.96
		1#14	23.64	23.73	23.98
		8#0	22.74	22.76	22.82
		8#7	22.79	22.84	22.88
		8#4	22.75	22.77	22.8
		15#0	22.7	22.75	22.79
	16-QAM	1#0	22.47	22.64	23.11
		1#8	22.45	22.62	23.08
		1#14	22.47	22.6	23.11
		8#0	21.68	21.81	21.94
		8#7	21.74	21.83	21.9
		8#4	21.73	21.8	21.85
		15#0	21.68	21.81	21.79

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.58	23.69	23.69
		1#12	23.87	23.92	23.89
		1#24	23.59	23.7	23.68
		12#0	22.76	22.77	22.81
		12#7	22.81	22.83	22.86
		12#13	22.76	22.78	22.8
		25#0	22.75	22.77	22.77
	16-QAM	1#0	22.61	22.71	23.27
		1#12	22.89	22.92	23.52
		1#24	22.62	22.67	23.28
		12#0	21.79	21.82	21.87
		12#7	21.85	21.85	21.91
		12#13	21.83	21.78	21.87
		25#0	21.76	21.79	21.93
10M	QPSK	1#0	23.65	23.84	24.02
		1#25	23.77	23.95	24.08
		1#49	23.62	23.78	23.96
		25#0	22.81	22.87	22.88
		25#12	22.77	22.86	22.86
		25#25	22.8	22.82	22.82
		50#0	22.79	22.83	22.84
	16-QAM	1#0	22.51	22.73	23.16
		1#25	22.65	22.85	23.27
		1#49	22.48	22.66	23.08
		25#12	21.91	21.94	21.91
		25#25	21.89	21.93	21.89
		50#0	21.86	21.86	21.87

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	23.79	23.77	23.98
		1#37	23.97	23.88	24.15
		1#74	23.71	23.67	23.87
		36#0	22.87	22.9	22.93
		36#20	22.87	22.89	22.94
		36#39	22.84	22.9	22.9
		75#0	22.87	22.87	22.9
	16-QAM	1#0	22.67	22.69	23.09
		1#37	22.83	22.82	23.23
		1#74	22.62	22.55	22.96
		36#0	21.77	21.84	21.93
		36#20	21.82	21.85	21.91
		36#39	21.76	21.84	21.84
		75#0	21.79	21.84	21.88
20M	QPSK	1#0	23.89	24.16	23.87
		1#49	23.76	23.88	23.81
		1#99	23.39	23.51	23.41
		50#0	22.78	23.96	22.81
		50#24	22.78	22.82	22.85
		50#50	22.72	22.79	22.77
		100#0	22.71	22.78	22.84
	16-QAM	1#0	22.78	23.22	22.85
		1#49	22.99	23.49	23.15
		1#99	22.75	23.16	22.78
		50#0	21.75	21.85	21.88
		50#24	21.74	21.83	21.88
		50#50	21.74	21.81	21.81
		100#0	21.79	21.79	21.85

LTE Band 5

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	23.62	23.29	23.85
		1#3	23.72	23.45	23.7
		1#5	23.63	23.32	23.56
		3#0	23.54	23.51	23.54
		3#1	23.6	23.53	23.56
		3#3	23.62	23.47	23.56
		6#0	22.54	22.5	22.49
	16-QAM	1#0	22.81	22.24	22.74
		1#3	22.91	22.34	22.96
		1#5	22.81	22.23	22.77
		3#0	22.82	22.64	22.86
		3#1	22.83	22.69	22.82
		3#3	22.85	22.65	22.8
		6#0	21.44	21.71	21.43
3M	QPSK	1#0	23.36	23.44	23.66
		1#8	23.45	23.47	23.69
		1#14	23.37	23.47	23.69
		8#0	22.53	22.51	22.54
		8#7	22.53	22.58	22.59
		8#4	22.53	22.54	22.51
		15#0	22.51	22.53	22.55
	16-QAM	1#0	22.31	22.45	22.85
		1#8	22.32	22.38	22.85
		1#14	22.22	22.36	22.85
		8#0	21.5	21.56	21.59
		8#7	21.57	21.61	21.68
		8#4	21.51	21.56	21.57
		15#0	21.48	21.62	21.55

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.37	23.46	23.38
		1#12	23.64	23.65	23.62
		1#24	23.37	23.41	23.37
		12#0	22.51	22.5	22.56
		12#7	22.6	22.59	22.57
		12#13	22.52	22.51	22.54
		25#0	22.53	22.54	22.54
	16-QAM	1#0	22.42	22.45	23.05
		1#12	22.68	22.68	23.25
		1#24	22.38	22.43	22.96
		12#0	21.6	21.55	21.64
		12#7	21.69	21.63	21.65
		12#13	21.62	21.56	21.61
		25#0	21.52	21.59	21.64
10M	QPSK	1#0	23.68	23.74	23.86
		1#25	23.54	23.63	23.82
		1#49	23.39	23.52	23.66
		25#0	22.89	23.53	22.91
		25#12	22.59	22.57	22.62
		25#25	22.54	22.61	22.81
		50#0	22.56	22.62	22.55
	16-QAM	1#0	22.23	22.5	22.9
		1#25	22.43	22.58	23.01
		1#49	22.27	22.46	22.82
		25#12	21.68	21.65	21.65
		25#25	21.66	21.71	21.57
		50#0	21.64	21.66	21.6

LTE Band 7

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.47	23.63	23.78
		1#12	23.75	23.91	24.01
		1#24	23.5	23.7	23.8
		12#0	22.59	22.75	22.97
		12#7	22.64	22.83	22.99
		12#13	22.56	22.78	22.93
		25#0	22.56	22.77	22.97
	16-QAM	1#0	22.46	23.28	22.83
		1#12	22.72	23.51	23.03
		1#24	22.46	23.3	22.84
		12#0	21.58	21.87	22.04
		12#7	21.64	21.9	22.04
		12#13	21.57	21.81	21.91
		25#0	21.57	21.91	21.94
10M	QPSK	1#0	23.39	23.7	24.13
		1#25	23.57	23.82	24.22
		1#49	23.43	23.73	24.1
		25#0	22.6	22.8	23.09
		25#12	22.6	22.8	22.99
		25#25	22.58	22.86	22.91
		50#0	22.59	22.8	23.02
	16-QAM	1#0	22.22	22.65	23.31
		1#25	22.39	22.78	23.4
		1#49	22.24	22.66	23.11
		25#12	21.75	21.9	22.01
		25#25	21.68	21.99	21.96
		50#0	21.66	21.84	22.04

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	23.51	23.58	23.98
		1#37	23.74	23.83	24.17
		1#74	23.48	23.59	23.97
		36#0	22.66	22.81	23.03
		36#20	22.64	22.84	23.02
		36#39	22.62	22.8	22.93
		75#0	22.65	22.79	22.94
	16-QAM	1#0	22.38	22.54	22.99
		1#37	22.53	22.77	23.34
		1#74	22.38	22.59	22.97
		36#0	21.57	21.76	21.87
		36#20	21.56	21.8	22
		36#39	21.49	21.82	21.86
		75#0	21.55	21.72	21.99
20M	QPSK	1#0	23.87	24.15	24.23
		1#49	23.43	23.69	23.86
		1#99	23.17	23.5	23.15
		50#0	23.59	23.98	23.62
		50#24	22.53	22.76	22.83
		50#50	22.56	22.78	22.6
		100#0	22.52	22.75	22.6
	16-QAM	1#0	22.45	23.12	22.58
		1#49	22.76	23.42	23.07
		1#99	22.53	23.13	22.47
		50#0	21.59	21.7	21.82
		50#24	21.55	21.78	21.92
		50#50	21.49	21.85	21.77
		100#0	21.57	21.78	21.42

LTE Band 26

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	23.47	23.49	23.76
		1#3	23.57	23.66	23.8
		1#5	23.46	23.46	23.54
		3#0	23.7	23.67	23.29
		3#1	23.71	23.71	23.31
		3#3	23.69	23.64	23.21
		6#0	22.65	22.58	22.19
	16-QAM	1#0	22.39	22.39	22.44
		1#3	22.49	22.57	22.64
		1#5	22.37	22.42	22.45
		3#0	22.81	22.77	22.49
		3#1	22.83	22.85	22.52
		3#3	22.8	22.81	22.54
		6#0	21.84	21.83	21.07
3M	QPSK	1#0	23.54	23.62	23.81
		1#8	23.53	23.58	23.62
		1#14	23.49	23.64	23.85
		8#0	22.65	22.66	22.29
		8#7	22.67	22.68	22.31
		8#4	22.59	22.64	22.25
		15#0	22.65	22.67	22.31
	16-QAM	1#0	22.52	22.6	22.61
		1#8	22.4	22.54	22.56
		1#14	22.35	22.51	22.62
		8#0	21.65	21.71	21.44
		8#7	21.67	21.73	21.52
		8#4	21.62	21.68	21.24
		15#0	21.65	21.76	21.28

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.55	23.58	23.56
		1#12	23.76	23.79	23.75
		1#24	23.51	23.57	23.39
		12#0	22.67	22.65	22.5
		12#7	22.7	22.73	22.34
		12#13	22.61	22.61	22.3
		25#0	22.63	22.62	22.3
	16-QAM	1#0	22.61	22.6	22.9
		1#12	22.79	22.86	23.03
		1#24	22.59	22.57	22.75
		12#0	21.72	21.66	21.3
		12#7	21.77	21.74	21.49
		12#13	21.71	21.65	21.39
		25#0	21.66	21.65	21.55
10M	QPSK	1#0	23.56	23.61	23.85
		1#25	23.68	23.75	23.93
		1#49	23.51	23.67	23.39
		25#0	22.74	22.69	22.23
		25#12	22.69	22.75	22.3
		25#25	22.67	22.66	22.31
		50#0	22.73	22.71	22.34
	16-QAM	1#0	22.48	22.6	22.55
		1#25	22.51	22.7	22.78
		1#49	22.41	22.55	22.53
		25#12	21.81	21.8	21.45
		25#25	21.76	21.75	21.26
		50#0	21.76	21.72	21.34

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	23.94	23.89	23.78
		1#37	23.86	23.87	23.46
		1#74	23.62	23.49	23.03
		36#0	23.72	23.62	23.64
		36#20	22.73	22.58	22.54
		36#39	22.69	22.63	22.69
		75#0	22.75	22.53	22.6
	16-QAM	1#0	22.69	22.57	22.1
		1#37	22.82	22.75	22.25
		1#74	22.55	22.41	22
		36#0	21.73	21.43	21.26
		36#20	21.69	21.7	21.3
		36#39	21.63	21.62	21.3
		75#0	21.68	21.68	21.45

LTE Band 38

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.77	23.78	23.83
		1#12	23.84	23.78	23.89
		1#24	23.76	23.73	23.84
		12#0	22.78	22.91	22.89
		12#7	22.88	22.92	22.94
		12#13	22.75	22.89	22.87
		25#0	22.81	22.88	22.88
	16-QAM	1#0	22.8	22.81	22.79
		1#12	22.9	22.81	22.87
		1#24	22.77	22.74	22.81
		12#0	21.79	21.86	21.78
		12#7	21.87	21.83	21.87
		12#13	21.8	21.83	21.78
		25#0	21.76	21.86	21.97
10M	QPSK	1#0	23.82	23.88	23.92
		1#25	24.01	23.99	24
		1#49	23.78	23.81	23.8
		25#0	22.88	22.99	22.98
		25#12	22.83	22.99	22.92
		25#25	22.8	22.91	22.91
		50#0	22.82	22.97	22.91
	16-QAM	1#0	22.79	22.72	23.02
		1#25	22.91	22.79	23.07
		1#49	22.7	22.65	22.87
		25#12	21.81	21.88	21.91
		25#25	21.78	21.87	21.91
		50#0	21.92	22.01	21.96

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	23.77	23.71	23.82
		1#37	23.75	23.65	23.77
		1#74	23.75	23.65	23.68
		36#0	22.85	22.93	23.05
		36#20	22.82	23.02	23.01
		36#39	22.83	22.91	22.91
		75#0	22.81	22.93	22.96
	16-QAM	1#0	22.94	22.59	22.95
		1#37	22.88	22.57	22.85
		1#74	22.85	22.46	22.8
		36#0	21.88	21.96	21.91
		36#20	21.87	22.03	21.85
		36#39	21.85	21.92	21.76
		75#0	21.79	21.89	21.9
20M	QPSK	1#0	24	24.32	24.14
		1#49	24.18	24.28	24.31
		1#99	23.66	23.69	23.63
		50#0	23.78	23.89	23.89
		50#24	22.81	22.93	22.88
		50#50	22.82	22.86	22.83
		100#0	22.81	22.85	22.87
	16-QAM	1#0	22.55	22.71	22.57
		1#49	23.02	23.24	23.05
		1#99	22.5	22.66	22.48
		50#0	21.81	21.91	21.86
		50#24	21.81	21.96	21.89
		50#50	21.82	21.83	21.82
		100#0	21.83	21.85	21.86

LTE Band 41

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	2575.0 MHz (dBm)	Middle Channel (dBm)	2635.0 MHz (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.54	23.42	23.92	23.49	23.47
		1#12	23.54	23.42	23.88	23.49	23.47
		1#24	23.54	23.4	23.81	23.49	23.45
		12#0	22.54	22.5	22.86	22.49	22.55
		12#7	22.61	22.55	22.94	22.56	22.6
		12#13	22.55	22.49	22.84	22.5	22.54
		25#0	22.54	22.51	22.84	22.49	22.56
	16-QAM	1#0	22.49	22.46	22.96	22.44	22.51
		1#12	22.51	22.38	22.94	22.46	22.43
		1#24	22.48	22.38	22.87	22.43	22.43
		12#0	21.41	21.44	21.9	21.36	21.49
		12#7	21.53	21.48	21.94	21.48	21.53
		12#13	21.43	21.37	21.86	21.38	21.42
		25#0	21.62	21.47	21.84	21.57	21.52
10M	QPSK	1#0	23.54	23.53	24.02	23.49	23.58
		1#25	23.69	23.63	24.13	23.64	23.68
		1#49	23.59	23.43	23.95	23.54	23.48
		25#0	22.63	22.63	23.03	22.58	22.68
		25#12	22.59	22.53	22.88	22.54	22.58
		25#25	22.62	22.47	22.92	22.57	22.52
		50#0	22.66	22.56	22.94	22.61	22.61
	16-QAM	1#0	22.63	22.37	22.93	22.58	22.42
		1#25	22.76	22.44	23.03	22.71	22.49
		1#49	22.6	22.27	22.86	22.55	22.32
		25#12	21.58	21.44	21.89	21.53	21.49
		25#25	21.62	21.42	21.94	21.57	21.47
		50#0	21.67	21.56	21.99	21.62	21.61

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	2575.0 MHz (dBm)	Middle Channel (dBm)	2635.0 MHz (dBm)	High Channel (dBm)
15M	QPSK	1#0	23.48	23.47	23.94	23.43	23.52
		1#37	23.46	23.37	23.88	23.41	23.42
		1#74	23.51	23.34	23.86	23.46	23.39
		36#0	22.63	22.67	22.99	22.58	22.72
		36#20	22.72	22.63	22.96	22.67	22.68
		36#39	22.68	22.55	22.94	22.63	22.6
		75#0	22.63	22.61	22.97	22.58	22.66
	16-QAM	1#0	22.57	22.33	23.08	22.52	22.38
		1#37	22.49	22.22	22.98	22.44	22.27
		1#74	22.58	22.2	22.91	22.53	22.25
		36#0	21.47	21.65	22.02	21.42	21.7
		36#20	21.53	21.63	21.98	21.48	21.68
		36#39	21.53	21.57	21.94	21.48	21.62
		75#0	21.61	21.54	21.87	21.56	21.59
20M	QPSK	1#0	23.98	23.96	24.41	23.93	24.01
		1#49	23.97	23.95	24.4	23.92	24
		1#99	23.48	23.32	23.78	23.43	23.37
		50#0	23.62	23.7	23.98	23.57	23.75
		50#24	22.65	22.6	22.94	22.6	22.65
		50#50	22.63	22.58	22.94	22.58	22.63
		100#0	22.62	22.66	22.87	22.57	22.71
	16-QAM	1#0	22.26	22.53	22.72	22.21	22.58
		1#49	22.79	22.96	23.19	22.74	23.01
		1#99	22.33	22.3	22.58	22.28	22.35
		50#0	21.6	21.67	21.93	21.55	21.72
		50#24	21.62	21.59	21.97	21.57	21.64
		50#50	21.61	21.47	21.96	21.56	21.52
		100#0	21.63	21.56	21.93	21.58	21.61

WLAN 2.4G:

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	Conducted Average Output Power(dBm)
802.11b	2412	1Mbps	99.45	17.83
	2437			17.87
	2462			17.58
802.11g	2412	6Mbps	/	9.69
	2437			8.67
	2462			8.74
802.11n 20	2412	MCS0	/	8.71
	2437			8.63
	2462			8.48
802.11n 40	2422	MCS0	/	7.75
	2437			7.78
	2452			7.73

Note:

The test data and plots of duty cycle, please refer to the radio report: RKSA251230001-00B, which was issued by Bay Area Compliance Laboratories Corp. (KunShan).

WLAN 5.2G:

Test mode	Band	Frequency (MHz)	Duty cycle (%)	Average Conducted Output Power (dBm)
802.11a	5150-5250 MHz	5180	96.8	14.34
		5200		14.35
		5240		13.28
802.11n20	5150-5250 MHz	5180	/	14.25
		5200		14.19
		5240		13.75
802.11n40	5150-5250 MHz	5190	/	12.65
		5230		12.56

Note:

1. The test data and plots of duty cycle, please refer to the radio report: RKSA251230001-00E, which was issued by Bay Area Compliance Laboratories Corp. (KunShan).

WLAN 5.3G:

Test mode	Band	Frequency (MHz)	Duty cycle (%)	Average Conducted Output Power (dBm)
802.11a	5250-5350 MHz	5260	/	13.21
		5300		13.32
		5320		13.44
802.11n20	5250-5350 MHz	5260	96.58	13.57
		5300		13.65
		5320		13.75
802.11n40	5250-5350 MHz	5270	/	10.41
		5310		10.47

Note:

1.The test data and plots of duty cycle, please refer to the radio report: RKSA251230001-00E, which was issued by Bay Area Compliance Laboratories Corp. (KunShan).

WLAN 5.6G:

Test mode	Band	Frequency (MHz)	Duty cycle (%)	Average Conducted Output Power (dBm)
802.11a	5470-5725 MHz	5500	96.8	12.74
		5580		12.69
		5700		12.26
		5720		11.47
802.11n20	5470-5725 MHz	5500	/	10.66
		5580		10.75
		5700		10.53
		5720		9.72
802.11n40	5470-5725 MHz	5510	/	9.51
		5550		9.83
		5670		9.72
		5710		9.22

Note:

1.The test data and plots of duty cycle, please refer to the radio report: RKSA251230001-00E, which was issued by Bay Area Compliance Laboratories Corp. (KunShan).

WLAN 5.8G:

Test mode	Band	Frequency (MHz)	Duty cycle (%)	Average Conducted Output Power (dBm)
802.11a	5725-5850 MHz	5745	/	12.87
		5785		12.41
		5825		12.29
802.11n20	5725-5850 MHz	5745	96.58	14.11
		5785		13.98
		5825		13.87
802.11n40	5725-5850 MHz	5755	/	12.4
		5795		12.08

Note:

1. The test data and plots of duty cycle, please refer to the radio report: RKSA251230001-00E, which was issued by Bay Area Compliance Laboratories Corp. (KunShan).

Bluetooth:

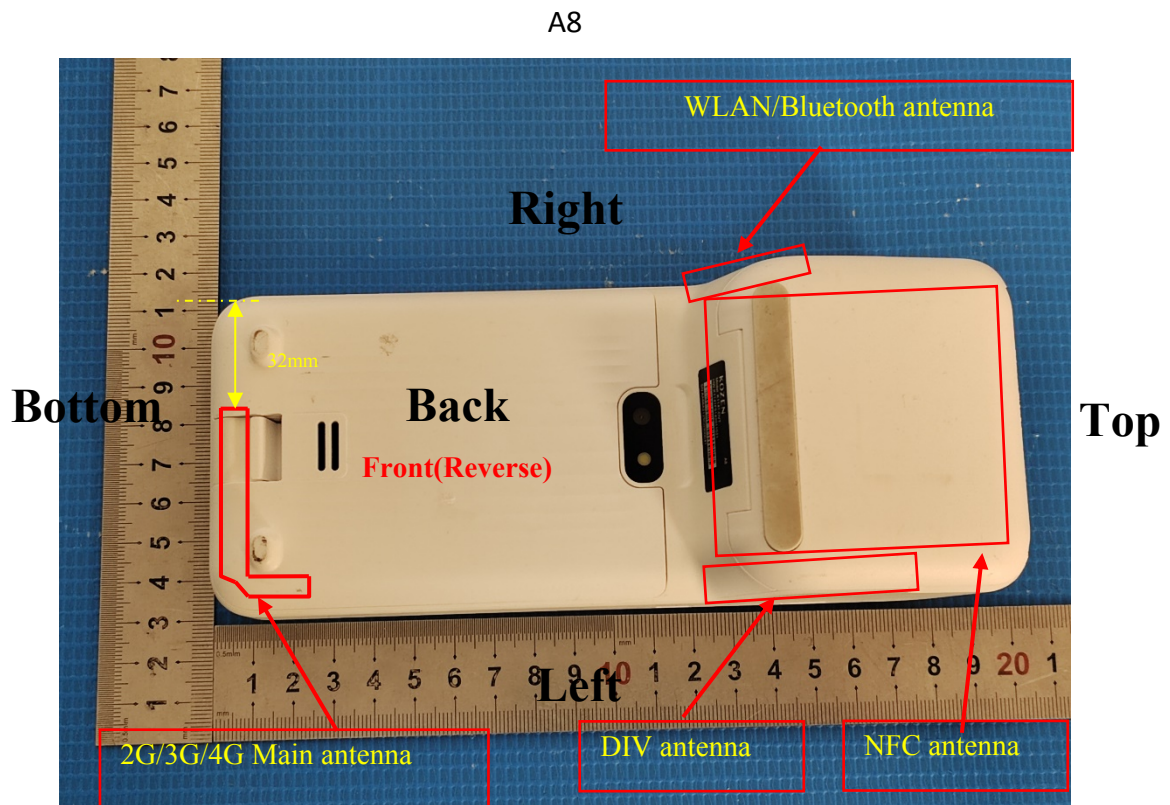
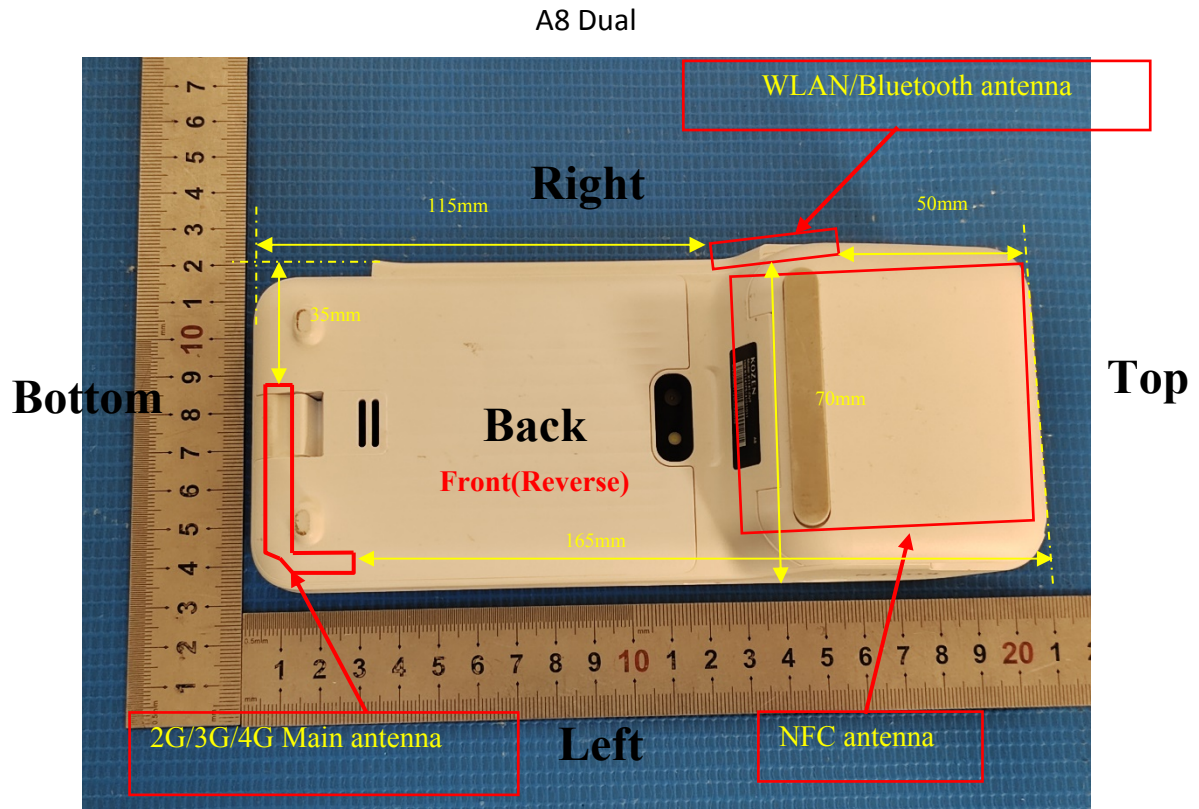
Mode	Channel frequency (MHz)	Duty cycle (%)	Max Conducted Peak Output Power (dBm)
BDR(GFSK)	2402	/	5.95
	2441		6.01
	2480		6.16
EDR($\pi/4$ -DQPSK)	2402	/	5.71
	2441		5.3
	2480		5.44
EDR(8DPSK)	2402	/	5.32
	2441		5.39
	2480		5.52

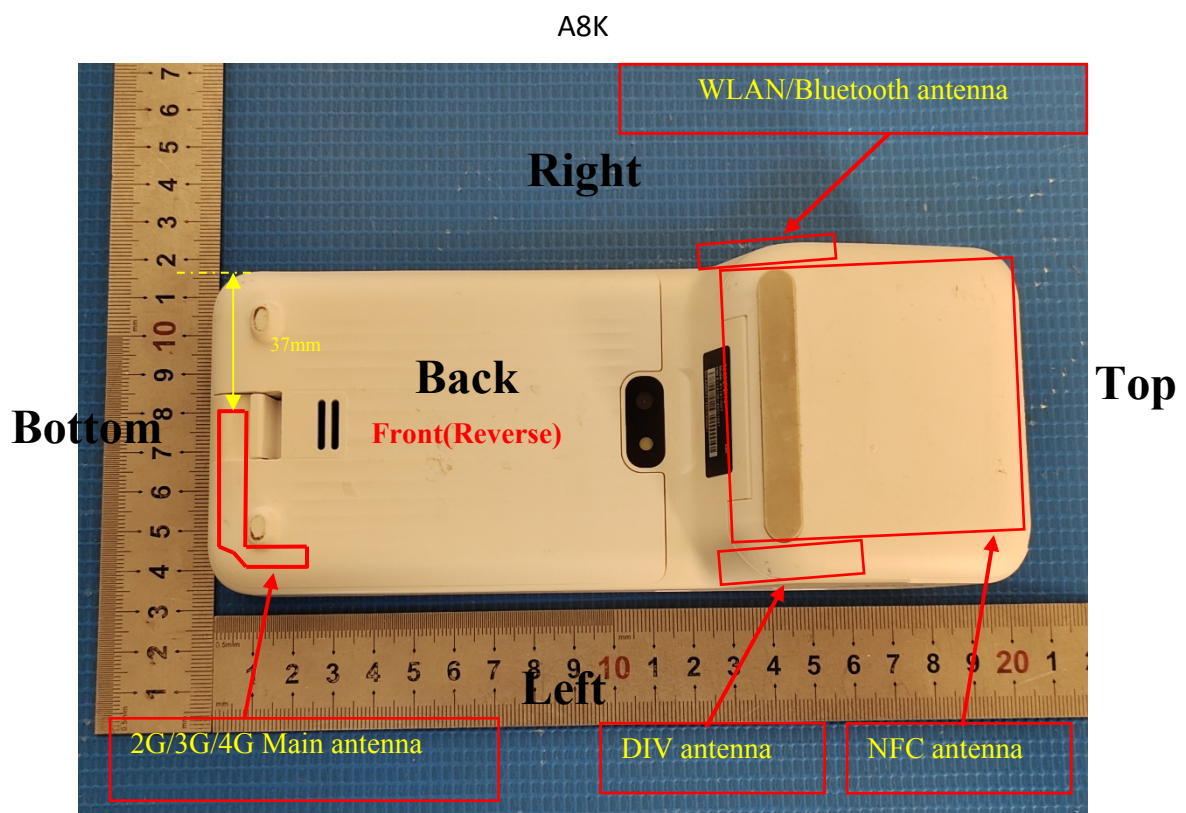
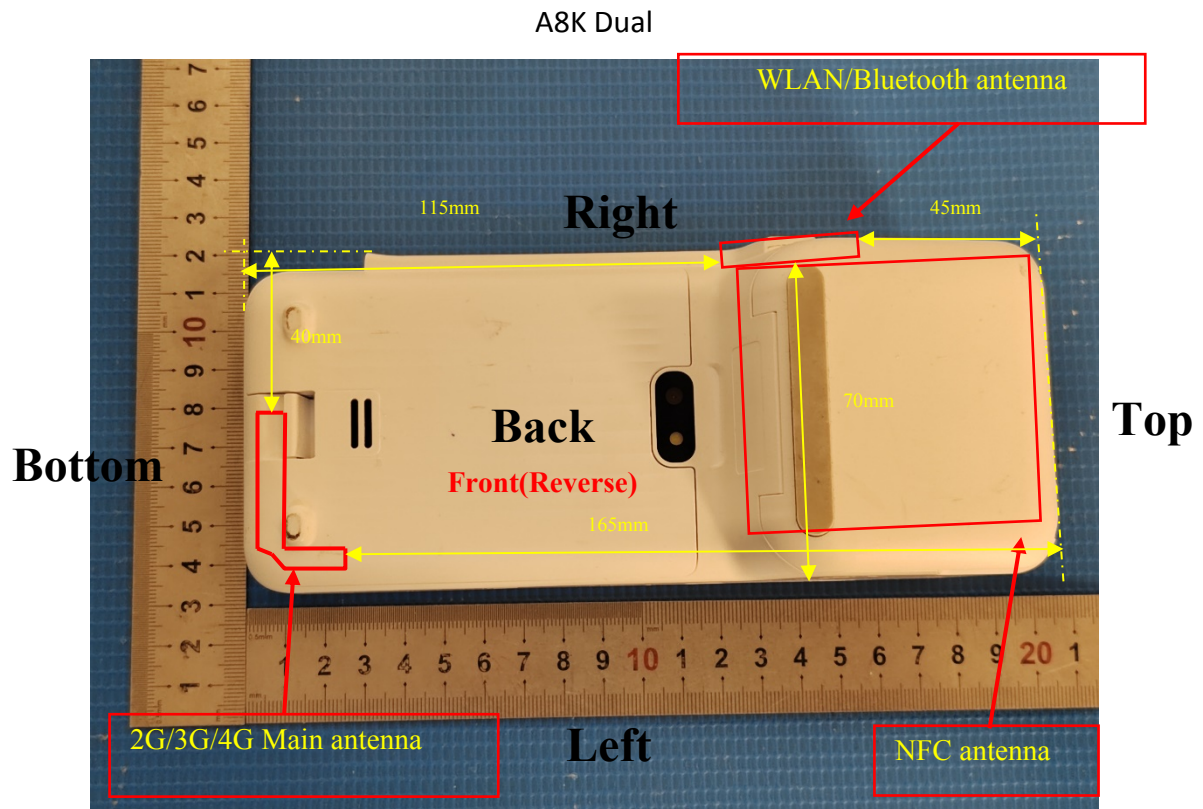
BLE:

Mode	Max Conducted Peak Output Power (dBm)		
	Low	Middle	High
BLE (1M)	-0.93	-0.82	-0.75

Standalone SAR test exclusion considerations

Antennas Location:





Antenna Distance To Edge

A8 Dual

	Antenna Distance To Edge(mm)					
Antenna	Back	Front	Left	Right	Top	Bottom
WWAN Main	<5	<5	<5	35	165	<5
WIFI/BT/BLE	<5	<5	70	<5	50	115

A8

	Antenna Distance To Edge(mm)					
Antenna	Back	Front	Left	Right	Top	Bottom
WWAN Main	<5	<5	<5	32	165	<5
WIFI/BT/BLE	<5	<5	70	<5	50	115

A8K Dual

	Antenna Distance To Edge(mm)					
Antenna	Back	Front	Left	Right	Top	Bottom
WWAN Main	<5	<5	<5	40	165	<5
WIFI/BT/BLE	<5	<5	70	<5	45	115

A8K

	Antenna Distance To Edge(mm)					
Antenna	Back	Front	Left	Right	Top	Bottom
WWAN Main	<5	<5	<5	37	165	<5
WIFI/BT/BLE	<5	<5	70	<5	45	115

Note: The Main antenna has transmitting and receiving functions, while the DIV antenna only has receiving functions.

Standalone SAR Test Exclusion Considerations

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
WLAN 2.4G	2462	18	63.10	0	19.80	3	No
WLAN 5.2G	5240	15	31.62	0	14.48	3	No
WLAN 5.3G	5320	14	25.12	0	11.59	3	No
WLAN 5.6G	5720	13	19.95	0	9.54	3	No
WLAN 5.8G	5825	14.5	28.18	0	13.60	3	No
BT	2480	6.5	4.47	0	1.41	3	YES
BLE	2480	-0.5	0.89	0	0.28	3	YES

NOTE:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Standalone SAR estimation:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Estimated 10-g (W/kg)
BT Limbs	2480	6.5	4.47	0	0.08
BLE Limbs	2480	-0.5	0.89	0	0.01

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Estimated 1-g (W/kg)
BT Body	2480	6.5	4.47	10	0.09
BLE Body	2480	-0.5	0.89	10	0.02

Note: The BT&BLE based Peak power for calculation.

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$
 $[\sqrt{f(\text{GHz})/x}]$

W/kg for test separation distances ≤ 50 mm;

where $x = 7.5$ for 1-g SAR. and $x = 18.75$ for 10-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion

According to KDB447498 D01 General RF Exposure Guidance v06: 4.3. General SAR test exclusion guidance

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz

Measurement Result:

For NFC, the power of EUT: E-Field@3m is 77.50 dBuV/m = -17.7 dBm (0.02mW)

Note: $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$ for $d = 3$ m.

SAR test exclusion threshold for NFC (13.56MHz) separation distance $< 50\text{mm}$

$$= [474 * (1 + \log(100/f(\text{MHz})))]/2$$

$$= 443 \text{ mW}$$

$$> 0.02 \text{ mW}$$

Conclusion:

The NFC SAR evaluation can be exempted.

Note:

For NFC, please refer to report RKSA251230001-00D

Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Test Exclusion Distance(mm)
GSM 850	848.8	31	1258.93	243.71
GSM 1900	1909.8	27.5	562.34	95.38
WCDMA 2	1907.6	22	158.49	54.99
WCDMA 4	1752.6	22	158.49	54.52
WCDMA 5	846.6	23	199.53	56.47
LTE Band 2	1900	24	251.19	64.24
LTE Band 4	1745	24.5	281.84	66.83
LTE Band 26&5	841.5	24	251.19	65.63
LTE Band 7	2560	24.5	281.84	68.81
LTE Band 41&38	2665	24.5	281.84	70.0
WLAN 2.4G	2462	18	63.10	33.00
WLAN 5.2G	5240	15	31.62	24.13
WLAN 5.3G	5320	14	25.12	19.31
WLAN 5.6G	5720	13	19.95	15.91
WLAN 5.8G	5825	14.5	28.18	22.67

SAR test exclusion for the EUT edge considerations Result

A8 Dual& A8K Dual:

Mode	Back	Front	Left	Right	Top	Bottom
GSM 850	Required	Required	Required	Required	Required	Required
GSM 1900	Required	Required	Required	Required	Exclusion	Required
WCDMA 2	Required	Required	Required	Required	Exclusion	Required
WCDMA 4	Required	Required	Required	Required	Exclusion	Required
WCDMA 5	Required	Required	Required	Required	Exclusion	Required
LTE Band 2	Required	Required	Required	Required	Exclusion	Required
LTE Band 4	Required	Required	Required	Required	Exclusion	Required
LTE Band 26&5	Required	Required	Required	Required	Exclusion	Required
LTE Band 7	Required	Required	Required	Required	Exclusion	Required
LTE Band 41&38	Required	Required	Required	Required	Exclusion	Required
WLAN 2.4G	Required	Required	Exclusion	Required	Exclusion	Exclusion
WLAN 5.2G	Required	Required	Exclusion	Required	Exclusion	Exclusion
WLAN 5.3G	Required	Required	Exclusion	Required	Exclusion	Exclusion
WLAN 5.6G	Required	Required	Exclusion	Required	Exclusion	Exclusion
WLAN 5.8G	Required	Required	Exclusion	Required	Exclusion	Exclusion

Distance< 50mm(To Edges)

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

5. The Time based average Power is used for calculation

Distance> 50mm(To Edges)

At 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following:

a) $[\text{Power allowed at numeric threshold for 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]$

mW, at 100 MHz to 1500 MHz

b) $[\text{Power allowed at numeric threshold for 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10]$ mW at > 1500 MHz and ≤ 6 GHz.

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

Temperature:	22.1-23.2 °C	22.2-23.3 °C	21.9-22.8 °C	21.8-22.6 °C	21.9-22.5 °C	21.6-22.7 °C
Relative Humidity:	48 %	51 %	46 %	49 %	52 %	50 %
Test Date:	2026/01/30	2026/01/31	2026/02/01	2026/02/02	2026/02/03	2026/02/04
Temperature:	21.4-22.5 °C	21.3-22.8 °C	21.8-22.6 °C	21.6-22.4 °C	21.8-22.6 °C	/
Relative Humidity:	51 %	47 %	53 %	46 %	52 %	/
Test Date:	2026/02/05	2026/02/06	2026/02/07	2026/02/08	2026/02/09	/

Testing was performed by Allen sun and Jacky cai

GSM850: Test Date(2026-01-30)

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
GSM850	Limbs Front(0mm) -A8 Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.331	0.35	4.0	/
GSM850	Limbs Back (0mm) -A8 Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.229	0.24	4.0	/
GSM850	Limbs Left(0mm) -A8 Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.553	0.58	4.0	/
GSM850	Limbs Right (0mm) -A8 Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.045	0.05	4.0	/
GSM850	Limbs Top(0mm) -A8 Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.015	0.02	4.0	/
GSM850	Limbs Bottom(0mm) -A8 Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.361	0.38	4.0	/
GSM850	Body Back (10mm) -A8 Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.170	0.18	1.6	1#
GSM850	Limbs Right (0mm) -A8	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.088	0.09	4.0	/
GSM850	Limbs Top(0mm) -A8	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.003	0.01	4.0	/
GSM850	Limbs Front(0mm) -A8K Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.366	0.38	4.0	/
GSM850	Limbs Back (0mm) -A8K Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.134	0.14	4.0	/
GSM850	Limbs Left(0mm) -A8K Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.400	0.42	4.0	/
GSM850	Limbs Right (0mm) -A8K Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.055	0.06	4.0	/
GSM850	Limbs Top(0mm) -A8K Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.022	0.02	4.0	/
GSM850	Limbs Bottom(0mm) -A8K Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.645	0.68	4.0	2#
GSM850	Body Back (10mm) -A8K Dual	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.098	0.10	1.6	/
GSM850	Limbs Right (0mm) -A8K	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.043	0.05	4.0	/
GSM850	Limbs Top(0mm) -A8K	836.6	GPRS 2 Tx slots	30.8	31	1.047	0.003	0.01	4.0	/

PCS1900: Test Date(2026-02-03)

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
PCS1900	Limbs Front(0mm) -A8 Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.108	0.12	4.0	/
PCS1900	Limbs Back (0mm) -A8 Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.084	0.10	4.0	/
PCS1900	Limbs Left(0mm) -A8 Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.287	0.33	4.0	/
PCS1900	Limbs Right (0mm) -A8 Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.053	0.06	4.0	/
PCS1900	Limbs Top(0mm) -A8 Dual	1880	GPRS 2 Tx slots	/	/	/	/	/	4.0	/
PCS1900	Limbs Bottom(0mm) -A8 Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.232	0.26	4.0	/
PCS1900	Body Back (10mm) -A8 Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.068	0.08	1.6	/
PCS1900	Limbs Right (0mm) -A8	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.091	0.10	4.0	/
PCS1900	Limbs Front(0mm) -A8K Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.358	0.41	4.0	/
PCS1900	Limbs Back (0mm) -A8K Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.109	0.12	4.0	/
PCS1900	Limbs Left(0mm) -A8K Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.721	0.82	4.0	3#
PCS1900	Limbs Right (0mm) -A8K Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.049	0.06	4.0	/
PCS1900	Limbs Top(0mm) -A8K Dual	1880	GPRS 2 Tx slots	/	/	/	/	/	4.0	/
PCS1900	Limbs Bottom(0mm) -A8K Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.298	0.34	4.0	/
PCS1900	Body Back (10mm) -A8K Dual	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.087	0.10	1.6	4#
PCS1900	Limbs Right (0mm) -A8K	1880	GPRS 2 Tx slots	26.96	27.5	1.132	0.083	0.09	4.0	/

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.

WCDMA Band 2: Test Date(2026-02-03)

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WCDMA Band 2	Limbs Front(0mm) -A8 Dual	1880	RMC	21.84	22	1.038	0.159	0.17	4.0	/
WCDMA Band 2	Limbs Back (0mm) -A8 Dual	1880	RMC	21.84	22	1.038	0.105	0.11	4.0	/
WCDMA Band 2	Limbs Left(0mm) -A8 Dual	1880	RMC	21.84	22	1.038	0.391	0.41	4.0	/
WCDMA Band 2	Limbs Right (0mm) -A8 Dual	1880	RMC	21.84	22	1.038	0.063	0.07	4.0	/
WCDMA Band 2	Limbs Top(0mm) -A8 Dual	1880	RMC	/	/	/	/	/	4.0	/
WCDMA Band 2	Limbs Bottom(0mm) -A8 Dual	1880	RMC	21.84	22	1.038	0.329	0.34	4.0	/
WCDMA Band 2	Body Back (10mm) -A8 Dual	1880	RMC	21.84	22	1.038	0.074	0.08	1.6	/
WCDMA Band 2	Limbs Right (0mm) -A8	1880	RMC	21.84	22	1.038	0.124	0.13	4.0	/
WCDMA Band 2	Limbs Front(0mm) -A8K Dual	1880	RMC	21.84	22	1.038	0.581	0.60	4.0	/
WCDMA Band 2	Limbs Back (0mm) -A8K Dual	1880	RMC	21.84	22	1.038	0.201	0.21	4.0	/
WCDMA Band 2	Limbs Left(0mm) -A8K Dual	1880	RMC	21.84	22	1.038	1.210	1.26	4.0	5#
WCDMA Band 2	Limbs Right (0mm) -A8K Dual	1880	RMC	21.84	22	1.038	0.085	0.09	4.0	/
WCDMA Band 2	Limbs Top(0mm) -A8K Dual	1880	RMC	/	/	/	/	/	4.0	/
WCDMA Band 2	Limbs Bottom(0mm) -A8K Dual	1880	RMC	21.84	22	1.038	0.543	0.56	4.0	/
WCDMA Band 2	Body Back (10mm) -A8K Dual	1880	RMC	21.84	22	1.038	0.121	0.13	1.6	6#
WCDMA Band 2	Limbs Right (0mm) -A8K	1880	RMC	21.84	22	1.038	0.135	0.14	4.0	/

WCDMA Band 4 Test Date(2026-02-01)

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WCDMA Band 4	Limbs Front(0mm) -A8 Dual	1732.6	RMC	21.77	22	1.054	0.257	0.27	4.0	/
WCDMA Band 4	Limbs Back (0mm) -A8 Dual	1732.6	RMC	21.77	22	1.054	0.083	0.09	4.0	/
WCDMA Band 4	Limbs Left(0mm) -A8 Dual	1732.6	RMC	21.77	22	1.054	0.577	0.61	4.0	/
WCDMA Band 4	Limbs Right (0mm) -A8 Dual	1732.6	RMC	21.77	22	1.054	0.088	0.09	4.0	/
WCDMA Band 4	Limbs Top(0mm) -A8 Dual	1732.6	RMC	/	/	/	/	/	4.0	/
WCDMA Band 4	Limbs Bottom(0mm) -A8 Dual	1732.6	RMC	21.77	22	1.054	0.342	0.36	4.0	/
WCDMA Band 4	Body Back (10mm) -A8 Dual	1732.6	RMC	21.77	22	1.054	0.088	0.09	1.6	7#
WCDMA Band 4	Limbs Right (0mm) -A8	1732.6	RMC	21.77	22	1.054	0.149	0.16	4.0	/
WCDMA Band 4	Limbs Front(0mm) -A8K Dual	1732.6	RMC	21.77	22	1.054	0.462	0.49	4.0	/
WCDMA Band 4	Limbs Back (0mm) -A8K Dual	1732.6	RMC	21.77	22	1.054	0.100	0.11	4.0	/
WCDMA Band 4	Limbs Left(0mm) -A8K Dual	1732.6	RMC	21.77	22	1.054	1.060	1.12	4.0	8#
WCDMA Band 4	Limbs Right (0mm) -A8K Dual	1732.6	RMC	21.77	22	1.054	0.052	0.06	4.0	/
WCDMA Band 4	Limbs Top(0mm) -A8K Dual	1732.6	RMC	/	/	/	/	/	4.0	/
WCDMA Band 4	Limbs Bottom(0mm) -A8K Dual	1732.6	RMC	21.77	22	1.054	0.588	0.62	4.0	/
WCDMA Band 4	Body Back (10mm) -A8K Dual	1732.6	RMC	21.77	22	1.054	0.061	0.07	1.6	/
WCDMA Band 4	Limbs Right (0mm) -A8K	1732.6	RMC	21.77	22	1.054	0.126	0.13	4.0	/

WCDMA Band 5 Test Date(2026-01-30)

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WCDMA Band 5	Limbs Front(0mm) -A8 Dual	836.6	RMC	22.4	23	1.148	0.145	0.17	4.0	/
WCDMA Band 5	Limbs Back (0mm) -A8 Dual	836.6	RMC	22.4	23	1.148	0.097	0.11	4.0	/
WCDMA Band 5	Limbs Left(0mm) -A8 Dual	836.6	RMC	22.4	23	1.148	0.250	0.29	4.0	/
WCDMA Band 5	Limbs Right (0mm) -A8 Dual	836.6	RMC	22.4	23	1.148	0.018	0.02	4.0	/
WCDMA Band 5	Limbs Top(0mm) -A8 Dual	836.6	RMC	/	/	/	/	/	4.0	/
WCDMA Band 5	Limbs Bottom(0mm) -A8 Dual	836.6	RMC	22.4	23	1.148	0.151	0.17	4.0	/
WCDMA Band 5	Body Back (10mm) -A8 Dual	836.6	RMC	22.4	23	1.148	0.053	0.06	1.6	9#
WCDMA Band 5	Limbs Right (0mm) -A8	836.6	RMC	22.4	23	1.148	0.036	0.04	4.0	/
WCDMA Band 5	Limbs Front(0mm) -A8K Dual	836.6	RMC	22.4	23	1.148	0.240	0.28	4.0	/
WCDMA Band 5	Limbs Back (0mm) -A8K Dual	836.6	RMC	22.4	23	1.148	0.061	0.07	4.0	/
WCDMA Band 5	Limbs Left(0mm) -A8K Dual	836.6	RMC	22.4	23	1.148	0.189	0.22	4.0	/
WCDMA Band 5	Limbs Right (0mm) -A8K Dual	836.6	RMC	22.4	23	1.148	0.011	0.01	4.0	/
WCDMA Band 5	Limbs Top(0mm) -A8K Dual	836.6	RMC	/	/	/	/	/	4.0	/
WCDMA Band 5	Limbs Bottom(0mm) -A8K Dual	836.6	RMC	22.4	23	1.148	0.254	0.29	4.0	10#
WCDMA Band 5	Body Back (10mm) -A8K Dual	836.6	RMC	22.4	23	1.148	0.039	0.04	1.6	/
WCDMA Band 5	Limbs Right (0mm) -A8K	836.6	RMC	22.4	23	1.148	0.019	0.02	4.0	/

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same antenna while testing SAR.
3. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in All 1.
4. KDB 941225 D01-Body SAR is not required for HSUPA/HSDPA / HSPA+when the maximum average output of each RF channel is less than 1/4 dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.
5. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

LTE FDD Band 2: Test Date(2026-02-04)

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Limbs Front(0mm) -A8 Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.175	0.19	4.0	/
Limbs Front(0mm) -A8 Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.148	0.17	4.0	/
Limbs Back(0mm) -A8 Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.111	0.12	4.0	/
Limbs Back(0mm) -A8 Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.086	0.10	4.0	/
Limbs Left(0mm) -A8 Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.425	0.46	4.0	/
Limbs Left(0mm) -A8 Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.358	0.40	4.0	/
Limbs Right (0mm) -A8 Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.066	0.07	4.0	/
Limbs Right (0mm) -A8 Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.056	0.06	4.0	/
Limbs Top(0mm) -A8 Dual	1880	QPSK	20	1RB	/	/	/	/	/	4.0	/
Limbs Top(0mm) -A8 Dual	1880	QPSK	20	50%RB	/	/	/	/	/	4.0	/
Limbs Bottom(0mm) -A8 Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.337	0.36	4.0	/
Limbs Bottom(0mm) -A8 Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.290	0.33	4.0	/
Body Back(10mm) -A8 Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.089	0.10	1.6	/
Body Back(10mm) -A8 Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.073	0.08	1.6	/
Limbs Right (0mm) -A8	1880	QPSK	20	1RB	23.66	24.00	1.081	0.134	0.15	4.0	/
Limbs Right (0mm) -A8	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.116	0.13	4.0	/
Limbs Front(0mm) -A8K Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.647	0.70	4.0	/
Limbs Front(0mm) -A8K Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.536	0.60	4.0	/
Limbs Back(0mm) -A8K Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.194	0.21	4.0	/
Limbs Back(0mm) -A8K Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.189	0.21	4.0	/
Limbs Left(0mm) -A8K Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	1.280	1.38	4.0	11#
Limbs Left(0mm) -A8K Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.816	0.92	4.0	/
Limbs Right (0mm) -A8K Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.083	0.09	4.0	/
Limbs Right (0mm) -A8K Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.063	0.07	4.0	/
Limbs Top(0mm) -A8K Dual	1880	QPSK	20	1RB	/	/	/	/	/	4.0	/
Limbs Top(0mm) -A8K Dual	1880	QPSK	20	50%RB	/	/	/	/	/	4.0	/
Limbs Bottom(0mm) -A8K Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.570	0.62	4.0	/
Limbs Bottom(0mm) -A8K Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.486	0.55	4.0	/
Body Back(10mm) -A8K Dual	1880	QPSK	20	1RB	23.66	24.00	1.081	0.148	0.16	1.6	12#
Body Back(10mm) -A8K Dual	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.124	0.14	1.6	/
Limbs Right (0mm) -A8K	1880	QPSK	20	1RB	23.66	24.00	1.081	0.130	0.14	4.0	/
Limbs Right (0mm) -A8K	1880	QPSK	20	50%RB	23.48	24.00	1.127	0.123	0.14	4.0	/

LTE FDD Band 4: Test Date(2026-02-02)

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Limbs Front(0mm) -A8 Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.303	0.33	4.0	/
Limbs Front(0mm) -A8 Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.247	0.28	4.0	/
Limbs Back(0mm) -A8 Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.097	0.11	4.0	/
Limbs Back(0mm) -A8 Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.084	0.10	4.0	/
Limbs Left(0mm) -A8 Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.684	0.74	4.0	/
Limbs Left(0mm) -A8 Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.563	0.64	4.0	/
Limbs Right (0mm) -A8 Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.086	0.09	4.0	/
Limbs Right (0mm) -A8 Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.074	0.08	4.0	/
Limbs Top(0mm) -A8 Dual	1732.5	QPSK	20	1RB	/	/	/	/	/	4.0	/
Limbs Top(0mm) -A8 Dual	1732.5	QPSK	20	50%RB	/	/	/	/	/	4.0	/
Limbs Bottom(0mm) -A8 Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.395	0.43	4.0	/
Limbs Bottom(0mm) -A8 Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.357	0.40	4.0	/
Body Back(10mm) -A8 Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.085	0.09	1.6	/
Body Back(10mm) -A8 Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.076	0.09	1.6	/
Limbs Right (0mm) -A8	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.168	0.18	4.0	/
Limbs Right (0mm) -A8	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.140	0.16	4.0	/
Limbs Left(0mm) -A8	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.566	0.61	4.0	/
Limbs Left(0mm) -A8	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.449	0.51	4.0	/
Limbs Front(0mm) -A8K Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.425	0.46	4.0	/
Limbs Front(0mm) -A8K Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.376	0.43	4.0	/
Limbs Back(0mm) -A8K Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.092	0.10	4.0	/
Limbs Back(0mm) -A8K Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.063	0.07	4.0	/
Limbs Left(0mm) -A8K Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	1.070	1.16	4.0	13#
Limbs Left(0mm) -A8K Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.656	0.74	4.0	/
Limbs Right (0mm) -A8K Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.043	0.05	4.0	/
Limbs Right (0mm) -A8K Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.037	0.04	4.0	/
Limbs Top(0mm) -A8K Dual	1732.5	QPSK	20	1RB	/	/	/	/	/	4.0	/
Limbs Top(0mm) -A8K Dual	1732.5	QPSK	20	50%RB	/	/	/	/	/	4.0	/
Limbs Bottom(0mm) -A8K Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.520	0.56	4.0	/
Limbs Bottom(0mm) -A8K Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.430	0.49	4.0	/
Body Back(10mm) -A8K Dual	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.087	0.09	1.6	14#
Body Back(10mm) -A8K Dual	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.060	0.07	1.6	/
Limbs Right (0mm) -A8K	1732.5	QPSK	20	1RB	24.16	24.50	1.081	0.130	0.14	4.0	/
Limbs Right (0mm) -A8K	1732.5	QPSK	20	50%RB	23.96	24.50	1.132	0.118	0.13	4.0	/

LTE FDD Band 26&5: Test Date(2026-01-31)

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Limbs Front(0mm) -A8 Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.145	0.15	4.0	/
Limbs Front(0mm) -A8 Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.112	0.12	4.0	/
Limbs Back(0mm) -A8 Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.102	0.11	4.0	/
Limbs Back(0mm) -A8 Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.079	0.09	4.0	/
Limbs Left(0mm) -A8 Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.254	0.26	4.0	15#
Limbs Left(0mm) -A8 Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.213	0.23	4.0	/
Limbs Right (0mm) -A8 Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.020	0.02	4.0	/
Limbs Right (0mm) -A8 Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.013	0.01	4.0	/
Limbs Top(0mm) -A8 Dual	831.5	QPSK	15	1RB	/	/	/	/	/	4.0	/
Limbs Top(0mm) -A8 Dual	831.5	QPSK	15	50%RB	/	/	/	/	/	4.0	/
Limbs Bottom(0mm) -A8 Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.142	0.15	4.0	/
Limbs Bottom(0mm) -A8 Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.125	0.14	4.0	/
Body Back(10mm) -A8 Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.069	0.07	1.6	16#
Body Back(10mm) -A8 Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.057	0.06	1.6	/
Limbs Right (0mm) -A8	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.036	0.04	4.0	/
Limbs Right (0mm) -A8	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.031	0.03	4.0	/
Limbs Front(0mm) -A8K Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.124	0.13	4.0	/
Limbs Front(0mm) -A8K Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.102	0.11	4.0	/
Limbs Back(0mm) -A8K Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.056	0.06	4.0	/
Limbs Back(0mm) -A8K Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.054	0.06	4.0	/
Limbs Left(0mm) -A8K Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.202	0.21	4.0	/
Limbs Left(0mm) -A8K Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.145	0.16	4.0	/
Limbs Right (0mm) -A8K Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.017	0.02	4.0	/
Limbs Right (0mm) -A8K Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.014	0.02	4.0	/
Limbs Top(0mm) -A8K Dual	831.5	QPSK	15	1RB	/	/	/	/	/	4.0	/
Limbs Top(0mm) -A8K Dual	831.5	QPSK	15	50%RB	/	/	/	/	/	4.0	/
Limbs Bottom(0mm) -A8K Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.174	0.18	4.0	/
Limbs Bottom(0mm) -A8K Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.127	0.14	4.0	/
Body Back(10mm) -A8K Dual	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.059	0.06	1.6	/
Body Back(10mm) -A8K Dual	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.039	0.04	1.6	/
Limbs Right (0mm) -A8K	831.5	QPSK	15	1RB	23.89	24.00	1.026	0.024	0.03	4.0	/
Limbs Right (0mm) -A8K	831.5	QPSK	15	50%RB	23.62	24.00	1.091	0.019	0.02	4.0	/

Note:

1.LTE FDD Band 26 and LTE FDD Band 5 have the same power, we only tested the LTE FDD Band 26 because it has a larger frequency range, so the LTE FDD Band 5 does not need to be tested.

LTE FDD Band 7: Test Date(2026-02-06)

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Limbs Front(0mm) -A8 Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.097	0.11	4.0	/
Limbs Front(0mm) -A8 Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.077	0.09	4.0	/
Limbs Back(0mm) -A8 Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.248	0.27	4.0	/
Limbs Back(0mm) -A8 Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.315	0.36	4.0	/
Limbs Left(0mm) -A8 Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.455	0.49	4.0	/
Limbs Left(0mm) -A8 Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.379	0.43	4.0	/
Limbs Right (0mm) -A8 Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.016	0.02	4.0	/
Limbs Right (0mm) -A8 Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.012	0.01	4.0	/
Limbs Top(0mm) -A8 Dual	2535	QPSK	20	1RB	/	/	/	/	/	4.0	/
Limbs Top(0mm) -A8 Dual	2535	QPSK	20	50%RB	/	/	/	/	/	4.0	/
Limbs Bottom(0mm) -A8 Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.458	0.50	4.0	/
Limbs Bottom(0mm) -A8 Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.368	0.42	4.0	/
Body Back(10mm) -A8 Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.391	0.42	1.6	17#
Body Back(10mm) -A8 Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.325	0.37	1.6	/
Limbs Right (0mm) -A8	2535	QPSK	20	1RB	24.15	24.5	1.084	0.027	0.03	4.0	/
Limbs Right (0mm) -A8	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.033	0.04	4.0	/
Limbs Front(0mm) -A8K Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.383	0.42	4.0	/
Limbs Front(0mm) -A8K Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.240	0.27	4.0	/
Limbs Back(0mm) -A8K Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.227	0.25	4.0	/
Limbs Back(0mm) -A8K Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.215	0.24	4.0	/
Limbs Left(0mm) -A8K Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	1.390	1.51	4.0	18#
Limbs Left(0mm) -A8K Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	1.300	1.47	4.0	/
Limbs Right (0mm) -A8K Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.077	0.08	4.0	/
Limbs Right (0mm) -A8K Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.039	0.04	4.0	/
Limbs Top(0mm) -A8K Dual	2535	QPSK	20	1RB	/	/	/	/	/	4.0	/
Limbs Top(0mm) -A8K Dual	2535	QPSK	20	50%RB	/	/	/	/	/	4.0	/
Limbs Bottom(0mm) -A8K Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.625	0.68	4.0	/
Limbs Bottom(0mm) -A8K Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.551	0.62	4.0	/
Body Back(10mm) -A8K Dual	2535	QPSK	20	1RB	24.15	24.5	1.084	0.328	0.36	1.6	/
Body Back(10mm) -A8K Dual	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.225	0.25	1.6	/
Limbs Right (0mm) -A8K	2535	QPSK	20	1RB	24.15	24.5	1.084	0.120	0.13	4.0	/
Limbs Right (0mm) -A8K	2535	QPSK	20	50%RB	23.98	24.5	1.127	0.094	0.11	4.0	/
Limbs Left(0mm) -A8K	2535	QPSK	20	1RB	24.15	24.5	1.084	1.260	1.37	4.0	/
Limbs Left(0mm) -A8K	2535	QPSK	20	50%RB	23.98	24.5	1.127	1.070	1.21	4.0	/

LTE TDD Band 41&38: Test Date(2026-02-07)

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Limbs Front(0mm) -A8 Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.034	0.04	4.0	/
Limbs Front(0mm) -A8 Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.028	0.03	4.0	/
Limbs Back(0mm) -A8 Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.119	0.12	4.0	/
Limbs Back(0mm) -A8 Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.095	0.11	4.0	/
Limbs Left(0mm) -A8 Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.201	0.21	4.0	/
Limbs Left(0mm) -A8 Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.172	0.19	4.0	/
Limbs Right (0mm) -A8 Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.004	0.01	4.0	/
Limbs Right (0mm) -A8 Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.004	0.01	4.0	/
Limbs Top(0mm) -A8 Dual	2605	QPSK	20	1RB	/	/	/	/	/	4.0	/
Limbs Top(0mm) -A8 Dual	2605	QPSK	20	50%RB	/	/	/	/	/	4.0	/
Limbs Bottom(0mm) -A8 Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.139	0.14	4.0	/
Limbs Bottom(0mm) -A8 Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.113	0.13	4.0	/
Body Back(10mm) -A8 Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.087	0.09	1.6	/
Body Back(10mm) -A8 Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.079	0.09	1.6	/
Limbs Right (0mm) -A8	2605	QPSK	20	1RB	24.41	24.5	1.021	0.012	0.01	4.0	/
Limbs Right (0mm) -A8	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.010	0.01	4.0	/
Limbs Front(0mm) -A8K Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.225	0.23	4.0	/
Limbs Front(0mm) -A8K Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.196	0.22	4.0	/
Limbs Back(0mm) -A8K Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.150	0.15	4.0	/
Limbs Back(0mm) -A8K Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.131	0.15	4.0	/
Limbs Left(0mm) -A8K Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.714	0.73	4.0	19#
Limbs Left(0mm) -A8K Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.449	0.51	4.0	/
Limbs Right (0mm) -A8K Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.025	0.03	4.0	/
Limbs Right (0mm) -A8K Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.022	0.03	4.0	/
Limbs Top(0mm) -A8K Dual	2605	QPSK	20	1RB	/	/	/	/	/	4.0	/
Limbs Top(0mm) -A8K Dual	2605	QPSK	20	50%RB	/	/	/	/	/	4.0	/
Limbs Bottom(0mm) -A8K Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.399	0.41	4.0	/
Limbs Bottom(0mm) -A8K Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.349	0.39	4.0	/
Body Back(10mm) -A8K Dual	2605	QPSK	20	1RB	24.41	24.5	1.021	0.167	0.17	1.6	20#
Body Back(10mm) -A8K Dual	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.132	0.15	1.6	/
Limbs Right (0mm) -A8K	2605	QPSK	20	1RB	24.41	24.5	1.021	0.050	0.05	4.0	/
Limbs Right (0mm) -A8K	2605	QPSK	20	50%RB	23.98	24.5	1.127	0.041	0.05	4.0	/

Note:

1.The frequency range of LTE Band 41 is 2535~ 2675MHz. Per KDB 447498 D01, according to the following formula Calculate N_c is 5.

2.KDB procedures the following should be applied to determine the number of required test channels. The test channels should be evenly spread across the transmission frequency band of each wireless mode.

$$N_c = \text{Round}\{[100(f_{\text{high}} - f_{\text{low}})/f_c]^{0.5} \times (f_c/100)^{0.2}\},$$

where

- N_c is the number of test channels,rounded to nearest integer,
- f_{high} and f_{low} are the highest and lowest channel frequencies within the transmission band,
- f_c is the mid-band channel frequency,
- all frequencies are in MHz.

3. The power class 3 used for LTE Band 41 SAR testing.

Note:

1. When the SAR value is greater than half of the limit value, the other two channels should be tested
2. KDB 941225 D05- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
3. KDB 941225 D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.
4. LTE TDD Band 41 and LTE TDD Band 38 have the same power, we only tested the LTE TDD Band 41 because it has a larger frequency range, so the LTE TDD Band 38 does not need to be tested.

WLAN 2.4G:

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Duct cycle Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WLAN2.4G	Limbs Front(0mm) -A8 Dual	2437	802.11b 1Mbps	17.87	18.00	1.030	1.006	0.092	0.10	4.0	/
WLAN2.4G	Limbs Back (0mm) -A8 Dual	2437	802.11b 1Mbps	17.87	18.00	1.030	1.006	0.056	0.06	4.0	/
WLAN2.4G	Limbs Left(0mm) -A8 Dual	2437	802.11b 1Mbps	/	/	/	/	/	/	4.0	/
WLAN2.4G	Limbs Right (0mm) -A8 Dual	2437	802.11b 1Mbps	17.87	18.00	1.030	1.006	0.293	0.30	4.0	/
WLAN2.4G	Limbs Top(0mm) -A8 Dual	2437	802.11b 1Mbps	/	/	/	/	/	/	4.0	/
WLAN2.4G	Limbs Bottom(0mm) -A8 Dual	2437	802.11b 1Mbps	/	/	/	/	/	/	4.0	/
WLAN2.4G	Body Back (10mm) -A8 Dual	2437	802.11b 1Mbps	17.87	18.00	1.030	1.006	0.092	0.10	1.6	21#
WLAN2.4G	Limbs Right (0mm) -A8	2437	802.11b 1Mbps	17.87	18.00	1.030	1.006	0.372	0.39	4.0	/
WLAN2.4G	Limbs Front(0mm) -A8K Dual	2437	802.11b 1Mbps	17.87	18.00	1.030	1.006	0.145	0.15	4.0	/
WLAN2.4G	Limbs Back (0mm) -A8K Dual	2437	802.11b 1Mbps	17.87	18.00	1.030	1.006	0.065	0.07	4.0	/
WLAN2.4G	Limbs Left(0mm) -A8K Dual	2437	802.11b 1Mbps	/	/	/	/	/	/	4.0	/
WLAN2.4G	Limbs Right (0mm) -A8K Dual	2437	802.11b 1Mbps	17.87	18.00	1.030	1.006	0.232	0.24	4.0	/
WLAN2.4G	Limbs Top(0mm) -A8K Dual	2437	802.11b 1Mbps	/	/	/	/	/	/	4.0	/
WLAN2.4G	Limbs Bottom(0mm) -A8K Dual	2437	802.11b 1Mbps	/	/	/	/	/	/	4.0	/
WLAN2.4G	Body Back (10mm) -A8K Dual	2437	802.11b 1Mbps	17.87	18.00	1.030	1.006	0.080	0.08	1.6	/
WLAN2.4G	Limbs Right (0mm) -A8K	2437	802.11b 1Mbps	17.87	18.00	1.030	1.006	0.390	0.40	4.0	22#

Note:

1. For 802.11b 1Mbps mode power is the largest mode of 802.11b/g/n, 802.11b 1Mbps mode is selected to test.

WLAN 5.2G:

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Duct cycle Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WLAN5.2G	Limbs Front(0mm) -A8 Dual	5200	802.11a 6Mbps	14.35	15.00	1.161	1.033	0.073	0.09	4.0	/
WLAN5.2G	Limbs Back (0mm) -A8 Dual	5200	802.11a 6Mbps	14.35	15.00	1.161	1.033	0.180	0.22	4.0	/
WLAN5.2G	Limbs Left(0mm) -A8 Dual	5200	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.2G	Limbs Right (0mm) -A8 Dual	5200	802.11a 6Mbps	14.35	15.00	1.161	1.033	0.330	0.40	4.0	/
WLAN5.2G	Limbs Top(0mm) -A8 Dual	5200	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.2G	Limbs Bottom(0mm) -A8 Dual	5200	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.2G	Body Back (10mm) -A8 Dual	5200	802.11a 6Mbps	14.35	15.00	1.161	1.033	0.307	0.37	1.6	23#
WLAN5.2G	Limbs Right (0mm) -A8	5200	802.11a 6Mbps	14.35	15.00	1.161	1.033	0.411	0.49	4.0	/
WLAN5.2G	Limbs Front(0mm) -A8K Dual	5200	802.11a 6Mbps	14.35	15.00	1.161	1.033	0.108	0.13	4.0	/
WLAN5.2G	Limbs Back (0mm) -A8K Dual	5200	802.11a 6Mbps	14.35	15.00	1.161	1.033	0.049	0.06	4.0	/
WLAN5.2G	Limbs Left(0mm) -A8K Dual	5200	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.2G	Limbs Right (0mm) -A8K Dual	5200	802.11a 6Mbps	14.35	15.00	1.161	1.033	0.250	0.30	4.0	/
WLAN5.2G	Limbs Top(0mm) -A8K Dual	5200	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.2G	Limbs Bottom(0mm) -A8K Dual	5200	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.2G	Body Back (10mm) -A8K Dual	5200	802.11a 6Mbps	14.35	15.00	1.161	1.033	0.109	0.13	1.6	/
WLAN5.2G	Limbs Right (0mm) -A8K	5200	802.11a 6Mbps	14.35	15.00	1.161	1.033	0.599	0.72	4.0	24#

Note:

1. For 802.11a 6Mbps mode power is the largest mode of 802.11a/n, 802.11a 6Mbps mode is selected to test.

WLAN 5.3G:

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Duct cycle Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WLAN5.3G	Limbs Front(0mm) -A8 Dual	5300	802.11n20 MCS0	13.65	14.00	1.084	1.035	0.065	0.07	4.0	/
WLAN5.3G	Limbs Back (0mm) -A8 Dual	5300	802.11n20 MCS0	13.65	14.00	1.084	1.035	0.162	0.18	4.0	/
WLAN5.3G	Limbs Left(0mm) -A8 Dual	5300	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.3G	Limbs Right (0mm) -A8 Dual	5300	802.11n20 MCS0	13.65	14.00	1.084	1.035	0.333	0.37	4.0	/
WLAN5.3G	Limbs Top(0mm) -A8 Dual	5300	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.3G	Limbs Bottom(0mm) -A8 Dual	5300	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.3G	Body Back (10mm) -A8 Dual	5300	802.11n20 MCS0	13.65	14.00	1.084	1.035	0.267	0.30	1.6	25#
WLAN5.3G	Limbs Right (0mm) -A8	5300	802.11n20 MCS0	13.65	14.00	1.084	1.035	0.426	0.48	4.0	26#
WLAN5.3G	Limbs Front(0mm) -A8K Dual	5300	802.11n20 MCS0	13.65	14.00	1.084	1.035	0.118	0.13	4.0	/
WLAN5.3G	Limbs Back (0mm) -A8K Dual	5300	802.11n20 MCS0	13.65	14.00	1.084	1.035	0.101	0.11	4.0	/
WLAN5.3G	Limbs Left(0mm) -A8K Dual	5300	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.3G	Limbs Right (0mm) -A8K Dual	5300	802.11n20 MCS0	13.65	14.00	1.084	1.035	0.312	0.35	4.0	/
WLAN5.3G	Limbs Top(0mm) -A8K Dual	5300	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.3G	Limbs Bottom(0mm) -A8K Dual	5300	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.3G	Body Back (10mm) -A8K Dual	5300	802.11n20 MCS0	13.65	14.00	1.084	1.035	0.128	0.14	1.6	/
WLAN5.3G	Limbs Right (0mm) -A8K	5300	802.11n20 MCS0	13.65	14.00	1.084	1.035	0.380	0.43	4.0	/

Note:

1. For 802.11n20 MCS0 mode power is the largest mode of 802.11a/n, 802.11n20 MCS0 mode is selected to test.

WLAN 5.6G:

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Duct cycle Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WLAN5.6G	Limbs Front(0mm) -A8 Dual	5580	802.11a 6Mbps	12.69	13	1.074	1.033	0.049	0.05	4.0	/
WLAN5.6G	Limbs Back (0mm) -A8 Dual	5580	802.11a 6Mbps	12.69	13	1.074	1.033	0.092	0.10	4.0	/
WLAN5.6G	Limbs Left(0mm) -A8 Dual	5580	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.6G	Limbs Right (0mm) -A8 Dual	5580	802.11a 6Mbps	12.69	13	1.074	1.033	0.248	0.28	4.0	/
WLAN5.6G	Limbs Top(0mm) -A8 Dual	5580	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.6G	Limbs Bottom(0mm) -A8 Dual	5580	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.6G	Body Back (10mm) -A8 Dual	5580	802.11a 6Mbps	12.69	13	1.074	1.033	0.114	0.13	1.6	/
WLAN5.6G	Limbs Right (0mm) -A8	5580	802.11a 6Mbps	12.69	13	1.074	1.033	0.292	0.32	4.0	/
WLAN5.6G	Limbs Front(0mm) -A8K Dual	5580	802.11a 6Mbps	12.69	13	1.074	1.033	0.082	0.09	4.0	/
WLAN5.6G	Limbs Back (0mm) -A8K Dual	5580	802.11a 6Mbps	12.69	13	1.074	1.033	0.073	0.08	4.0	/
WLAN5.6G	Limbs Left(0mm) -A8K Dual	5580	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.6G	Limbs Right (0mm) -A8K Dual	5580	802.11a 6Mbps	12.69	13	1.074	1.033	0.259	0.29	4.0	/
WLAN5.6G	Limbs Top(0mm) -A8K Dual	5580	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.6G	Limbs Bottom(0mm) -A8K Dual	5580	802.11a 6Mbps	/	/	/	/	/	/	4.0	/
WLAN5.6G	Body Back (10mm) -A8K Dual	5580	802.11a 6Mbps	12.69	13	1.074	1.033	0.121	0.13	1.6	27#
WLAN5.6G	Limbs Right (0mm) -A8K	5580	802.11a 6Mbps	12.69	13	1.074	1.033	0.377	0.42	4.0	28#

Note:

1. For 802.11a 6Mbps mode power is the largest mode of 802.11a/n, 802.11a 6Mbps mode is selected to test.

WLAN 5.8G:

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Duct cycle Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WLAN5.8G	Limbs Front(0mm) -A8 Dual	5785	802.11n20 MCS0	13.98	14.50	1.127	1.035	0.086	0.10	4.0	/
WLAN5.8G	Limbs Back (0mm) -A8 Dual	5785	802.11n20 MCS0	13.98	14.50	1.127	1.035	0.159	0.19	4.0	/
WLAN5.8G	Limbs Left(0mm) -A8 Dual	5785	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.8G	Limbs Right (0mm) -A8 Dual	5785	802.11n20 MCS0	13.98	14.50	1.127	1.035	0.393	0.46	4.0	/
WLAN5.8G	Limbs Top(0mm) -A8 Dual	5785	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.8G	Limbs Bottom(0mm) -A8 Dual	5785	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.8G	Body Back (10mm) -A8 Dual	5785	802.11n20 MCS0	13.98	14.50	1.127	1.035	0.213	0.25	1.6	/
WLAN5.8G	Limbs Right (0mm) -A8	5785	802.11n20 MCS0	13.98	14.50	1.127	1.035	0.465	0.54	4.0	/
WLAN5.8G	Limbs Front(0mm) -A8K Dual	5785	802.11n20 MCS0	13.98	14.50	1.127	1.035	0.194	0.23	4.0	/
WLAN5.8G	Limbs Back (0mm) -A8K Dual	5785	802.11n20 MCS0	13.98	14.50	1.127	1.035	0.110	0.13	4.0	/
WLAN5.8G	Limbs Left(0mm) -A8K Dual	5785	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.8G	Limbs Right (0mm) -A8K Dual	5785	802.11n20 MCS0	13.98	14.50	1.127	1.035	0.287	0.34	4.0	/
WLAN5.8G	Limbs Top(0mm) -A8K Dual	5785	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.8G	Limbs Bottom(0mm) -A8K Dual	5785	802.11n20 MCS0	/	/	/	/	/	/	4.0	/
WLAN5.8G	Body Back (10mm) -A8K Dual	5785	802.11n20 MCS0	13.98	14.50	1.127	1.035	0.231	0.27	1.6	29#
WLAN5.8G	Limbs Right (0mm) -A8K	5785	802.11n20 MCS0	13.98	14.50	1.127	1.035	0.631	0.74	4.0	30#

Note:

1. When the SAR Value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
4. For 802.11n20 MCS0 mode power is the largest mode of 802.11a/n, 802.11n20 MCS0 mode is selected to test.
5. Limbs tests a 10g SAR value, while Body tests a 1g SAR value.
6. We tested all the high-end prototypes of A8 Dual and A8K Dual because their antennas are different and their configurations are higher than the standard ones. The standard sample A8 has the same antenna as A8 Dual, and the A8K has the same antenna as A8K Dual. The A8 and A8K models lack the magnetic head and secondary screen in appearance, and their battery capacity is lower than that of the high-end models. Therefore, we mainly tested the high-end models and also tested the right side of the standard model sample. The worst values of top and left of the standard prototype were verified. For details, please refer to the difference statement letter.

SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. 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

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only 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 ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Note: The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

The Highest Measured SAR Configuration in Each Frequency Band

Limbs

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
/	/	/	/	/	/	/

Note:

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20 .
2. The measured SAR results do not have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
3. SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements..

SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities		
Transmitter Combination	Simultaneous?	Hotspot?
WWAN(GSM/WCDMA/LTE) + 2.4GWLAN+NFC	√	√
WWAN(GSM/WCDMA/LTE) + 5GWLAN+NFC	√	×
WWAN(GSM/WCDMA/LTE) + BT+NFC	√	×

Simultaneous Transmission Consideration Detail

Limbs:

Transmitter Combination	Position	Max SAR(W/kg)		Σ SAR< 4.0W/kg
		SAR1(WWAN)	SAR2(WLAN)	
WWAN+ 2.4GWLAN	Limbs	1.51	0.4	1.91

Transmitter Combination	Position	Max SAR(W/kg)		Σ SAR< 4.0W/kg
		SAR1(WWAN)	SAR2(WLAN)	
WWAN+5GWLAN	Limbs	1.51	0.74	2.25

Transmitter Combination	Position	Max SAR(W/kg)		Σ SAR< 4.0W/kg
		SAR1(WWAN)	SAR2(WLAN)	
WWAN+ BT	Limbs	1.51	0.08	1.59

Body:

Transmitter Combination	Position	Max SAR(W/kg)		Σ SAR< 1.6W/kg
		SAR1(WWAN)	SAR2(WLAN)	
WWAN+ 2.4GWLAN	Body	0.42	0.1	0.52

Transmitter Combination	Position	Max SAR(W/kg)		Σ SAR< 1.6W/kg
		SAR1(WWAN)	SAR2(WLAN)	
WWAN+5GWLAN	Body	0.42	0.37	0.79

Transmitter Combination	Position	Max SAR(W/kg)		Σ SAR< 1.6W/kg
		SAR1(WWAN)	SAR2(WLAN)	
WWAN+ BT	Body	0.42	0.09	0.51

Conclusion:

Sum of SAR: **1.6 W/kg(Body)/4.0 W/kg(Limbs)** therefore simultaneous transmission SAR result is **Compliance**.

APPENDIX A SAR PLOTS OF SAR MEASUREMENT

Please Refer to the Attachment.

APPENDIX B MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE 1528:2013 SAR test

Uncertainty component	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration(k=1)	6.55	N	1	1	1	6.6	6.6
Axial isotropy	4.7	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	1.9	1.9
Hemispherical isotropy	9.6	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	3.9	3.9
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Modulation response	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambient conditions-noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
RF ambient conditions-reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. tolerance	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
Test sample related							
Test sample positioning	3.5	N	1	1	1	3.5	3.5
Device holder uncertainty	4.8	N	1	1	1	4.8	4.8
Output power variation –SAR draft measurement	5.0	R	$\sqrt{3}$	1	1	2.9	2.9
SAR scaling	2.8	R	$\sqrt{3}$	1	1	1.6	1.6
Phantom and tissue parameters							
Phantom shell uncertainty– shape, thickness and permittivity	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.9	1.6
Liquid conductivity meas.	2.5	N	1	0.78	0.71	2.0	1.8
Liquid permittivity meas.	2.5	N	1	0.23	0.26	0.6	0.7
Liquid conductivity – temperature uncertainty	1.7	R	$\sqrt{3}$	0.78	0.71	0.8	0.7
Liquid permittivity – temperature uncertainty	0.3	R	$\sqrt{3}$	0.23	0.26	0.0	0.0
Combined standard uncertainty		RSS				12.2	12.1
Expanded uncertainty (95 % confidence interval)		k=2				24.4	24.2

APPENDIX C EUT TEST POSITION PHOTOS

Please Refer to the Attachment.

APPENDIX D CALIBRATION CERTIFICATES

Please Refer to the Attachment.

APPENDIX E DIPOLE INTERMEDIATE CHECK

Please Refer to the Attachment.

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.
6. This report may contain standards and test items that are not covered by the accreditation scope and shall be marked with an asterisk “▲”.

******* END OF REPORT *******