

FCC SAR TEST REPORT

Applicant: SIMO Holdings Inc.

Address: PO.Box 309, Ugland House, GrandCayman, KY1-1104, Cayman Islands

Product Name: Solis EDGE

FCC ID: 2A9UP-SEG

Standard(s): 47 CFR Part 2(2.1093)

Report Number: 2502X32646E-20A

Report Date: 2025/10/09

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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SAR TEST RESULTS SUMMARY

Mode		Max. Reported SAR Level(s) (W/kg)	Limit (W/kg)
GSM 850	1g Body SAR	0.61	1.6
PCS 1900	1g Body SAR	0.58	
WCDMA Band 2	1g Body SAR	0.69	
WCDMA Band 4	1g Body SAR	0.73	
WCDMA Band 5	1g Body SAR	0.72	
LTE Band 2	1g Body SAR	0.39	
LTE Band 4	1g Body SAR	0.40	
LTE Band 5	1g Body SAR	0.32	
LTE Band 7	1g Body SAR	0.40	
LTE Band 12	1g Body SAR	0.34	
LTE Band 13	1g Body SAR	0.45	
LTE Band 14	1g Body SAR	0.44	
LTE Band 25	1g Body SAR	0.79	
LTE Band 26	1g Body SAR	0.79	
LTE Band 41	1g Body SAR	0.21	
LTE Band 42	1g Body SAR	0.54	
LTE Band 66	1g Body SAR	0.38	
LTE Band 71	1g Body SAR	0.44	
5G NR n25&2	1g Body SAR	0.50	
5G NR n5	1g Body SAR	0.47	
5G NR n7	1g Body SAR	0.30	
5G NR n12	1g Body SAR	0.23	
5G NR n41	1g Body SAR	0.41	
5G NR n66	1g Body SAR	0.31	
5G NR n71	1g Body SAR	0.22	
5G NR n77_3	1g Body SAR	0.22	
5G NR n78_1	1g Body SAR	0.32	
WLAN 2.4G ANT6	1g Body SAR	0.19	
WLAN 5.2G ANT6	1g Body SAR	0.20	
WLAN 5.8G ANT6	1g Body SAR	0.26	
WLAN 2.4G ANT7	1g Body SAR	0.18	
WLAN 5.2G ANT7	1g Body SAR	0.24	
WLAN 5.8G ANT7	1g Body SAR	0.18	
Simultaneous	1g Body SAR	1.23	
	1g Body SAR	1.23(Hotspot)	

Applicable Standards	FCC 47 CFR part 2.1093 Radiofrequency radiation exposure evaluation: portable devices
	IEEE 1528:2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
	KDB procedures KDB 447498 D01 General RF Exposure Guidance v06 KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 KDB 865664 D02 RF Exposure Reporting v01r02 KDB 941225 D01 3G SAR Procedures v03r01 KDB 941225 D05 SAR for LTE Devices v02r05 KDB 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.	

Note: The test data of LTE Band 42, 5G NR and WLAN 2.4G/5.2G/5.8G, please refer to FCC ID: 2A9UP-SEG, SAR report: 2501V03643E-SA ▲, issued by Bay Area Compliance Laboratories Corp. (Shenzhen).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502X32646E-20A	Original Report	2025/10/09

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Solis EDGE
EUT Model:	S5G25
Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	None
Proximity Sensor:	None
Carrier Aggregation:	None
Operation Modes:	GPRS/EGPRS Data, WCDMA(R99 (Data), HSUPA/HSDPA), FDD-LTE, TDD-LTE, 5G NR, WLAN
EN-DC possible combinations:	DC_2A_n7A/ DC_2A_n66A/ DC_2A_n78A/ DC_4A_n7A/ DC_4A_n78A/ DC_5A_n66A/ DC_5A_n78A/ DC_7A_n7A/ DC_7A_n66A/ DC_7A_n78A/ DC_12A_n66A/ DC_66A_n7A/ DC_66A_n78
Frequency Band:	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX)
	PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX)
	WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX)
	WCDMA Band 4: 1710-1755 MHz(TX); 2110-2155 MHz(RX)
	WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX)
	LTE Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX)
	LTE Band 4: 1710-1755 MHz(TX); 2110-2155 MHz(RX)
	LTE Band 5: 824-849 MHz(TX); 869-894 MHz(RX)
	LTE Band 7: 2500-2570 MHz(TX); 2620-2690 MHz(RX)
	LTE Band 12: 699-716 MHz(TX); 729-746 MHz(RX)
	LTE Band 13: 777-787 MHz(TX); 746-756 MHz(RX)
	LTE Band 14: 788-798 MHz(TX); 758-768 MHz(RX)
	LTE Band 25: 1850-1915 MHz(TX); 1930-1995 MHz(RX)
	LTE Band 26: 814-849 MHz(TX); 859-894 MHz(RX)
	LTE Band 41: 2496-2690 MHz(TX/RX)
	LTE Band 42: 3450-3550 MHz(TX/RX)
	LTE Band 66: 1710-1780 MHz(TX); 2110-2200 MHz(RX)
	LTE Band 71: 663-698 MHz(TX); 617-652 MHz(RX)
	5G NR n2: 1850-1910 MHz(TX); 1930-1990 MHz(RX)
	5G NR n5: 824-849 MHz(TX); 869-894 MHz(RX)
	5G NR n7: 2500-2570 MHz(TX); 2620-2690 MHz(RX)
	5G NR n12: 699-716 MHz(TX); 729-746 MHz(RX)
	5G NR n25: 1850-1915 MHz(TX); 1930-1995 MHz(RX)
	5G NR n41: 2500-2690 MHz(TX/RX)
	5G NR n66: 1710-1780 MHz(TX); 2110-2180 MHz(RX)
	5G NR n71: 663-698 MHz(TX); 617-652 MHz(RX)
	5G NR n77_3: 3700-3980 MHz(TX/RX)
	5G NR n78_1: 3450-3550 MHz(TX/RX)

Frequency Band:	Wi-Fi 2.4G: 2412-2462 MHz /2422-2452 MHz (TX/RX)
	Wi-Fi 5.2G: 5150-5250 MHz(TX/RX)
	Wi-Fi 5.8G: 5725-5850 MHz(TX/RX)
Dimensions (L*W*H):	136mm (L) * 79mm (W) * 13mm (H)
Rated Input Voltage:	DC 3.87V from Rechargeable Battery
Serial Number:	3A2C-1
Normal Operation:	Body
EUT Received Date:	2025/09/15
Test Date:	2025/09/19 ~ 2025/09/23
EUT Received Status:	Good

Note: The test data of LTE Band 42,5G NR and WLAN 2.4G/5.2G/5.8G, please refer to FCC ID: 2A9UP-SEG, SAR report: 2501V03643E-SA ▲, issued by Bay Area Compliance Laboratories Corp. (Shenzhen).

2. 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.

2.1 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)	1.6	8
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4	20

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 maybe 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 1.6 W/kg(FCC) for 1g Body SAR applied to the EUT.

2.2 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. :829273, the FCC Designation No. : CN5044.

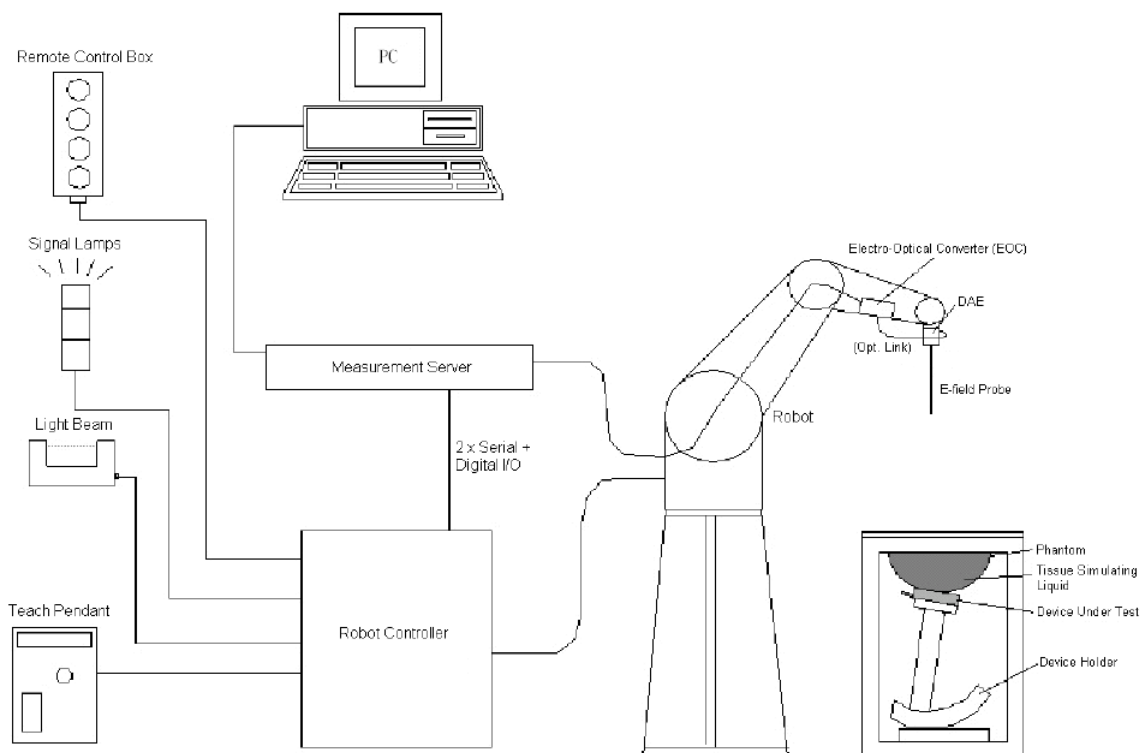
3. DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY5 System Description

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



- A standard high precision 6-axis robot 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.

DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip-disk and 128MB 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 DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. 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 point out, and therefore only devices provided by SPEAG can be connected. 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 200M Ω ; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

EX3DV4 E-Field Probes

Frequency	4 MHz–6 GHz Linearity: ± 0.2 dB (30 MHz–10 GHz)
Directivity(typical)	± 0.1 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g – > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Applications	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, DASY6, DASY8, EASY6, EASY4/MRI

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness

increases to 6 mm). The phantom has three measurement areas:

- _ Left Head
- _ Right Head
- _ Flat phantom

The phantom table for the DASY systems based on the robots have the size of 100 x 50 x 85 cm (L x W x H). For easy dislocation these tables have fork lift cut outs at the bottom.

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)



A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible.

Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.

Robots

The DASY5 system uses the high precision industrial robot. The robot offers the same features important for our application:

- 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 above mentioned robots are controlled by the Staubli CS7MB robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is contained on the CDs delivered along with the robot. Paper manuals are available upon request direct from Staubli.

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 15mm² step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

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

Zoom Scan (Cube Scan Averaging)

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

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

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 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 3—Target dielectric properties of head tissue-equivalent material in the 300 MHz to 6000 MHz frequency range

Frequency (MHz)	Relative permittivity (ϵ_r)	Conductivity (σ) (S/m)
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1500	40.4	1.23
1640	40.2	1.31
1750	40.1	1.37
1800	40.0	1.40
1900	40.0	1.40
2000	40.0	1.40
2100	39.8	1.49
2300	39.5	1.67
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27
6000	35.1	5.48

NOTE—For convenience, permittivity and conductivity values at some frequencies that are not part of the original data from Drossos et al. [B60] or the extension to 5800 MHz are provided (i.e., the values shown in italics). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6000 MHz that were linearly extrapolated from the values at 3000 MHz and 5800 MHz.

4. EQUIPMENT LIST AND CALIBRATION

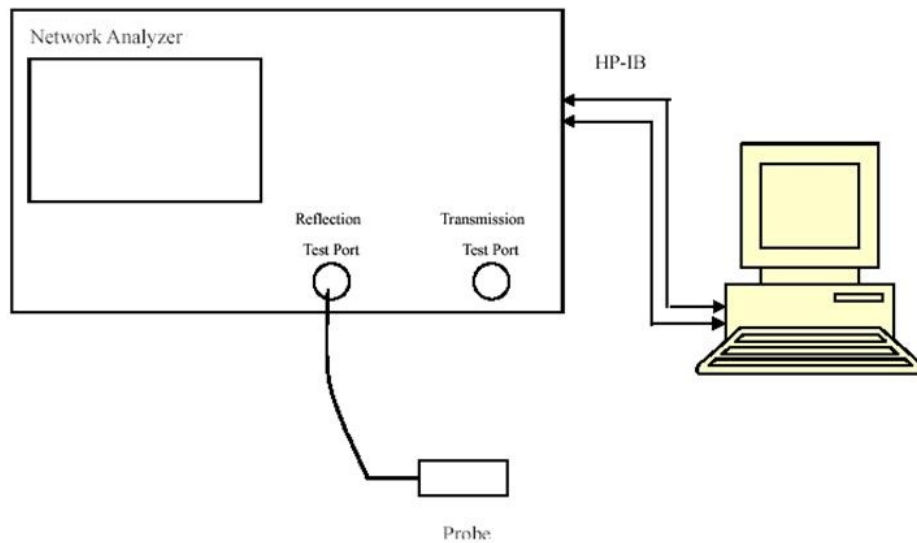
4.1 Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.10	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1470	NCR	NCR
Data Acquisition Electronics	DAE4	772	2025/2/17	2026/2/16
E-Field Probe	EX3DV4	7329	2025/5/26	2026/5/25
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
Twin SAM	Twin SAM V5.0	1097	NCR	NCR
Dipole, 750 MHz	D750V3	1167	2022/10/31	2025/10/30
Dipole, 1750 MHz	D1750V2	1141	2024/6/17	2027/6/16
Dipole, 1900 MHz	D1900V2	543	2022/11/2	2025/11/1
Dipole, 2600 MHz	D2600V2	1132	2022/11/1	2025/10/31
Simulated Tissue Liquid Head	HBBL600-10000V6	SL AAH U126 CA (Batch:250429-1)	N/A	N/A
Network Analyzer	8753C +85047A	3029A01355 +3033A02857	2025/7/3	2026/7/2
Dielectric assessment kit	DAK-3.5	1253	NCR	NCR
synthesized signal generator	8665B	3438a00584	2025/7/29	2026/7/28
EPM Series Power Meter	E4419B	MY45103907	2024/10/18	2025/10/17
Power Sensor	8482A	US37296108	2024/10/19	2025/10/18
Power Meter	EPM-441A	GB37481494	2024/10/19	2025/10/18
USB Wideband Power Sensor	U2022XA	MY54170006	2024/10/18	2025/10/17
Power Amplifier	ZHL-5W-202-S+	416402204	NCR	NCR
Power Amplifier	ZVE-6W-83+	637202210	NCR	NCR
Directional Coupler	520Z	441493	NCR	NCR
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR
Thermometer	DTM3000	3635	2025/8/8	2026/8/7
Hygrothermograph	HTC-2	EM072	2024/11/4	2025/11/3
Wireless Communication Test Set	8960	MY50266471	2025/7/28	2026/7/27
Wideband Radio Communication Tester	CMW500	147473	2025/7/28	2026/7/27
Spectrum Analyzer	FSV40	101944	2025/8/8	2026/8/7

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

5. SAR MEASUREMENT SYSTEM VERIFICATION

5.1 Liquid Verification



5.2 Liquid Verification Results

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
704	Simulated Tissue Liquid Head	42.774	0.846	42.15	0.89	1.48	-4.94	± 5
707.5	Simulated Tissue Liquid Head	42.739	0.852	42.13	0.89	1.45	-4.27	± 5
711	Simulated Tissue Liquid Head	42.704	0.867	42.11	0.89	1.41	-2.58	± 5
750	Simulated Tissue Liquid Head	42.347	0.887	41.9	0.89	1.07	-0.34	± 5
824.2	Simulated Tissue Liquid Head	42.021	0.905	41.55	0.9	1.13	0.56	± 5
826.4	Simulated Tissue Liquid Head	41.949	0.913	41.54	0.9	0.98	1.44	± 5
829	Simulated Tissue Liquid Head	41.918	0.925	41.53	0.9	0.93	2.78	± 5
836.5	Simulated Tissue Liquid Head	41.876	0.932	41.5	0.9	0.91	3.56	± 5
836.6	Simulated Tissue Liquid Head	41.876	0.934	41.5	0.9	0.91	3.78	± 5
844	Simulated Tissue Liquid Head	41.742	0.867	41.5	0.91	0.58	-4.73	± 5
846.6	Simulated Tissue Liquid Head	41.722	0.871	41.5	0.91	0.53	-4.29	± 5
848.8	Simulated Tissue Liquid Head	41.709	0.889	41.5	0.91	0.5	-2.31	± 5

*Liquid Verification above was performed on 2025/09/20.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
673	Simulated Tissue Liquid Head	43.433	0.864	42.26	0.88	2.78	-1.82	± 5
680.5	Simulated Tissue Liquid Head	43.328	0.869	42.23	0.88	2.6	-1.25	± 5
688	Simulated Tissue Liquid Head	43.232	0.873	42.19	0.88	2.47	-0.8	± 5
750	Simulated Tissue Liquid Head	41.967	0.909	41.9	0.89	0.16	2.13	± 5
793	Simulated Tissue Liquid Head	41.832	0.925	41.7	0.9	0.32	2.78	± 5
821.5	Simulated Tissue Liquid Head	41.458	0.935	41.56	0.9	-0.25	3.89	± 5
831.5	Simulated Tissue Liquid Head	41.335	0.938	41.52	0.9	-0.45	4.22	± 5
841.5	Simulated Tissue Liquid Head	41.211	0.942	41.5	0.91	-0.7	3.52	± 5

*Liquid Verification above was performed on 2025/09/21.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
750	Simulated Tissue Liquid Head	42.569	0.864	41.9	0.89	1.6	-2.92	± 5
782	Simulated Tissue Liquid Head	41.981	0.92	41.75	0.89	0.55	3.37	± 5

*Liquid Verification above was performed on 2025/09/22.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
1712.4	Simulated Tissue Liquid Head	38.939	1.325	40.13	1.35	-2.97	-1.85	± 5
1720	Simulated Tissue Liquid Head	38.899	1.332	40.13	1.35	-3.07	-1.33	± 5
1732.5	Simulated Tissue Liquid Head	38.854	1.344	40.12	1.36	-3.16	-1.18	± 5
1732.6	Simulated Tissue Liquid Head	38.854	1.345	40.12	1.36	-3.16	-1.1	± 5
1745	Simulated Tissue Liquid Head	38.811	1.358	40.1	1.37	-3.21	-0.88	± 5
1750	Simulated Tissue Liquid Head	38.789	1.363	40.1	1.37	-3.27	-0.51	± 5
1752.6	Simulated Tissue Liquid Head	38.775	1.366	40.09	1.37	-3.28	-0.29	± 5
1770	Simulated Tissue Liquid Head	39.708	1.382	40.06	1.38	-0.88	0.14	± 5

*Liquid Verification above was performed on 2025/09/22.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
1850.2	Simulated Tissue Liquid Head	39.765	1.334	40.00	1.40	-0.59	-4.71	±5
1852.4	Simulated Tissue Liquid Head	39.754	1.336	40.00	1.40	-0.62	-4.57	±5
1860	Simulated Tissue Liquid Head	39.714	1.342	40.00	1.40	-0.72	-4.14	±5
1880	Simulated Tissue Liquid Head	39.636	1.359	40.00	1.40	-0.91	-2.93	±5
1882.5	Simulated Tissue Liquid Head	39.62	1.361	40.00	1.40	-0.95	-2.79	±5
1900	Simulated Tissue Liquid Head	39.552	1.375	40.00	1.40	-1.12	-1.79	±5
1905	Simulated Tissue Liquid Head	39.536	1.379	40.00	1.40	-1.16	-1.5	±5
1907.6	Simulated Tissue Liquid Head	39.528	1.381	40.00	1.40	-1.18	-1.36	±5
1909.8	Simulated Tissue Liquid Head	39.521	1.383	40.00	1.40	-1.2	-1.21	±5

*Liquid Verification above was performed on 2025/09/23.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
2506	Simulated Tissue Liquid Head	40.101	1.88	39.13	1.86	2.48	1.08	±5
2510	Simulated Tissue Liquid Head	40.082	1.885	39.12	1.86	2.46	1.34	±5
2535	Simulated Tissue Liquid Head	39.983	1.917	39.09	1.89	2.28	1.43	±5
2550	Simulated Tissue Liquid Head	38.923	1.974	39.07	1.91	-0.38	3.35	±5
2560	Simulated Tissue Liquid Head	38.896	1.983	39.05	1.92	-0.39	3.28	±5
2593	Simulated Tissue Liquid Head	38.823	2.017	39.01	1.95	-0.48	3.44	±5
2600	Simulated Tissue Liquid Head	38.806	2.025	39	1.96	-0.5	3.32	±5
2636	Simulated Tissue Liquid Head	38.689	2.061	38.96	2	-0.7	3.05	±5
2680	Simulated Tissue Liquid Head	38.539	2.11	38.9	2.05	-0.93	2.93	±5

*Liquid Verification above was performed on 2025/09/19.

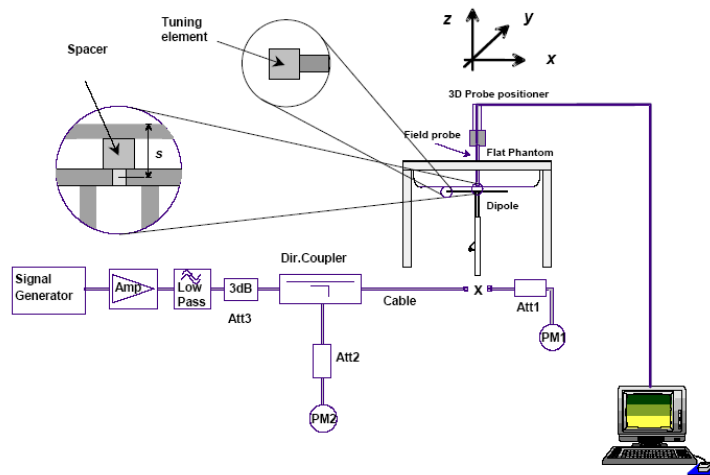
5.3 System Accuracy Verification

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

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

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

System Verification Setup Block Diagram



5.4 System Accuracy Check Results

Date	Frequency Band (MHz)	Liquid Type	Input Power (mW)	Measured SAR (W/kg)	Normalized to 1W (W/kg)	Target Value (W/Kg)	Delta (%)	Tolerance (%)
2025/09/20	750	Simulated Tissue Liquid Head	100	1g 0.841	8.41	8.48	-0.83	± 10
2025/09/21	750	Simulated Tissue Liquid Head	100	1g 0.857	8.57	8.48	1.06	± 10
2025/09/22	750	Simulated Tissue Liquid Head	100	1g 0.808	8.08	8.48	-4.72	± 10
2025/09/22	1750	Simulated Tissue Liquid Head	100	1g 3.38	33.8	36.1	-6.37	± 10
2025/09/23	1900	Simulated Tissue Liquid Head	100	1g 3.95	39.5	40.2	-1.74	± 10
2025/09/19	2600	Simulated Tissue Liquid Head	100	1g 5.66	56.6	55.8	1.43	± 10

Note: All the SAR values are normalized to 1Watt forward power.

5.5 SAR SYSTEM VALIDATION DATA

System Performance 750 MHz Head was performed on 2025/09/20

DUT: D750V3; Type: 750 MHz; Serial: 1167

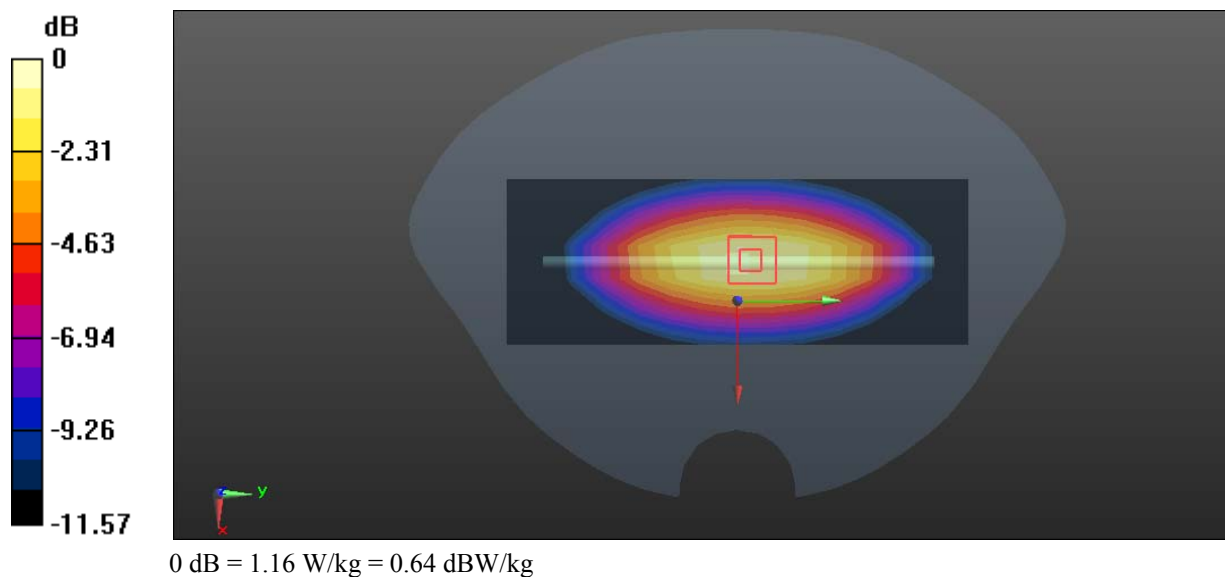
Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750$ MHz; $\sigma = 0.887$ S/m; $\epsilon_r = 42.347$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(10.2, 10.2, 10.2) @ 750 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.978 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.32 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.841 W/kg; SAR(10 g) = 0.554 W/kg
Smallest distance from peaks to all points 3 dB below = 16.5 mm
Ratio of SAR at M2 to SAR at M1 = 62.9%
Maximum value of SAR (measured) = 1.16 W/kg



System Performance 750 MHz Head was performed on 2025/09/21**DUT: D750V3; Type: 750 MHz; Serial: 1167**

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 41.967$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(10.2, 10.2, 10.2) @ 750 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.01 W/kg

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

Reference Value = 31.71 V/m; Power Drift = 0.05 dB

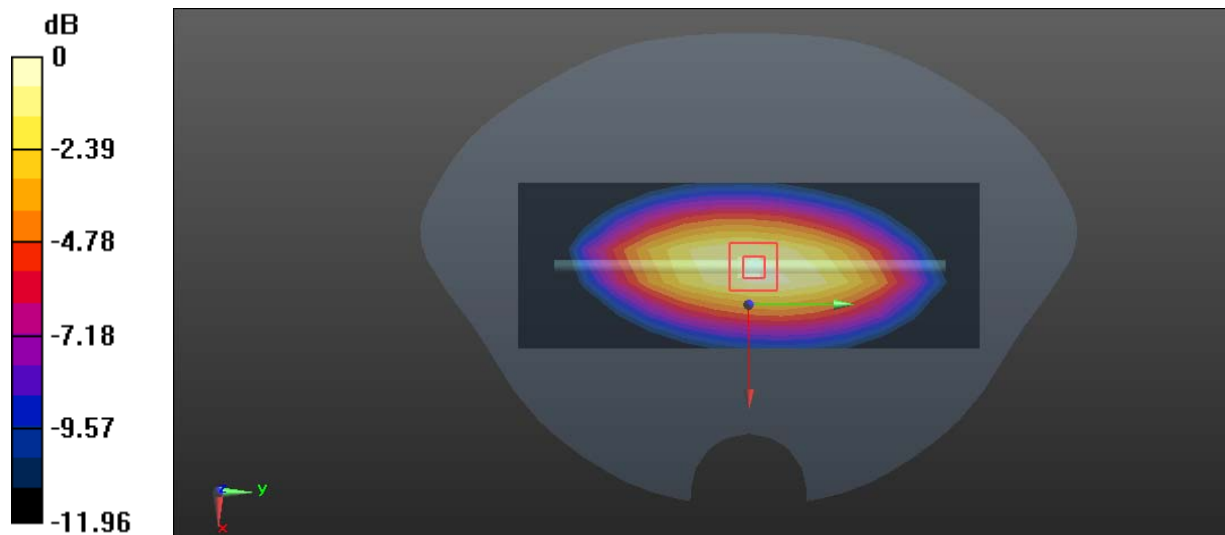
Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.857 W/kg; SAR(10 g) = 0.568 W/kg

Smallest distance from peaks to all points 3 dB below = 17.2 mm

Ratio of SAR at M2 to SAR at M1 = 64.6%

Maximum value of SAR (measured) = 1.19 W/kg



System Performance 750 MHz Head was performed on 2025/09/22**DUT: D750V3; Type: 750 MHz; Serial: 1167**

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750$ MHz; $\sigma = 0.864$ S/m; $\epsilon_r = 42.569$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(10.2, 10.2, 10.2) @ 750 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (6x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.996 W/kg

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

Reference Value = 31.99 V/m; Power Drift = -0.17 dB

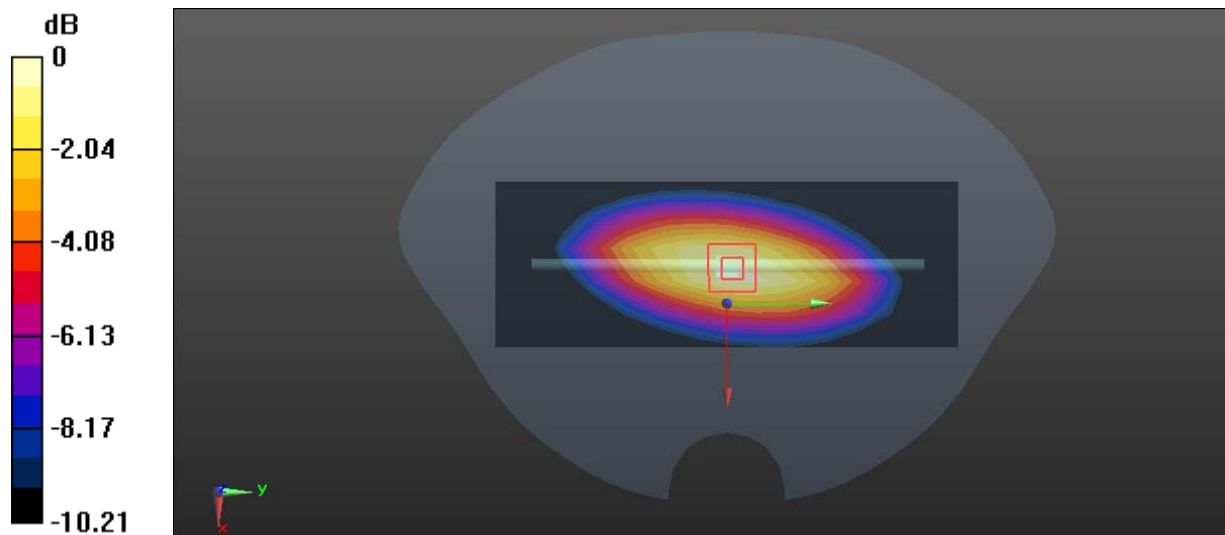
Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.532 W/kg

Smallest distance from peaks to all points 3 dB below = 16.4 mm

Ratio of SAR at M2 to SAR at M1 = 63.6%

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.45 dBW/kg

System Performance 1750 MHz Head was performed on 2025/09/22**DUT: D1750V2; Type: 1750 MHz; Serial: 1141**

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 38.789$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(8.45, 8.45, 8.45) @ 1750 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.58 W/kg

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

Reference Value = 50.33 V/m; Power Drift = 0.08 dB

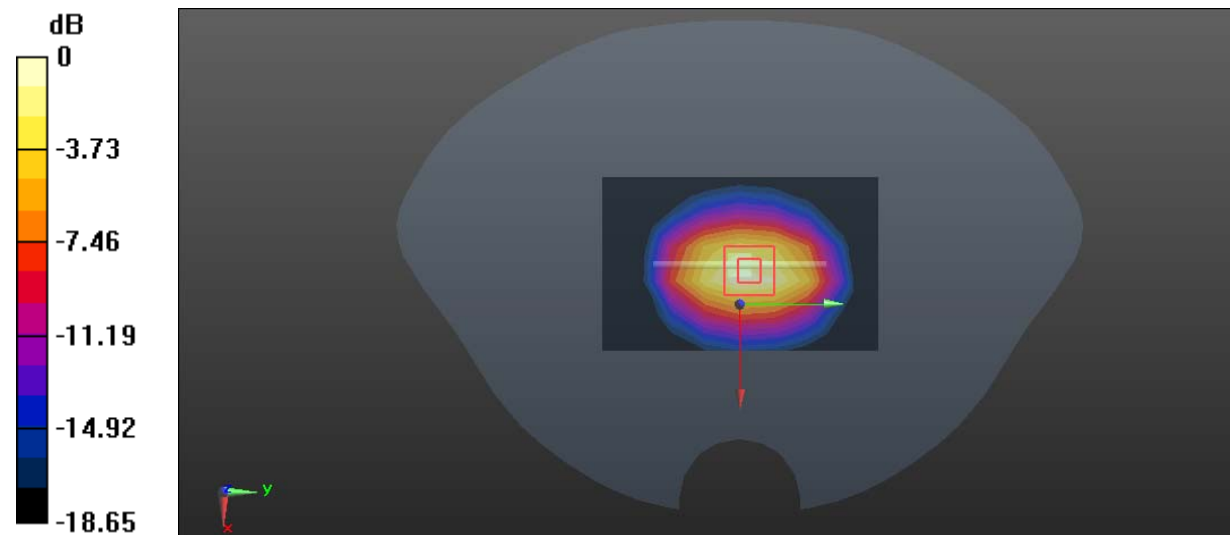
Peak SAR (extrapolated) = 5.97 W/kg

SAR(1 g) = 3.38 W/kg; SAR(10 g) = 1.87 W/kg

Smallest distance from peaks to all points 3 dB below = 11.7 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 5.04 W/kg



System Performance 1900 MHz Head was performed on 2025/09/23**DUT: D1900V2; Type: 1900 MHz; Serial: 543**

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.375$ S/m; $\epsilon_r = 39.552$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(8.12, 8.12, 8.12) @ 1900 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.27 W/kg

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

Reference Value = 54.44 V/m; Power Drift = 0.06 dB

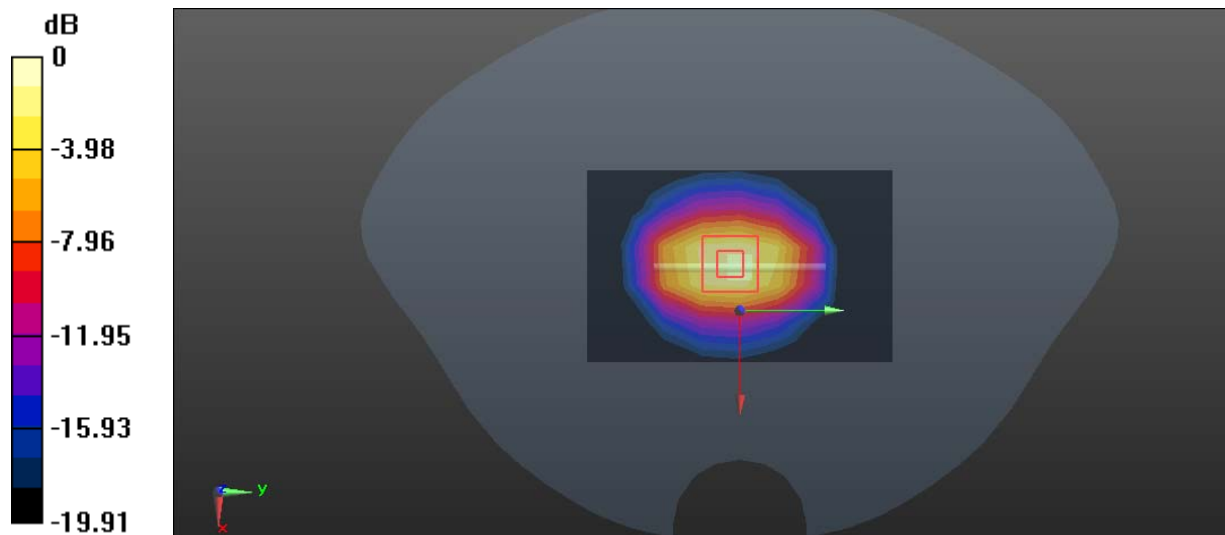
Peak SAR (extrapolated) = 7.15 W/kg

SAR(1 g) = 3.95 W/kg; SAR(10 g) = 2.1 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 5.95 W/kg



0 dB = 5.95 W/kg = 7.75 dBW/kg

System Performance 2600 MHz Head was performed on 2025/09/19**DUT: D2600V2; Type: 2600 MHz; Serial: 1132**

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

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.025$ S/m; $\epsilon_r = 38.806$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.5, 7.5, 7.5) @ 2600 MHz; Calibrated: 2025/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2025/2/17
- Phantom: Twin SAM; Type: QD000P40CC; Serial: TP:1097
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm

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

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

Reference Value = 56.32 V/m; Power Drift = 0.12 dB

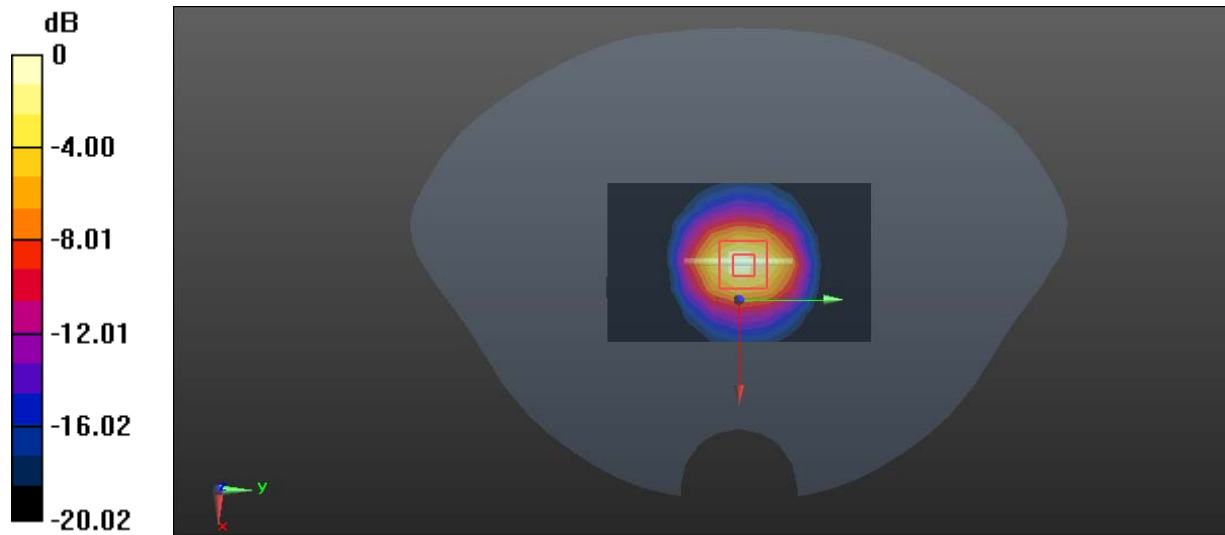
Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 5.66 W/kg; SAR(10 g) = 2.66 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.4%

Maximum value of SAR (measured) = 9.21 W/kg



0 dB = 9.21 W/kg = 9.64 dBW/kg

6. EUT TEST STRATEGY AND METHODOLOGY

6.1 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.

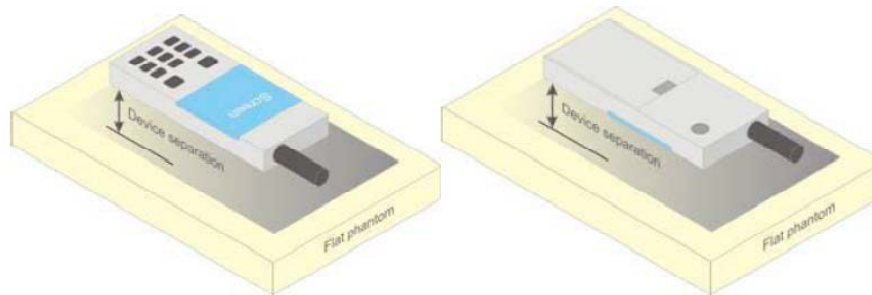


Figure 5 – Test positions for body-worn devices

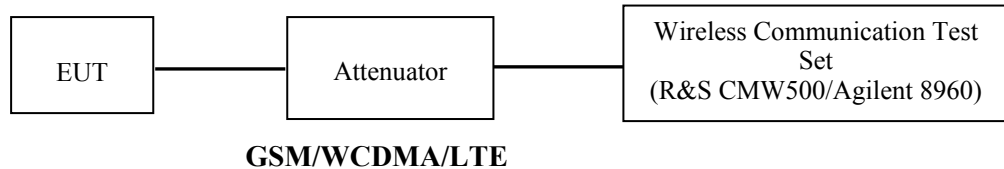
6.2 Test Distance for SAR Evaluation

For Body mode(1g Body SAR) the EUT(Equipment Under Test) is set 10mm away from the phantom, the test distance is 10mm.

7. CONDUCTED OUTPUT POWER MEASUREMENT

7.1 Test Procedure

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



7.2 Radio Configuration

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

GPRS/EGPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900
Press Connection control to choose the different menus
Press RESET > choose all the reset all settings
Connection Press Signal Off to turn off the signal and change settings
Network Support > GSM + GPRS or GSM + EGSM
Main Service > Packet Data
Service selection > Test Mode A – Auto Slot Config. off
MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting
 > Slot configuration > Uplink/Gamma
 > 33 dBm for GPRS 850
 > 30 dBm for GPRS 1900
 > 27 dBm for EGPRS 850
 > 26 dBm for EGPRS 1900
BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel
Frequency Offset > + 0 Hz
Mode > BCCH and TCH
BCCH Level > -85 dBm (May need to adjust if link is not stable)
BCCH Channel > choose desired test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off
P0 > 4 dB
Slot Config > Unchanged (if already set under MS signal)
TCH > choose desired test channel
Hopping > Off

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

WCDMA Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP

TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

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

HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP

TS34.121-1 specification.

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

HSUPA

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

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

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

FDD-LTE

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

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

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

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

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

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

TDD-LTE

LTE TDD Band 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

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

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations.

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

Calculated Duty Cycle

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

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

7.3 Maximum Target Output Power

Mode/Band	Max Target Power(dBm)			
	Channel			
	Low	Middle	High	Additional
GPRS 850 1 TX Slot	27	27	27	/
GPRS 850 2 TX Slot	26	26	26	/
GPRS 850 3 TX Slot	24	24	24	/
GPRS 850 4 TX Slot	23	23	23	/
EDGE 850 1 TX Slot	22	22	22	/
EDGE 850 2 TX Slot	21	21	21	/
EDGE 850 3 TX Slot	19	19	19	/
EDGE 850 4 TX Slot	18	18	18	/
GPRS 1900 1 TX Slot	24.5	24.5	24.5	/
GPRS 1900 2 TX Slot	23	23	23	/
GPRS 1900 3 TX Slot	21	21	21	/
GPRS 1900 4 TX Slot	20	20	20	/
EDGE 1900 1 TX Slot	21	21	21	/
EDGE 1900 2 TX Slot	19.5	19.5	19.5	/
EDGE 1900 3 TX Slot	18	18	18	/
EDGE 1900 4 TX Slot	16.5	16.5	16.5	/
WCDMA Band 2	18	18	18	/
HSDPA	16	16	16	/
HSUPA	16.5	16.5	16.5	/
WCDMA Band 4	18.5	18.5	18.5	/
HSDPA	17	17	17	/
HSUPA	17	17	17	/
WCDMA Band 5	22	22	22	/
HSDPA	21	21	21	/
HSUPA	21	21	21	/
LTE Band 2 1RB	18	18	18	/
LTE Band 2 50%RB	17	17	17	/
LTE Band 2 100%RB	17	17	17	/
LTE Band 4 1RB	18.5	18.5	18.5	/
LTE Band 4 50%RB	17	17	17	/
LTE Band 4 100%RB	17	17	17	/
LTE Band 5 1RB	20.5	20.5	20.5	/
LTE Band 5 50%RB	19.5	19.5	19.5	/
LTE Band 5 100%RB	19.5	19.5	19.5	/
LTE Band 7 1RB	19	19	19	/
LTE Band 7 50%RB	18.5	18.5	18.5	/
LTE Band 7 100%RB	18.5	18.5	18.5	/
LTE Band 12 1RB	23	23	23	/
LTE Band 12 50%RB	22	22	22	/
LTE Band 12 100%RB	22	22	22	/
LTE Band 13 1RB	23	23	23	/
LTE Band 13 50%RB	22	22	22	/
LTE Band 13 100%RB	22	22	22	/

Max Target Power(dBm)				
Mode/Band	Channel			
	Low	Middle	High	Additional
LTE Band 14 1RB	23	23	23	/
LTE Band 14 50%RB	22	22	22	/
LTE Band 14 100%RB	22	22	22	/
LTE Band 25 1RB	20	20	20	/
LTE Band 25 50%RB	18.5	18.5	18.5	/
LTE Band 25 100%RB	18.5	18.5	18.5	/
LTE Band 26 1RB	23	23	23	/
LTE Band 26 50%RB	22	22	22	/
LTE Band 26 100%RB	22	22	22	/
LTE Band 41 1RB	22	22	22	/
LTE Band 41 50%RB	21	21	21	/
LTE Band 41 100%RB	21	21	21	/
LTE Band 66 1RB	17.5	17.5	17.5	/
LTE Band 66 50%RB	16	16	16	/
LTE Band 66 100%RB	16	16	16	/
LTE Band 71 1RB	23.5	23.5	23.5	/
LTE Band 71 50%RB	23	23	23	/
LTE Band 71 100%RB	23	23	23	/

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

7.4 Test Results:**GPRS:**

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	26.30	25.69	23.75	22.74
	190	836.6	26.48	25.51	23.79	22.76
	251	848.8	26.18	25.57	23.64	22.58
PCS 1900	512	1850.2	23.80	22.46	20.89	19.28
	661	1880	23.87	22.11	20.73	19.10
	810	1909.8	24.02	22.49	20.88	19.24

EDGE:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	21.54	20.24	18.37	17.15
	190	836.6	21.43	20.23	18.29	16.96
	251	848.8	21.33	20.00	18.12	16.92
PCS 1900	512	1850.2	20.60	18.97	17.40	15.67
	661	1880	20.38	18.91	17.48	15.81
	810	1909.8	20.73	19.21	17.57	16.03

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

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

The time based average power for GPRS

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	17.3	19.69	19.5	19.74
	190	836.6	17.48	19.51	19.54	19.76
	251	848.8	17.18	19.57	19.39	19.58
PCS 1900	512	1850.2	14.8	16.46	16.64	16.28
	661	1880	14.87	16.11	16.48	16.1
	810	1909.8	15.02	16.49	16.63	16.24

The time based average power for EDGE

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	12.54	14.24	14.12	14.15
	190	836.6	12.43	14.23	14.04	13.96
	251	848.8	12.33	14	13.87	13.92
PCS 1900	512	1850.2	11.6	12.97	13.15	12.67
	661	1880	11.38	12.91	13.23	12.81
	810	1909.8	11.73	13.21	13.32	13.03

Note:

1. Wireless Communication Test Set (8960) was used for the measurement of GSM peak and average output power for active timeslots.
2. For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).
3. For EGPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 6(850 MHz band) and 5(1900 MHz band).
4. 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 2:**

Test Mode	Conducted Average Output Power(dBm)		
	Lowest Channel	Middle Channel	Highest Channel
WCDMA	17.85	17.59	17.43
HSDPA Subset 1	15.72	15.74	15.43
HSDPA Subset 2	15.88	15.80	15.63
HSDPA Subset 3	15.93	15.77	15.54
HSDPA Subset 4	15.85	15.68	15.55
HSUPA Subset 1	16.34	16.07	16.26
HSUPA Subset 2	16.33	15.89	16.12
HSUPA Subset 3	16.34	15.92	16.14
HSUPA Subset 4	16.25	15.99	16.26
HSUPA Subset 5	16.21	15.97	16.15

WCDMA Band 4:

Test Mode	Conducted Average Output Power(dBm)		
	Lowest Channel	Middle Channel	Highest Channel
WCDMA	18.43	18.28	18.2
HSDPA Subset 1	16.24	16.29	16.3
HSDPA Subset 2	16.41	16.35	16.27
HSDPA Subset 3	16.31	16.25	16.2
HSDPA Subset 4	16.37	16.37	16.22
HSUPA Subset 1	16.87	16.57	16.59
HSUPA Subset 2	16.76	16.76	16.69
HSUPA Subset 3	16.74	16.63	16.67
HSUPA Subset 4	16.86	16.76	16.56
HSUPA Subset 5	16.85	16.74	16.56

WCDMA Band 5:

Test Mode	Conducted Average Output Power(dBm)		
	Lowest Channel	Middle Channel	Highest Channel
WCDMA	21.94	21.81	21.89
HSDPA Subset 1	20.18	20.30	20.22
HSDPA Subset 2	20.33	20.41	20.41
HSDPA Subset 3	20.32	20.18	20.32
HSDPA Subset 4	20.17	20.27	20.29
HSUPA Subset 1	20.68	20.67	20.62
HSUPA Subset 2	20.63	20.63	20.57
HSUPA Subset 3	20.64	20.71	20.54
HSUPA Subset 4	20.59	20.74	20.68
HSUPA Subset 5	20.71	20.69	20.59

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	17.6	17.12	17.09
		1@3	17.49	17.16	17.13
		1@5	17.67	17.14	17.11
		3@0	17.46	17.19	17.07
		3@1	17.55	17.2	17.09
		3@3	17.39	17.28	17.09
		6@0	16.34	16.28	16.02
	16-QAM	1@0	16.87	16.08	15.99
		1@3	16.9	16.14	15.94
		1@5	16.86	16.18	15.9
		3@0	16.87	16.52	16.21
		3@1	16.81	16.45	16.33
		3@3	16.79	16.47	16.39
		6@0	15.45	15.74	15.47
3M	QPSK	1@0	17.33	17.42	17.37
		1@8	17.18	17.41	17.25
		1@14	17.35	17.27	17.36
		8@0	16.46	16.38	16.01
		8@4	16.56	16.35	16.07
		8@7	16.42	16.2	16.04
		15@0	16.38	16.34	15.98
	16-QAM	1@0	16.33	16.42	16.57
		1@8	16.16	16.34	16.57
		1@14	16.34	16.2	16.52
		8@0	15.69	15.48	15.3
		8@4	15.53	15.61	15.43
		8@7	15.63	15.56	15.26
		15@0	15.6	15.62	15.23
5M	QPSK	1@0	17.68	17.58	17.36
		1@12	17.45	17.47	17.1
		1@24	17.71	17.57	17.22
		12@0	16.61	16.37	16.18
		12@7	16.46	16.27	16.05
		12@13	16.44	16.35	15.99
		25@0	16.61	16.21	16.29
	16-QAM	1@0	16.62	16.77	17.05
		1@12	16.49	16.5	16.77
		1@24	16.69	16.72	17.04
		12@0	15.74	15.53	15.37
		12@7	15.78	15.5	15.28
		12@13	15.67	15.43	15.2
		25@0	15.78	15.56	15.45

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	17.47	17.62	17.67
		1@25	17.22	17.37	17.18
		1@49	17.59	17.61	17.52
		25@0	16.54	16.32	16.16
		25@12	16.58	16.32	16.05
		25@25	16.56	16.36	16.04
		50@0	16.54	16.46	16.08
	16-QAM	1@0	16.62	16.65	16.85
		1@25	16.32	16.22	16.54
		1@49	16.52	16.6	16.9
		25@0	15.73	15.65	15.43
		25@12	15.81	15.58	15.4
		25@25	15.7	15.49	15.25
		50@0	15.69	15.54	15.19
15M	QPSK	1@0	17.55	17.47	17.48
		1@37	17.65	17.45	17.24
		1@74	17.64	17.22	17.38
		36@0	16.53	16.44	16.2
		36@20	16.48	16.33	16.12
		36@39	16.47	16.27	16.09
		75@0	16.49	16.26	16.05
	16-QAM	1@0	16.57	16.47	16.65
		1@37	16.52	16.2	16.34
		1@74	16.63	16.23	16.65
		36@0	15.63	15.52	15.41
		36@20	15.71	15.59	15.29
		36@39	15.75	15.39	15.31
		75@0	15.62	15.56	15.35
20M	QPSK	1@0	17.54	17.87	17.39
		1@49	17.48	17.3	17.09
		1@99	17.67	17.02	17.29
		50@0	16.58	16.47	16.16
		50@24	16.54	16.79	16.15
		50@50	16.55	16.14	16.11
		100@0	16.62	16.35	16.14
	16-QAM	1@0	17.02	17.34	16.84
		1@49	16.82	17.15	16.41
		1@99	17.08	17.12	16.64
		50@0	15.68	15.61	15.38
		50@24	15.66	15.66	15.29
		50@50	15.62	15.32	15.19
		100@0	15.61	15.59	15.4

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	17.35	17.69	17.35
		1@3	17.16	17.65	17.43
		1@5	17.2	17.71	17.32
		3@0	17.33	17.48	17.44
		3@1	17.53	17.43	17.48
		3@3	17.53	17.41	17.47
		6@0	16.49	16.48	16.63
	16-QAM	1@0	16.3	16.87	16.31
		1@3	16.28	16.88	16.41
		1@5	16.38	16.92	16.46
		3@0	16.6	16.72	16.62
		3@1	16.66	16.79	16.62
		3@3	16.65	16.76	16.64
		6@0	15.73	15.47	15.79
3M	QPSK	1@0	17.42	17.48	17.12
		1@8	17.42	17.52	17.32
		1@14	17.53	17.58	17.25
		8@0	16.26	16.26	16.4
		8@4	16.38	16.22	16.31
		8@7	16.45	16.35	16.44
		15@0	16.4	16.24	16.34
	16-QAM	1@0	16.44	16.85	16.2
		1@8	16.21	16.84	16.18
		1@14	16.2	16.85	16.33
		8@0	15.35	15.34	15.59
		8@4	15.34	15.38	15.46
		8@7	15.37	15.54	15.39
		15@0	15.42	15.34	15.42
5M	QPSK	1@0	17.39	17.74	17.72
		1@12	17.32	17.45	17.6
		1@24	17.42	17.6	17.85
		12@0	16.65	16.31	16.72
		12@7	16.32	16.08	16.54
		12@13	16.29	16.4	16.64
		25@0	16.5	16.55	16.73
	16-QAM	1@0	16.49	16.96	17.52
		1@12	16.27	16.81	17.3
		1@24	16.54	16.9	17.61
		12@0	15.67	15.86	15.88
		12@7	15.55	15.58	15.89
		12@13	15.51	15.71	15.86
		25@0	15.42	15.67	15.98

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	17.54	17.8	17.97
		1@25	17.52	17.68	17.91
		1@49	17.41	17.79	18.21
		25@0	16.81	16.62	16.68
		25@12	16.59	16.59	16.64
		25@25	16.64	16.73	16.63
		50@0	16.76	16.75	16.7
	16-QAM	1@0	16.64	16.73	17.19
		1@25	16.46	16.67	16.96
		1@49	16.75	16.95	17.41
		25@0	15.84	15.86	15.92
		25@12	15.8	15.79	15.88
		25@25	15.71	15.81	15.92
		50@0	15.81	15.76	15.87
15M	QPSK	1@0	17.72	17.64	17.8
		1@37	17.61	17.73	17.79
		1@74	17.59	17.66	17.86
		36@0	16.64	16.47	16.61
		36@20	16.46	16.52	16.52
		36@39	16.49	16.71	16.48
		75@0	16.65	16.75	16.7
	16-QAM	1@0	16.53	16.67	16.92
		1@37	16.62	16.62	16.98
		1@74	16.59	16.47	17.04
		36@0	15.69	15.71	15.72
		36@20	15.7	15.57	15.73
		36@39	15.46	15.59	15.69
		75@0	15.57	15.74	15.87
20M	QPSK	1@0	17.41	17.48	17.63
		1@49	17.77	17.79	18.06
		1@99	17.41	17.57	17.76
		50@0	16.83	16.6	16.61
		50@24	16.57	16.67	16.69
		50@50	16.64	16.8	16.66
		100@0	16.65	16.74	16.52
	16-QAM	1@0	16.82	16.9	17.19
		1@49	16.84	16.85	17.35
		1@99	16.88	16.81	17.46
		50@0	15.93	15.65	15.77
		50@24	15.72	15.73	15.94
		50@50	15.57	15.8	15.67
		100@0	15.65	15.79	15.78

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	19.89	19.86	20.09
		1@3	19.99	19.78	20.13
		1@5	19.9	19.85	20.18
		3@0	20.03	20	19.9
		3@1	19.98	20	19.94
		3@3	19.99	19.88	19.92
		6@0	18.91	18.98	18.99
	16-QAM	1@0	18.91	18.74	19.32
		1@3	18.86	18.82	19.42
		1@5	18.88	18.72	19.43
		3@0	19.08	19.04	19.23
		3@1	19.2	19.16	19.33
		3@3	19.26	19	19.26
		6@0	18.07	18.13	17.93
3M	QPSK	1@0	19.89	20.06	20.06
		1@8	19.89	20.17	20.09
		1@14	19.85	20.14	20.24
		8@0	19.02	18.97	18.94
		8@4	18.89	19.15	19.05
		8@7	18.99	19.01	18.95
		15@0	18.99	19.15	19.1
	16-QAM	1@0	18.88	19.01	19.45
		1@8	18.84	18.87	19.49
		1@14	18.78	18.85	19.39
		8@0	17.91	18.02	18.15
		8@4	18.01	18.14	18.13
		8@7	18.06	18.08	18.01
		15@0	17.91	18.21	18.12
5M	QPSK	1@0	19.93	20.23	19.9
		1@12	19.88	20.21	20.07
		1@24	20.07	20.16	20.12
		12@0	19.17	19.21	19.15
		12@7	19.12	19.02	19.07
		12@13	19	18.94	18.97
		25@0	19.17	18.99	19.13
	16-QAM	1@0	19.11	19.39	19.65
		1@12	19	19.27	19.67
		1@24	18.96	19.18	19.74
		12@0	18.19	18	18.06
		12@7	18.17	18.18	18.09
		12@13	18.04	18.13	18.15
		25@0	18.03	18.03	18.07

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	20.18	20.29	20.25
		1@25	19.98	20.22	20.1
		1@49	19.96	20.2	20.13
		25@0	19.1	19.22	19.15
		25@12	19.05	19.05	19.09
		25@25	19.02	19.19	18.91
		50@0	19.2	19.2	18.99
	16-QAM	1@0	18.85	19.13	19.44
		1@25	18.75	19.05	19.42
		1@49	18.82	19.01	19.44
		25@0	18.13	18.18	18.04
		25@12	18.24	18.1	18.08
		25@25	18.12	18.12	18.02
		50@0	18.18	18.04	17.95

LTE Band 7:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1@0	18.51	18.39	18.25
		1@12	18.39	18.34	18.03
		1@24	18.53	18.31	18.1
		12@0	17.29	17.17	17.08
		12@7	17.22	17.1	17
		12@13	17.33	17.09	17.11
		25@0	17.53	17.17	17.05
	16-QAM	1@0	17.74	17.89	17.18
		1@12	17.37	17.98	17.04
		1@24	17.49	18.03	17.09
		12@0	16.29	16.22	16.17
		12@7	16.3	16.2	16.21
		12@13	16.38	16.35	16.11
		25@0	16.49	16.36	16.18
10M	QPSK	1@0	18.77	18.88	18.95
		1@25	18.57	18.98	18.96
		1@49	18.79	18.91	18.91
		25@0	17.84	17.89	17.8
		25@12	17.76	17.68	17.7
		25@25	17.85	17.85	17.8
		50@0	17.82	17.78	17.71
	16-QAM	1@0	17.71	18.05	18.31
		1@25	17.6	17.86	18.19
		1@49	17.66	18.01	18.29
		25@0	16.92	17.19	16.96
		25@12	16.99	17.21	16.93
		25@25	16.99	16.9	16.79
		50@0	16.81	16.88	16.75
15M	QPSK	1@0	18.99	18.95	18.92
		1@37	18.75	18.93	18.89
		1@74	18.97	18.97	18.96
		36@0	17.92	18	17.93
		36@20	18.04	17.98	17.81
		36@39	17.99	17.86	17.74
		75@0	18.04	17.92	17.86
	16-QAM	1@0	18.03	17.88	18.31
		1@37	17.83	17.77	18.08
		1@74	17.98	17.88	18.31
		36@0	16.82	17.02	16.86
		36@20	16.92	16.96	16.85
		36@39	16.99	17.01	16.91
		75@0	16.98	16.84	16.74

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	1@0	18.89	18.92	18.78
		1@49	18.75	18.83	18.64
		1@99	18.76	18.74	18.8
		50@0	17.72	18	17.81
		50@24	17.9	17.99	17.89
		50@50	17.86	17.95	17.84
		100@0	17.9	18.04	17.78
	16-QAM	1@0	18.27	18.52	18.15
		1@49	18.19	18.6	18.12
		1@99	18.18	18.72	18.21
		50@0	16.73	17.07	16.81
		50@24	16.77	16.99	16.9
		50@50	16.79	16.96	16.72
		100@0	16.78	16.96	16.68

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	22.56	22.28	22.51
		1@3	22.56	22.07	22.44
		1@5	22.48	22.24	22.6
		3@0	22.32	22.33	22.47
		3@1	22.4	22.34	22.36
		3@3	22.31	22.41	22.39
		6@0	21.28	21.39	21.39
	16-QAM	1@0	21.75	21.2	21.7
		1@3	21.79	21.14	21.8
		1@5	21.63	21.24	21.8
		3@0	21.61	21.48	21.67
		3@1	21.69	21.6	21.69
		3@3	21.66	21.53	21.6
		6@0	20.17	20.51	20.21
3M	QPSK	1@0	22.11	22.46	22.43
		1@8	22.25	22.44	22.52
		1@14	22.31	22.45	22.5
		8@0	21.37	21.46	21.45
		8@4	21.3	21.5	21.32
		8@7	21.37	21.37	21.32
		15@0	21.37	21.4	21.31
	16-QAM	1@0	21.24	21.32	21.72
		1@8	21.14	21.27	21.82
		1@14	21.22	21.33	21.84
		8@0	20.34	20.36	20.4
		8@4	20.4	20.44	20.54
		8@7	20.25	20.49	20.5
		15@0	20.33	20.38	20.39
5M	QPSK	1@0	22.31	22.57	22.43
		1@12	22.3	22.51	22.42
		1@24	22.45	22.68	22.37
		12@0	21.52	21.42	21.58
		12@7	21.4	21.37	21.37
		12@13	21.32	21.37	21.34
		25@0	21.5	21.36	21.48
	16-QAM	1@0	21.37	21.58	22.13
		1@12	21.41	21.54	22.06
		1@24	21.47	21.71	22.12
		12@0	20.56	20.4	20.5
		12@7	20.44	20.37	20.39
		12@13	20.47	20.5	20.44
		25@0	20.39	20.32	20.49

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	22.21	22.45	22.52
		1@25	22.28	22.62	22.69
		1@49	22.32	22.53	22.63
		25@0	21.44	21.42	21.3
		25@12	21.45	21.52	21.43
		25@25	21.51	21.42	21.33
		50@0	21.46	21.4	21.32
	16-QAM	1@0	21.27	21.41	21.75
		1@25	21.08	21.26	21.76
		1@49	21.11	21.41	21.83
		25@0	20.6	20.6	20.48
		25@12	20.42	20.45	20.45
		25@25	20.55	20.53	20.47
		50@0	20.39	20.38	20.26

LTE Band 13:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1@0	22.53	/	22.33
		1@12	22.42	/	22.45
		1@24	22.55	/	22.45
		12@0	21.48	/	21.39
		12@7	21.38	/	21.44
		12@13	21.61	/	21.4
		25@0	21.36	/	21.47
	16-QAM	1@0	22.38	/	21.41
		1@12	22.14	/	21.49
		1@24	22.2	/	21.46
		12@0	20.41	/	20.64
		12@7	20.5	/	20.45
		12@13	20.64	/	20.48
		25@0	20.49	/	20.43
10M	QPSK	1@0	/	22.26	/
		1@25	/	22.3	/
		1@49	/	22.29	/
		25@0	/	21.4	/
		25@12	/	21.52	/
		25@25	/	21.45	/
		50@0	/	21.48	/
	16-QAM	1@0	/	21.33	/
		1@25	/	21.18	/
		1@49	/	21.19	/
		25@0	/	20.41	/
		25@12	/	20.63	/
		25@25	/	20.7	/
		50@0	/	20.52	/

LTE Band 14:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1@0	22.47	22.48	22.63
		1@12	22.48	22.49	22.61
		1@24	22.44	22.6	22.59
		12@0	21.5	21.6	21.65
		12@7	21.45	21.42	21.52
		12@13	21.49	21.42	21.49
		25@0	21.54	21.55	21.53
	16-QAM	1@0	22.16	21.62	21.8
		1@12	22.29	21.48	21.62
		1@24	22.24	21.46	21.76
		12@0	20.51	20.67	20.62
		12@7	20.54	20.54	20.49
		12@13	20.62	20.52	20.45
		25@0	20.7	20.6	20.43
10M	QPSK	1@0	/	22.63	/
		1@25	/	22.57	/
		1@49	/	22.64	/
		25@0	/	21.62	/
		25@12	/	21.44	/
		25@25	/	21.45	/
		50@0	/	21.56	/
	16-QAM	1@0	/	21.61	/
		1@25	/	21.42	/
		1@49	/	21.55	/
		25@0	/	20.75	/
		25@12	/	20.56	/
		25@25	/	20.59	/
		50@0	/	20.64	/

LTE Band 25:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1@0	19.16	19.37	18.9
		1@3	19.39	19.31	18.99
		1@5	19.24	19.39	19.04
		3@0	19.36	19.2	19.13
		3@1	19.44	19.25	19.07
		3@3	19.42	19.33	19.03
		6@0	18.38	18.2	18.26
	16-QAM	1@0	18.16	18.67	17.96
		1@3	18.13	18.67	18
		1@5	18.24	18.7	18.03
		3@0	18.49	18.45	18.22
		3@1	18.47	18.56	18.2
		3@3	18.57	18.53	18.33
		6@0	17.65	17.24	17.47
3M	QPSK	1@0	19.13	19.35	19.45
		1@8	19.22	19.32	19.27
		1@14	19.4	19.3	19.48
		8@0	18.46	18.23	18.12
		8@4	18.34	18.35	18.08
		8@7	18.43	18.14	18.15
		15@0	18.36	18.24	18.11
	16-QAM	1@0	18.19	18.3	18.66
		1@8	18.11	18.11	18.56
		1@14	18.29	18.26	18.63
		8@0	17.59	17.43	16.99
		8@4	17.52	17.53	17.15
		8@7	17.65	17.39	17.19
		15@0	17.45	17.55	17.28
5M	QPSK	1@0	19.24	19.39	19.24
		1@12	19.13	19.1	19.01
		1@24	19.45	19.39	19.1
		12@0	18.27	18.13	18.11
		12@7	18.16	18.09	18.01
		12@13	18.3	18.1	17.92
		25@0	18.33	17.96	18.08
	16-QAM	1@0	18.35	18.31	18.77
		1@12	18.17	18.21	18.62
		1@24	18.32	18.41	18.95
		12@0	17.58	17.33	17.23
		12@7	17.49	17.34	17.23
		12@13	17.36	17.26	17.09
		25@0	17.46	17.33	17.34

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	19.23	19.33	19.28
		1@25	18.97	19.15	19.19
		1@49	19.21	19.29	19.44
		25@0	18.31	18.09	18.05
		25@12	18.19	18.07	17.87
		25@25	18.23	18.01	17.84
		50@0	18.24	18.16	17.99
	16-QAM	1@0	18.32	18.34	18.65
		1@25	17.96	17.97	18.36
		1@49	18.34	18.15	18.63
		25@0	17.58	17.34	17.23
		25@12	17.49	17.24	17.14
		25@25	17.47	17.34	17.01
		50@0	17.54	17.25	17.2
15M	QPSK	1@0	19.3	19.33	19.25
		1@37	19.27	19.08	19.03
		1@74	19.39	18.98	19.19
		36@0	18.31	18.11	18.01
		36@20	18.29	18	17.87
		36@39	18.28	18.04	17.86
		75@0	18.24	18.06	17.9
	16-QAM	1@0	18.39	18.23	18.4
		1@37	18.28	18.06	18.3
		1@74	18.5	17.98	18.5
		36@0	17.41	17.27	17.27
		36@20	17.5	17.26	17.12
		36@39	17.4	17.2	17
		75@0	17.45	17.3	17.01
20M	QPSK	1@0	19.79	19.58	19.11
		1@49	19.15	19	18.89
		1@99	19.39	19.18	19.12
		50@0	18.28	18.15	17.92
		50@24	18.37	18.09	17.97
		50@50	18.3	18.07	17.67
		100@0	18.42	18.13	17.9
	16-QAM	1@0	18.76	19.12	18.58
		1@49	18.4	18.78	18.27
		1@99	18.63	18.74	18.45
		50@0	17.36	17.45	17.16
		50@24	17.46	17.37	17.14
		50@50	17.41	17.18	17.04
		100@0	17.41	17.17	17.05

LTE Band 26:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1@0	22.79	22.66	22.59
		1@3	22.8	22.66	22.57
		1@5	22.99	22.57	22.57
		3@0	22.75	22.73	22.71
		3@1	22.66	22.78	22.65
		3@3	22.69	22.73	22.77
		6@0	21.79	21.72	21.69
	16-QAM	1@0	22.04	21.6	21.63
		1@3	22.08	21.47	21.46
		1@5	22.03	21.46	21.53
		3@0	22	21.93	21.87
		3@1	21.92	21.85	21.88
		3@3	22.06	21.86	21.88
		6@0	20.71	21.02	20.79
3M	QPSK	1@0	22.45	22.89	22.71
		1@8	22.67	22.89	22.81
		1@14	22.62	22.87	22.94
		8@0	21.79	21.82	21.66
		8@4	21.85	21.85	21.67
		8@7	21.81	21.76	21.74
		15@0	21.77	21.71	21.7
	16-QAM	1@0	21.53	21.74	22.11
		1@8	21.45	21.66	22.09
		1@14	21.5	21.6	22.11
		8@0	20.85	20.85	20.72
		8@4	20.71	20.92	20.74
		8@7	20.83	20.77	20.84
		15@0	20.76	20.82	20.64
5M	QPSK	1@0	22.63	22.95	22.61
		1@12	22.66	22.94	22.71
		1@24	22.68	22.92	22.61
		12@0	21.79	21.74	21.79
		12@7	21.88	21.82	21.81
		12@13	21.66	21.8	21.68
		25@0	21.88	21.86	21.81
	16-QAM	1@0	21.67	22.06	22.28
		1@12	21.64	21.98	22.47
		1@24	21.65	21.91	22.31
		12@0	20.95	20.88	20.8
		12@7	20.88	20.89	20.89
		12@13	20.82	20.87	20.86
		25@0	20.81	20.77	20.79

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	22.53	22.83	22.83
		1@25	22.7	22.94	22.79
		1@49	22.55	22.87	22.9
		25@0	21.89	21.77	21.8
		25@12	21.86	21.76	21.62
		25@25	21.77	21.74	21.62
		50@0	21.81	21.73	21.74
	16-QAM	1@0	21.57	21.73	22.04
		1@25	21.53	21.68	22.11
		1@49	21.49	21.79	22.11
		25@0	20.87	20.95	20.91
		25@12	20.92	20.9	20.7
		25@25	20.84	20.91	20.66
		50@0	20.82	20.77	20.74
15M	QPSK	1@0	22.74	22.79	22.92
		1@37	22.92	22.85	22.89
		1@74	22.9	22.64	22.75
		36@0	21.78	21.81	21.88
		36@20	21.65	21.7	21.67
		36@39	21.77	21.77	21.71
		75@0	21.74	21.75	21.77
	16-QAM	1@0	21.78	21.67	22.17
		1@37	21.73	21.69	22.01
		1@74	21.67	21.48	21.96
		36@0	20.72	20.86	20.77
		36@20	20.79	20.69	20.68
		36@39	20.74	20.8	20.69
		75@0	20.65	20.67	20.8

LTE Band 41:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	2550MHz (dBm)	Middle Channel (dBm)	2636MHz (dBm)	High Channel (dBm)
5M	QPSK	1@0	21.3	21.42	21.68	21.56	21.53
		1@12	21.23	21.3	21.49	21.38	21.33
		1@24	21.31	21.28	21.55	21.6	21.51
		12@0	20.11	20.22	20.36	20.3	20.27
		12@7	20.04	20.01	20.36	20.27	20.13
		12@13	20.07	20.09	20.22	20.3	20.26
		25@0	20.03	20.07	20.25	20.44	20.35
	16-QAM	1@0	20.4	20.4	20.67	20.41	20.37
		1@12	20.31	20.42	20.64	20.29	20.18
		1@24	20.33	20.35	20.58	20.48	20.36
		12@0	19.08	19.17	19.38	19.18	19.17
		12@7	18.72	18.69	19.44	19.29	19.2
		12@13	19.14	19.17	19.27	19.16	19.17
		25@0	19.07	19.15	19.36	19.3	19.17
10M	QPSK	1@0	20.11	20.09	21.45	21.55	21.42
		1@25	21	20.99	21.36	21.26	21.25
		1@49	20.97	21.02	21.44	21.5	21.54
		25@0	19.99	20.07	20.34	20.35	20.28
		25@12	19.94	19.91	20.25	20.37	20.24
		25@25	20.17	20.24	20.25	20.31	20.24
		50@0	20.05	20.18	20.36	20.32	20.3
	16-QAM	1@0	19.95	19.9	20.42	20.62	20.5
		1@25	19.89	20.04	20.32	20.25	20.23
		1@49	19.76	19.87	20.37	20.29	20.3
		25@0	18.9	18.86	19.36	19.44	19.29
		25@12	19.03	19.02	19.22	19.33	19.24
		25@25	19.03	19.05	19.24	19.44	19.35
		50@0	19.08	19.17	19.31	19.28	19.27
15M	QPSK	1@0	21.18	21.16	21.2	21.34	21.25
		1@37	20.99	21.01	21.3	21.41	21.28
		1@74	21.16	21.15	21.17	21.16	21.13
		36@0	19.98	19.95	20.29	20.11	20.16
		36@20	20.03	20.11	20.35	20.18	20.14
		36@39	19.99	19.97	20.34	20.13	20.12
		75@0	20.08	20.05	20.34	20.22	20.12
	16-QAM	1@0	20.32	20.39	20.07	20.4	20.43
		1@37	20.22	20.29	20.27	20.41	20.28
		1@74	20.24	20.23	20.2	20.17	20.22
		36@0	19.17	19.21	19.31	19.09	19.12
		36@20	19.16	19.13	19.35	19.11	19.15
		36@39	19.05	19.16	19.32	19.2	19.11
		75@0	19.1	19.1	19.36	19.34	19.23

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	2550MHz (dBm)	Middle Channel (dBm)	2636MHz (dBm)	High Channel (dBm)
20M	QPSK	1@0	21.14	21.17	21.54	21.34	21.33
		1@49	21.19	21.21	21.57	21.29	21.23
		1@99	21.09	21.18	21.52	21.33	21.3
		50@0	20.18	20.26	20.5	20.35	20.38
		50@24	20.07	20.2	20.38	20.26	20.18
		50@50	20.15	20.2	20.39	20.39	20.25
		100@0	20.14	20.1	20.33	20.29	20.18
	16-QAM	1@0	20.06	20.18	20.4	20.35	20.36
		1@49	19.9	19.99	20.2	20.17	20.22
		1@99	19.93	19.9	20.44	20.42	20.44
		50@0	19.07	19.04	19.42	19.32	19.34
		50@24	18.98	19.07	19.37	19.37	19.25
		50@50	19.01	19.04	19.3	19.2	19.11
		100@0	19.14	19.22	19.41	19.36	19.27

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	16.24	15.92	16.07
		1@3	16.28	15.88	15.94
		1@5	16.24	15.98	16.1
		3@0	16.21	16.09	16.13
		3@1	16.25	16.04	16.08
		3@3	16.14	15.96	16.14
		6@0	16.01	16.19	16.02
	16-QAM	1@0	16.6	15.83	16.02
		1@3	16.57	15.98	16.02
		1@5	16.6	15.86	15.95
		3@0	16.52	16.25	16.23
		3@1	16.49	16.21	16.29
		3@3	16.4	16.28	16.22
		6@0	15.94	16.39	16.19
3M	QPSK	1@0	16.15	16.19	15.9
		1@8	16.19	16.29	15.94
		1@14	16.12	16.4	15.9
		8@0	16.17	16.19	15.98
		8@4	16.17	16.15	15.98
		8@7	16.08	16.14	16.06
		15@0	16.02	16.09	15.94
	16-QAM	1@0	16.15	16.49	15.96
		1@8	16.04	16.53	15.82
		1@14	16	16.5	15.85
		8@0	16.22	16.3	16.05
		8@4	16.2	16.25	16.01
		8@7	16.14	16.24	16.09
		15@0	16.13	16.11	16.09
5M	QPSK	1@0	16.27	16.27	16.39
		1@12	16.11	15.98	15.76
		1@24	16.28	16.1	16.13
		12@0	16.17	16.22	15.74
		12@7	16.08	16.07	15.68
		12@13	16.16	16.18	15.61
		25@0	16.29	16.25	15.62
	16-QAM	1@0	17.03	16.28	16.01
		1@12	16.93	16.02	15.73
		1@24	17.05	16.02	16.16
		12@0	16.33	16.37	15.78
		12@7	16.23	16.18	15.7
		12@13	16.18	16.13	15.72
		25@0	16.35	16.08	15.75

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1@0	15.94	16.06	15.68
		1@25	15.78	15.83	15.51
		1@49	16.03	16.07	15.67
		25@0	15.82	15.73	15.75
		25@12	15.75	15.67	15.59
		25@25	15.62	15.78	15.59
		50@0	15.82	15.74	15.69
	16-QAM	1@0	16.01	16.35	15.54
		1@25	15.59	16.02	15.36
		1@49	15.95	16.49	15.59
		25@0	15.92	15.87	15.84
		25@12	15.92	15.79	15.76
		25@25	15.82	15.9	15.73
		50@0	15.79	15.75	15.79
15M	QPSK	1@0	15.83	15.77	15.8
		1@37	15.67	15.69	15.78
		1@74	15.77	15.71	15.83
		36@0	15.73	15.73	15.62
		36@20	15.56	15.63	15.54
		36@39	15.62	15.62	15.49
		75@0	15.63	15.67	15.53
	16-QAM	1@0	15.75	15.75	16.14
		1@37	15.63	15.67	15.87
		1@74	15.79	15.66	16.06
		36@0	15.82	15.75	15.75
		36@20	15.77	15.63	15.59
		36@39	15.64	15.65	15.55
		75@0	15.66	15.6	15.62
20M	QPSK	1@0	16.49	16.6	16.75
		1@49	16.59	16.54	16.46
		1@99	16.56	16.48	16.44
		50@0	15.93	15.64	15.57
		50@24	15.66	15.67	15.69
		50@50	15.52	15.52	15.58
		100@0	15.7	15.51	15.62
	16-QAM	1@0	16.59	16.02	16.1
		1@49	16.35	15.87	15.92
		1@99	16.59	16.05	16.06
		50@0	15.93	15.59	15.6
		50@24	15.69	15.75	15.69
		50@50	15.72	15.66	15.58
		100@0	15.7	15.5	15.57

LTE Band 71:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1@0	22.5	22.89	22.82
		1@12	22.58	22.82	22.84
		1@24	22.58	22.93	22.99
		12@0	22.49	22.79	22.83
		12@7	22.6	22.83	22.77
		12@13	22.53	22.71	22.65
		25@0	22.5	22.78	22.72
	16-QAM	1@0	23.03	23.2	23.12
		1@12	23	23.17	23.03
		1@24	23.02	23.09	23.21
		12@0	22.75	22.69	22.83
		12@7	22.64	22.71	22.71
		12@13	22.78	22.84	22.77
		25@0	22.69	22.74	22.7
10M	QPSK	1@0	22.53	22.75	22.83
		1@25	22.53	22.73	22.68
		1@49	22.63	22.87	22.72
		25@0	22.58	22.78	22.91
		25@12	22.7	22.67	22.72
		25@25	22.71	22.79	22.63
		50@0	22.6	22.86	22.77
	16-QAM	1@0	22.87	22.95	22.95
		1@25	22.91	22.9	23.02
		1@49	22.78	23.01	22.84
		25@0	22.67	22.74	22.93
		25@12	22.75	22.77	22.78
		25@25	22.59	22.86	22.86
		50@0	22.69	22.86	22.91
15M	QPSK	1@0	22.47	22.5	22.81
		1@37	22.7	22.73	22.77
		1@74	22.66	22.78	22.59
		36@0	22.48	22.73	22.71
		36@20	22.62	22.79	22.82
		36@39	22.61	22.77	22.65
		75@0	22.51	22.67	22.83
	16-QAM	1@0	23.1	23.1	22.85
		1@37	23.11	23.27	22.98
		1@74	23.2	23.1	22.85
		36@0	22.7	22.82	22.64
		36@20	22.71	22.82	22.75
		36@39	22.8	22.84	22.72
		75@0	22.57	22.87	22.74

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	1@0	22.8	22.69	22.86
		1@49	22.89	23.09	22.89
		1@99	22.93	23.05	22.73
		50@0	22.64	22.68	22.8
		50@24	22.73	22.76	22.79
		50@50	22.89	22.86	22.8
		100@0	22.77	22.7	22.8
	16-QAM	1@0	22.69	22.73	23.07
		1@49	22.84	22.93	23.26
		1@99	23.06	23	23.17
		50@0	22.6	22.69	22.75
		50@24	22.61	22.8	22.81
		50@50	22.74	22.93	22.72
		100@0	22.65	22.83	22.73

8. STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

8.1 Antennas Location:



Antenna	Supported Band
ANT0	GSM 850, WCDMA Band 5, LTE Band 5/12/13/14/26/71 NR SA n5/12/71
ANT1	PCS 1900, WCDMA Band 2/4, LTE Band 2/4/7/25/41/66 NR SA n2/7/25/41/66
ANT2	LTE Band 42 NR SA n77 3/78 1
ANT3	WWAN DIV(RX only)
ANT4	WWAN DIV(RX only)
ANT5	WWAN DIV(RX only)
ANT6	2.4G WLAN(Chain 0), 5G WLAN(Chain 0)
ANT7	2.4G WLAN(Chain 1), 5G WLAN(Chain 1)

8.2 Antenna Distance To Edge

Antenna Distance To Edge(mm)						
Antenna	Back	Front	Left	Right	Top	Bottom
ANT0	5	< 5	13	< 5	125	< 5
ANT1	5	< 5	34	< 5	< 5	121
ANT2	5	< 5	72	< 5	101	27
ANT6	5	< 5	< 5	58	< 5	114
ANT7	5	< 5	< 5	72	68	45

8.3 SAR test exclusion for the EUT edge considerations Result

Antenna	Back	Front	Left	Right	Top	Bottom
ANT0	Required	Required	Required	Required	Exclusion	Required
ANT1	Required	Required	Exclusion	Required	Required	Exclusion
ANT2	Required	Required	Exclusion	Required	Exclusion	Exclusion
ANT6	Required	Required	Required	Exclusion	Required	Exclusion
ANT7	Required	Required	Required	Exclusion	Exclusion	Exclusion

Note:

Required: The distance is less than 25mm, the SAR test is required.

Exclusion: The distance is large than 25mm, SAR test is not required.

9. SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

9.1 SAR Test Data

Environmental Conditions

Environmental Temperature:	21.4-22.2 °C	21.1-21.8°C	20.8-21.6°C	20.8-21.5°C	21.9-22.8 °C
Relative Humidity:	34%	44%	41%	45%	40%
ATM Pressure:	100.2 kPa	100.1 kPa	100.2 kPa	100.2 kPa	99.9 kPa
Test Date:	2025/09/19	2025/09/20	2025/09/21	2025/09/22	2025/09/23

Testing was performed by Lily Yang, Mikasa Mo, Led Lu.

GSM 850(ANT0):

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	22.76	23	1.057	0.366	0.39	/
	848.8	GPRS	/	/	/	/	/	/
Body Back (10mm)	824.2	GPRS	22.74	23	1.062	0.492	0.52	/
	836.6	GPRS	22.76	23	1.057	0.526	0.56	/
	848.8	GPRS	22.58	23	1.102	0.554	0.61	1#
Body Left (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	22.76	23	1.057	0.272	0.29	/
	848.8	GPRS	/	/	/	/	/	/
Body Right (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	22.76	23	1.057	0.189	0.20	/
	848.8	GPRS	/	/	/	/	/	/
Body Bottom (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	22.76	23	1.057	0.142	0.15	/
	848.8	GPRS	/	/	/	/	/	/

Note: The test data above was performed on 2025/09/20.

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, 1DL+4UL is the worst case.
6. The max. time based average power of GPRS/EGPRS mode was selected to Body/Limb SAR testing.

PCS 1900(ANT1):

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	20.73	21	1.064	0.375	0.40	/
	1909.8	GPRS	/	/	/	/	/	/
Body Back (10mm)	1850.2	GPRS	20.89	21	1.026	0.562	0.58	2#
	1880	GPRS	20.73	21	1.064	0.529	0.56	/
	1909.8	GPRS	20.88	21	1.028	0.559	0.57	/
Body Right (10mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	20.73	21	1.064	0.275	0.29	/
	1909.8	GPRS	/	/	/	/	/	/
Body Top (10mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	20.73	21	1.064	0.226	0.24	/
	1909.8	GPRS	/	/	/	/	/	/

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, 2DL+3UL is the worst case.
6. The max. time based average power of GPRS/EGPRS mode was selected to Body/Limb SAR testing.

WCDMA Band 2(ANT1):

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	17.59	18	1.099	0.455	0.50	/
	1907.6	RMC	/	/	/	/	/	/
Body Back (10mm)	1852.4	RMC	17.85	18	1.035	0.668	0.69	3#
	1880	RMC	17.59	18	1.099	0.615	0.68	/
	1907.6	RMC	17.43	18	1.14	0.477	0.54	/
Body Right (10mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	17.59	18	1.099	0.212	0.23	/
	1907.6	RMC	/	/	/	/	/	/
Body Top (10mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	17.59	18	1.099	0.133	0.15	/
	1907.6	RMC	/	/	/	/	/	/

WCDMA Band 4(ANT1):

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	18.28	18.5	1.052	0.525	0.55	/
	1752.6	RMC	/	/	/	/	/	/
Body Back (10mm)	1712.4	RMC	18.43	18.5	1.016	0.618	0.63	/
	1732.6	RMC	18.28	18.5	1.052	0.693	0.73	4#
	1752.6	RMC	18.2	18.5	1.072	0.663	0.71	/
Body Right (10mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	18.28	18.5	1.052	0.205	0.22	/
	1752.6	RMC	/	/	/	/	/	/
Body Top (10mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	18.28	18.5	1.052	0.171	0.18	/
	1752.6	RMC	/	/	/	/	/	/

WCDMA Band 5(ANT0):

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	21.81	22	1.045	0.425	0.44	/
	846.6	RMC	/	/	/	/	/	/
Body Back (10mm)	826.4	RMC	21.94	22	1.014	0.597	0.61	/
	836.6	RMC	21.81	22	1.045	0.635	0.66	/
	846.6	RMC	21.89	22	1.026	0.697	0.72	5#
Body Left (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	21.81	22	1.045	0.293	0.31	/
	846.6	RMC	/	/	/	/	/	/
Body Right (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	21.81	22	1.045	0.269	0.28	/
	846.6	RMC	/	/	/	/	/	/
Body Bottom (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	21.81	22	1.045	0.188	0.20	/
	846.6	RMC	/	/	/	/	/	/

Note: The test data above was performed on 2025/09/20.

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same antenna while testing SAR.
3. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC(reference measurement Channel) Configured in All 1.
4. KDB 941225 D01-Body SAR is not required for 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.
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

LTE Band 2(ANT1):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	17.87	18	1.03	0.314	0.32	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	16.79	17	1.05	0.307	0.32	/
Body Back (10mm)	1860	20	1RB	17.67	18	1.079	0.364	0.39	/
	1880	20	1RB	17.87	18	1.03	0.375	0.39	6#
	1900	20	1RB	17.39	18	1.151	0.330	0.38	/
	1880	20	50%RB	16.79	17	1.05	0.369	0.39	/
Body Right (10mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	17.87	18	1.03	0.205	0.21	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	16.79	17	1.05	0.197	0.21	/
Body Top (10mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	17.87	18	1.03	0.168	0.17	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	16.79	17	1.05	0.163	0.17	/

LTE Band 4(ANT1):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	17.79	18.5	1.178	0.224	0.26	/
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	16.8	17	1.047	0.235	0.25	/
Body Back (10mm)	1720	20	1RB	17.77	18.5	1.183	0.328	0.39	/
	1732.5	20	1RB	17.79	18.5	1.178	0.325	0.38	/
	1745	20	1RB	18.06	18.5	1.107	0.361	0.40	7#
	1732.5	20	50%RB	16.8	17	1.047	0.319	0.33	/
Body Right (10mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	17.79	18.5	1.178	0.123	0.14	/
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	16.8	17	1.047	0.131	0.14	/
Body Top (10mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	17.79	18.5	1.178	0.096	0.11	/
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	16.8	17	1.047	0.101	0.11	/

LTE Band 5(ANT0):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	829	10	1RB	/	/	/	/	/	/
	836.5	10	1RB	20.29	20.5	1.05	0.182	0.19	/
	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	19.22	19.5	1.067	0.179	0.19	/
Body Back (10mm)	829	10	1RB	20.18	20.5	1.076	0.300	0.32	/
	836.5	10	1RB	20.29	20.5	1.05	0.303	0.32	8#
	844	10	1RB	20.25	20.5	1.059	0.288	0.30	/
	836.5	10	50%RB	19.22	19.5	1.067	0.292	0.31	/
Body Left (10mm)	829	10	1RB	/	/	/	/	/	/
	836.5	10	1RB	20.29	20.5	1.05	0.067	0.07	/
	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	19.22	19.5	1.067	0.072	0.08	/
Body Right (10mm)	829	10	1RB	/	/	/	/	/	/
	836.5	10	1RB	20.29	20.5	1.05	0.085	0.09	/
	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	19.22	19.5	1.067	0.086	0.09	/
Body Bottom (10mm)	829	10	1RB	/	/	/	/	/	/
	836.5	10	1RB	20.29	20.5	1.05	0.138	0.14	/
	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	19.22	19.5	1.067	0.143	0.15	/

Note: The test data above was performed on 2025/09/20.

LTE Band 7(ANT1):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	18.92	19	1.019	0.128	0.13	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	18.0	18.5	1.122	0.110	0.12	/
Body Back (10mm)	2510	20	1RB	18.89	19	1.026	0.378	0.39	/
	2535	20	1RB	18.92	19	1.019	0.390	0.40	9#
	2560	20	1RB	18.8	19	1.047	0.258	0.27	/
	2535	20	50%RB	18.0	18.5	1.122	0.316	0.35	/
Body Right (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	18.92	19	1.019	0.276	0.28	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	18.0	18.5	1.122	0.202	0.23	/
Body Top (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	18.92	19	1.019	0.248	0.25	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	18.0	18.5	1.122	0.163	0.18	/

LTE Band 12(ANT0):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	22.62	23	1.091	0.161	0.18	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	21.52	22	1.117	0.136	0.15	/
Body Back (10mm)	704	10	1RB	22.32	23	1.169	0.287	0.34	/
	707.5	10	1RB	22.62	23	1.091	0.276	0.30	/
	711	10	1RB	22.69	23	1.074	0.312	0.34	10#
	707.5	10	50%RB	21.52	22	1.117	0.227	0.25	/
Body Left (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	22.62	23	1.091	0.057	0.06	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	21.52	22	1.117	0.050	0.06	/
Body Right (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	22.62	23	1.091	0.081	0.09	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	21.52	22	1.117	0.065	0.07	/
Body Bottom (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	22.62	23	1.091	0.120	0.13	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	21.52	22	1.117	0.098	0.11	/

Note: The test data above was performed on 2025/09/20.

LTE Band 13(ANT0):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	782	10	1RB	22.3	23	1.175	0.254	0.30	/
	782	10	50%RB	21.52	22	1.117	0.194	0.22	/
Body Back (10mm)	782	10	1RB	22.3	23	1.175	0.384	0.45	11#
	782	10	50%RB	21.52	22	1.117	0.294	0.33	/
Body Left (10mm)	782	10	1RB	22.3	23	1.175	0.115	0.14	/
	782	10	50%RB	21.52	22	1.117	0.091	0.10	/
Body Right (10mm)	782	10	1RB	22.3	23	1.175	0.166	0.20	/
	782	10	50%RB	21.52	22	1.117	0.124	0.14	/
Body Bottom (10mm)	782	10	1RB	22.3	23	1.175	0.139	0.16	/
	782	10	50%RB	21.52	22	1.117	0.107	0.12	/

Note: The test data above was performed on 2025/09/22.

LTE Band 14(ANT0):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	793	10	1RB	22.64	23	1.086	0.270	0.29	/
	793	10	50%RB	21.62	22	1.091	0.211	0.23	/
Body Back (10mm)	793	10	1RB	22.64	23	1.086	0.404	0.44	12#
	793	10	50%RB	21.62	22	1.091	0.319	0.35	/
Body Left (10mm)	793	10	1RB	22.64	23	1.086	0.139	0.15	/
	793	10	50%RB	21.62	22	1.091	0.107	0.12	/
Body Right (10mm)	793	10	1RB	22.64	23	1.086	0.364	0.40	/
	793	10	50%RB	21.62	22	1.091	0.278	0.30	/
Body Bottom (10mm)	793	10	1RB	22.64	23	1.086	0.127	0.14	/
	793	10	50%RB	21.62	22	1.091	0.099	0.11	/

Note: The test data above was performed on 2025/09/21.

LTE Band 25(ANT1):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	19.58	20	1.102	0.586	0.65	/
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	18.15	18.5	1.084	0.603	0.65	/
Body Back (10mm)	1860	20	1RB	19.79	20	1.05	0.754	0.79	13#
	1882.5	20	1RB	19.58	20	1.102	0.709	0.78	/
	1905	20	1RB	19.12	20	1.225	0.629	0.77	/
	1882.5	20	50%RB	18.15	18.5	1.084	0.725	0.79	/
Body Right (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	19.58	20	1.102	0.427	0.47	/
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	18.15	18.5	1.084	0.443	0.48	/
Body Top (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	19.58	20	1.102	0.335	0.37	/
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	18.15	18.5	1.084	0.343	0.37	/

LTE Band 26(ANT0):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	22.85	23	1.035	0.527	0.55	/
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	21.81	22	1.045	0.413	0.43	/
Body Back (10mm)	821.5	15	1RB	22.92	23	1.019	0.750	0.76	/
	831.5	15	1RB	22.85	23	1.035	0.760	0.79	14#
	841.5	15	1RB	22.92	23	1.019	0.756	0.77	/
	831.5	15	50%RB	21.81	22	1.045	0.595	0.62	/
Body Left (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	22.85	23	1.035	0.421	0.44	/
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	21.81	22	1.045	0.328	0.34	/
Body Right (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	22.85	23	1.035	0.330	0.34	/
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	21.81	22	1.045	0.260	0.27	/
Body Bottom (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	22.85	23	1.035	0.167	0.17	/
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	21.81	22	1.045	0.128	0.13	/

Note: The test data above was performed on 2025/09/21.

LTE Band 41(ANT1):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	2506	20	1RB	/	/	/	/	/	/
	2550	20	1RB	/	/	/	/	/	/
	2593	20	1RB	21.57	22	1.104	0.133	0.15	/
	2636	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	20.5	21	1.122	0.106	0.12	/
Body Back (10mm)	2506	20	1RB	/	/	/	/	/	/
	2550	20	1RB	/	/	/	/	/	/
	2593	20	1RB	21.57	22	1.104	0.188	0.21	15#
	2636	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	20.5	21	1.122	0.177	0.20	/
Body Right (10mm)	2506	20	1RB	/	/	/	/	/	/
	2550	20	1RB	/	/	/	/	/	/
	2593	20	1RB	21.57	22	1.104	0.098	0.11	/
	2636	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	20.5	21	1.122	0.078	0.09	/
Body Top (10mm)	2506	20	1RB	/	/	/	/	/	/
	2550	20	1RB	/	/	/	/	/	/
	2593	20	1RB	21.57	22	1.104	0.160	0.18	/
	2636	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	20.5	21	1.122	0.126	0.14	/

Note:

1. The frequency range of LTE Band 41 is 2496~ 2690MHz. Per KDB 447498 D01, according to the following formula Calculate N_c is 5.

KDB procedures, the following should be applied to determine the number of required test channels. The test channels should be evenly spread across the transmission frequency band of each wireless mode.¹⁴

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

where

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

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

LTE Band 66(ANT1):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	16.6	17.5	1.23	0.244	0.30	/
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	15.67	16.0	1.079	0.242	0.26	/
Body Back (10mm)	1720	20	1RB	16.59	17.5	1.233	0.307	0.38	16#
	1745	20	1RB	16.6	17.5	1.23	0.296	0.36	/
	1770	20	1RB	16.75	17.5	1.189	0.290	0.34	/
	1745	20	50%RB	15.67	16.0	1.079	0.296	0.32	/
Body Right (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	16.6	17.5	1.23	0.118	0.15	/
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	15.67	16.0	1.079	0.119	0.13	/
Body Top (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	16.6	17.5	1.23	0.118	0.15	/
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	15.67	16.0	1.079	0.116	0.13	/

LTE Band 71(ANT0):

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.09	23.5	1.099	0.243	0.27	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	22.86	23.0	1.033	0.238	0.25	/
Body Back (10mm)	673	20	1RB	22.93	23.5	1.14	0.299	0.34	/
	680.5	20	1RB	23.09	23.5	1.099	0.396	0.44	17#
	688	20	1RB	22.89	23.5	1.151	0.325	0.37	/
	680.5	20	50%RB	22.86	23.0	1.033	0.376	0.39	/
Body Left (10mm)	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.09	23.5	1.099	0.121	0.13	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	22.86	23.0	1.033	0.117	0.12	/
Body Right (10mm)	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.09	23.5	1.099	0.183	0.20	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	22.86	23.0	1.033	0.179	0.18	/
Body Bottom (10mm)	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.09	23.5	1.099	0.138	0.15	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	22.86	23.0	1.033	0.132	0.14	/

Note: The test data above was performed on 2025/09/21.

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02r05.
3. KDB 941225 D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > 0.5 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg
4. KDB 941225 D05-For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is <1.45 W/kg, tests for the remaining required test channels are optional.
5. 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.
6. KDB 941225 D05- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offset the upper edge, middle and lower edge of each required test channel.
7. 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 > 0.5 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.

10. MEASUREMENT VARIABILITY

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

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

The Highest Measured SAR Configuration in Each Frequency Band

Body

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

Note:

1. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
2. 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.

11. 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 $\nu_i = \infty$ 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	
/	/	/	/	/	/

12. SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

12.1 Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities		
Transmitter Combination	Simultaneous?	Hotspot?
ANT 0 + ANT 6 (WLAN 2.4G/5G)	√	√
ANT 0 + ANT 7(WLAN 2.4G/5G)	√	√
ANT 1 + ANT 6 (WLAN 2.4G/5G)	√	√
ANT 1 + ANT 7(WLAN 2.4G/5G)	√	√
ANT 2 + ANT 6 (WLAN 2.4G/5G)	√	√
ANT 2 + ANT 7(WLAN 2.4G/5G)	√	√
ANT 0 + ANT 1	×	×
ANT 0 + ANT 2	×	×
ANT 1 + ANT 2	×	×
ANT 6 (WLAN 2.4G) + ANT 7(WLAN 2.4G)	√	√
ANT 6 (WLAN 5G) + ANT 7(WLAN 5G)	√	√
ANT 6 (WLAN 2.4G) + ANT 7(WLAN 5G)	×	×
ANT 6 (WLAN 5G) + ANT 7(WLAN 2.4G)	×	×
ANT 0 + ANT 6 (WLAN 2.4G) + ANT 7(WLAN 2.4G)	√	√
ANT 0 + ANT 6 (WLAN 5.2G) + ANT 7(WLAN 5.2G)	√	√
ANT 0 + ANT 6 (WLAN 5.8G) + ANT 7(WLAN 5.8G)	√	√
ANT 1 + ANT 6 (WLAN 2.4G) + ANT 7(WLAN 2.4G)	√	√
ANT 1 + ANT 6 (WLAN 5.2G) + ANT 7(WLAN 5.2G)	√	√
ANT 1 + ANT 6 (WLAN 5.8G) + ANT 7(WLAN 5.8G)	√	√
ANT 2 + ANT 6 (WLAN 2.4G) + ANT 7(WLAN 2.4G)	√	√
ANT 2 + ANT 6 (WLAN 5.2G) + ANT 7(WLAN 5.2G)	√	√
ANT 2 + ANT 6 (WLAN 5.8G) + ANT 7(WLAN 5.8G)	√	√

12.2 Simultaneous SAR test exclusion considerations:

Worst Case:

Mode(SAR1+SAR2+SAR3)	Position	Reported SAR(W/kg)			Σ SAR < 1.6W/kg
		SAR1	SAR2	SAR3	
ANT 0 + ANT 6 (WLAN 2.4G) + ANT 7(WLAN 2.4G)	Body	0.79	0.19	0.18	1.16
ANT 0 + ANT 6 (WLAN 5.2G) + ANT 7(WLAN 5.2G)	Body	0.79	0.20	0.24	1.23
ANT 0 + ANT 6 (WLAN 5.8G) + ANT 7(WLAN 5.8G)	Body	0.79	0.26	0.18	1.23
ANT 1 + ANT 6 (WLAN 2.4G) + ANT 7(WLAN 2.4G)	Body	0.79	0.19	0.18	1.16
ANT 1 + ANT 6 (WLAN 5.2G) + ANT 7(WLAN 5.2G)	Body	0.79	0.20	0.24	1.23
ANT 1 + ANT 6 (WLAN 5.8G) + ANT 7(WLAN 5.8G)	Body	0.79	0.26	0.18	1.23
ANT 2 + ANT 6 (WLAN 2.4G) + ANT 7(WLAN 2.4G)	Body	0.54	0.19	0.18	0.91
ANT 2 + ANT 6 (WLAN 5.2G) + ANT 7(WLAN 5.2G)	Body	0.54	0.20	0.24	0.98
ANT 2 + ANT 6 (WLAN 5.8G) + ANT 7(WLAN 5.8G)	Body	0.54	0.26	0.18	0.98

Note: The test data of LTE Band 42, 5G NR and WLAN 2.4G/5.2G/5.8G, please refer to FCC ID: 2A9UP-SEG, SAR report: 2501V03643E-SA ▲, issued by Bay Area Compliance Laboratories Corp. (Shenzhen).

Conclusion:

Sum of SAR: Σ SAR $\leq$ 1.6 W/kg therefore simultaneous transmission SAR with Volume Scans is **not required**.

APPENDIX A - MEASUREMENT UNCERTAINTY

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

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Uncertainty component	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration(k=1)	6.55	N	1	1	1	6.6	6.6
Axial isotropy	4.7	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	1.9	1.9
Hemispherical isotropy	9.6	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	3.9	3.9
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Modulation response	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambient conditions-noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
RF ambient conditions-reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. tolerance	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
Test sample related							
Test sample positioning	3.3	N	1	1	1	3.3	3.3
Device holder uncertainty	0.8	N	1	1	1	0.8	0.8
Output power variation –SAR draft measurement	5.0	R	$\sqrt{3}$	1	1	2.9	2.9
SAR scaling	2.8	R	$\sqrt{3}$	1	1	1.6	1.6
Phantom and tissue parameters							
Phantom shell uncertainty– shape, thickness and permittivity	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.9	1.6
Liquid conductivity meas.	2.5	N	1	0.78	0.71	2.0	1.8
Liquid permittivity meas.	2.5	N	1	0.23	0.26	0.6	0.7
Liquid conductivity – temperature uncertainty	1.7	R	$\sqrt{3}$	0.78	0.71	0.8	0.7
Liquid permittivity – temperature uncertainty	0.3	R	$\sqrt{3}$	0.23	0.26	0.0	0.0
Combined standard uncertainty		RSS				12.1	12.0
Expanded uncertainty (95 % confidence interval)		k=2				24.2	24.0

APPENDIX B - SAR PLOTS

Please refer to the attachment.

APPENDIX C - EUT TEST POSITION PHOTOS

Please refer to the attachment.

APPENDIX D - PROBE CALIBRATION CERTIFICATES

Please refer to the attachment.

APPENDIX E - DIPOLE CALIBRATION CERTIFICATES

Please refer to the attachment.

APPENDIX F - RETURN LOSS AND IMPEDANCE MEASUREMENT

Please refer to the attachment.

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