SAR EVALUATION REPORT

For

MAXWEST COMMUNICATION LIMITED

FLAT/RM 707 7/F, FORTRESS TOWER 250 KING'S ROAD,NORTH POINT, HONG KONG

FCC ID: 2ASP8MAXVFLIP

Report Type:	Product Name:
Original Report	Phone

Report Number:	RDG260105001-20B
Report Date:	2026-02-02
Reviewed By:	Bard Liu
Approved By:	Oscar Ye
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RDG260105001-20B	R1V1	2026-02-02	Initial Release

EUT Information	
Applicant:	MAXWEST COMMUNICATION LIMITED
Product Type	Protable
Exposure Category:	Population / Uncontrolled
Body-Worn Accessories:	None
Operation Mode :	GSM Voice, GPRS/EDGE Data, WCDMA(R99 (Voice+Data), HSUPA/HSDPA), FDD-LTE, WLAN, Bluetooth, BLE
Power Supply:	DC 3.8V from battery
Normal Operation:	Head and Body
Frequency Band:	GSM 850: 824-849 MHz(TX), 869-894 MHz(RX) GSM1900: 1850-1910MHz(TX), 1930-1990MHz(RX) WCDMA Band II: 1850-1910 MHz MHz(TX), 1930-1990 MHz(RX) WCDMA Band IV: 1710-1755 MHz(TX), 2110-2155MHz(RX) WCDMA Band V: 824-849 MHz(TX), 869-894 MHz(RX) LTE Band 2: 1850-1910 MHz(TX), 1930-1990MHz(RX) LTE Band 4: 1710-1755 MHz(TX), 2110-2155MHz(RX) LTE Band 5: 824-849 MHz(TX), 869-894 MHz(RX) LTE Band 12: 699-716 MHz(TX), 729-746 MHz(RX) LTE Band 14: 788-798 MHz(TX), 758-768 MHz(RX) LTE Band 30: 2305-2315 MHz(TX), 2350-2360 MHz(RX) LTE Band 66: 1710-1780 MHz(TX), 2110-2180 MHz(RX) LTE Band 71: 663-698 MHz(TX); 617-652 MHz(RX) WLAN 2.4G: 2412-2462 MHz(TX/RX) Bluetooth: 2402 MHz-2480 MHz(TX&RX) BLE: 2402 MHz-2480 MHz(TX&RX)
Tested Model:	MAX V FLIP
Series Model:	NA
Dimensions (L×W×H):	110 × 55 × 20 mm(Fold) 192 × 55 × 20 mm(Unfold)
Product name:	Phone
Serial Number:	RDG260105001-1
Test Date:	2026-01-06~2026-01-18

MODE	Max. SAR Level(s) Reported(W/kg)	Limit
GSM 850	0.38 W/kg 1g Head SAR 0.60 W/kg 1g Body SAR	**1.6 W/kg**
PCS 1900	0.15 W/kg 1g Head SAR 0.73 W/kg 1g Body SAR	
WCDMA Band II	0.12 W/kg 1g Head SAR 0.90 W/kg 1g Body SAR	
WCDMA Band IV	0.20 W/kg 1g Head SAR 0.78 W/kg 1g Body SAR	
WCDMA Band V	0.31 W/kg 1g Head SAR 0.48 W/kg 1g Body SAR	
LTE Band 2	0.18 W/kg 1g Head SAR 1.09 W/kg 1g Body SAR	
LTE Band 5	0.33 W/kg 1g Head SAR 0.69 W/kg 1g Body SAR	
LTE Band 12	0.18 W/kg 1g Head SAR 0.79 W/kg 1g Body SAR	
LTE Band 14	0.22 W/kg 1g Head SAR 0.40 W/kg 1g Body SAR	
LTE Band 30	0.14 W/kg 1g Head SAR **1.18** W/kg 1g Body SAR	
LTE Band 66&4	0.17 W/kg 1g Head SAR 0.88 W/kg 1g Body SAR	
LTE Band 71	0.13 W/kg 1g Head SAR 0.44 W/kg 1g Body SAR	
WLAN 2.4G	**0.41** W/kg 1g Head SAR 0.30 W/kg 1g Body SAR	
Simultaneous	**0.79** W/kg 1g Head SAR **1.48** W/kg 1g Body SAR **1.48** 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 648474 D04 Handset SAR v01r03 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 941225 D06 Hotspot Mode v02r01 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: RDG260105001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2026-01-05.)

Note: EUT can reduce power in both hot spot mode and sensor mode, and the reduction power is the same. In the reduction power state, we select sensor on (10mm) for testing.

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 applied to the EUT.

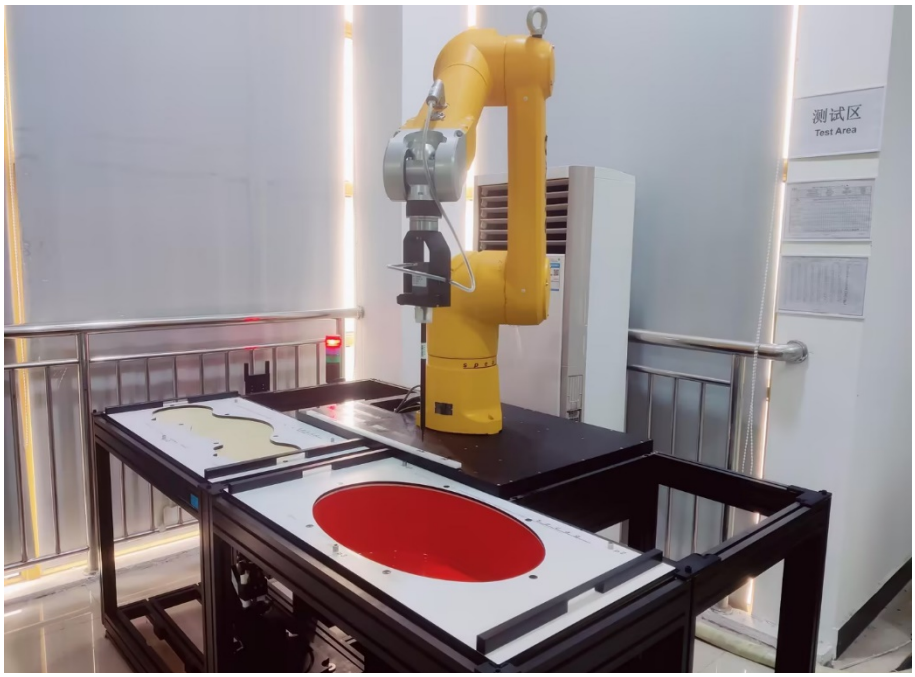
FACILITIES

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.

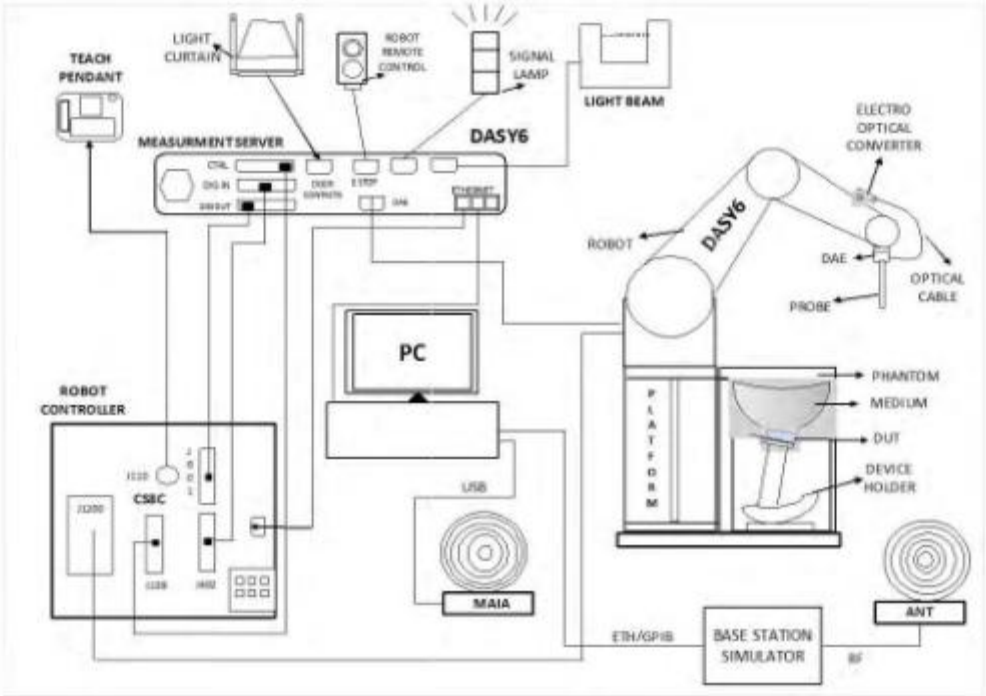
DESCRIPTION OF TEST SYSTEM

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.

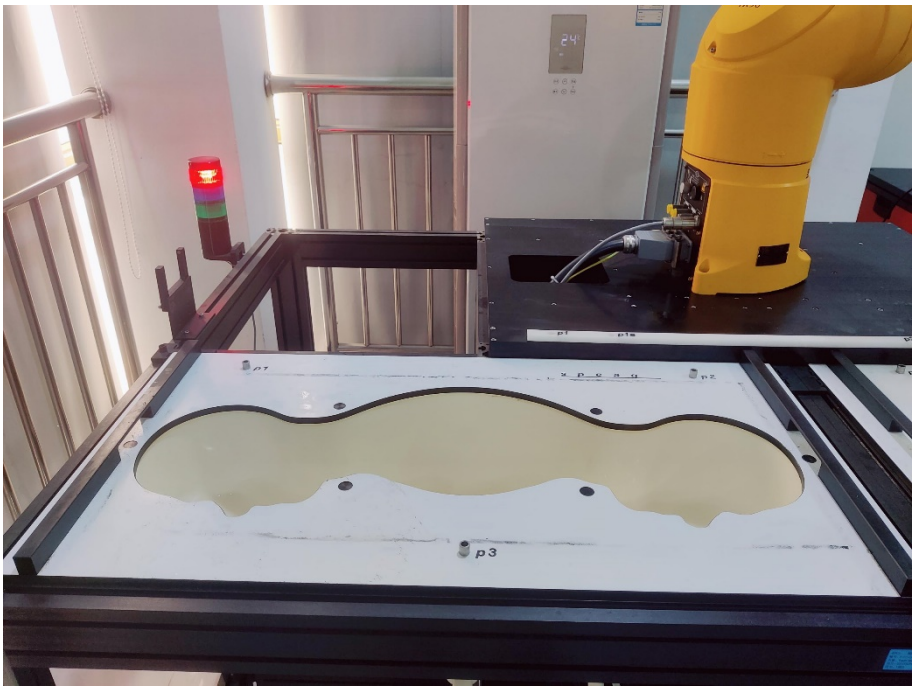
The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

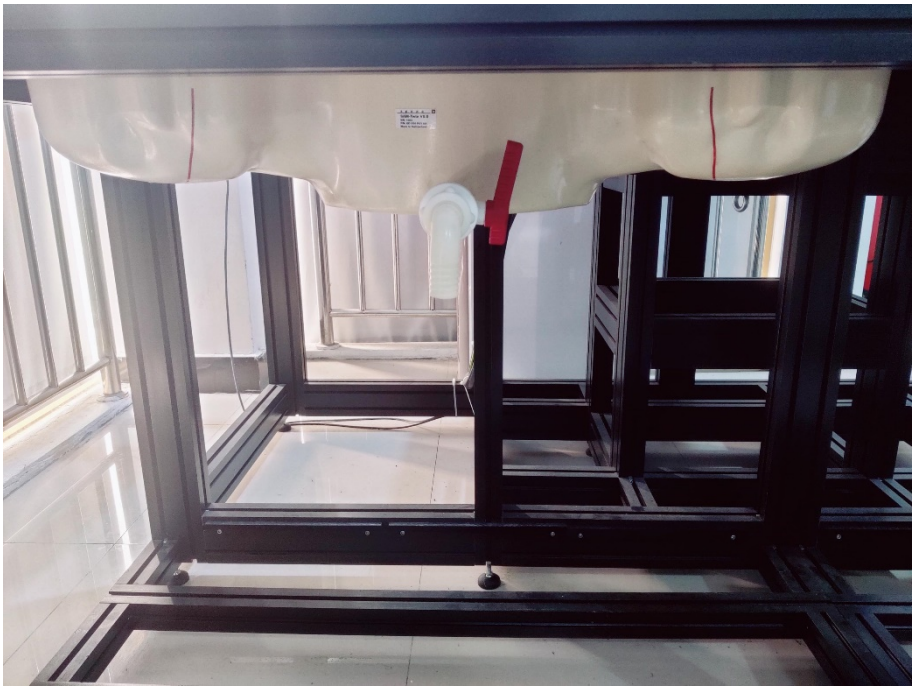
The input impedance of both the DAE4 as well as of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

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 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/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

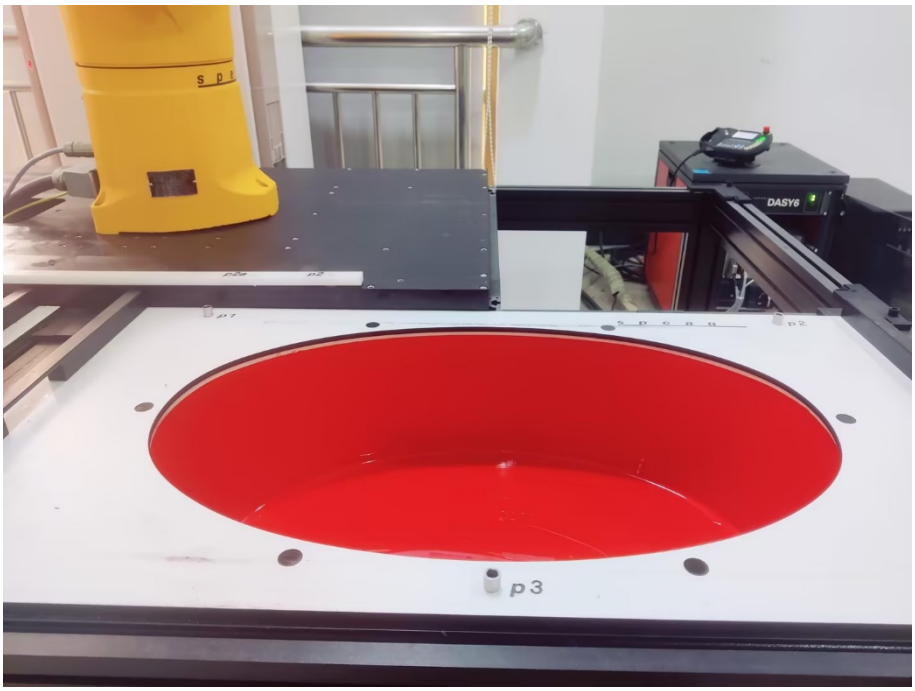




The SAM Twin Phantom (shown in front of DASY6) is a fiberglass shell phantom with shell thickness 2 mm, except in the ear region where the thickness is increased to 6 mm. The phantom has three measurement areas: 1) Left Head, 2) Right Head, and 3) Flat Section. For larger devices, the use of the ELI-Phantom (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 St aubli 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/m^3 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 x7 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
5 000	*36,2*	*4,45*	1,5
5 200	*36,0*	*4,66*	8,4
5 400	*35,8*	*4,86*	8,1
5 600	*35,5*	*5,07*	7,5
5 800	35,3	5,27	7,3
6 000	*35,1*	*5,48*	7,0
6 500	*34,5*	*6,07*	6,7
7 000	*33,9*	*6,65*	6,4
7 500	*33,3*	*7,24*	6,1
8 000	*32,7*	*7,84*	5,9
8 500	*32,1*	*8,46*	5,3
9 000	*31,6*	*9,08*	4,8
9 500	*31,0*	*9,71*	4,4
10 000	*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,750MHz	D750V3	1166	2024/06/17	2027/06/16
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,2300MHz	D2300V2	1098	2025/06/10	2028/06/09
Dipole,2450MHz	D2450V2	970	2024/06/15	2027/06/14
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

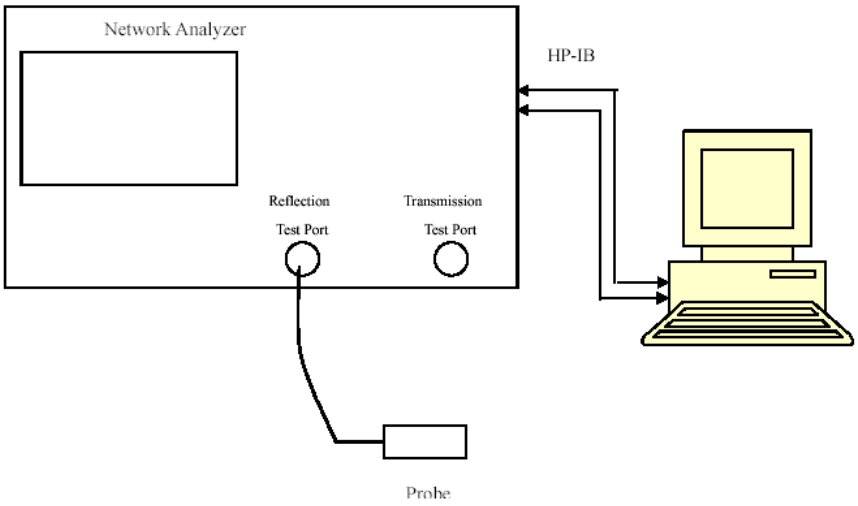
The Dipole calibration methods and procedures used were as detailed in:

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	Δ σ	Δ ε_r	
750	Simulated Tissue Liquid Head	0.905	42.879	0.89	41.9	1.69	2.34	±5
707.5	Simulated Tissue Liquid Head	0.888	43.304	0.89	42.13	-0.22	2.79	±5
704	Simulated Tissue Liquid Head	0.879	43.443	0.89	42.15	-1.24	3.07	±5
711	Simulated Tissue Liquid Head	0.895	43.209	0.89	42.11	0.56	2.61	±5

Liquid Verification above was performed on 2026/01/06.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ε_r	σ (S/m)	ε_r	Δ σ	Δ ε_r	
750	Simulated Tissue Liquid Head	0.909	42.925	0.89	41.9	2.13	2.45	±5
680.5	Simulated Tissue Liquid Head	0.881	43.198	0.89	42.27	-1.01	2.2	±5
673	Simulated Tissue Liquid Head	0.878	43.354	0.88	42.31	-0.23	2.47	±5
688	Simulated Tissue Liquid Head	0.887	43.047	0.89	42.23	-0.34	1.93	±5

Liquid Verification above was performed on 2026/01/07.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ε_r	σ (S/m)	ε_r	Δ σ	Δ ε_r	
750	Simulated Tissue Liquid Head	0.886	43.061	0.89	41.9	-0.45	2.77	±5
793	Simulated Tissue Liquid Head	0.922	42.794	0.9	41.7	2.44	2.62	±5

Liquid Verification above was performed on 2026/01/08.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ε_r	σ (S/m)	ε_r	Δ σ	Δ ε_r	
835	Simulated Tissue Liquid Head	0.921	42.244	0.9	41.5	2.33	1.79	±5
836.6	Simulated Tissue Liquid Head	0.923	42.214	0.9	41.5	2.56	1.72	±5
824.2	Simulated Tissue Liquid Head	0.899	42.408	0.9	41.55	-0.11	2.06	±5
848.8	Simulated Tissue Liquid Head	0.938	42.166	0.91	41.5	3.08	1.6	±5
826.4	Simulated Tissue Liquid Head	0.905	42.387	0.9	41.54	0.56	2.04	±5
846.6	Simulated Tissue Liquid Head	0.937	42.196	0.91	41.5	2.97	1.68	±5

Liquid Verification above was performed on 2026/01/10.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ε_r	σ (S/m)	ε_r	Δ σ	Δ ε_r	
835	Simulated Tissue Liquid Head	0.913	41.856	0.9	41.5	1.44	0.86	±5
836.5	Simulated Tissue Liquid Head	0.915	41.838	0.9	41.5	1.67	0.81	±5
829	Simulated Tissue Liquid Head	0.907	42.091	0.9	41.53	0.78	1.35	±5
844	Simulated Tissue Liquid Head	0.928	41.417	0.91	41.5	1.98	-0.2	±5

Liquid Verification above was performed on 2026/01/11.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ε_r	σ (S/m)	ε_r	Δ σ	Δ ε_r	
1750	Simulated Tissue Liquid Head	1.365	40.362	1.37	40.1	-0.36	0.65	±5
1732.6	Simulated Tissue Liquid Head	1.356	40.629	1.36	40.12	-0.29	1.27	±5
1712.4	Simulated Tissue Liquid Head	1.343	40.725	1.35	40.13	-0.52	1.48	±5
1752.6	Simulated Tissue Liquid Head	1.373	40.276	1.37	40.09	0.22	0.46	±5

Liquid Verification above was performed on 2026/01/08.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ε_r	σ (S/m)	ε_r	Δ σ	Δ ε_r	
1750	Simulated Tissue Liquid Head	1.384	39.978	1.37	40.1	1.02	-0.3	±5
1745	Simulated Tissue Liquid Head	1.372	40.285	1.37	40.1	0.15	0.46	±5
1720	Simulated Tissue Liquid Head	1.359	40.456	1.35	40.13	0.67	0.81	±5
1770	Simulated Tissue Liquid Head	1.392	39.595	1.38	40.06	0.87	-1.16	±5

Liquid Verification above was performed on 2026/01/09.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ε_r	σ (S/m)	ε_r	Δ σ	Δ ε_r	
1900	Simulated Tissue Liquid Head	1.419	39.953	1.4	40	1.36	-0.12	±5
1880	Simulated Tissue Liquid Head	1.397	40.168	1.4	40	-0.21	0.42	±5
1850.2	Simulated Tissue Liquid Head	1.382	40.328	1.4	40	-1.29	0.82	±5
1909.8	Simulated Tissue Liquid Head	1.429	39.881	1.4	40	2.07	-0.3	±5
1852.4	Simulated Tissue Liquid Head	1.386	40.276	1.4	40	-1	0.69	±5
1907.6	Simulated Tissue Liquid Head	1.422	39.896	1.4	40	1.57	-0.26	±5

Liquid Verification above was performed on 2026/01/12.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ε_r	σ (S/m)	ε_r	Δ σ	Δ ε_r	
1900	Simulated Tissue Liquid Head	1.418	38.947	1.4	40	1.29	-2.63	±5
1880	Simulated Tissue Liquid Head	1.403	39.189	1.4	40	0.21	-2.03	±5
1860	Simulated Tissue Liquid Head	1.397	39.423	1.4	40	-0.21	-1.44	±5

Liquid Verification above was performed on 2026/01/13.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ε_r	σ (S/m)	ε_r	Δ σ	Δ ε_r	
2300	Simulated Tissue Liquid Head	1.656	38.702	1.67	39.5	-0.84	-2.02	±5
2310	Simulated Tissue Liquid Head	1.671	38.658	1.68	39.48	-0.54	-2.08	±5

Liquid Verification above was performed on 2026/01/14.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ε_r	σ (S/m)	ε_r	Δ σ	Δ ε_r	
2450	Simulated Tissue Liquid Head	1.843	38.905	1.8	39.2	2.39	-0.75	±5
2437	Simulated Tissue Liquid Head	1.825	39.183	1.79	39.23	1.96	-0.12	±5
2412	Simulated Tissue Liquid Head	1.817	39.314	1.77	39.28	2.66	0.09	±5
2462	Simulated Tissue Liquid Head	1.851	38.703	1.81	39.18	2.27	-1.22	±5

Liquid Verification above was performed on 2026/01/18.

System Accuracy Verification

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

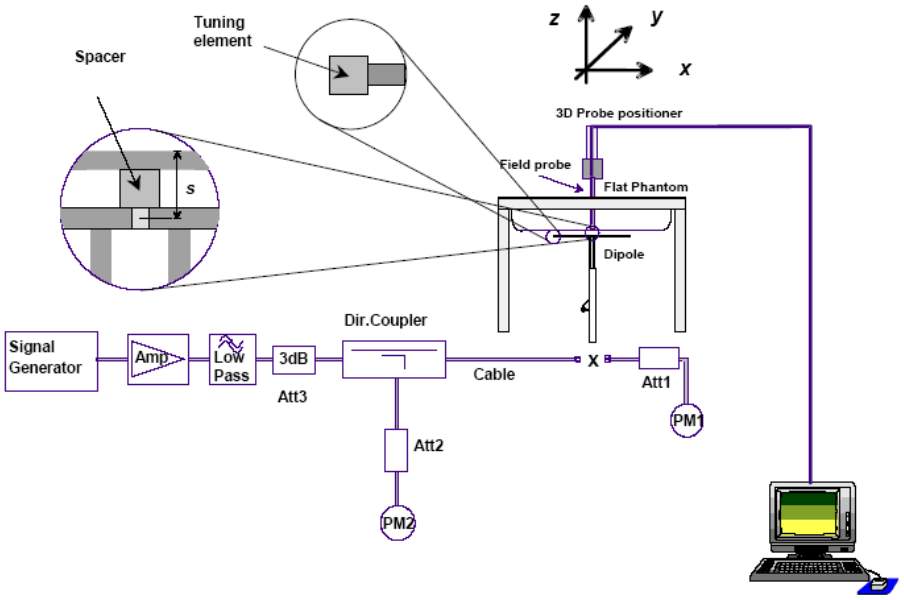
The spacing distance*s* in the **System Verification Setup Block Diagram** is given by the following:

a) s = 15 mm ± 0,2 mm for 300 MHz ≤ f ≤ 1 000 MHz;

b) s = 10 mm ± 0,2 mm for 1 000 MHz < f ≤ 3 000 MHz;

c) s = 10 mm ± 0,2 mm for 3 000 MHz < f ≤ 6 000 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 (%)
2026/01/06	750MHz	Head	100	1g	0.839	8.39	8.45	-0.71	±10
2026/01/07	750MHz	Head	100	1g	0.824	8.24	8.45	-2.49	±10
2026/01/08	750MHz	Head	100	1g	0.834	8.34	8.45	-1.30	±10
2026/01/10	835MHz	Head	100	1g	0.962	9.62	9.50	1.26	±10
2026/01/11	835MHz	Head	100	1g	0.985	9.85	9.50	3.68	±10
2026/01/08	1750MHz	Head	100	1g	3.78	37.8	36.00	5.00	±10
2026/01/09	1750MHz	Head	100	1g	3.81	38.1	36.00	5.83	±10
2026/01/12	1900MHz	Head	100	1g	3.95	39.5	39.20	0.77	±10
2026/01/13	1900MHz	Head	100	1g	4.09	40.9	39.20	4.34	±10
2026/01/14	2300MHz	Head	100	1g	5.02	50.2	49.6	1.21	±10
2026/01/18	2450MHz	Head	100	1g	5.28	52.8	53.10	-0.56	±10

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

SAR SYSTEM VALIDATION DATA

System Check_Head_750MHz on 2026/01/06
DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1166

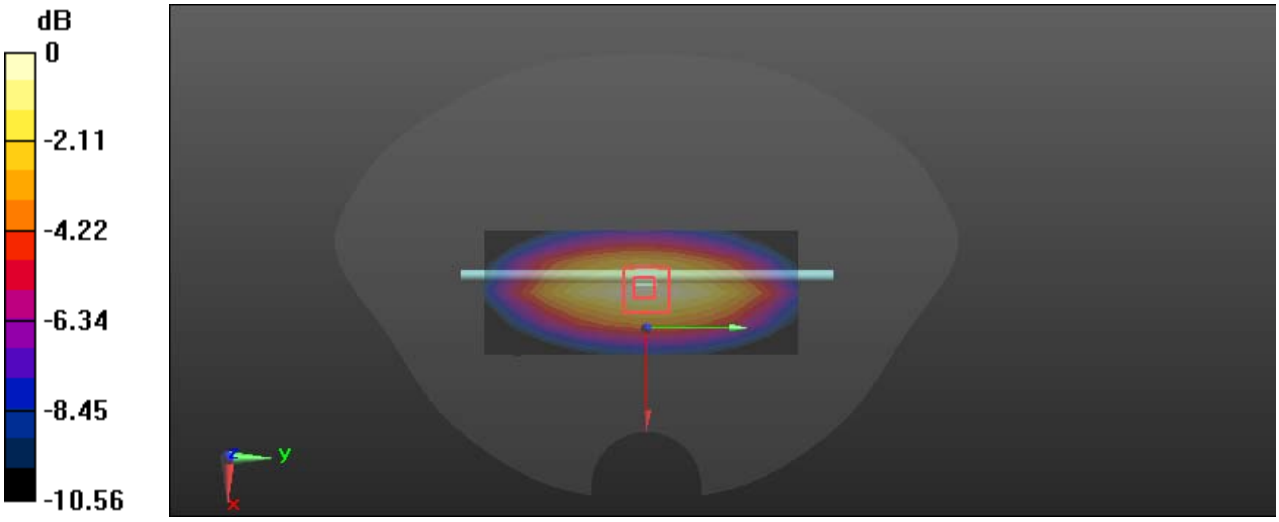
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.905 S/m; ε_r = 42.879; ρ = 1000 kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(10.37, 10.37, 10.37) @ 750 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 (5x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.13 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.69 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.839 W/kg; SAR(10 g) = 0.550 W/kg
Smallest distance from peaks to all points 3 dB below = 16 mm
Ratio of SAR at M2 to SAR at M1 = 63.5%
Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

System Check_Head_750MHz on 2026/01/07
DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1166

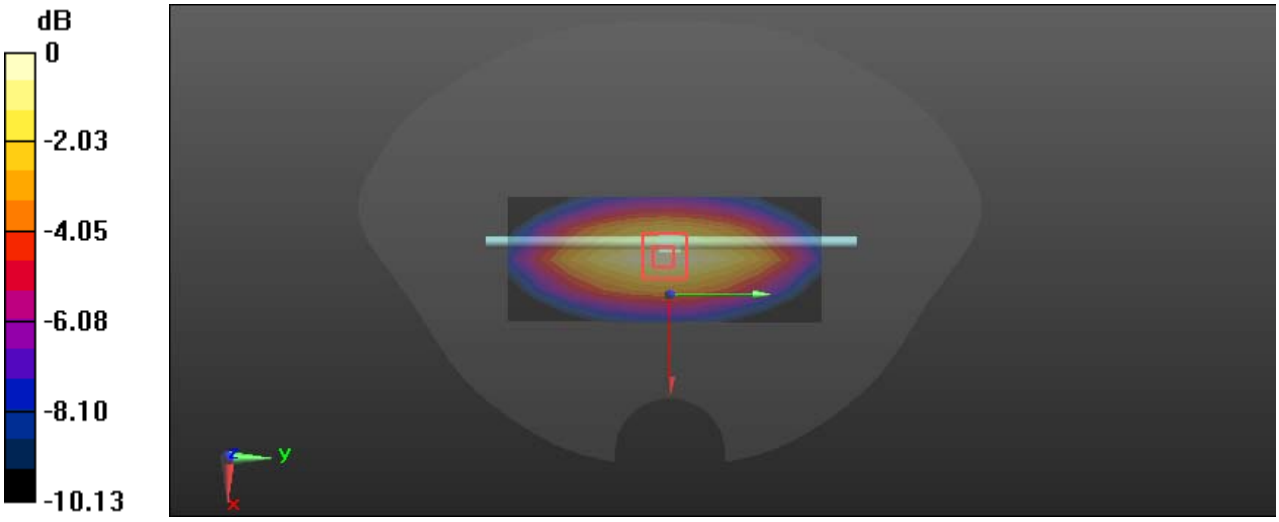
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.909 S/m; ε_r = 42.925; ρ = 1000 kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(10.37, 10.37, 10.37) @ 750 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 (5x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.08 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.43 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.548 W/kg
Smallest distance from peaks to all points 3 dB below = 18.6 mm
Ratio of SAR at M2 to SAR at M1 = 67.7%
Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg = 0.37 dBW/kg

System Check_Head_750MHz on 2026/01/08
DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1166

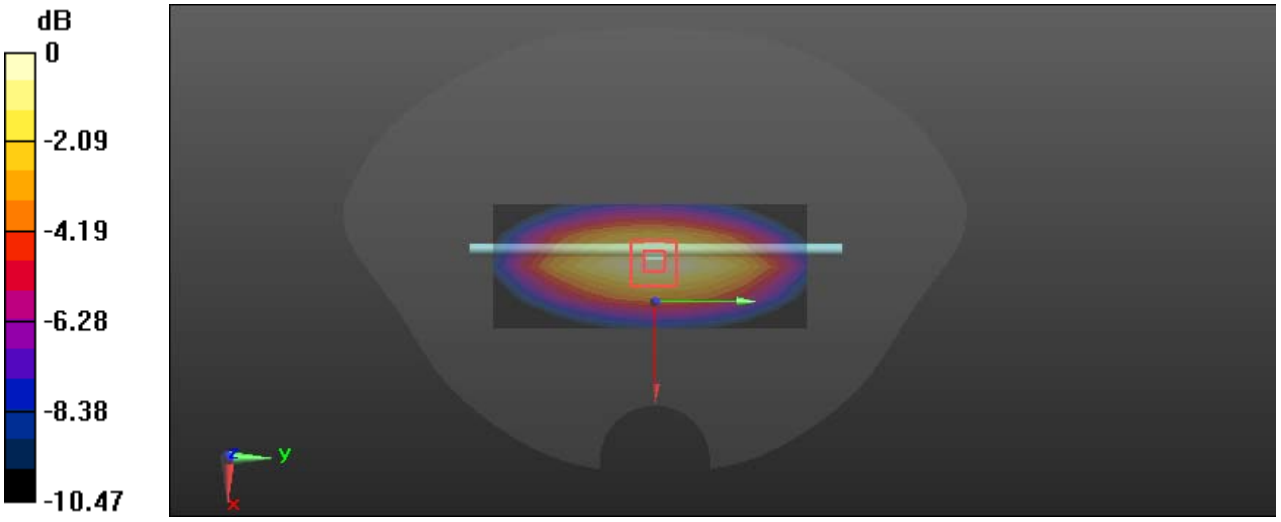
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.886 S/m; ε_r = 43.061; ρ = 1000 kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(10.37, 10.37, 10.37) @ 750 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 (5x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.11 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.61 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.834 W/kg; SAR(10 g) = 0.547 W/kg
Smallest distance from peaks to all points 3 dB below = 16 mm
Ratio of SAR at M2 to SAR at M1 = 63.3%
Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

System Check_Head_835MHz on 2026/01/10
DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:445

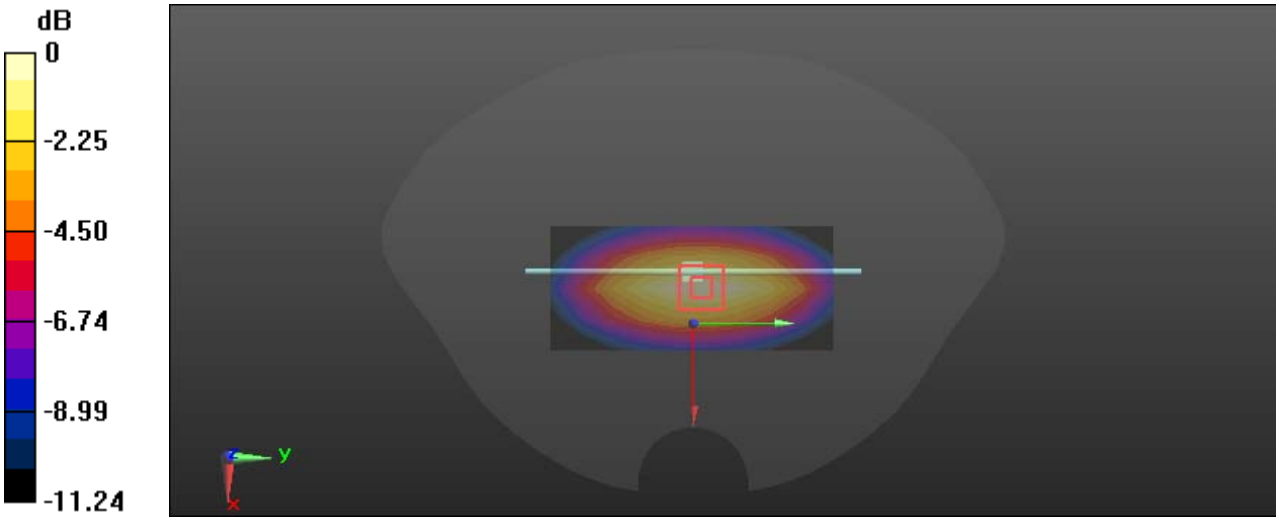
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.921 S/m; ε_r = 42.244; ρ = 1000 kg/m^3

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=100mW/Area Scan (5x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.29 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.92 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 0.962 W/kg; SAR(10 g) = 0.619 W/kg
Smallest distance from peaks to all points 3 dB below = 16 mm
Ratio of SAR at M2 to SAR at M1 = 64.7%
Maximum value of SAR (measured) = 1.29 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg

System Check_Head_835MHz on 2026/01/11
DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:445

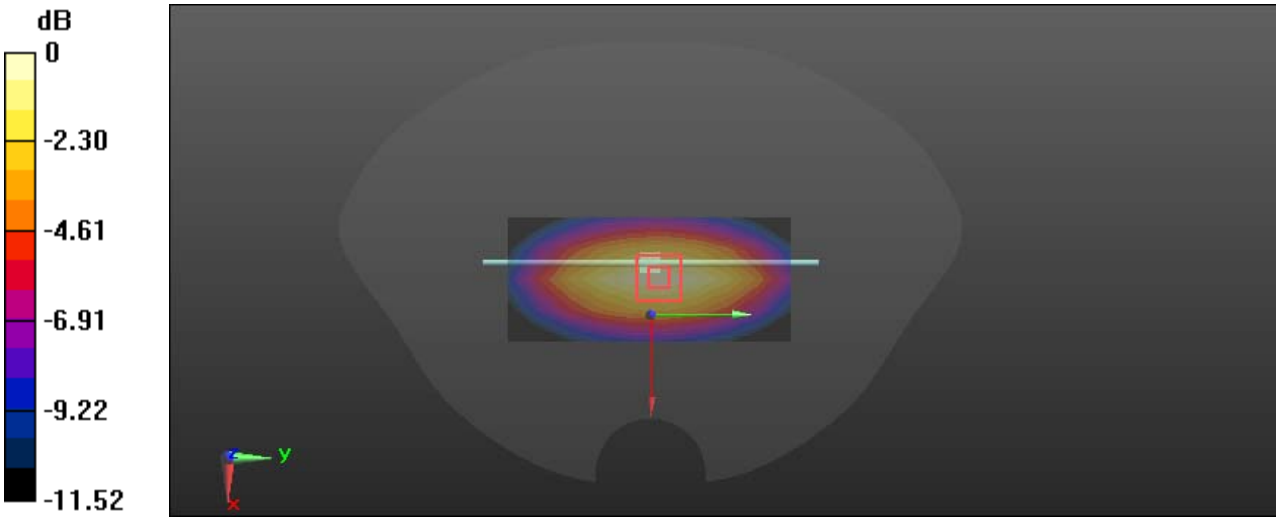
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.913 S/m; ε_r = 41.856; ρ = 1000 kg/m^3

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=100mW/Area Scan (5x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.33 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.77 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 1.52 W/kg
SAR(1 g) = 0.985 W/kg; SAR(10 g) = 0.639 W/kg
Smallest distance from peaks to all points 3 dB below = 16 mm
Ratio of SAR at M2 to SAR at M1 = 64.9%
Maximum value of SAR (measured) = 1.33 W/kg



0 dB = 1.33 W/kg = 1.24 dBW/kg

System Check_Head_1750MHz on 2026/01/08
DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1140

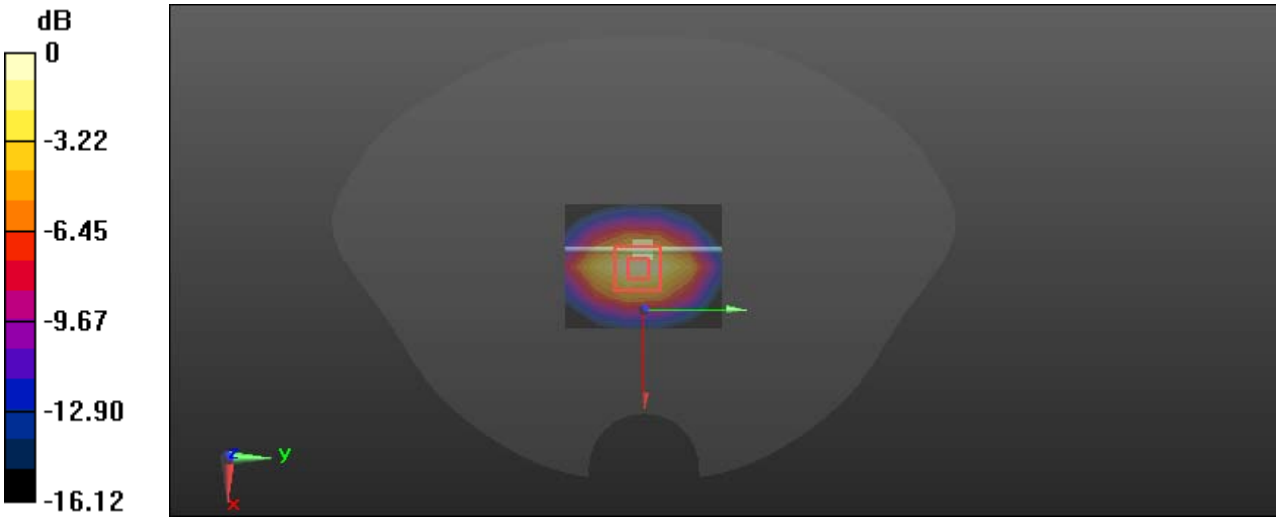
Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.365 S/m; ε_r = 40.362; ρ = 1000 kg/m^3

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=100mW/Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.63 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 52.98 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 7.07 W/kg
SAR(1 g) = 3.78 W/kg; SAR(10 g) = 2 W/kg
Smallest distance from peaks to all points 3 dB below = 10.7 mm
Ratio of SAR at M2 to SAR at M1 = 53.1%
Maximum value of SAR (measured) = 5.86 W/kg



0 dB = 5.86 W/kg = 7.68 dBW/kg

System Check_Head_1750MHz on 2026/01/09
DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1140

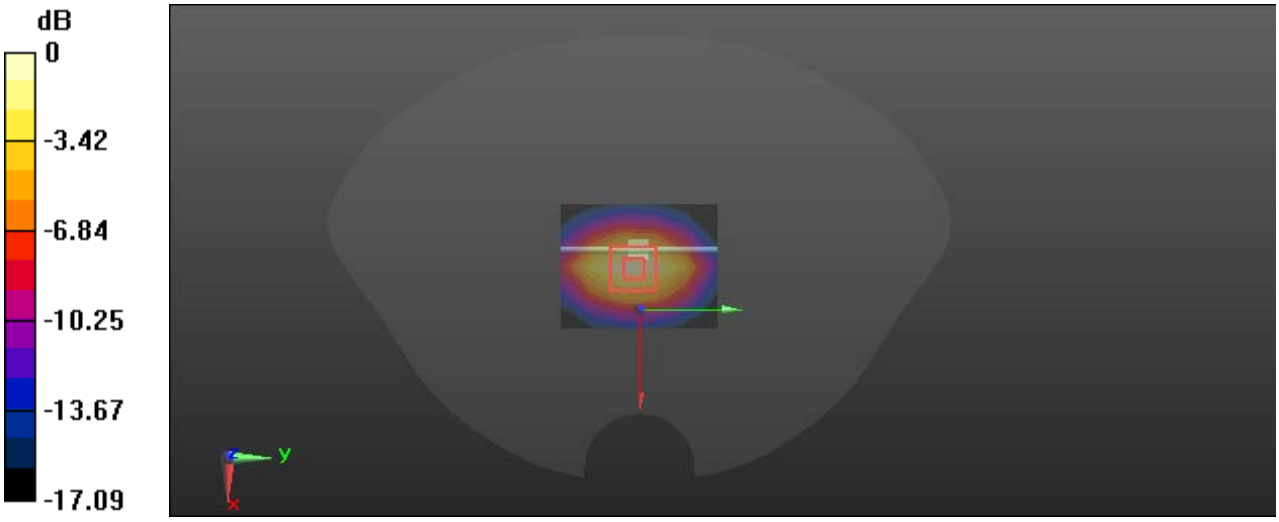
Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.384 S/m; ε_r = 39.978; ρ = 1000 kg/m^3

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=100mW/Area Scan (5x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.81 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 53.20 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 7.11 W/kg
SAR(1 g) = 3.81 W/kg; SAR(10 g) = 2.02 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 53.3%
Maximum value of SAR (measured) = 5.91 W/kg



0 dB = 5.91 W/kg = 7.72 dBW/kg

System Check_Head_1900MHz on 2026/01/12
DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d206

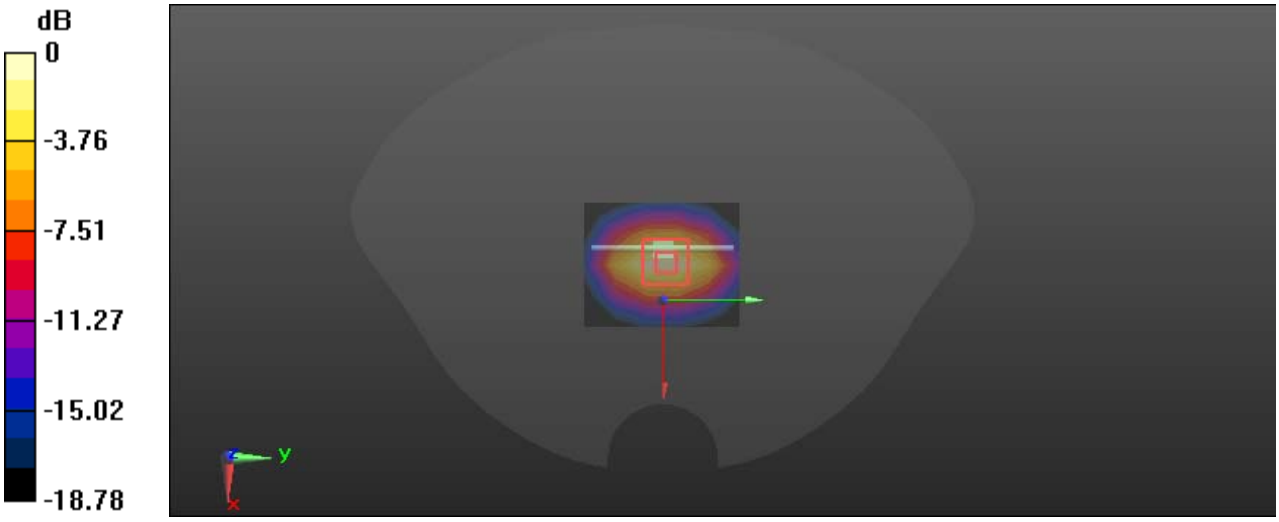
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.419 S/m; ε_r = 39.953; ρ = 1000 kg/m^3

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 (5x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.92 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 56.24 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 7.53 W/kg
SAR(1 g) = 3.95 W/kg; SAR(10 g) = 2.01 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 52.4%
Maximum value of SAR (measured) = 6.22 W/kg



0 dB = 6.22 W/kg = 7.94 dBW/kg

System Check_Head_1900MHz on 2026/01/13
DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d206

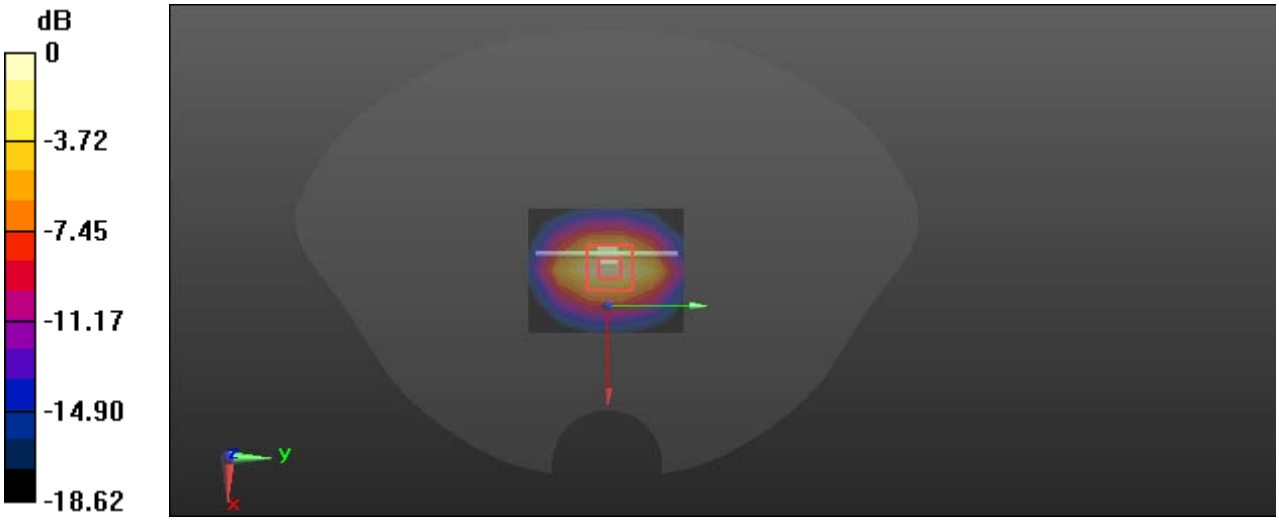
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.418 S/m; ε_r = 38.947; ρ = 1000 kg/m^3

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 (5x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 6.06 W/kg

Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 56.55 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 7.84 W/kg
SAR(1 g) = 4.09 W/kg; SAR(10 g) = 2.09 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 52.1%
Maximum value of SAR (measured) = 6.50 W/kg



0 dB = 6.50 W/kg = 8.13 dBW/kg

Plot *#: Procedure Name: 2300 MHz

DUT: Dipole 2300 MHz D2300V2; Type: D2300V2; Serial: D2300V2 - SN:1098

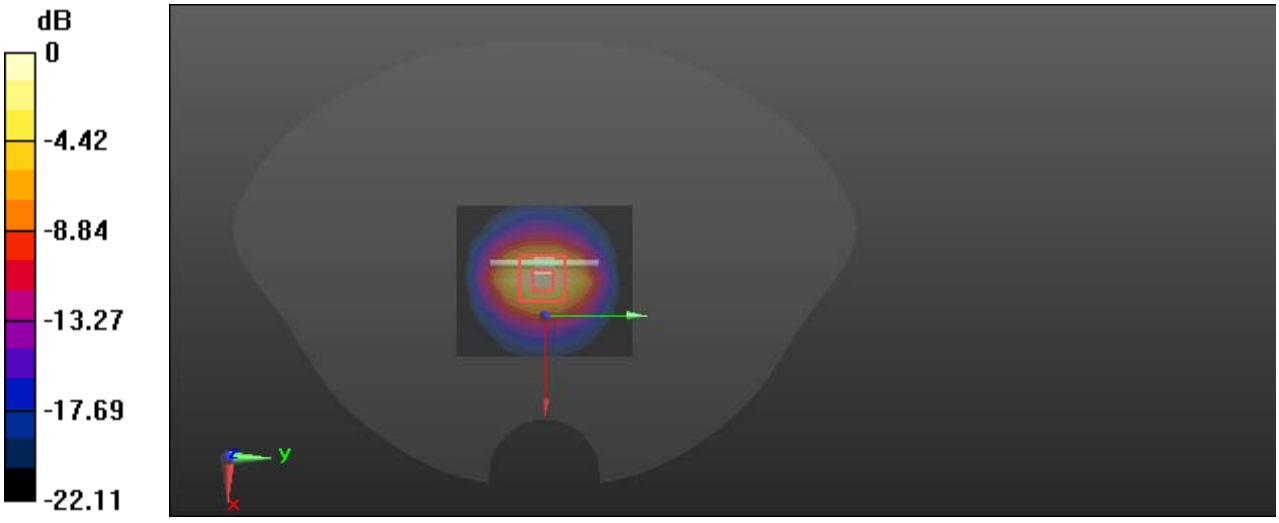
Communication System: UID 0, CW (0); Frequency: 2300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2300 MHz; σ = 1.656 S/m; ε_r = 38.702; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(7.7, 7.7, 7.7) @ 2300 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 (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 7.86 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.98 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 10.6 W/kg
SAR(1 g) = 5.02 W/kg; SAR(10 g) = 2.28 W/kg
Smallest distance from peaks to all points 3 dB below = 8.1 mm
Ratio of SAR at M2 to SAR at M1 = 48.2%
Maximum value of SAR (measured) = 8.37 W/kg



0 dB = 8.37 W/kg = 9.23 dBW/kg

System Check_Head_2450MHz
DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:970

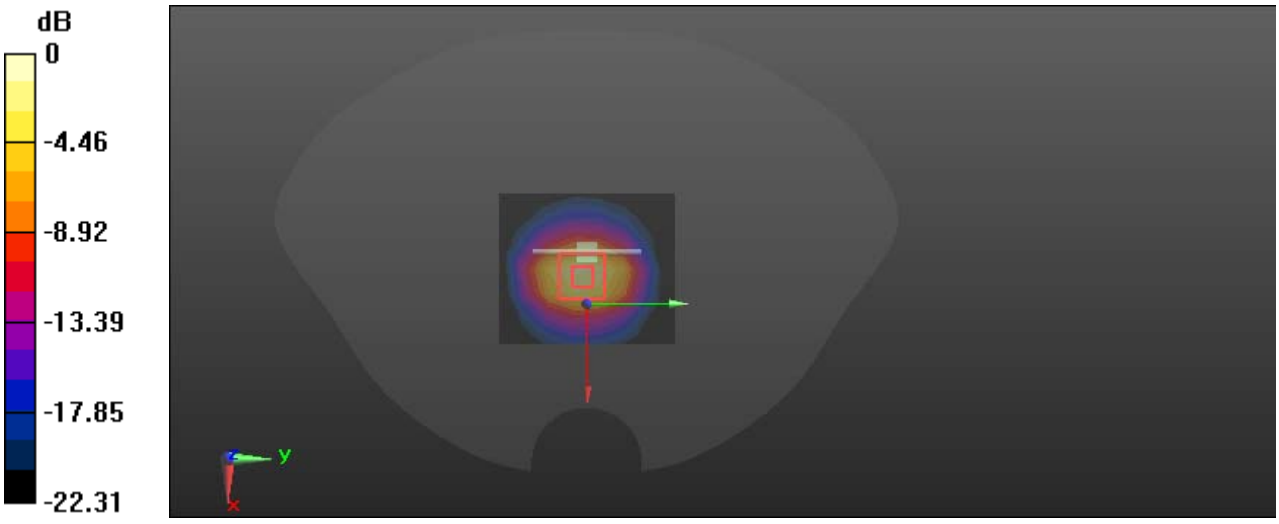
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.843 S/m; ε_r = 38.905; ρ = 1000 kg/m^3

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 (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 7.16 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.86 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 11.4 W/kg
SAR(1 g) = 5.28 W/kg; SAR(10 g) = 2.39 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 46.9%
Maximum value of SAR (measured) = 9.08 W/kg



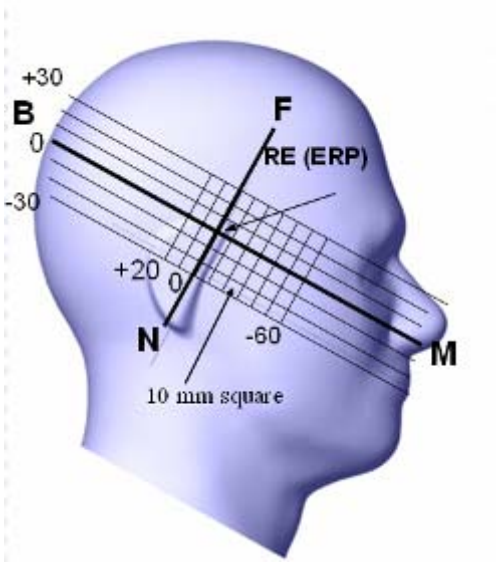
0 dB = 9.08 W/kg = 9.58 dBW/kg

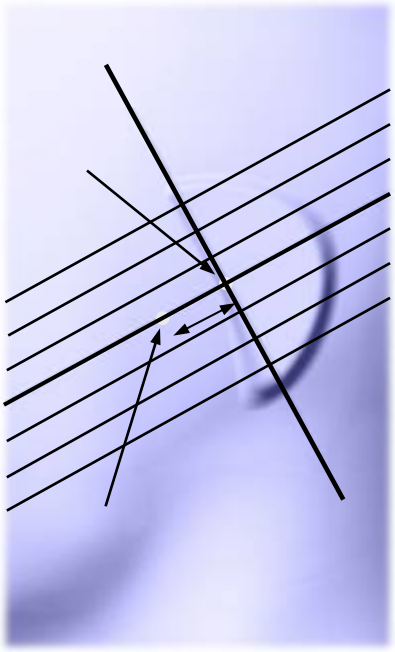
EUT TEST STRATEGY AND METHODOLOGY

Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¼ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point". The "test device reference point" should be located at the same level as the center of the earpiece region. The "vertical centerline" should bisect the front surface of the handset at its top and bottom edges. A "ear reference point" is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the "phantom reference plane" defined by the three lines joining the center of each "ear reference point" (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the "N-F" line defined along the base of the ear spacer that contains the "ear reference point". For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The "test device reference point" is aligned to the "ear reference point" on the head phantom and the "vertical centerline" is aligned to the "phantom reference plane". This is called the "initial ear position". While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:





Cheek/Touch Position

The device is brought toward the mouth of the head phantom by pivoting against the "ear reference point" or along the "N-F" line for the SCC-34/SC-2 head phantom.

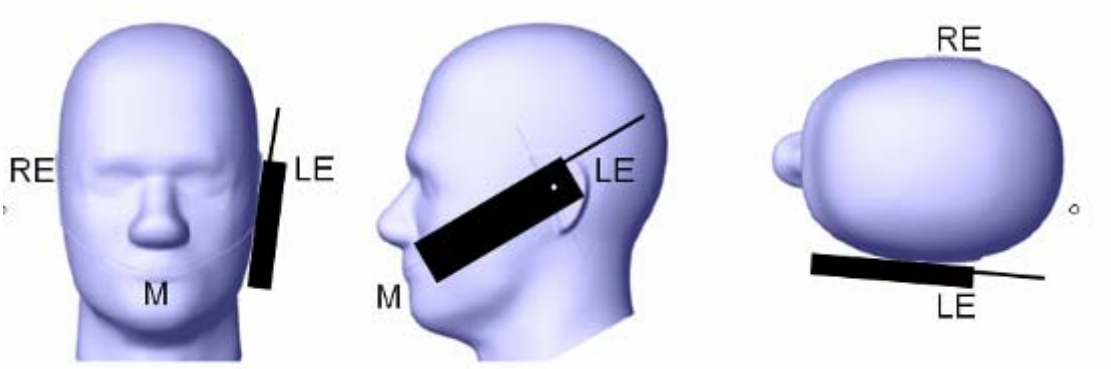
This test position is established:

When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

(or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

Cheek /Touch Position



Ear/Tilt Position

With the handset aligned in the "Cheek/Touch Position":

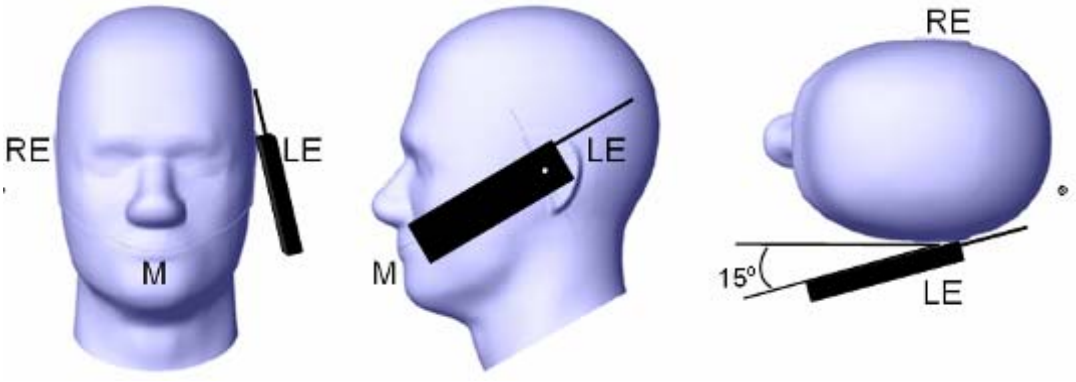
1) If the earpiece of the handset is not in full contact with the phantom's ear spacer (in the "Cheek/Touch position") and the peak SAR location for the "Cheek/Touch" position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the "initial ear position" by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.

2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both "ear reference points" (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the "test device reference point" until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point isby 15 80°. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both "ear reference points" until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and right side of the head phantom in the "Cheek/Touch" and "Ear/Tilt" positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the

SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

Ear /Tilt 15° Position



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.

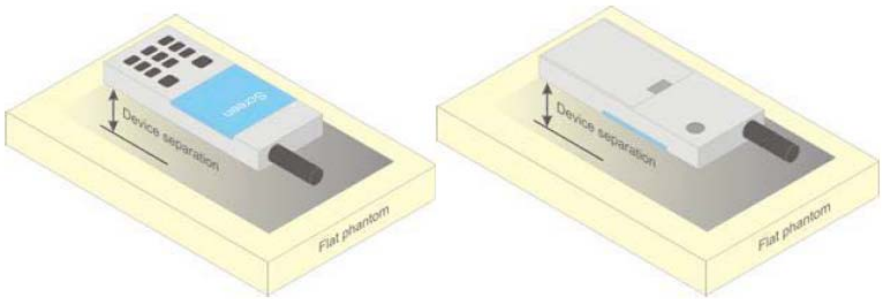


Figure 5 – Test positions for body-worn devices

Test Distance for SAR Evaluation

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

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.

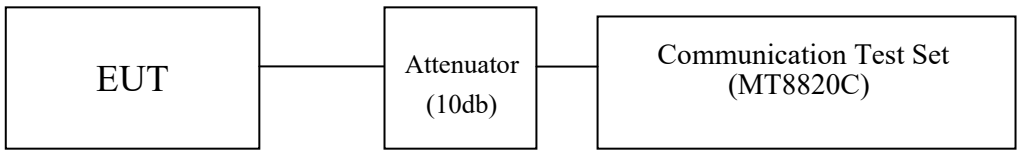
All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

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.

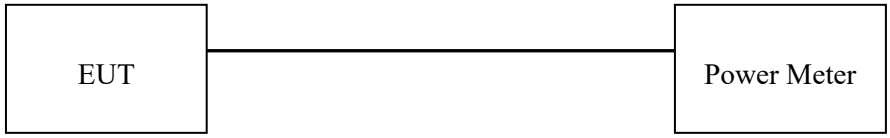
CONDUCTED OUTPUT POWER MEASUREMENT

Test Procedure

The RF output of the transmitter was connected to the input of the Communication Test Set through Attenuator.



GSM/WCDMA/LTE



WLAN/Bluetooth

Radio Configuration

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

GSM/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 stabe)
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
	β_d(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			
	Ahs=βhs/ βc	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				
	Ahs=β_{hs}/β_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_FCIs	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	

FDD-LTE

For UE Power Class 1 and 3, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2-1due 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	-	-	-	-	-

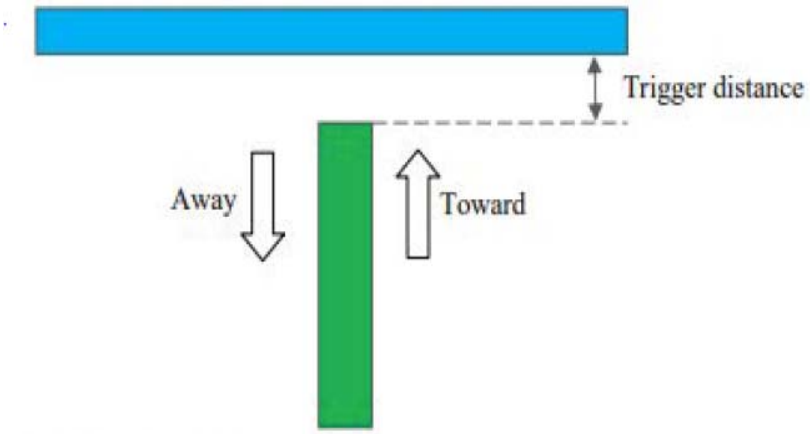
Proximity Sensor Operation

Triggering distances (Per KDB 616217)

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (6000MHz) and lowest (600MHz) frequency was used for proximity sensor triggering testing. It should be applied to determine proximity sensor triggering distances for the back surface and individual edges of a tablet.

2. Capacitive proximity sensor placed coincident with antenna elements at the Back end of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back or Bottom of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support. Sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna

3. The device employs proximity sensors that detect the presence of the user's body at the front or back or bottom side of the device. When front or back surface or bottom edge of body worn condition is detected, PCS 1900/WCDMA Band II/WCDMA Band IV/LTE Band 2/LTE Band 4//LTE Band 30/LTE Band 66 reduced power will be active. Other mode or frequency band can't be active. (P-sensor can't work at detecting presence of the user's body at the top, left edges, right edges of the device.)



The minimum detection distances determined as below:

Proximity Sensor Triggering Distance (mm) and Triggering Power(dBm)

PCS 1900(Unfold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	24	25	30	31	32	33
Front edge	Toward	26.4	26.4	26.4	26.4	26.4	26.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
	Away	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
Back edge	Toward	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	30.4	30.4	30.4
	Away	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	30.4
Bottom edge	Toward	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
	Away	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	30.4	30.4	30.4	30.4	30.4

WCDMA Band II(Unfold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	24	25	30	31	32	33
Front edge	Toward	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24	24
	Away	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24
Back edge	Toward	20	20	20	20	20	20	20	20	20	20	20	20	20	24	24	24
	Away	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	24
Bottom edge	Toward	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24
	Away	20	20	20	20	20	20	20	20	20	20	20	24	24	24	24	24

WCDMA Band IV(Unfold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	24	25	30	31	32	33
Front edge	Toward	20.7	20.7	20.7	20.7	20.7	20.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
	Away	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
Back edge	Toward	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	23.7	23.7	23.7
	Away	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	23.7
Bottom edge	Toward	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
	Away	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	23.7	23.7	23.7	23.7	23.7

LTE Band 2(Unfold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	24	25	30	31	32	33
Front edge	Toward	20.7	20.7	20.7	20.7	20.7	20.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
	Away	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
Back edge	Toward	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	24.7	24.7	24.7
	Away	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	24.7
Bottom edge	Toward	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
	Away	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	24.7	24.7	24.7	24.7	24.7

LTE Band 66&4(Unfold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	24	25	30	31	32	33
Front edge	Toward	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
	Away	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Back edge	Toward	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5
	Away	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5
Bottom edge	Toward	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
	Away	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5	24.5	24.5

LTE Band 30(Unfold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	24	25	30	31	32	33
Front edge	Toward	21.5	21.5	21.5	21.5	21.5	21.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
	Away	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
Back edge	Toward	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.5	23.5	23.5
	Away	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.5
Bottom edge	Toward	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
	Away	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.5	23.5	23.5	23.5	23.5

PCS 1900(Fold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	27	28	29	30	31	32
Back edge	Toward	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	30.4	30.4	30.4	30.4
	Away	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	30.4	30.4
Bottom edge	Toward	26.4	26.4	26.4	26.4	26.4	26.4	26.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
	Away	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4

WCDMA Band II(Fold):

Distance		0	5	10	15	18	19	20	21	22	23	27	28	29	30	31	32
Back edge	Toward	20	20	20	20	20	20	20	20	20	20	20	20	24	24	24	24
	Away	20	20	20	20	20	20	20	20	20	20	20	20	20	20	24	24
Bottom edge	Toward	20	20	20	20	20	20	20	24	24	24	24	24	24	24	24	24
	Away	20	20	20	20	20	20	20	20	20	24	24	24	24	24	24	24

WCDMA Band IV(Fold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	27	28	29	30	31	32
Back edge	Toward	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	23.7	23.7	23.7	23.7
	Away	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	23.7	23.7
Bottom edge	Toward	20.7	20.7	20.7	20.7	20.7	20.7	20.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
	Away	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7

LTE Band 2(Fold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	27	28	29	30	31	32
Back edge	Toward	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	24.7	24.7	24.7	24.7
	Away	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	24.7	24.7
Bottom edge	Toward	20.7	20.7	20.7	20.7	20.7	20.7	20.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
	Away	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7

LTE Band 66&4(Fold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	27	28	29	30	31	32
Back edge	Toward	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5	24.5
	Away	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5
Bottom edge	Toward	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
	Away	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5

LTE Band 30(Fold):

Distance(mm)		0	5	10	15	18	19	20	21	22	23	27	28	29	30	31	32
Back edge	Toward	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.5	23.5	23.5	23.5
	Away	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.5	23.5
Bottom edge	Toward	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
	Away	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5

Note: each side minimum detection distance was performed with below:
Toward: moving toward the phantom
Away: Moving away from the phantom

Summary of trigger distances:

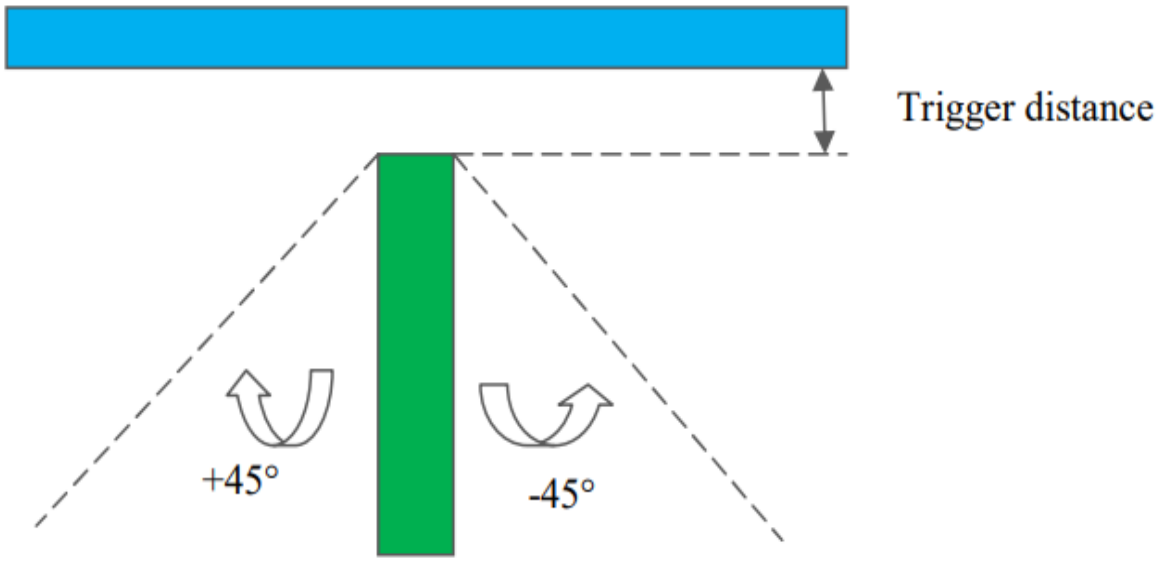
Band	Front edge		Back edge		Bottom edge	
	Toward(mm)	Away(mm)	Toward(mm)	Away(mm)	Toward(mm)	Away(mm)
PCS 1900(Unfold)	19	21	30	32	22	24
WCDMA Band II(Unfold)	19	21	30	32	22	24
WCDMA Band IV(Unfold)	19	21	30	32	22	24
LTE Band 2(Unfold)	19	21	30	32	22	24
LTE Band 30(Unfold)	19	21	30	32	22	24
LTE Band 66&4(Unfold)	19	21	30	32	22	24
PCS 1900(Fold)	/	/	28	30	20	22
WCDMA Band II(Fold)	/	/	28	30	20	22
WCDMA Band IV(Fold)	/	/	28	30	20	22
LTE Band 2(Fold)	/	/	28	30	20	22
LTE Band 30(Fold)	/	/	28	30	20	22
LTE Band 66&4(Fold)	/	/	28	30	20	22

Note: The SAR sensor acts on the PCS 1900/WCDMA Band II/WCDMA Band IV/LTE Band 2/LTE Band 4/LTE Band 30/LTE Band 66 antenna

Tilt angle

The influence of device tilt angles to proximity sensor triggering was determined by positioning each device edge that contains a transmitting antenna, perpendicular to the flat phantom, at 4 mm separation.

Rotating the device around the edge next to the phantom in ⩽10°increments until the device is±45°from the vertical position at 0°. And the maximum output power remains in the reduced mode.



Proximity Sensor Status Table

Minimum Distance(mm)	-45	-40	-30	-20	-10	0	10	20	30	40	45
19(Front Unfold)	on	on	on	on	on	on	on	on	on	on	on
30(Back Unfold)	on	on	on	on	on	on	on	on	on	on	on
22(Bottom Unfold)	on	on	on	on	on	on	on	on	on	on	on
28(Back Fold)	on	on	on	on	on	on	on	on	on	on	on
20(Bottom Fold)	on	on	on	on	on	on	on	on	on	on	on

Resulting test positions for SAR measurements

Wireless Technologies	Position	Triggering Distance(mm)	Worst case distance For SAR(mm) (Sensor was not triggered)
WWAN	Front Unfold	19	19
	Back Unfold	30	30
	Bottom Unfold	22	22
	Back Fold	28	28
	Bottom Fold	20	20

Note: When the sensor is off, the test distance of the Body Back(25mm), the test distance of the Body Front(15mm) and the test distance of the Body Bottom(10mm). This is stricter than the worst case distance for SAR at the Resulting test positions for SAR measurements in the above table.

Maximum Target Output Power

Full Power Target power

Max Target Power(dBm)			
Mode/Band	Channel		
	Low	Middle	High
GSM 850	33.4	33.4	33.4
GPRS 1 TX Slot	33.4	33.4	33.4
GPRS 2 TX Slot	32.5	32.5	32.5
GPRS 3 TX Slot	30.5	30.5	30.5
GPRS 4 TX Slot	29.3	29.3	29.3
EDGE 1 TX Slot	27.2	27.2	27.2
EDGE 2 TX Slot	25.9	25.9	25.9
EDGE 3 TX Slot	23.7	23.7	23.7
EDGE 4 TX Slot	22.4	22.4	22.4
PCS 1900	30.4	30.4	30.4
GPRS 1 TX Slot	30.3	30.3	30.3
GPRS 2 TX Slot	29.1	29.1	29.1
GPRS 3 TX Slot	26.9	26.9	26.9
GPRS 4 TX Slot	25.9	25.9	25.9
EDGE 1 TX Slot	26.6	26.6	26.6
EDGE 2 TX Slot	25.4	25.4	25.4
EDGE 3 TX Slot	23.1	23.1	23.1
EDGE 4 TX Slot	21.8	21.8	21.8
WCDMA Band II	24	24	24
HSDPA	22.1	22.1	22.1
HSUPA	22.4	22.4	22.4
WCDMA Band IV	23.7	23.7	23.7
HSDPA	21.9	21.9	21.9
HSUPA	22.1	22.1	22.1
WCDMA Band V	24	24	24
HSDPA	22.2	22.2	22.2
HSUPA	22.5	22.5	22.5
LTE Band 2	24.7	24.7	24.7
LTE Band 4	24.5	24.5	24.5
LTE Band 5	25.0	25.0	25.0
LTE Band 12	25.0	25.0	25.0
LTE Band 14	24.6	24.6	24.6

Max Target Power(dBm)			
Mode/Band	Channel		
	Low	Middle	High
LTE Band 30	23.5	23.5	23.5
LTE Band 66	24.5	24.5	24.5
LTE Band 71	25.0	25.0	25.0
WLAN 2.4G(802.11b)	16.5	16.5	16.5
WLAN 2.4G(802.11g)	15.0	15.0	15.0
WLAN 2.4G(802.11n ht20)	14.0	14.0	14.0
Bluetooth BDR	7.0	7.0	7.0
Bluetooth EDR	6.5	6.5	6.5
Bluetooth LE 1M	7.0	7.0	7.0

Note：
1. The Maximum Target Power for LTE bands corresponds to their maximum power in QPSK modes with maximum bandwidth.

Reduction Target power

Max Target Power(dBm)			
Mode/Band	Channel		
	Low	Middle	High
PCS 1900	26.4	26.4	26.4
GPRS 1 TX Slot	26.3	26.3	26.3
GPRS 2 TX Slot	25.1	25.1	25.1
GPRS 3 TX Slot	22.9	22.9	22.9
GPRS 4 TX Slot	21.9	21.9	21.9
EDGE 1 TX Slot	22.6	22.6	22.6
EDGE 2 TX Slot	21.4	21.4	21.4
EDGE 3 TX Slot	19.1	19.1	19.1
EDGE 4 TX Slot	17.8	17.8	17.8
WCDMA Band II	20	20	20
HSDPA	18.1	18.1	18.1
HSUPA	18.4	18.4	18.4
WCDMA Band IV	20.7	20.7	20.7
HSDPA	18.9	18.9	18.9
HSUPA	19.1	19.1	19.1
LTE Band 2	20.7	20.7	20.7
LTE Band 4	20.5	20.5	20.5
LTE Band 30	21.5	21.5	21.5
LTE Band 66	20.5	20.5	20.5

Note：
1. The Maximum Target Power for LTE bands corresponds to their maximum power in QPSK modes with maximum bandwidth.

Test Results:

Maximum Output Power:

GSM:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
GSM 850	128	824.2	33.21
	190	836.6	33.27
	251	848.8	**33.33**
PCS 1900	512	1850.2	**30.28**
	661	1880	30.19
	810	1909.8	30.21

GPRS:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	33.17	32.16	30.00	28.96
	190	836.6	33.30	32.22	30.24	29.09
	251	848.8	33.30	32.41	30.37	29.22
PCS 1900	512	1850.2	30.17	29.04	26.78	25.63
	661	1880	30.04	28.90	26.59	25.52
	810	1909.8	30.06	28.99	26.77	25.80

EDGE:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	27.07	25.77	23.56	22.25
	190	836.6	26.87	25.75	23.56	22.09
	251	848.8	26.82	25.64	23.50	22.15
PCS 1900	512	1850.2	26.03	24.86	22.60	21.39
	661	1880	26.46	25.18	22.90	21.35
	810	1909.8	26.40	25.29	22.99	21.71

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 GSM

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
GSM 850	128	824.2	24.21
	190	836.6	24.27
	251	848.8	24.33
PCS 1900	512	1850.2	21.28
	661	1880	21.19
	810	1909.8	21.21

The time based average power for GPRS

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	24.17	26.16	25.75	25.96
	190	836.6	24.3	26.22	25.99	26.09
	251	848.8	24.3	**26.41**	26.12	26.22
PCS 1900	512	1850.2	21.17	**23.04**	22.53	22.63
	661	1880	21.04	22.9	22.34	22.52
	810	1909.8	21.06	22.99	22.52	22.8

The time based average power for EDGE

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	18.07	19.77	19.31	19.25
	190	836.6	17.87	19.75	19.31	19.09
	251	848.8	17.82	19.64	19.25	19.15
PCS 1900	512	1850.2	17.03	18.86	18.35	18.39
	661	1880	17.46	19.18	18.65	18.35
	810	1909.8	17.4	19.29	18.74	18.71

Note:

1. Radio Communication Analyzer (MT8820C) was used for the measurement of GSM peak and average output power for active timeslots.
2. For GSM voice, 1 timeslot has been activated with power level 5 (850 MHz band) and 0 (1900 MHz band).
3. For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).
4. For EGPRS, 1, 2, 3 and 4timeslots has been activated separately with power level 6(850 MHz band) and 5(1900 MHz band).
5. 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.

WCDMA:

WCDMA Band II

Mode	Test Condition	Test Mode	3GPP Sub Test	Average Output Power (dBm)		
				Low Frequency	Middle Frequency	High Frequency
WCDMA (Band 2)	Normal	Rel 99	1	23.87	23.89	**23.92**
		HSDPA	1	21.89	21.88	21.84
			2	21.99	21.93	22.00
			3	21.82	21.82	21.95
			4	21.83	21.91	21.95
		HSUPA	1	22.27	22.17	22.36
			2	22.27	22.19	22.27
			3	22.16	22.23	22.29
			4	22.10	22.23	22.26
			5	22.14	22.30	22.40

WCDMA Band IV

Mode	Test Condition	Test Mode	3GPP Sub Test	Average Output Power (dBm)		
				Low Frequency	Middle Frequency	High Frequency
WCDMA (Band 4)	Normal	Rel 99	1	**23.56**	23.51	23.54
		HSDPA	1	21.57	21.62	21.56
			2	21.78	21.70	21.64
			3	21.60	21.63	21.48
			4	21.68	21.50	21.46
		HSUPA	1	21.89	22.02	21.88
			2	21.92	21.97	21.96
			3	21.98	22.03	21.88
			4	22.03	21.88	22.02
			5	21.90	21.99	22.04

WCDMA Band V

Mode	Test Condition	Test Mode	3GPP Sub Test	Average Output Power (dBm)		
				Low Frequency	Middle Frequency	High Frequency
WCDMA (Band 5)	Normal	Rel 99	1	**23.93**	23.83	23.86
		HSDPA	1	21.98	21.94	21.91
			2	22.05	22.13	22.01
			3	21.95	21.94	22.03
			4	22	21.87	21.85
		HSUPA	1	22.23	22.35	22.3
			2	22.24	22.3	22.37
			3	22.32	22.29	22.37
			4	22.24	22.34	22.32
			5	22.23	22.31	22.33

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 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	24.31	24.22	23.99
		1#3	24.20	23.79	23.94
		1#5	24.02	23.74	23.75
		3#0	24.13	23.80	23.87
		3#1	24.23	23.95	23.93
		3#3	24.27	23.88	23.96
		6#0	23.21	22.73	23.01
	16-QAM	1#0	23.04	22.63	22.65
		1#3	23.03	22.85	22.82
		1#5	23.61	23.19	23.31
		3#0	23.46	23.01	23.06
		3#1	23.40	23.05	23.07
		3#3	23.35	23.19	23.27
		6#0	21.92	22.08	22.15
3M	QPSK	1#0	23.69	24.04	24.20
		1#8	24.14	24.00	24.18
		1#14	24.13	24.18	24.30
		8#0	23.21	23.13	23.23
		8#4	23.33	23.14	23.44
		8#7	23.30	23.19	23.20
		15#0	23.24	23.10	23.31
	16-QAM	1#0	23.12	22.96	23.13
		1#8	23.64	22.96	23.20
		1#14	23.60	22.85	23.16
		8#0	22.34	22.31	22.28
		8#4	22.23	22.23	22.34
		8#7	22.25	22.12	22.35
		15#0	22.28	22.27	22.36

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	24.06	24.24	24.42
		1#12	24.28	24.50	**24.61**
		1#24	23.97	24.19	24.30
		12#0	23.34	23.45	23.35
		12#7	23.38	23.38	23.38
		12#13	23.28	23.29	23.43
		25#0	23.19	23.37	23.52
	16-QAM	1#0	23.75	23.29	23.33
		1#12	23.97	23.47	23.62
		1#24	23.69	23.15	23.24
		12#0	22.47	22.54	22.59
		12#7	22.40	22.48	22.55
		12#13	22.35	22.53	22.45
		25#0	22.39	22.37	22.39
10M	QPSK	1#0	24.16	24.30	24.03
		1#25	24.26	24.56	24.17
		1#49	24.12	24.32	23.98
		25#0	23.30	23.37	23.08
		25#12	23.29	23.46	22.91
		25#25	23.40	23.32	22.83
		50#0	23.32	23.41	22.92
	16-QAM	1#0	22.96	22.92	23.28
		1#25	23.02	22.88	23.39
		1#49	23.12	22.95	23.25
		12#0	22.34	22.20	22.12
		12#19	22.44	22.25	22.06
		12#38	22.44	22.30	21.87
		27#0	22.42	22.17	22.02
		27#11	22.34	22.18	22.11
		27#23	22.29	22.23	22.05

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	24.24	23.66	23.94
		1#37	24.35	23.92	24.14
		1#74	24.19	23.64	24.07
		36#0	23.3	22.91	22.98
		36#20	23.24	22.99	23.02
		36#39	23.07	22.83	23.05
		75#0	22.99	22.86	22.91
	16-QAM	1#0	22.72	22.63	23.01
		1#37	22.94	22.97	23.43
		1#74	22.72	22.63	23.14
		12#0	21.76	21.99	22.04
		12#31	21.79	21.92	21.97
		12#63	21.96	21.93	22.05
		27#0	21.83	22.01	21.99
		27#24	21.94	22.14	22.13
		27#48	21.84	22.13	22.01
20M	QPSK	1#0	23.89	23.43	23.47
		1#49	24.12	23.95	23.86
		1#99	23.33	23.49	23.67
		50#0	22.83	22.91	22.94
		50#24	22.98	22.99	22.96
		50#50	23.29	23.51	23.37
		100#0	22.95	22.97	22.77
	16-QAM	1#0	22.72	23.14	22.87
		1#49	23.17	23.55	23.09
		1#99	22.74	23.12	23.02
		12#0	21.83	21.89	21.84
		12#43	21.73	22.03	21.79
		12#88	21.79	21.88	21.71
		27#0	21.79	21.86	21.65
		27#37	21.94	21.84	21.78
		27#73	21.81	21.88	21.75

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	23.73	23.45	24.15
		1#3	23.89	23.51	23.95
		1#5	23.72	23.51	23.7
		3#0	23.67	23.52	23.62
		3#1	23.77	23.63	23.61
		3#3	23.69	23.53	23.57
		6#0	22.53	22.64	22.6
	16-QAM	1#0	22.93	22.27	23.05
		1#3	23.09	22.54	23.13
		1#5	22.89	22.28	22.95
		3#0	22.99	22.69	23.05
		3#1	22.91	22.91	23.06
		3#3	22.98	22.84	22.94
		6#0	21.37	21.71	21.5
3M	QPSK	1#0	23.95	23.52	23.73
		1#8	24.03	23.5	23.73
		1#14	23.98	23.57	23.74
		8#0	23.07	22.57	22.63
		8#4	22.84	22.76	22.64
		8#7	22.8	22.75	22.72
		15#0	22.9	22.72	22.69
	16-QAM	1#0	22.27	22.53	23.04
		1#8	22.44	22.66	22.92
		1#14	22.36	22.56	23.06
		8#0	21.71	21.63	21.69
		8#4	21.67	21.67	21.82
		8#7	21.53	21.54	21.75
		15#0	21.42	21.7	21.74

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	24.02	23.48	23.42
		1#12	24.18	23.87	23.67
		1#24	23.89	23.58	23.85
		12#0	22.91	22.53	23.08
		12#7	22.94	22.62	23.11
		12#13	22.88	22.60	23.02
		25#0	22.71	22.66	23.14
	16-QAM	1#0	22.51	22.59	22.82
		1#12	22.67	22.88	23.10
		1#24	22.41	22.53	22.99
		12#0	21.60	21.74	22.14
		12#7	21.80	21.83	22.13
		12#13	21.84	21.64	22.16
		25#0	21.59	21.55	22.03
10M	QPSK	1#0	23.76	23.88	24.06
		1#25	24.04	24.19	**24.32**
		1#49	23.82	23.88	24.20
		25#0	23.06	23.07	22.98
		25#12	23.00	23.14	23.14
		25#25	23.00	23.23	23.06
		50#0	22.97	23.13	23.16
	16-QAM	1#0	22.64	23.06	23.30
		1#25	22.84	23.15	23.52
		1#49	22.77	22.82	23.32
		12#0	22.10	22.13	22.05
		12#19	22.14	22.22	22.16
		12#38	22.12	22.22	22.21
		27#0	22.03	22.12	21.98
		27#11	22.11	22.05	22.10
		27#23	22.12	22.12	22.04

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	23.82	23.85	23.89
		1#37	24.07	23.89	23.95
		1#74	23.89	23.65	23.71
		36#0	23.05	23	22.78
		36#20	23.07	23.02	23.18
		36#39	23.02	22.95	22.94
		75#0	23.08	22.92	23.19
	16-QAM	1#0	22.86	22.55	22.8
		1#37	22.99	22.73	23.05
		1#74	23	22.35	22.81
		12#0	21.94	21.73	22
		12#31	22.02	22.12	22.05
		12#63	22.11	22.08	22.13
		27#0	22.03	21.94	22.13
		27#24	22.07	22.03	22.25
		27#48	21.98	21.86	22.26
20M	QPSK	1#0	23.67	23.6	23.37
		1#49	24.17	23.88	23.76
		1#99	23.97	23.44	23.48
		50#0	22.94	22.79	22.86
		50#24	22.87	22.82	22.86
		50#50	22.86	22.92	22.85
		100#0	23.02	22.79	22.93
	16-QAM	1#0	22.76	23.25	22.78
		1#49	23.16	23.42	23.08
		1#99	22.85	23.15	22.87
		12#0	21.84	21.81	21.94
		12#43	21.8	21.92	21.92
		12#88	21.87	21.93	21.85
		27#0	21.9	21.81	21.87
		27#37	21.81	21.79	21.76
		27#73	21.87	21.85	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	24.18	24.33	24.1
		1#3	24.29	24.21	24.11
		1#5	24.14	23.8	23.85
		3#0	24	23.9	23.98
		3#1	24.09	23.98	24.02
		3#3	23.91	23.89	23.95
		6#0	23.12	23.03	23.01
	16-QAM	1#0	23.28	22.82	23.14
		1#3	23.58	23.01	23.31
		1#5	23.27	22.79	23.1
		3#0	23.24	23.25	23.22
		3#1	23.33	23.18	23.22
		3#3	23.48	23.23	23.25
		6#0	21.89	22.1	21.75
3M	QPSK	1#0	24.45	24.63	24.43
		1#8	24.32	24.51	24.57
		1#14	24.51	24.5	24.63
		8#0	23.52	23.58	23.39
		8#4	23.61	23.48	23.48
		8#7	23.53	23.42	23.46
		15#0	23.54	23.37	23.45
	16-QAM	1#0	23.38	23.92	23.86
		1#8	23.39	23.79	23.85
		1#14	23.32	23.73	23.86
		8#0	22.48	22.58	22.44
		8#4	22.53	22.63	22.61
		8#7	22.51	22.57	22.43
		15#0	22.62	22.56	22.5

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	24.36	24.4	24.23
		1#12	24.63	24.58	24.47
		1#24	24.43	24.37	24.15
		12#0	23.61	23.46	23.49
		12#7	23.7	23.53	23.54
		12#13	23.62	23.4	23.37
		25#0	23.51	23.58	23.43
	16-QAM	1#0	23.41	23.47	23.92
		1#12	23.79	23.76	24.28
		1#24	23.54	23.47	23.93
		12#0	22.71	22.5	22.64
		12#7	22.72	22.61	22.52
		12#13	22.64	22.65	22.54
		25#0	22.49	22.43	22.6
10M	QPSK	1#0	24.74	**24.77**	24.65
		1#25	24.69	24.68	24.53
		1#49	24.48	24.56	24.24
		25#0	23.75	23.84	23.73
		25#12	23.98	24.28	23.92
		25#25	23.72	23.86	23.89
		50#0	23.6	23.57	23.66
	16-QAM	1#0	23.46	23.95	23.32
		1#25	23.58	23.99	23.29
		1#49	23.51	23.86	23.06
		12#0	22.71	22.72	22.76
		12#19	22.68	22.69	22.7
		12#38	22.74	22.57	22.7
		27#0	22.6	22.66	22.6
		27#11	22.69	22.64	22.59
		27#23	22.68	22.77	22.66

LTE Band 12

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	24.69	24.43	24.32
		1#3	24.73	24.41	24.46
		1#5	24.52	24.31	24.27
		3#0	24.46	24.28	24.36
		3#1	24.37	24.26	24.42
		3#3	24.51	24.24	24.45
		6#0	23.34	23.51	23.41
	16-QAM	1#0	23.6	23.17	23.11
		1#3	23.86	23.06	23.3
		1#5	23.65	22.93	23.18
		3#0	23.6	23.58	23.51
		3#1	23.65	23.64	23.54
		3#3	23.68	23.59	23.42
		6#0	22.22	22.76	22.51
3M	QPSK	1#0	24.82	24.44	24.55
		1#8	24.87	24.23	24.57
		1#14	24.85	24.25	24.54
		8#0	23.84	23.5	23.24
		8#4	23.84	23.82	23.46
		8#7	23.76	23.24	23.42
		15#0	23.85	23.54	23.31
	16-QAM	1#0	23.32	23.45	23.75
		1#8	23.14	23.17	23.69
		1#14	23.24	23.06	23.59
		8#0	22.3	22.72	22.4
		8#4	22.63	22.9	22.5
		8#7	22.35	22.57	22.26
		15#0	22.44	22.7	22.42

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	24.7	24.27	24.27
		1#12	**24.94**	24.54	24.41
		1#24	24.7	24.25	24.24
		12#0	23.84	23.26	23.37
		12#7	23.74	23.37	23.46
		12#13	23.85	23.16	23.41
		25#0	23.68	23.22	23.29
	16-QAM	1#0	23.34	23.26	23.87
		1#12	23.54	23.47	24.08
		1#24	23.36	23.2	23.89
		12#0	22.61	22.4	22.4
		12#7	22.59	22.37	22.6
		12#13	22.44	22.24	22.43
		25#0	22.52	22.23	22.36
10M	QPSK	1#0	24.83	24.51	24.51
		1#25	24.84	24.57	24.74
		1#49	24.83	24.48	24.69
		25#0	23.89	23.78	23.61
		25#12	23.92	23.84	23.71
		25#25	24.08	24.23	23.98
		50#0	23.59	23.42	23.44
	16-QAM	1#0	23.10	23.32	23.69
		1#25	23.19	23.31	23.86
		1#49	23.09	23.19	23.64
		12#0	22.57	22.33	22.54
		12#19	22.48	22.48	22.54
		12#38	22.63	22.22	22.49
		27#0	22.45	22.23	22.47
		27#11	22.59	22.32	22.41
		27#23	22.39	22.30	22.53

LTE Band 14

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.82	23.78	23.98
		1#12	24.07	24.14	24.28
		1#24	23.95	23.76	23.91
		12#0	22.99	23.09	23.01
		12#7	22.91	23.1	23.04
		12#13	23	22.9	23.02
		25#0	22.9	22.95	23.05
	16-QAM	1#0	23.48	22.72	22.94
		1#12	23.7	23.07	23.19
		1#24	23.45	22.92	22.92
		12#0	22.04	22.17	22.16
		12#7	22.05	22.08	22.07
		12#13	22.11	21.96	22.03
		25#0	22.04	22.03	21.89
10M	QPSK	1#0	/	24.4	/
		1#25	/	**24.46**	/
		1#49	/	23.97	/
		25#0	/	23.75	/
		25#12	/	23.32	/
		25#25	/	23.21	/
		50#0	/	23.13	/
	16-QAM	1#0	/	22.73	/
		1#25	/	22.89	/
		1#49	/	22.62	/
		12#0	/	22.08	/
		12#19	/	22.2	/
		12#38	/	22.16	/
		27#0	/	22.03	/
		27#11	/	22.18	/
		27#23	/	22.13	/

LTE Band 30

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.06	22.89	23.01
		1#12	23.09	23.22	**23.29**
		1#24	22.85	22.95	23.11
		12#0	22.08	22	21.93
		12#7	22.27	22.17	22.23
		12#13	22.19	22.22	22.24
		25#0	22.16	22.07	22.18
	16-QAM	1#0	22.71	22.01	22.04
		1#12	22.86	22.27	22.39
		1#24	22.54	22.01	22.08
		12#0	21.22	21.07	21.18
		12#7	21.46	21.43	21.36
		12#13	21.39	21.25	21.18
		25#0	21.37	21.21	21.18
10M	QPSK	1#0	/	22.96	/
		1#25	/	23.21	/
		1#49	/	22.94	/
		25#0	/	22.46	/
		25#12	/	22.35	/
		25#25	/	22.39	/
		50#0	/	22.43	/
	16-QAM	1#0	/	21.92	/
		1#25	/	21.94	/
		1#49	/	21.84	/
		12#0	/	21.02	/
		12#19	/	21.28	/
		12#38	/	21.32	/
		27#0	/	21.17	/
		27#11	/	21.23	/
		27#23	/	21.19	/

LTE Band 66

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	23.56	23.65	23.97
		1#3	23.72	23.84	23.92
		1#5	23.53	23.56	23.8
		3#0	23.69	23.63	23.83
		3#1	23.6	23.64	23.9
		3#3	23.58	23.62	23.82
		6#0	22.73	22.69	22.87
	16-QAM	1#0	22.34	22.37	23.03
		1#3	22.56	22.54	23.23
		1#5	22.36	22.55	22.97
		3#0	22.72	22.79	23.1
		3#1	22.76	22.96	23.14
		3#3	22.81	22.97	23.22
		6#0	21.91	21.85	21.79
3M	QPSK	1#0	23.55	23.65	23.86
		1#8	23.47	23.58	23.85
		1#14	23.55	23.59	23.87
		8#0	22.66	22.63	22.88
		8#4	22.65	22.8	22.82
		8#7	22.69	22.68	22.81
		15#0	22.55	22.71	22.85
	16-QAM	1#0	22.45	22.54	23.16
		1#8	22.43	22.61	23.06
		1#14	22.39	22.54	23.25
		8#0	21.64	21.67	21.95
		8#4	21.7	21.81	21.92
		8#7	21.57	21.65	21.86
		15#0	21.5	21.82	21.71

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	23.53	23.56	23.64
		1#12	23.76	23.89	23.91
		1#24	23.58	23.58	23.51
		12#0	22.63	22.63	22.79
		12#7	22.67	22.66	22.86
		12#13	22.64	22.66	22.71
		25#0	22.59	22.67	22.73
	16-QAM	1#0	22.55	22.59	23.18
		1#12	22.69	22.82	23.46
		1#24	22.58	22.5	23.32
		12#0	21.76	21.69	21.88
		12#7	21.74	21.71	21.96
		12#13	21.66	21.83	21.89
		25#0	21.67	21.62	21.79
10M	QPSK	1#0	23.44	23.56	23.84
		1#25	23.68	23.75	24.03
		1#49	23.6	23.65	23.99
		25#0	22.74	22.65	22.81
		25#12	22.62	22.69	22.87
		25#25	22.68	22.72	22.87
		50#0	22.66	22.82	22.78
	16-QAM	1#0	22.41	22.61	23.06
		1#25	22.63	22.75	23.28
		1#49	22.4	22.56	23.04
		12#0	21.76	21.78	21.85
		12#19	21.75	21.78	21.9
		12#38	21.74	21.9	21.85
		27#0	21.81	21.67	21.91
		27#11	21.86	21.81	21.9
		27#23	21.8	21.68	21.93

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	23.91	23.60	23.67
		1#37	23.71	23.81	23.97
		1#74	22.68	23.68	23.69
		36#0	22.75	22.92	22.74
		36#20	22.85	22.91	22.85
		36#39	22.85	22.79	22.74
		75#0	22.58	22.89	22.9
	16-QAM	1#0	22.66	22.47	22.88
		1#37	22.61	22.67	23.09
		1#74	21.61	22.47	23.04
		12#0	21.51	21.71	22.35
		12#31	21.71	21.59	22.33
		12#63	21.58	21.71	22.35
		27#0	21.55	21.70	22.19
		27#24	21.57	21.63	22.35
		27#48	21.52	21.71	22.17
20M	QPSK	1#0	23.97	23.86	23.73
		1#49	**24.16**	24.01	23.98
		1#99	23.97	23.93	23.76
		50#0	23.45	23.57	23.27
		50#24	23.31	23.45	22.91
		50#50	23.41	23.76	23.23
		100#0	23.08	23.07	22.81
	16-QAM	1#0	23.38	23.02	22.70
		1#49	23.63	23.09	23.04
		1#99	23.56	22.80	22.84
		12#0	22.20	21.93	21.68
		12#43	22.17	22.08	21.76
		12#88	22.15	21.94	21.69
		27#0	22.03	21.88	21.87
		27#37	21.97	21.96	21.77
		27#73	22.08	21.98	21.87

LTE Band 71

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	24.4	24.29	24.34
		1#12	24.7	24.65	24.65
		1#24	24.51	24.39	24.48
		12#0	23.55	23.43	23.67
		12#7	23.56	23.49	23.69
		12#13	23.41	23.46	23.54
		25#0	23.55	23.42	23.5
	16-QAM	1#0	23.4	23.42	23.29
		1#12	23.54	23.65	23.65
		1#24	23.29	23.45	23.11
		12#0	22.57	22.57	22.66
		12#7	22.63	22.56	22.67
		12#13	22.61	22.5	22.62
		25#0	22.57	22.59	22.62
10M	QPSK	1#0	24.34	24.46	24.54
		1#25	24.59	24.49	24.54
		1#49	24.4	24.32	24.46
		25#0	23.54	23.48	23.41
		25#12	23.48	23.6	23.51
		25#25	23.65	23.59	23.14
		50#0	23.44	23.51	23.21
	16-QAM	1#0	22.64	22.78	22.61
		1#25	22.87	22.97	22.93
		1#49	22.76	22.82	22.67
		12#0	22.3	22.18	22.2
		12#19	22.44	22.14	22.3
		12#38	22.43	22.4	22.21
		27#0	22.41	22.23	22.17
		27#11	22.34	22.13	22.15
		27#23	22.45	22.14	22.26

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	24.51	24.60	24.41
		1#37	24.58	24.75	**24.76**
		1#74	24.15	24.03	24.01
		36#0	23.15	23.25	23.24
		36#20	23.43	23.18	23.38
		36#39	23.07	23.24	23.04
		75#0	23.06	23.11	23.07
	16-QAM	1#0	22.60	22.78	22.94
		1#37	23.03	23.19	23.19
		1#74	22.92	22.88	22.98
		12#0	22.02	22.16	22.15
		12#31	21.98	22.01	22.12
		12#63	22.04	22.06	22.10
		27#0	22.15	22.14	22.08
		27#24	22.03	22.16	22.22
		27#48	21.99	22.06	22.09
20M	QPSK	1#0	24.42	24.31	24.37
		1#49	24.49	24.60	24.64
		1#99	23.68	23.81	24.04
		50#0	23.53	23.96	23.82
		50#24	23.41	23.71	23.74
		50#50	23.33	23.51	23.69
		100#0	23.06	23.12	23.29
	16-QAM	1#0	22.88	22.86	22.99
		1#49	23.17	23.34	23.31
		1#99	22.84	23.00	22.97
		12#0	21.83	22.07	22.21
		12#43	22.00	22.04	22.12
		12#88	21.94	22.08	22.02
		27#0	21.83	22.08	22.00
		27#37	22.01	22.20	22.08
		27#73	21.85	22.21	21.99

WLAN 2.4G:

Mode	Channel frequency (MHz)	Data Rate	Duty Cycle (%)	Conducted Average Output Power(dBm)
802.11b	2412	1Mbps	100	15.68
	2437			**15.98**
	2462			15.87
802.11g	2412	6Mbps	100	14.33
	2437			14.62
	2462			14.34
802.11n ht20	2412	MCS0	100	13.29
	2437			13.61
	2462			13.44

Note▲: The duty cycle plots, please refer to the radio report: 2602P27730E-RF-00C, which was issued by Bay Area Compliance Laboratories Corp. (Dongguan).

Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)
BDR(GFSK)	2402	6.51
	2441	6.71
	2480	6.55
EDR(π/4-DQPSK)	2402	5.54
	2441	5.67
	2480	5.47
EDR(8DPSK)	2402	5.96
	2441	6.03
	2480	5.82
BLE_1M	2402	6.67
	2440	**6.78**
	2480	6.47

WWAN Antenna Reduction Power

GSM:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
PCS 1900	512	1850.2	**26.16**
	661	1880	26.02
	810	1909.8	26.06

GPRS:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
PCS 1900	512	1850.2	26.03	24.97	22.54	21.41
	661	1880	25.82	24.78	22.37	21.37
	810	1909.8	25.90	24.82	22.72	21.69

EDGE:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
PCS 1900	512	1850.2	21.88	20.64	18.49	17.21
	661	1880	22.28	21.11	18.83	17.21
	810	1909.8	22.19	21.21	18.85	17.61

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 GSM

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
PCS 1900	512	1850.2	17.16
	661	1880	17.02
	810	1909.8	17.06

The time based average power for GPRS

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
PCS 1900	512	1850.2	17.03	**18.97**	18.29	18.41
	661	1880	16.82	18.78	18.12	18.37
	810	1909.8	16.9	18.82	18.47	18.69

The time based average power for EDGE

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
PCS 1900	512	1850.2	12.88	14.64	14.24	14.21
	661	1880	13.28	15.11	14.58	14.21
	810	1909.8	13.19	15.21	14.6	14.61

Note:

1. Radio Communication Analyzer (MT8820C) was used for the measurement of GSM peak and average output power for active timeslots.
2. For GSM voice, 1 timeslot has been activated with power level 0 (1900 MHz band).
3. For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(1900 MHz band).
4.
5. 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.

WCDMA:

WCDMA Band II

Mode	Test Condition	Test Mode	3GPP Sub Test	Average Output Power (dBm)		
				Low Frequency	Middle Frequency	High Frequency
WCDMA (Band 2)	Normal	Rel 99	1	19.78	19.73	**19.82**
		HSDPA	1	17.66	17.83	17.66
			2	17.93	17.77	17.90
			3	17.66	17.60	17.83
			4	17.65	17.72	17.81
		HSUPA	1	18.20	18.05	18.31
			2	18.19	18.09	18.10
			3	18.01	18.05	18.06
			4	17.90	18.11	18.09
			5	17.98	18.22	18.32

WCDMA Band IV

Mode	Test Condition	Test Mode	3GPP Sub Test	Average Output Power (dBm)		
				Low Frequency	Middle Frequency	High Frequency
WCDMA (Band 4)	Normal	Rel 99	1	20.33	**20.43**	20.42
		HSDPA	1	18.40	18.53	18.33
			2	18.65	18.57	18.58
			3	18.47	18.53	18.24
			4	18.61	18.42	18.23
		HSUPA	1	18.80	18.78	18.76
			2	18.71	18.75	18.82
			3	18.91	18.92	18.66
			4	18.96	18.74	18.77
			5	18.69	18.77	18.98

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 Test Loop Model 1.
2. KDB 941225 D01-Body SAR is not required for HSDPA/HSUPA 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	20.25	20.03	19.81
		1#3	20.03	19.58	19.74
		1#5	19.77	19.69	19.68
		3#0	19.92	19.68	19.72
		3#1	20.1	19.7	19.81
		3#3	20.09	19.65	19.74
		6#0	19	18.57	18.95
	16-QAM	1#0	18.86	18.47	18.44
		1#3	18.94	18.75	18.67
		1#5	19.49	19.13	19.22
		3#0	19.3	18.84	18.87
		3#1	19.23	18.83	18.98
		3#3	19.1	18.97	19.06
		6#0	17.68	17.96	17.97
3M	QPSK	1#0	19.49	19.94	20.12
		1#8	20	19.84	19.94
		1#14	20	20.03	20.17
		8#0	19.02	19.04	19.08
		8#4	19.1	18.93	19.22
		8#7	19.21	19.03	19.07
		15#0	19.13	18.99	19.13
	16-QAM	1#0	18.88	18.9	19.03
		1#8	19.4	18.82	19.13
		1#14	19.45	18.61	19.04
		8#0	18.09	18.21	18.16
		8#4	18.01	18.1	18.16
		8#7	18.1	18.05	18.21
		15#0	18.15	18.03	18.15

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	20	20	20.27
		1#12	20.08	20.26	**20.49**
		1#24	19.86	19.95	20.1
		12#0	19.26	19.36	19.29
		12#7	19.26	19.15	19.19
		12#13	19.14	19.04	19.23
		25#0	19.09	19.26	19.32
	16-QAM	1#0	19.54	19.06	19.26
		1#12	19.77	19.31	19.39
		1#24	19.45	19.06	19.12
		12#0	18.24	18.47	18.41
		12#7	18.31	18.27	18.32
		12#13	18.2	18.33	18.26
		25#0	18.32	18.31	18.2
10M	QPSK	1#0	19.98	20.13	19.79
		1#25	20.15	20.45	20.1
		1#49	20.03	20.1	19.87
		25#0	19.1	19.12	18.84
		25#12	19.17	19.24	18.8
		25#25	19.29	19.2	18.7
		50#0	19.2	19.35	18.8
	16-QAM	1#0	18.76	18.73	19.22
		1#25	18.95	18.73	19.23
		1#49	19	18.82	19.13
		12#0	18.28	17.95	18.02
		12#19	18.27	18.09	17.9
		12#38	18.32	18.09	17.76
		27#0	18.33	17.94	17.89
		27#11	18.36	17.99	17.99
		27#23	18.4	18.04	18.04

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	20.17	19.66	19.88
		1#37	20.28	19.85	20.05
		1#74	20.22	19.63	19.94
		36#0	19.17	18.81	18.93
		36#20	19.18	19.01	18.93
		36#39	19.07	18.71	19.02
		75#0	18.91	18.85	18.9
	16-QAM	1#0	18.60	18.50	19.05
		1#37	18.96	18.99	19.38
		1#74	18.63	18.62	19.04
		12#0	17.78	17.91	17.96
		12#31	17.71	17.81	17.85
		12#63	17.99	17.83	18.06
		27#0	17.77	18.05	17.9
		27#24	17.86	18.1	17.9
		27#48	17.89	18.04	17.9
20M	QPSK	1#0	19.78	19.32	19.23
		1#49	20.08	19.82	19.65
		1#99	19.32	19.54	19.45
		50#0	18.94	18.98	18.87
		50#24	19.22	19.41	19.33
		50#50	18.90	19.04	18.96
		100#0	18.95	19.25	18.86
	16-QAM	1#0	18.62	19.18	18.77
		1#49	19.08	19.56	19.02
		1#99	18.78	19.12	18.95
		12#0	17.71	17.82	17.80
		12#43	17.77	17.98	17.68
		12#88	17.68	17.81	17.72
		27#0	17.79	17.80	17.70
		27#37	17.9	17.76	17.69
		27#73	17.83	17.92	17.75

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	19.58	19.25	20.02
		1#3	19.7	19.4	19.78
		1#5	19.6	19.41	19.59
		3#0	19.54	19.27	19.39
		3#1	19.61	19.57	19.46
		3#3	19.49	19.35	19.34
		6#0	18.27	18.58	18.53
	16-QAM	1#0	18.68	18.02	18.95
		1#3	18.96	18.37	19.02
		1#5	18.75	18.16	18.74
		3#0	18.8	18.48	18.95
		3#1	18.71	18.86	18.97
		3#3	18.87	18.69	18.86
		6#0	17.14	17.6	17.35
3M	QPSK	1#0	19.83	19.28	19.61
		1#8	19.9	19.26	19.6
		1#14	19.75	19.32	19.52
		8#0	18.84	18.45	18.55
		8#4	18.77	18.69	18.47
		8#7	18.64	18.59	18.62
		15#0	18.68	18.65	18.53
	16-QAM	1#0	18.16	18.37	18.92
		1#8	18.26	18.53	18.71
		1#14	18.26	18.42	18.9
		8#0	17.49	17.57	17.55
		8#4	17.55	17.54	17.66
		8#7	17.42	17.3	17.68
		15#0	17.17	17.57	17.58

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	19.93	19.34	19.21
		1#12	20.13	19.69	19.58
		1#24	19.66	19.43	19.77
		12#0	18.8	18.34	18.88
		12#7	18.88	18.48	18.95
		12#13	18.78	18.38	18.82
		25#0	18.49	18.58	19.04
	16-QAM	1#0	18.44	18.45	18.74
		1#12	18.48	18.75	18.85
		1#24	18.27	18.28	18.82
		12#0	17.46	17.67	17.9
		12#7	17.74	17.75	18
		12#13	17.73	17.54	17.93
		25#0	17.42	17.37	17.9
10M	QPSK	1#0	19.6	19.75	19.86
		1#25	19.8	20.04	**20.21**
		1#49	19.61	19.7	20.02
		25#0	18.83	18.84	18.93
		25#12	18.93	18.91	18.91
		25#25	18.76	19.11	18.95
		50#0	18.79	18.92	18.93
	16-QAM	1#0	18.47	18.99	19.2
		1#25	18.78	19.04	19.28
		1#49	18.55	18.66	19.23
		12#0	17.95	17.98	17.94
		12#19	18.05	18.17	18.02
		12#38	17.98	18.02	18.14
		27#0	17.84	18.02	17.81
		27#11	18.06	17.82	17.89
		27#23	17.91	17.92	17.9

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	19.82	19.71	19.80
		1#37	19.95	19.78	19.84
		1#74	19.77	19.61	19.58
		36#0	19.05	19.02	18.69
		36#20	19.11	18.91	19.15
		36#39	18.97	18.91	18.84
		75#0	19.09	18.86	19.11
	16-QAM	1#0	18.72	18.49	18.66
		1#37	18.91	18.60	18.97
		1#74	18.99	18.26	18.8
		12#0	17.89	17.65	17.95
		12#31	17.91	18.05	18.04
		12#63	18.09	17.95	18.06
		27#0	18.04	17.91	18.05
		27#24	18.10	17.93	18.10
		27#48	17.85	17.80	18.27
20M	QPSK	1#0	19.57	19.59	19.40
		1#49	20.11	19.87	19.80
		1#99	19.98	19.42	19.34
		50#0	18.82	18.77	18.89
		50#24	18.89	18.67	18.73
		50#50	18.79	18.92	18.85
		100#0	19.04	18.72	18.83
	16-QAM	1#0	18.69	19.27	18.83
		1#49	19.20	19.37	18.95
		1#99	18.89	19.16	18.81
		12#0	17.81	17.84	17.82
		12#43	17.80	17.78	17.90
		12#88	17.89	17.96	17.86
		27#0	17.78	17.70	17.80
		27#37	17.73	17.81	17.69
		27#73	17.77	17.89	17.76

LTE Band 30

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	20.86	20.95	20.96
		1#37	21.03	21.17	**21.27**
		1#74	20.88	20.92	21.03
		36#0	20.03	19.97	19.9
		36#20	20.12	20.04	20.17
		36#39	20.06	20	20.07
		75#0	20.02	20.07	20.09
	16-QAM	1#0	20.52	19.95	19.9
		1#37	20.81	20.06	20.12
		1#74	20.5	19.96	19.94
		12#0	19.13	19.02	19.18
		12#31	19.36	19.19	19.25
		12#63	19.27	19.28	19.14
		27#0	19.32	19.03	19.16
		27#24	20.86	20.95	20.96
		27#48	21.03	21.17	21.27
20M	QPSK	1#0	/	21.12	/
		1#49	/	21.24	/
		1#99	/	20.93	/
		50#0	/	20.53	/
		50#24	/	20.44	/
		50#50	/	20.34	/
		100#0	/	20.49	/
	16-QAM	1#0	/	19.93	/
		1#49	/	19.84	/
		1#99	/	19.93	/
		12#0	/	19.07	/
		12#43	/	19.26	/
		12#88	/	19.31	/
		27#0	/	19.07	/
		27#37	/	19.08	/
		27#73	/	18.99	/

LTE Band 66

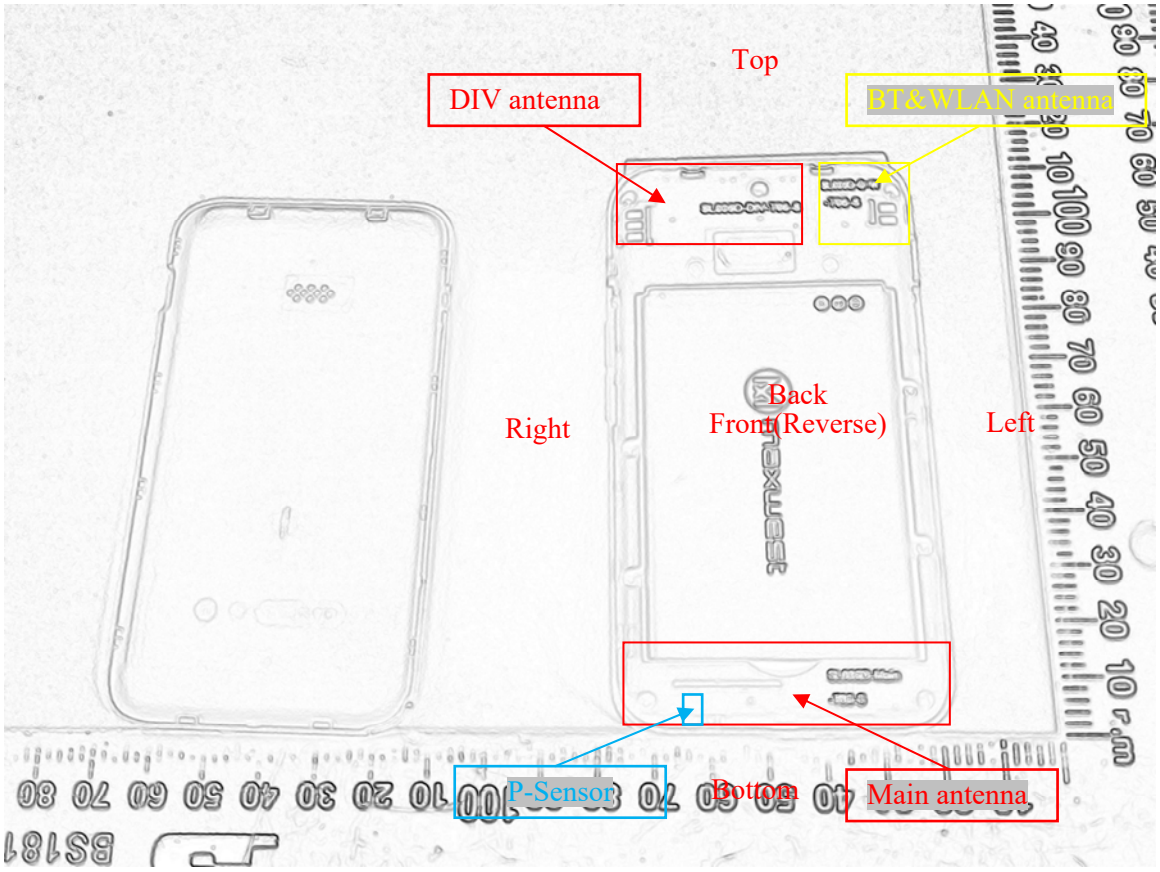
Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	19.51	19.67	19.95
		1#3	19.75	19.77	19.95
		1#5	19.4	19.45	19.76
		3#0	19.73	19.61	19.85
		3#1	19.46	19.65	19.82
		3#3	19.48	19.65	19.8
		6#0	18.75	18.64	18.75
	16-QAM	1#0	18.26	18.24	18.9
		1#3	18.43	18.46	19.08
		1#5	18.35	18.51	18.9
		3#0	18.67	18.72	19.02
		3#1	18.68	18.88	19.17
		3#3	18.74	18.88	19.24
		6#0	17.77	17.87	17.66
3M	QPSK	1#0	19.45	19.6	19.9
		1#8	19.46	19.44	19.74
		1#14	19.43	19.47	19.85
		8#0	18.54	18.64	18.83
		8#4	18.69	18.73	18.85
		8#7	18.63	18.6	18.69
		15#0	18.44	18.69	18.78
	16-QAM	1#0	18.35	18.45	19.21
		1#8	18.46	18.5	19
		1#14	18.25	18.56	19.28
		8#0	17.66	17.56	17.82
		8#4	17.67	17.77	17.88
		8#7	17.62	17.54	17.79
		15#0	17.55	17.85	17.73

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	19.45	19.57	19.56
		1#12	19.65	19.93	19.95
		1#24	19.63	19.46	19.56
		12#0	18.55	18.54	18.77
		12#7	18.54	18.53	18.78
		12#13	18.55	18.57	18.75
		25#0	18.46	18.65	18.7
	16-QAM	1#0	18.58	18.61	19.2
		1#12	18.55	18.83	19.51
		1#24	18.44	18.37	19.21
		12#0	17.72	17.71	17.84
		12#7	17.77	17.73	17.9
		12#13	17.66	17.84	17.87
		25#0	17.6	17.55	17.67
10M	QPSK	1#0	19.32	19.49	19.8
		1#25	19.82	19.76	**20.18**
		1#49	19.56	19.68	20.01
		25#0	18.6	18.64	18.82
		25#12	18.51	18.61	18.78
		25#25	18.53	18.71	18.87
		50#0	18.61	18.75	18.69
	16-QAM	1#0	18.33	18.52	19.03
		1#25	18.57	18.74	19.25
		1#49	18.31	18.56	19.07
		12#0	17.79	17.76	17.78
		12#19	17.75	17.77	17.91
		12#38	17.68	17.85	17.76
		27#0	17.77	17.68	17.78
		27#11	17.81	17.85	17.76
		27#23	17.74	17.54	17.85

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	19.83	19.36	19.71
		1#37	19.36	19.58	19.85
		1#74	18.40	19.36	19.71
		36#0	18.51	18.58	18.71
		36#20	18.67	18.65	18.81
		36#39	18.69	18.51	18.67
		75#0	18.39	18.57	18.86
	16-QAM	1#0	18.69	18.38	18.78
		1#37	18.60	18.69	19.1
		1#74	17.54	18.51	19
		12#0	17.51	17.73	18.32
		12#31	17.72	17.55	18.25
		12#63	17.44	17.69	18.29
		27#0	17.53	17.59	18.04
		27#24	17.53	17.48	18.33
		27#48	17.50	17.58	18.2
20M	QPSK	1#0	19.85	19.84	19.74
		1#49	20.13	20.09	20.16
		1#99	19.74	19.95	19.88
		50#0	19.35	19.43	19.24
		50#24	19.43	19.64	19.56
		50#50	19.62	19.79	19.70
		100#0	19.10	19.02	18.82
	16-QAM	1#0	19.33	18.96	18.58
		1#49	19.54	18.98	18.89
		1#99	19.51	18.67	18.76
		12#0	18.25	17.81	17.54
		12#43	18.04	17.95	17.65
		12#88	18.12	17.91	17.62
		27#0	17.97	17.76	17.80
		27#37	17.88	17.94	17.62
		27#73	18.01	18.03	17.81

Standalone SAR test exclusion considerations

Antennas Location:



Note: The Main antenna has transmitting and receiving functions, while the DIV antenna only has receiving functions. The P-Sensor of WWAN(GSM/WCDMA/LTE) is on the main antenna.

Antenna Distance To Edge

	Antenna Distance To Edge(mm)					
Antenna	**Back**	**Front**	**Left**	**Right**	**Top**	**Bottom**
WWAN Main	<5	<5	<5	<5	95	<5
WIFI/BT	<5	<5	<5	39	<5	86

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	16.5	44.67	0	14.0	3	No
Bluetooth	2480	7	5.01	0	1.6	3	YES
BLE	2480	7	5.01	0	1.6	3	YES

Note: *The WLAN based average power for calculation. and bluetooth based peak output power for calculation*

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:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤7.5 for 10-g extremity SAR, where
1. f(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)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Estimated 1-g (W/kg)
BT Head	2480	7	5.01	0	0.21
BT Body	2480	7	5.01	10	0.11

Note: *The bluetooth 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:
[(max. power of channel, including tune-up tolerance , mW)/(min. test separation distance,mm)] · [√f(GHz)/x]
W/kg for test separation distances ≤50 mm;
where x = 7.5 for 1-g SAR.
When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion

SAR test exclusion for the EUT edge considerations Result

Mode	Back	Front	Left	Right	Top	Bottom
Bluetooth	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*
WLAN	**Required**	**Required**	**Required**	Exclusion	**Required**	Exclusion
WWAN	**Required**	**Required**	**Required**	**Required**	Exclusion	**Required**

Note:

Required：The distance to Edge is less than 25mm, testing is required.
Exclusion*：SAR test exclusion evaluation has been done above.
Exclusion：The distance to Edge is more than 25 mm, testing is not required.

Extremity Exposure Considerations

Per KDB 648474 D04v01r03, this device is considered a “Phablet” since the diagonal dimension is >160mm and < 200mm, when hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance is 1g SAR > 1.2W/kg)

Extremity Exposure Condition		
Worst Mode	**Hotspot SAR value**	**Extremity Condition Test**
LTE Band 30	1.18 W/kg	Exclusion

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

Environment Temperature:	21.8-22.7 ℃	22.2-23.1 ℃	22.1-22.9 ℃	22.3-22.9 ℃
Relative Humidity:	56 %	51 %	54 %	58 %
Test Date:	2026/01/06	2026/01/07	2026/01/08	2026/01/09
Environment Temperature:	21.9-23.2 ℃	22.0-23.3 ℃	22.2-22.8 ℃	21.9-23.0 ℃
Relative Humidity:	49 %	55 %	53 %	48 %
Test Date:	2026/01/10	2026/01/11	2026/01/12	2026/01/13
Environment Temperature:	22.4-23.5 ℃	22.3-23.0 ℃	/	/
Relative Humidity:	52 %	57 %	/	/
Test Date:	2026/01/14	2025/01/18	/	/

Testing was performed by Allen sun and Jacky cai

GSM 850 :

EUT Position	Freq. (MHz)	Test Mode	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Head Left Cheek	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.271	0.29	1.6	/
Head Left Tilt	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.152	0.16	1.6	/
Head Right Cheek	824.2	GPRS 2 Tx slots	OFF	32.16	32.5	1.081	0.263	0.28	1.6	/
Head Right Cheek	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.320	0.34	1.6	/
Head Right Cheek	848.8	GPRS 2 Tx slots	OFF	32.41	32.5	1.021	**0.377**	**0.38**	1.6	**1#**
Head Right Tilt	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.190	0.20	1.6	/
Body Front Fold(10mm)	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.167	0.18	1.6	/
Body Back Fold(10mm)	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.347	0.37	1.6	/
Body Left Fold(10mm)	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.435	0.46	1.6	/
Body Right Fold(10mm)	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.270	0.29	1.6	/
Body Bottom Fold(10mm)	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.111	0.12	1.6	/
Body Front Unfold(10mm)	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.281	0.30	1.6	/
Body Back Unfold(10mm)	824.2	GPRS 2 Tx slots	OFF	32.16	32.5	1.081	0.414	0.45	1.6	/
Body Back Unfold(10mm)	836.6	GPRS 2 Tx slots	OFF	32.22	32.5	1.067	0.476	0.51	1.6	/
Body Back Unfold(10mm)	848.8	GPRS 2 Tx slots	OFF	32.41	32.5	1.021	**0.585**	**0.60**	1.6	**2#**

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 GSM antenna while testing SAR.
3. 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.
4. When the maximum output power variation across the required test channels is > 0.5 dB, instead of the middle channel, the highest output power channel must be used.
5.The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 3DL+2UL is the worst case.
6. The max. time based average power of GSM/GPRS/EGPRS mode was selected to Body/Head SAR testing.

PCS 1900：

EUT Position	Freq. (MHz)	Test Mode	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Head Left Cheek	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.118	0.12	1.6	/
Head Left Tilt	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.051	0.05	1.6	/
Head Right Cheek	1850.2	GPRS 2 Tx slots	OFF	29.04	29.1	1.014	**0.148**	**0.15**	1.6	3#
Head Right Cheek	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.138	0.14	1.6	/
Head Right Cheek	1909.8	GPRS 2 Tx slots	OFF	28.99	29.1	1.026	0.115	0.12	1.6	/
Head Right Tilt	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.076	0.08	1.6	/
Body Front Fold(10mm)	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.170	0.18	1.6	/
Body Back Fold(10mm)	1880	GPRS 2 Tx slots	ON	24.78	25.1	1.076	0.397	0.43	1.6	/
Body Left Fold(10mm)	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.182	0.19	1.6	/
Body Right Fold(10mm)	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.194	0.20	1.6	/
Body Bottom Fold(10mm)	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.354	0.37	1.6	/
Body Front Unfold(10mm)	1850.2	GPRS 2 Tx slots	ON	24.97	25.1	1.03	0.668	0.69	1.6	/
Body Front Unfold(10mm)	1880	GPRS 2 Tx slots	ON	24.78	25.1	1.076	**0.675**	**0.73**	1.6	4#
Body Front Unfold(10mm)	1909.8	GPRS 2 Tx slots	ON	24.82	25.1	1.067	0.596	0.64	1.6	/
Body Back Unfold(10mm)	1880	GPRS 2 Tx slots	ON	24.78	25.1	1.076	0.326	0.35	1.6	/
Body Front Unfold(15mm)	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.333	0.35	1.6	/
Body Back Unfold(25mm)	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.149	0.16	1.6	/
Body Back Fold(25mm)	1880	GPRS 2 Tx slots	OFF	28.9	29.1	1.047	0.176	0.18	1.6	/

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 GSM antenna while testing SAR.
3. 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.
4. When the maximum output power variation across the required test channels is > 0.5 dB, instead of the middle channel, the highest output power channel must be used.
5.The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 3DL+2UL is the worst case.
6. The max. time based average power of GSM/GPRS/EGPRS mode was selected to Body/Head SAR testing.

WCDMA Band II：

EUT Position	Freq. (MHz)	Test Mode	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Head Left Cheek	1852.4	RMC	OFF	23.87	24	1.03	0.105	0.11	1.6	/
Head Left Cheek	1880	RMC	OFF	23.89	24	1.026	0.112	0.11	1.6	/
Head Left Cheek	1907.6	RMC	OFF	23.92	24	1.019	**0.117**	**0.12**	1.6	**5#**
Head Left Tilt	1880	RMC	OFF	23.89	24	1.026	0.099	0.10	1.6	/
Head Right Cheek	1880	RMC	OFF	23.89	24	1.026	0.092	0.09	1.6	/
Head Right Tilt	1880	RMC	OFF	23.89	24	1.026	0.088	0.09	1.6	/
Body Front Fold(10mm)	1880	RMC	OFF	23.89	24	1.026	0.232	0.24	1.6	/
Body Back Fold(10mm)	1880	RMC	ON	19.73	20	1.064	0.619	0.66	1.6	/
Body Left Fold(10mm)	1880	RMC	OFF	23.89	24	1.026	0.319	0.33	1.6	/
Body Right Fold(10mm)	1880	RMC	OFF	23.89	24	1.026	0.392	0.40	1.6	/
Body Bottom Fold(10mm)	1880	RMC	OFF	23.89	24	1.026	0.434	0.45	1.6	/
Body Front Unfold(10mm)	1852.4	RMC	ON	19.78	20	1.052	0.849	0.89	1.6	/
Body Front Unfold(10mm)	1880	RMC	ON	19.73	20	1.064	0.822	0.87	1.6	/
Body Front Unfold(10mm)	1907.6	RMC	ON	19.82	20	1.042	**0.859**	**0.90**	1.6	**6#**
Body Back Unfold(10mm)	1880	RMC	ON	19.73	20	1.064	0.574	0.61	1.6	/
Body Front Unfold(15mm)	1880	RMC	OFF	23.89	24	1.026	0.526	0.54	1.6	/
Body Back Unfold(25mm)	1880	RMC	OFF	23.89	24	1.026	0.234	0.24	1.6	/
Body Back Fold(25mm)	1880	RMC	OFF	23.89	24	1.026	0.250	0.26	1.6	/

WCDMA Band IV：

EUT Position	Freq. (MHz)	Test Mode	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Head Left Cheek	1732.6	RMC	OFF	23.51	23.7	1.045	0.122	0.13	1.6	/
Head Left Tilt	1732.6	RMC	OFF	23.51	23.7	1.045	0.107	0.11	1.6	/
Head Right Cheek	1712.4	RMC	OFF	23.56	23.7	1.033	0.172	0.18	1.6	/
Head Right Cheek	1732.6	RMC	OFF	23.51	23.7	1.045	0.186	0.19	1.6	/
Head Right Cheek	1752.6	RMC	OFF	23.54	23.7	1.038	**0.194**	**0.20**	1.6	7#
Head Right Tilt	1732.6	RMC	OFF	23.51	23.7	1.045	0.133	0.14	1.6	/
Body Front Fold(10mm)	1732.6	RMC	OFF	23.51	23.7	1.045	0.286	0.30	1.6	/
Body Back Fold(10mm)	1732.6	RMC	ON	20.43	20.7	1.064	0.681	0.72	1.6	/
Body Left Fold(10mm)	1732.6	RMC	OFF	23.51	23.7	1.045	0.210	0.22	1.6	/
Body Right Fold(10mm)	1732.6	RMC	OFF	23.51	23.7	1.045	0.274	0.29	1.6	/
Body Bottom Fold(10mm)	1732.6	RMC	OFF	23.51	23.7	1.045	0.442	0.46	1.6	/
Body Front Unfold(10mm)	1712.4	RMC	ON	20.33	20.7	1.089	0.64	0.70	1.6	/
Body Front Unfold(10mm)	1732.6	RMC	ON	20.43	20.7	1.064	0.707	0.75	1.6	/
Body Front Unfold(10mm)	1752.6	RMC	ON	20.42	20.7	1.067	**0.735**	**0.78**	1.6	8#
Body Back Unfold(10mm)	1732.6	RMC	ON	20.43	20.7	1.064	0.486	0.52	1.6	/
Body Front Unfold(15mm)	1732.6	RMC	OFF	23.51	23.7	1.045	0.385	0.40	1.6	/
Body Back Unfold(25mm)	1732.6	RMC	OFF	23.51	23.7	1.045	0.158	0.17	1.6	/
Body Back Fold(25mm)	1732.6	RMC	OFF	23.51	23.7	1.045	0.280	0.29	1.6	/

WCDMA Band V：

EUT Position	Freq. (MHz)	Test Mode	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Head Left Cheek	836.6	RMC	OFF	23.83	24	1.04	0.249	0.26	1.6	/
Head Left Tilt	836.6	RMC	OFF	23.83	24	1.04	0.104	0.11	1.6	/
Head Right Cheek	826.4	RMC	OFF	23.93	24	1.016	0.262	0.27	1.6	/
Head Right Cheek	836.6	RMC	OFF	23.83	24	1.04	**0.299**	**0.31**	1.6	**9#**
Head Right Cheek	846.6	RMC	OFF	23.86	24	1.033	0.294	0.30	1.6	/
Head Right Tilt	836.6	RMC	OFF	23.83	24	1.04	0.106	0.11	1.6	/
Body Front Fold(10mm)	836.6	RMC	OFF	23.83	24	1.04	0.144	0.15	1.6	/
Body Back Fold(10mm)	826.4	RMC	OFF	23.93	24	1.016	**0.468**	**0.48**	1.6	**10#**
Body Back Fold(10mm)	836.6	RMC	OFF	23.83	24	1.04	0.454	0.47	1.6	/
Body Back Fold(10mm)	846.6	RMC	OFF	23.86	24	1.033	0.394	0.41	1.6	/
Body Left Fold(10mm)	836.6	RMC	OFF	23.83	24	1.04	0.397	0.41	1.6	/
Body Right Fold(10mm)	836.6	RMC	OFF	23.83	24	1.04	0.261	0.27	1.6	/
Body Bottom Fold(10mm)	836.6	RMC	OFF	23.83	24	1.04	0.061	0.06	1.6	/
Body Front Unfold(10mm)	836.6	RMC	OFF	23.83	24	1.04	0.222	0.23	1.6	/
Body Back Unfold(10mm)	836.6	RMC	OFF	23.83	24	1.04	0.31	0.32	1.6	/

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 Test Loop Model.
4. KDB 941225 D01-Body SAR is not required for HSUPA/HSDPA 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.
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:

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Plot
Head Left Cheek	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	0.085	0.10	/
Head Left Cheek	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.079	0.10	/
Head Left Tilt	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	0.107	0.13	/
Head Left Tilt	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.092	0.12	/
Head Right Cheek	1860	QPSK	20M	1	OFF	24.12	24.7	1.143	0.105	0.12	/
Head Right Cheek	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	**0.15**	**0.18**	11#
Head Right Cheek	1900	QPSK	20M	1	OFF	23.86	24.7	1.213	0.10	0.12	/
Head Right Cheek	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.139	0.18	/
Head Right Tilt	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	0.136	0.16	/
Head Right Tilt	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.108	0.14	/
Body Front Fold(10mm)	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	0.286	0.34	/
Body Front Fold(10mm)	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.245	0.32	/
Body Back Fold(10mm)	1880	QPSK	20M	1	ON	19.82	20.7	1.225	0.619	0.76	/
Body Back Fold(10mm)	1880	QPSK	20M	50	ON	19.41	20.7	1.346	0.586	0.79	/
Body Left Fold(10mm)	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	0.479	0.57	/
Body Left Fold(10mm)	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.420	0.55	/
Body Right Fold(10mm)	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	0.310	0.37	/
Body Right Fold(10mm)	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.283	0.37	/
Body Bottom Fold(10mm)	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	0.458	0.54	/
Body Bottom Fold(10mm)	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.410	0.54	/
Body Front Unfold(10mm)	1860	QPSK	20M	1	ON	20.08	20.7	1.153	0.873	1.01	/
Body Front Unfold(10mm)	1880	QPSK	20M	1	ON	19.82	20.7	1.225	**0.89**	**1.09**	12#
Body Front Unfold(10mm)	1900	QPSK	20M	1	ON	19.65	20.7	1.274	0.835	1.06	/
Body Front Unfold(10mm)	1860	QPSK	20M	50	ON	19.22	20.7	1.406	0.714	1.00	/
Body Front Unfold(10mm)	1880	QPSK	20M	50	ON	19.41	20.7	1.346	0.781	1.05	/
Body Front Unfold(10mm)	1900	QPSK	20M	50	ON	19.33	20.7	1.371	0.749	1.03	/
Body Front Unfold(10mm)	1880	QPSK	20M	100	ON	19.25	20.7	1.396	0.773	1.08	/
Body Back Unfold(10mm)	1880	QPSK	20M	1	ON	19.82	20.7	1.225	0.506	0.62	/
Body Back Unfold(10mm)	1880	QPSK	20M	50	ON	19.41	20.7	1.346	0.478	0.64	/
Body Front Unfold(15mm)	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	0.465	0.55	/
Body Front Unfold(15mm)	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.40	0.53	/
Body Back Unfold(25mm)	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	0.201	0.24	/
Body Back Unfold(25mm)	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.176	0.23	/
Body Back Fold(25mm)	1880	QPSK	20M	1	OFF	23.95	24.7	1.189	0.246	0.29	/
Body Back Fold(25mm)	1880	QPSK	20M	50	OFF	23.51	24.7	1.315	0.218	0.29	/

LTE FDD Band 5:

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Plot
Head Left Cheek	829	QPSK	10M	1	OFF	24.74	25	1.062	0.25	0.27	/
Head Left Cheek	836.5	QPSK	10M	1	OFF	24.77	25	1.054	0.289	0.30	/
Head Left Cheek	844	QPSK	10M	1	OFF	24.65	25	1.084	**0.309**	**0.33**	13#
Head Left Cheek	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.273	0.32	/
Head Left Tilt	836.5	QPSK	10M	1	OFF	24.77	25	1.054	0.115	0.12	/
Head Left Tilt	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.107	0.13	/
Head Right Cheek	836.5	QPSK	10M	1	OFF	24.77	25	1.054	0.262	0.28	/
Head Right Cheek	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.234	0.28	/
Head Right Tilt	836.5	QPSK	10M	1	OFF	24.77	25	1.054	0.131	0.14	/
Head Right Tilt	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.121	0.14	/
Body Front Fold(10mm)	836.5	QPSK	10M	1	OFF	24.77	25	1.054	0.126	0.13	/
Body Front Fold(10mm)	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.103	0.12	/
Body Back Fold(10mm)	836.5	QPSK	10M	1	OFF	24.77	25	1.054	0.605	0.64	/
Body Back Fold(10mm)	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.458	0.54	/
Body Left Fold(10mm)	836.5	QPSK	10M	1	OFF	24.77	25	1.054	0.456	0.48	/
Body Left Fold(10mm)	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.457	0.54	/
Body Right Fold(10mm)	836.5	QPSK	10M	1	OFF	24.77	25	1.054	0.299	0.32	/
Body Right Fold(10mm)	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.239	0.28	/
Body Bottom Fold(10mm)	836.5	QPSK	10M	1	OFF	24.77	25	1.054	0.07	0.07	/
Body Bottom Fold(10mm)	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.056	0.07	/
Body Front Unfold(10mm)	836.5	QPSK	10M	1	OFF	24.77	25	1.054	0.340	0.36	/
Body Front Unfold(10mm)	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.298	0.35	/
Body Back Unfold(10mm)	829	QPSK	10M	1	OFF	24.74	25	1.062	0.651	0.69	/
Body Back Unfold(10mm)	836.5	QPSK	10M	1	OFF	24.77	25	1.054	**0.657**	**0.69**	14#
Body Back Unfold(10mm)	844	QPSK	10M	1	OFF	24.65	25	1.084	0.609	0.66	/
Body Back Unfold(10mm)	836.5	QPSK	10M	50	OFF	24.28	25	1.18	0.533	0.63	/

LTE FDD Band 12:

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Plot
Head Left Cheek	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.161	0.18	/
Head Left Cheek	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.139	0.17	/
Head Left Tilt	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.067	0.07	/
Head Left Tilt	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.055	0.07	/
Head Right Cheek	704	QPSK	10M	1	OFF	24.84	25	1.038	0.143	0.15	/
Head Right Cheek	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.167	0.18	/
Head Right Cheek	711	QPSK	10M	1	OFF	24.74	25	1.062	**0.170**	**0.18**	15#
Head Right Cheek	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.140	0.17	/
Head Right Tilt	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.070	0.08	/
Head Right Tilt	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.057	0.07	/
Body Front Fold(10mm)	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.083	0.09	/
Body Front Fold(10mm)	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.069	0.08	/
Body Back Fold(10mm)	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.429	0.47	/
Body Back Fold(10mm)	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.36	0.43	/
Body Left Fold(10mm)	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.161	0.18	/
Body Left Fold(10mm)	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.157	0.19	/
Body Right Fold(10mm)	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.154	0.17	/
Body Right Fold(10mm)	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.130	0.16	/
Body Bottom Fold(10mm)	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.086	0.09	/
Body Bottom Fold(10mm)	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.07	0.08	/
Body Front Unfold(10mm)	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.319	0.35	/
Body Front Unfold(10mm)	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.263	0.31	/
Body Back Unfold(10mm)	704	QPSK	10M	1	OFF	24.84	25	1.038	0.676	0.70	/
Body Back Unfold(10mm)	707.5	QPSK	10M	1	OFF	24.57	25	1.104	0.717	0.79	/
Body Back Unfold(10mm)	711	QPSK	10M	1	OFF	24.74	25	1.062	**0.745**	**0.79**	16#
Body Back Unfold(10mm)	707.5	QPSK	10M	50	OFF	24.23	25	1.194	0.654	0.78	/

LTE FDD Band 14:

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Plot
Head Left Cheek	793	QPSK	10M	1	OFF	24.46	24.6	1.033	0.21	0.22	/
Head Left Cheek	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.179	0.22	/
Head Left Tilt	793	QPSK	10M	1	OFF	24.46	24.6	1.033	0.074	0.08	/
Head Left Tilt	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.063	0.08	/
Head Right Cheek	793	QPSK	10M	1	OFF	24.46	24.6	1.033	**0.211**	**0.22**	17#
Head Right Cheek	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.182	0.22	/
Head Right Tilt	793	QPSK	10M	1	OFF	24.46	24.6	1.033	0.083	0.09	/
Head Right Tilt	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.071	0.09	/
Body Front Fold(10mm)	793	QPSK	10M	1	OFF	24.46	24.6	1.033	0.085	0.09	/
Body Front Fold(10mm)	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.075	0.09	/
Body Back Fold(10mm)	793	QPSK	10M	1	OFF	24.46	24.6	1.033	**0.385**	**0.40**	18#
Body Back Fold(10mm)	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.329	0.40	/
Body Left Fold(10mm)	793	QPSK	10M	1	OFF	24.46	24.6	1.033	0.233	0.24	/
Body Left Fold(10mm)	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.210	0.26	/
Body Right Fold(10mm)	793	QPSK	10M	1	OFF	24.46	24.6	1.033	0.140	0.14	/
Body Right Fold(10mm)	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.124	0.15	/
Body Bottom Fold(10mm)	793	QPSK	10M	1	OFF	24.46	24.6	1.033	0.113	0.12	/
Body Bottom Fold(10mm)	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.092	0.11	/
Body Front Unfold(10mm)	793	QPSK	10M	1	OFF	24.46	24.6	1.033	0.168	0.17	/
Body Front Unfold(10mm)	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.161	0.20	/
Body Back Unfold(10mm)	793	QPSK	10M	1	OFF	24.46	24.6	1.033	0.154	0.16	/
Body Back Unfold(10mm)	793	QPSK	10M	50	OFF	23.75	24.6	1.216	0.153	0.19	/

LTE FDD Band 30:

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Plot
Head Left Cheek	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	**0.130**	**0.14**	19#
Head Left Cheek	2310	QPSK	10M	50	OFF	22.46	23.5	1.271	0.109	0.14	/
Head Left Tilt	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	0.126	0.13	/
Head Left Tilt	2310	QPSK	10M	50	OFF	22.46	23.5	1.271	0.110	0.14	/
Head Right Cheek	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	0.106	0.11	/
Head Right Cheek	2310	QPSK	10M	1	OFF	22.46	23.5	1.271	0.094	0.12	/
Head Right Tilt	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	0.102	0.11	/
Head Right Tilt	2310	QPSK	10M	50	OFF	22.46	23.5	1.271	0.086	0.11	/
Body Front Fold(10mm)	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	0.201	0.21	/
Body Front Fold(10mm)	2310	QPSK	10M	50	OFF	22.46	23.5	1.271	0.168	0.21	/
Body Back Fold(10mm)	2310	QPSK	10M	1	ON	21.24	21.5	1.062	**1.11**	**1.18**	20#
Body Back Fold(10mm)	2310	QPSK	10M	50	ON	20.53	21.5	1.25	0.9	1.13	/
Body Back Fold(10mm)	2310	QPSK	10M	100	ON	20.49	21.5	1.262	0.904	1.14	/
Body Left Fold(10mm)	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	0.075	0.08	/
Body Left Fold(10mm)	2310	QPSK	10M	50	OFF	22.46	23.5	1.271	0.062	0.08	/
Body Right Fold(10mm)	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	0.548	0.59	/
Body Right Fold(10mm)	2310	QPSK	10M	50	OFF	22.46	23.5	1.271	0.496	0.63	/
Body Bottom Fold(10mm)	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	0.315	0.34	/
Body Bottom Fold(10mm)	2310	QPSK	10M	50	OFF	22.46	23.5	1.271	0.253	0.32	/
Body Front Unfold(10mm)	2310	QPSK	10M	1	ON	21.24	21.5	1.062	0.894	0.95	/
Body Front Unfold(10mm)	2310	QPSK	10M	50	ON	20.53	21.5	1.25	0.745	0.93	/
Body Front Unfold(10mm)	2310	QPSK	10M	100	ON	20.49	21.5	1.262	0.749	0.95	/
Body Back Unfold(10mm)	2310	QPSK	10M	1	ON	21.24	21.5	1.062	0.851	0.90	/
Body Back Unfold(10mm)	2310	QPSK	10M	50	ON	20.53	21.5	1.25	0.695	0.87	/
Body Back Unfold(10mm)	2310	QPSK	10M	100	ON	20.49	21.5	1.262	0.684	0.86	/
Body Front Unfold(15mm)	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	0.702	0.75	/
Body Front Unfold(15mm)	2310	QPSK	10M	50	OFF	22.46	23.5	1.271	0.584	0.74	/
Body Back Unfold(25mm)	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	0.129	0.14	/
Body Back Unfold(25mm)	2310	QPSK	10M	50	OFF	22.46	23.5	1.271	0.108	0.14	/
Body Back Fold(25mm)	2310	QPSK	10M	1	OFF	23.21	23.5	1.069	0.215	0.23	/
Body Back Fold(25mm)	2310	QPSK	10M	50	OFF	22.46	23.5	1.271	0.179	0.23	/

LTE FDD Band 66&4:

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Plot
Head Left Cheek	1720	QPSK	20M	1	OFF	24.16	24.5	1.081	0.136	0.15	/
Head Left Cheek	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.139	0.16	/
Head Left Cheek	1770	QPSK	20M	1	OFF	23.98	24.5	1.127	**0.149**	**0.17**	21#
Head Left Cheek	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.126	0.15	/
Head Left Tilt	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.101	0.11	/
Head Left Tilt	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.091	0.11	/
Head Right Cheek	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.134	0.15	/
Head Right Cheek	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.129	0.15	/
Head Right Tilt	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.120	0.13	/
Head Right Tilt	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.107	0.13	/
Body Front Fold(10mm)	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.259	0.29	/
Body Front Fold(10mm)	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.230	0.27	/
Body Back Fold(10mm)	1745	QPSK	20M	1	ON	20.09	20.5	1.099	0.668	0.73	/
Body Back Fold(10mm)	1745	QPSK	20M	50	ON	19.79	20.5	1.178	0.590	0.70	/
Body Left Fold(10mm)	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.347	0.39	/
Body Left Fold(10mm)	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.307	0.36	/
Body Right Fold(10mm)	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.265	0.30	/
Body Right Fold(10mm)	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.234	0.28	/
Body Bottom Fold(10mm)	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.53	0.59	/
Body Bottom Fold(10mm)	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.454	0.54	/
Body Front Unfold(10mm)	1720	QPSK	20M	1	ON	20.13	20.5	1.089	0.738	0.80	/
Body Front Unfold(10mm)	1745	QPSK	20M	1	ON	20.09	20.5	1.099	0.767	0.84	/
Body Front Unfold(10mm)	1770	QPSK	20M	1	ON	20.16	20.5	1.081	**0.812**	**0.88**	22#
Body Front Unfold(10mm)	1745	QPSK	20M	50	ON	19.79	20.5	1.178	0.677	0.80	/
Body Back Unfold(10mm)	1745	QPSK	20M	1	ON	20.09	20.5	1.099	0.435	0.48	/
Body Back Unfold(10mm)	1745	QPSK	20M	50	ON	19.79	20.5	1.178	0.405	0.48	/
Body Front Unfold(15mm)	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.477	0.53	/
Body Front Unfold(15mm)	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.422	0.50	/
Body Back Unfold(25mm)	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.205	0.23	/
Body Back Unfold(25mm)	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.183	0.22	/
Body Back Fold(25mm)	1745	QPSK	20M	1	OFF	24.01	24.5	1.119	0.313	0.35	/
Body Back Fold(25mm)	1745	QPSK	20M	50	OFF	23.76	24.5	1.186	0.277	0.33	/

Note:
LTE FDD Band 66 and LTE FDD Band 4 have the same power, we only tested the LTE Band 66 because it has a larger frequency range, so the LTE FDD Band 4 does not need to be tested

LTE FDD Band 71:

EUT Position	Freq. (MHz)	Modulation Type	Bandwidth (MHz)	RB	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Plot
Head Left Cheek	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.082	0.09	/
Head Left Cheek	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.076	0.10	/
Head Left Tilt	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.049	0.05	/
Head Left Tilt	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.046	0.06	/
Head Right Cheek	673	QPSK	20M	1	OFF	24.49	25	1.125	0.117	0.13	/
Head Right Cheek	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.111	0.12	/
Head Right Cheek	688	QPSK	20M	1	OFF	24.64	25	1.086	**0.119**	**0.13**	23#
Head Right Cheek	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.106	0.13	/
Head Right Tilt	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.055	0.06	/
Head Right Tilt	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.052	0.07	/
Body Front Fold(10mm)	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.074	0.08	/
Body Front Fold(10mm)	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.060	0.08	/
Body Back Fold(10mm)	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.28	0.31	/
Body Back Fold(10mm)	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.226	0.29	/
Body Left Fold(10mm)	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.142	0.16	/
Body Left Fold(10mm)	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.116	0.15	/
Body Right Fold(10mm)	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.105	0.12	/
Body Right Fold(10mm)	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.086	0.11	/
Body Bottom Fold(10mm)	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.122	0.13	/
Body Bottom Fold(10mm)	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.105	0.13	/
Body Front Unfold(10mm)	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.221	0.24	/
Body Front Unfold(10mm)	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.174	0.22	/
Body Back Unfold(10mm)	673	QPSK	20M	1	OFF	24.49	25	1.125	**0.390**	**0.44**	24#
Body Back Unfold(10mm)	680.5	QPSK	20M	1	OFF	24.6	25	1.096	0.376	0.41	/
Body Back Unfold(10mm)	688	QPSK	20M	1	OFF	24.64	25	1.086	0.390	0.42	/
Body Back Unfold(10mm)	680.5	QPSK	20M	50	OFF	23.96	25	1.271	0.308	0.39	/

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 > ½ 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.

WLAN 2.4G：

EUT Position	Freq. (MHz)	Test Mode	Sensor	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Duct cycle Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
Head Left Cheek	2412	802.11b	OFF	15.68	16.5	1.208	1.000	0.341	0.41	1.6	/
Head Left Cheek	2437	802.11b	OFF	15.98	16.5	1.127	1.000	0.343	0.39	1.6	/
Head Left Cheek	2462	802.11b	OFF	15.87	16.5	1.156	1.000	**0.351**	**0.41**	1.6	**25#**
Head Left Tilt	2437	802.11b	OFF	15.98	16.5	1.127	1.000	0.017	0.02	1.6	/
Head Right Cheek	2437	802.11b	OFF	15.98	16.5	1.127	1.000	0.042	0.05	1.6	/
Head Right Tilt	2437	802.11b	OFF	15.98	16.5	1.127	1.000	0.014	0.02	1.6	/
Body Front Fold(10mm)	2437	802.11b	OFF	15.98	16.5	1.127	1.000	0.091	0.10	1.6	/
Body Back Fold(10mm)	2437	802.11b	OFF	15.98	16.5	1.127	1.000	0.173	0.19	1.6	/
Body Left Fold(10mm)	2437	802.11b	OFF	15.98	16.5	1.127	1.000	0.163	0.18	1.6	/
Body Top Fold(10mm)	2437	802.11b	OFF	15.98	16.5	1.127	1.000	0.081	0.09	1.6	/
Body Front Unfold(10mm)	2437	802.11b	OFF	15.98	16.5	1.127	1.000	0.201	0.23	1.6	/
Body Back Unfold(10mm)	2412	802.11b	OFF	15.68	16.5	1.208	1.000	0.186	0.22	1.6	/
Body Back Unfold(10mm)	2437	802.11b	OFF	15.98	16.5	1.127	1.000	0.253	0.29	1.6	/
Body Back Unfold(10mm)	2462	802.11b	OFF	15.87	16.5	1.156	1.000	**0.259**	**0.30**	1.6	**26#**

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.KDB 248227 D01-SAR measurement is not required for 2.4 GHz OFDM(802.11g/n)when the highest reported SAR for DSSS(802.11b) is ≤ 1.2 W/kg, and the output power for DSSS is not less than that for OFDM.
4. According to KDB 248227 D01, for SAR testing of WLAN with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to “1/(duty cycle)”.

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 (~ 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

Head

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

Body

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
1750 MHz	LTE Band 66&4	1770	Body Front Unfold(10mm)	0.812	0.805	1.01
1900 MHz	LTE Band 2	1880	Body Front Unfold(10mm)	0.89	0.886	1.005
2300 MHz	LTE Band 30	2310	Body Back Fold(10mm)	1.11	1.1	1.01

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..

DUT HOLDER PERTURBATIONS

In accordance with TCB workshop October 2016:

1) SAR perturbation due to test device holders, depending on antenna locations, buttons locations on phones or device, form factor (e.g. dongles etc.), the measured SAR could be influenced by the relative positions of the test device and its holder
2) SAR measurement standards have included protocols to evaluate this with a flat phantom, with and without the device holder
3) When the highest reported SAR of an antenna is > 1.2 W/kg, holder perturbation verification is required for each antenna, using the highest SAR configuration among all applicable frequency bands in the same exact device and holder positions used for head and body SAR measurements; i.e. same device/button locations in the holder

Per IEEE 1528: 2013/Annex E/E.4.1.1: Device holder perturbation tolerance for a specific test device: Type B

When it is unknown if a device holder perturbs the fields of a test device, the SAR uncertainty shall be assessed with a flat phantom (see Clause 5) by comparing the SAR with and without the device holder according to the following tests:

The SAR tolerance for device holder disturbance is computed using Equation (E.21) and entered in the corresponding row of the appropriate uncertainty table with an assumed rectangular probability distribution and $vi = \infty$ degrees of freedom:

$$SAR_{\text{tolerance}}[\%] = 100 \times \left(\frac{SAR_{\text{w/ holder}} - SAR_{\text{w/o holder}}}{SAR_{\text{w/o holder}}} \right) \quad \text{(E.21)}$$

The Highest Measured SAR Configuration among all applicable Frequency Band

Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		The Device holder perturbation uncertainty
			With holder	Without holder	
/	/	/	/	/	/

SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities		
Transmitter Combination	**Simultaneous?**	**Hotsport**
WWAN(GSM/WCDMA/LTE) Antenna + WLAN 2.4G	√	√
WWAN(GSM/WCDMA/LTE) Antenna + Bluetooth	√	×
WLAN 2.4G + Bluetooth	×	×

Simultaneous SAR test exclusion considerations

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR < 1.6W/kg
		SAR1	SAR2	
MAX.WWAN(GSM/WCDMA/LTE)+Bluetooth	Head	0.38	0.21	0.59
	Body	1.18	0.11	1.29
MAX.WWAN(GSM/WCDMA/LTE)+ WLAN 2.4G	Head	0.38	0.41	**0.79**
	Body	1.18	0.30	**1.48**
	Body(Hotspot)	1.18	0.30	**1.48**

Conclusion:

Sum of SAR:**ΣSAR ≤1.6 W/kg** therefore simultaneous transmission SAR with Volume Scans is **not required**.

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	√3	√0.5	√0.5	1.9	1.9
Hemispherical isotropy	9.6	R	√3	√0.5	√0.5	3.9	3.9
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Linearity	4.7	R	√3	1	1	2.7	2.7
System detection limits	1.0	R	√3	1	1	0.6	0.6
Modulation response	0.0	R	√3	1	1	0.0	0.0
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions-noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions-reflections	1.0	R	√3	1	1	0.6	0.6
Probe positioner mech. tolerance	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	2.0	R	√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	√3	1	1	2.9	2.9
SAR scaling	2.8	R	√3	1	1	1.6	1.6
Phantom and tissue parameters							
Phantom shell uncertainty– shape, thickness and permittivity	4.0	R	√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	√3	0.78	0.71	0.8	0.7
Liquid permittivity – temperature uncertainty	0.3	R	√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 *******