

FCC SAR Test Report

Report No. : 1813C60408112501

Applicant : Acer India Private Limited

Address : Embassy Heights 6th floor, No.13 Magrath
Road(Next to Hosmat Hospital), Bengaluru,
560025, India

Product Name : Tablet

Report Date : 2026-10-12

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Acer India Private Limited
Manufacturer : Acer India Private Limited
Product Name : Tablet
Model No. : YMT14LM4G, Acer One Slate 14, Acer Iconia Tab 14
Trade Mark : 
Rating(s) : Adapter Input: 100-240V~50/60Hz 0.8A
Adapter Output: 5.0V DC 3.0A/9.0V DC 2.0A/12.0V DC 1.5A
Battery: 3.87V 10000 mAh

**Test Standard(s) : IEEE Std 1528™-2013; FCC 47 CFR Part 2.1093;
ANSI/IEEE C95.1:2019; Reference FCC KDB 447498 D01 v06;
KDB 248227 D01 v02r02; KDB 865664 D01**

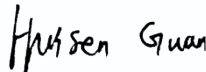
The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the IEEE Std 1528™-2013, FCC 47 CFR Part 2.1093, IEEE Std C95.1-2019 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt 2026-08-28

Date of Test 2026-09-01 to 2026-09-04

Prepared By



(Huisen Guan)

Approved & Authorized Signer



(Jules Guo)

Version

Version No.	Date	Description
R00	2026-10-12	Original

1. Statement of Compliance

<Highest SAR Summary>

Frequency Band	Highest Reported 1g-SAR(W/Kg)	SAR Test Limit (W/Kg)
	Body (5mm)	
LTE Band 5	1.254	1.6
LTE Band 41	0.456	
WCDMA Band 2	0.588	
WCDMA Band 5	0.224	
GSM850	0.230	
GSM1900	0.436	
WIFI2.4G	0.139	
WIFI5.2G	0.258	
WIFI5.8G	0.290	
Test Result	PASS	

This device is in compliance with Specific Absorption Rate (SAR) for general population or uncontrolled exposure limits (1.6 W/kg as averaged over any 1 gram of tissue and 4.0 W/kg as averaged over any 10 gram of tissue).

2. General Information

2.1 Client Information

Applicant	:	Acer India Private Limited
Address	:	Embassy Heights 6th floor, No.13 Magrath Road(Next to Hosmat Hospital), Bengaluru, 560025, India
Manufacturer	:	Acer India Private Limited
Address	:	Embassy Heights 6th floor, No.13 Magrath Road(Next to Hosmat Hospital), Bengaluru, 560025, India
Factory	:	Acer India Private Limited
Address	:	Embassy Heights 6th floor, No.13 Magrath Road(Next to Hosmat Hospital), Bengaluru, 560025, India

2.2 Description of Equipment Under Test (EUT)

Product Name	:	Tablet
Model No.	:	YMT14LM4G, Acer One Slate 14, Acer Iconia Tab 14(Note: All samples are the same except the model number, so we prepare "YMT14LM4G" for test only.)
Trade Mark	:	
Hardware Version	:	N/A
Software Version	:	N/A
Test Power Supply	:	DC 3.87V Battery inside
Test Sample No.	:	1-2-2(Engineering Sample)
Tx Frequency	:	BLE/BT:2402MHz~2480MHz WIFI2.4G:2412MHz~2462MHz WIFI5.2G:5180MHz~5240MHz WIFI5.8G:5745MHz~5825MHz GSM850:824~849MHz GSM1900:1850~1910MHz WCDMA Band2:1852.40~1907.60MHz WCDMA Band5:826.40~846.60MHz LTE Band5:824~849MHz LTE Band41:2535MHz~2655MHz
Type of Modulation	:	BLE:GFSK BT: GFSK, $\pi/4$ -DQPSK, 8DPSK WIFI:DSSS,OFDM GSM:GMSK,8PSK WCDMA:QPSK LTE:QPSK,16QAM

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Category of device	:	Portable device
Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.		

2.3 Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

2.4 Applied Standard

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2.1093
- IEEE Std C95.1-2019
- IEEE Std 1528™-2013
- KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- KDB 865664 D02 RF Exposure Reporting v01r02
- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 248227 D01 802.11 Wi-Fi SAR v02r02

2.5 Environment of Test Site

Items	Required	Actual
Temperature (°C)	18-25	20~23
Humidity (%RH)	30-70	40~55

2.6 Test Configuration

For WiFi testing, the prototype can continuously transmit RF signals through a frequency-fixing software to conduct SAR testing.

For GSM, WCDMA and LTE SAR testing, connect EUT to communication tester and set to the highest power.

2.7 Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

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2.8 Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The effect that the results relate only to the items tested.
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3. Specific Absorption Rate (SAR)

3.1. Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

3.2. SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

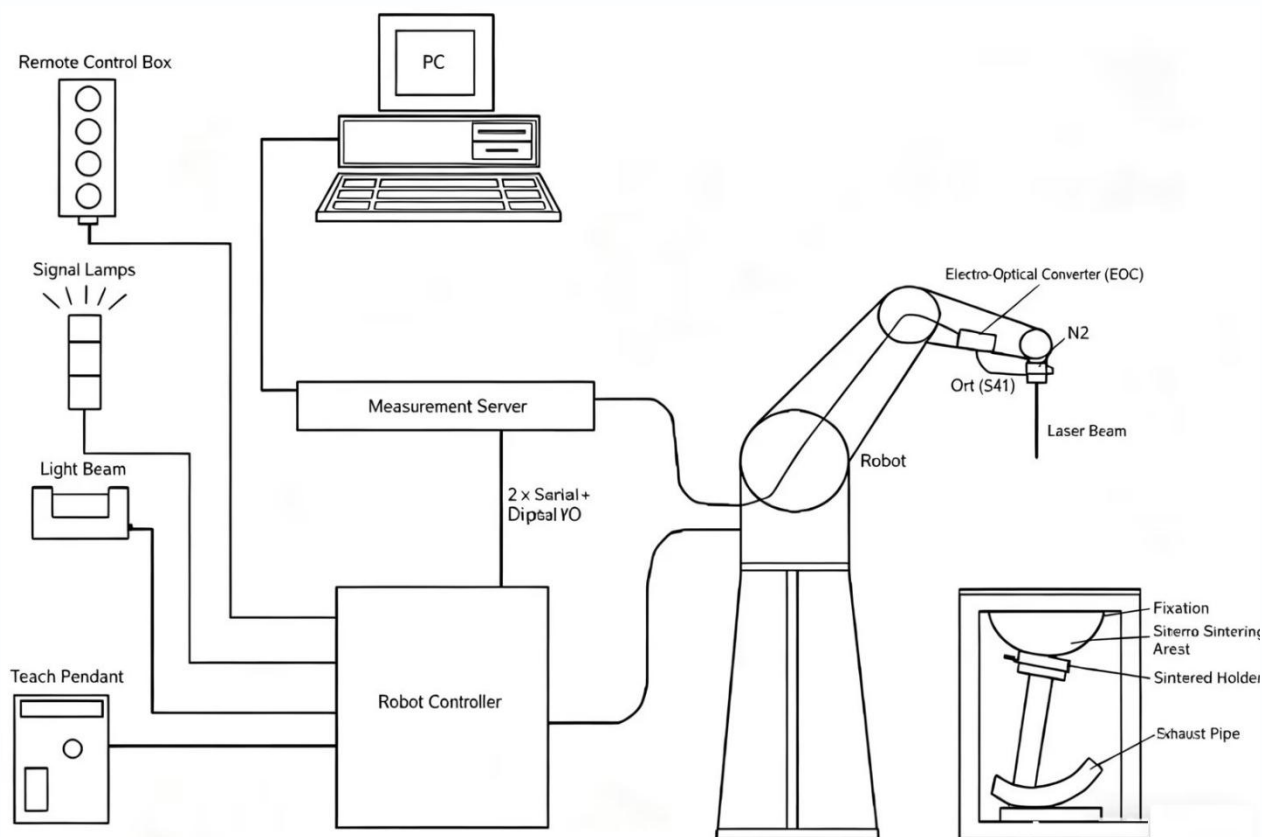
Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

4. SAR Measurement System



DASY System Configurations

The DASYS system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASYS software
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom and ELI4 Phantom
- A device holder
- Tissue simulating liquid

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- Dipole for evaluating the proper functioning of the system

components are described in details in the following sub-sections.

4.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG).The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

- **E-Field Probe Specification**
<EX3DV4 Probe>

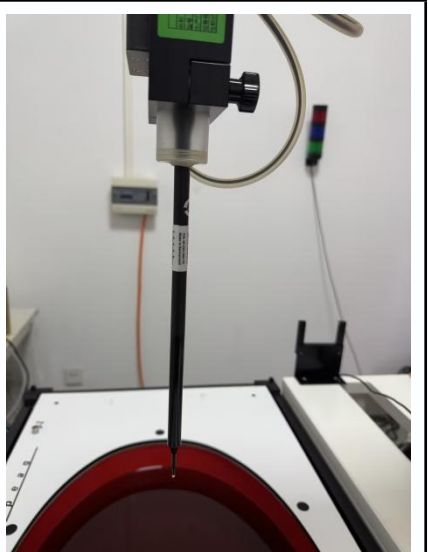
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 W/kg; Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

Photo of EX3DV4

- **E-Field Probe Calibration**

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (NormX, NormY, and NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix D of this report.

4.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists 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 and 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 input impedance of the DAE is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.



Photo of DAE

4.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60) type from Stäubli SA (France). For the 6-axis controllersystem, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäublirobot series have many features that are important for our application:

- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

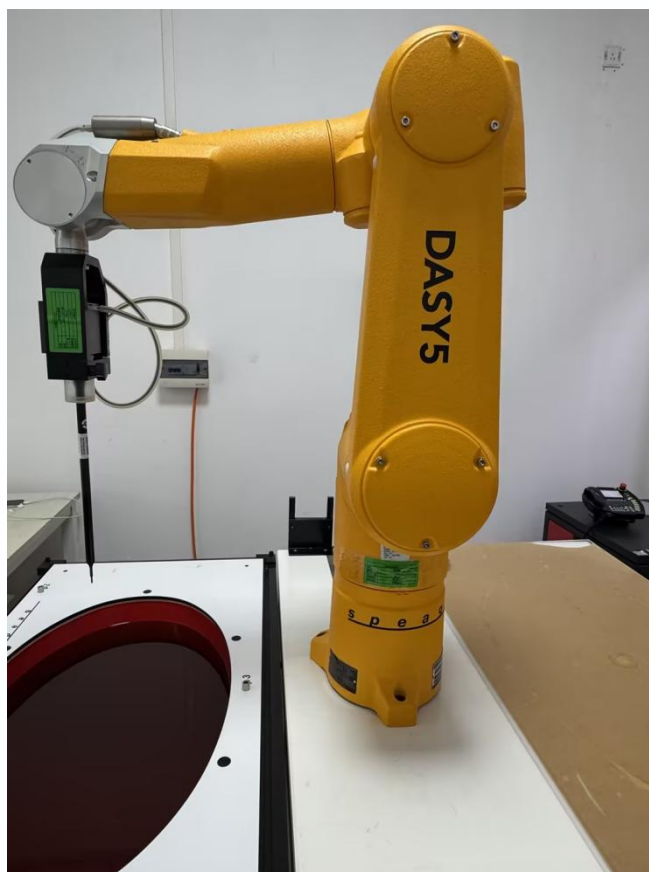


Photo of DASY5

4.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chipdisk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Photo of Server for DASY5

4.5 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom

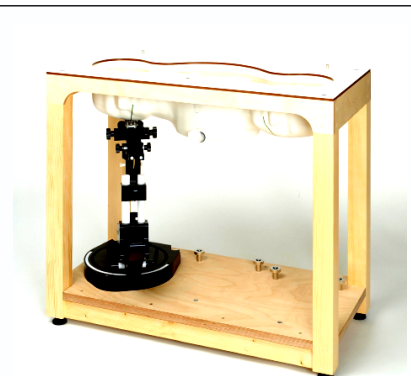
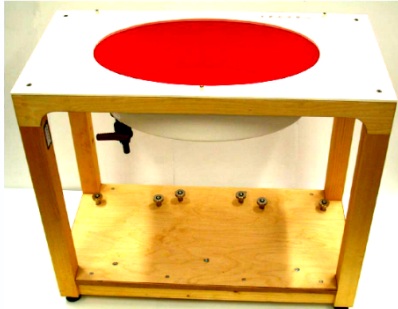


Photo of SAM Phantom

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI4 Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	 Photo of ELI4 Phantom
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

4.6 Device Holder

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ±0.5mm would produce a SAR uncertainty of ± 20%. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



Device Holder

4.7 Data Storage and Evaluation

➤ Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [A/m], [W/kg]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-loss media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

➤ Data Evaluation

The DASY post-processing software (SEMCAD X) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	$\text{Norm}_i, a_{i0}, a_{i1}, a_{i2}$
	- Conversion factor	ConvF_i
	- Diode compression point	dcp_i
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multi-meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

with V_i = compensated signal of channel i, (i = x, y, z)
 U_i = input signal of channel i, (i = x, y, z)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

From the compensated input signals, the primary field data for each channel can be evaluated:

$$\text{E-field Probes: } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H-field Probes: } H_i = \sqrt{V_i \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}}$$

with V_i = compensated signal of channel i, (i = x, y, z)
 Norm_i = sensor sensitivity of channel i, (i = x, y, z), $\mu\text{V}/(\text{V/m})^2$ for E-field Probes
 ConvF = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency [GHz]
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{\text{tot}} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$\text{SAR} = E_{\text{tot}}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with SAR = local specific absorption rate in W/kg
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm³

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

5. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	4d164	2025-09-18	2028-09-17
SPEAG	1900MHz System Validation Kit	D1900V2	5d089	2025-09-17	2028-09-16
SPEAG	2450MHz System Validation Kit	D2450V2	1018	2025-09-16	2028-09-15
SPEAG	2600Hz System Validation Kit	D2600V2	1158	2025-03-31	2028-03-30
SPEAG	5GHz System Validation Kit	D5GHzV2	1093	2025-09-17	2028-09-16
Rohde & Schwarz	UNIVERSAL RADIO COMMUNICATION TESTER	CMW 500	104209	2025-12-19	2026-12-18
SPEAG	Data Acquisition Electronics	DAE4	387	2025-10-13	2026-10-12
SPEAG	Dosimetric E-Field Probe	EX3DV4	3959	2025-10-09	2026-10-08
Anritsu	Mini Network Analyzerr	MS46121A	1618412	2026-03-26	2027-03-25
SPEAG	DAK	DAK-3.5	1256	2025-10-10	2026-10-09
SPEAG	SAM Twin Phantom	QD000P40CD	1802	NCR	NCR
SPEAG	ELI Phantom	QDOVA004AA	2058	NCR	NCR
Tailai Microwave	Amplifier	TLPA50K6G-33-33-HS	932502132	NCR	NCR
Agilent	Power Meter	N1914A	MY50001102	2025-12-29	2026-12-28
Agilent	Power Sensor	E9323A	US40410647	2025-12-29	2026-12-28
Agilent	Power Sensor	E9323A	MY53100007	2025-12-29	2026-12-28
CDKMV	Attenuator	10 dB	/	2026-04-15	2027-04-14
Agilent	Signal Generation	N5182A	MY48180656	2025-12-29	2026-12-28
Worken	Directional Coupler	0110A05601O-10	COM5BNW1A2	2025-10-25	2026-10-24

Note:

1. The calibration certificate of DASY can be referred to appendix D of this report.
2. The dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
4. The dielectric probe kit was calibrated via the network analyzer, with the specified procedure (calibrated in pure water) and calibration kit (standard) short circuit, before the dielectric measurement. The specific procedure and calibration kit are provided by Agilent.
5. In system check we need to monitor the level on the power meter, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1W input power according to the ratio of 1W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the power meter is critical and we do have calibration for it.

6. Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 6.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown as followed:



Photo of Liquid Height for Head SAR

Tissue fluid parameter information

Name: Broadband Head Tissue Simulating Liquids

Product Model: BBL600-10G

• Description of the mixture:

Broadband tissue fluid. Ingredients:		
Substance	CAS No.	% (w/w)
Water	7732-18-5	<60
Non-ionic Surfactant Skin Irrit. 2 (H315); Eye Irrit. 2 (H319)	Proprietary	<2
Poloxalene	9003-11-6	<8
Tween 20	9005-64-5	<15
Sodium Petroleum Sulfonate	68608-26-4	<5
Sodium chloride	7647-14-5	<8
iso-Propyl palmitate	142-91-6	<10

The main frequency data of this batch of products are as follows:

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Frequency (MHz)	Relative permittivity ϵ'	Conductivity σ (S/m)
600	45.71	0.8
750	45.01	0.86
900	44.39	0.92
1450	42.81	1.2
1950	41.72	1.5
2100	41.43	1.6
2300	41.06	1.74
2450	40.79	1.86
2600	40.48	1.98
3500	38.64	2.73
3700	38.29	2.91
3900	37.97	3.09
4100	37.65	3.28
4400	37.16	3.59
4600	36.77	3.79
4950	36.09	4.16
5250	35.61	4.5
5600	35.08	4.86
6500	33.49	5.84
7500	31.97	6.9
8000	31.12	7.48
9000	29.73	8.61
10000	28.74	9.68

Note: According to IEEE 1528:2013, the liquid parameters for head are the same as body requirements.

The following table shows the measuring results for simulating liquid.

Measured Frequency (MHz)	Measured Tissue		Target Tissue		Dev. (%)		Liquid Temp (°C)	Test Date
	Permittivity (ϵ_r)	Conductivity (σ)	Permittivity Target (ϵ_r)	Conductivity Target (σ)	Delta (ϵ_r) (%)	Delta (σ) (%)		
835	41.145	0.929	41.50	0.90	-0.86	3.22	22.1	2026-09-02
836.5	41.327	0.92	41.50	0.90	-0.42	2.22	22.1	2026-09-02
844	42.058	0.925	41.50	0.91	1.34	1.65	22.1	2026-09-02

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2450	39.071	1.829	39.20	1.80	-0.33	1.61	22.1	2026-09-02
2412	39.277	1.767	39.28	1.77	-0.01	-0.17	22.1	2026-09-02
5250	36.32	4.828	35.95	4.71	1.03	2.51	22.1	2026-09-02
5240	35.903	4.746	35.96	4.70	-0.16	0.98	21.6	2026-09-03
5750	35.829	5.433	35.35	5.22	1.36	4.08	21.6	2026-09-03
5825	35.645	5.401	35.28	5.3	1.03	1.91	21.6	2026-09-03
835	41.576	0.938	41.50	0.90	0.18	4.22	21.6	2026-09-03
836.5	41.779	0.925	41.50	0.90	0.67	2.78	21.6	2026-09-03
836.6	41.965	0.935	41.50	0.90	1.12	3.89	21.6	2026-09-03
826.4	41.967	0.935	41.54	0.90	1.03	3.89	21.6	2026-09-03
2600	38.656	1.963	39.00	1.96	-0.88	0.15	21.6	2026-09-03
2545	38.960	1.930	39.07	1.90	-0.28	1.58	21.6	2026-09-03
1900	40.020	1.433	40.00	1.40	0.05	2.36	21.6	2026-09-03
1880	40.045	1.440	40.00	1.40	0.11	2.86	22.0	2026-09-04
1909.8	39.964	1.445	40.00	1.40	-0.09	3.21	22.0	2026-09-04

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7. System Verification Procedures

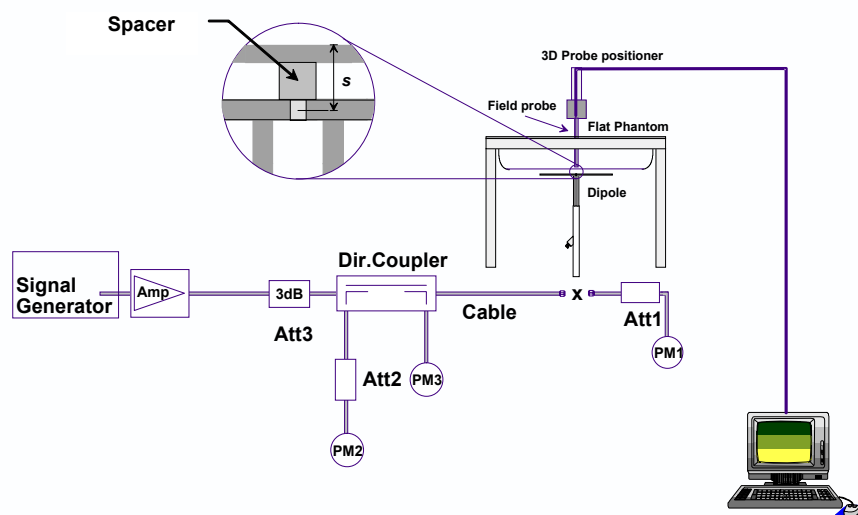
Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

➤ Purpose of System Performance check

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

➤ System Setup

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



System Setup for System Evaluation

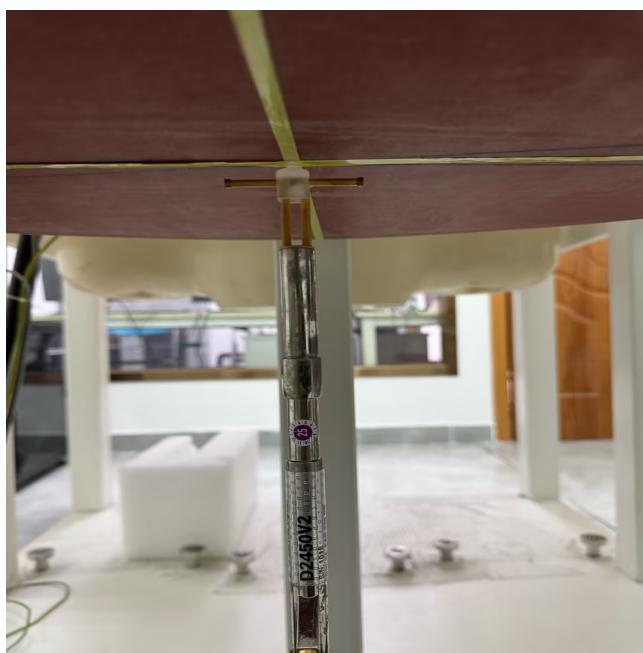


Photo of Dipole Setup

➤ **Validation Results**

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10%. The table below shows the target SAR and measured SAR after normalized to 1W input power. It indicates that the system performance check can meet the variation criterion and the plots can be referred to Appendix B of this report.

Target and Measurement SAR after Normalized

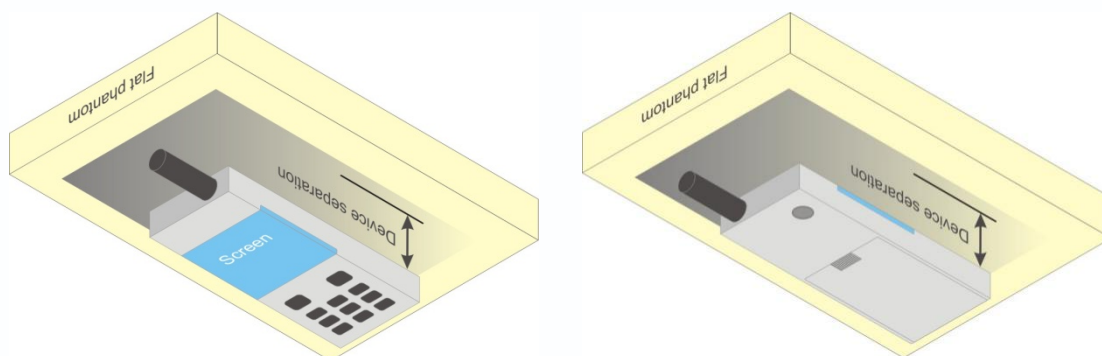
Frequency (MHz)	Power fed onto reference dipole (mW)	Targeted SAR 1g(W/kg)	Measured SAR 1g(W/kg)	Normalized SAR 1g(W/kg)	Deviation (%)	Test Date
835	100	9.44	0.97	9.7	2.75	2026-09-02
2450	100	52.6	4.97	49.7	-5.51	2026-09-02
5250	100	82.9	7.74	77.4	-6.63	2026-09-02
5750	100	77.9	7.9	79	1.41	2026-09-03
835	100	9.44	0.965	9.65	2.22	2026-09-03
2600	100	55.2	5.16	51.6	-6.52	2026-09-03
1900	100	39.5	3.75	37.5	-5.06	2026-09-03

8. EUT Testing Position

8.1. Body Position

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per KDB 648474 D04, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01 v06, 2015 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $< 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.



Body Worn Position

9. Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the middle channel.
- (b) Keep EUT to radiate maximum output power or 100% duty factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as setup photos demonstrates.
- (e) Set scan area, grid size and other setting on the DASY software.
- (f) Measure SAR transmitting at the middle channel for all applicable exposure positions.
- (g) Identify the exposure position and device configuration resulting the highest SAR
- (h) Measure SAR at the lowest and highest channels at the worst exposure position and device configuration if applicable.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

9.1. Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

9.2. Area Scan Procedures

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

9.3. Zoom Scan Procedures

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

9.4. Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregateSAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

10. Output Power

<LTE Band 5>

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Tune-Up (dBm)
Band5	1.4	20407	1	#0	QPSK	22.73	23
Band5	1.4	20407	1	#Mid	QPSK	22.82	23
Band5	1.4	20407	1	#Max	QPSK	22.76	23
Band5	1.4	20407	3	#0	QPSK	22.73	23
Band5	1.4	20407	3	#Mid	QPSK	22.79	23
Band5	1.4	20407	3	#Max	QPSK	22.77	23
Band5	1.4	20407	6	#0	QPSK	21.77	22
Band5	1.4	20525	1	#0	QPSK	22.72	23
Band5	1.4	20525	1	#Mid	QPSK	22.84	23
Band5	1.4	20525	1	#Max	QPSK	22.7	23
Band5	1.4	20525	3	#0	QPSK	22.86	23
Band5	1.4	20525	3	#Mid	QPSK	22.91	23
Band5	1.4	20525	3	#Max	QPSK	22.85	23
Band5	1.4	20525	6	#0	QPSK	21.85	22
Band5	1.4	20643	1	#0	QPSK	22.64	23
Band5	1.4	20643	1	#Mid	QPSK	22.75	23
Band5	1.4	20643	1	#Max	QPSK	22.7	23
Band5	1.4	20643	3	#0	QPSK	22.76	23
Band5	1.4	20643	3	#Mid	QPSK	22.83	23
Band5	1.4	20643	3	#Max	QPSK	22.77	23
Band5	1.4	20643	6	#0	QPSK	21.81	22
Band5	3	20415	1	#0	QPSK	22.47	23
Band5	3	20415	1	#Mid	QPSK	22.62	23
Band5	3	20415	1	#Max	QPSK	22.5	23
Band5	3	20415	8	#0	QPSK	21.67	22
Band5	3	20415	8	#Mid	QPSK	21.79	22
Band5	3	20415	8	#Max	QPSK	21.75	22
Band5	3	20415	15	#0	QPSK	21.76	22
Band5	3	20525	1	#0	QPSK	22.59	23
Band5	3	20525	1	#Mid	QPSK	22.7	23
Band5	3	20525	1	#Max	QPSK	22.55	23
Band5	3	20525	8	#0	QPSK	21.76	22
Band5	3	20525	8	#Mid	QPSK	21.85	22

Band5	3	20525	8	#Max	QPSK	21.84	22
Band5	3	20525	15	#0	QPSK	21.82	22
Band5	3	20635	1	#0	QPSK	22.53	23
Band5	3	20635	1	#Mid	QPSK	22.67	23
Band5	3	20635	1	#Max	QPSK	22.59	23
Band5	3	20635	8	#0	QPSK	21.7	22
Band5	3	20635	8	#Mid	QPSK	21.77	22
Band5	3	20635	8	#Max	QPSK	21.75	22
Band5	3	20635	15	#0	QPSK	21.76	22
Band5	5	20425	1	#0	QPSK	22.75	23
Band5	5	20425	1	#Mid	QPSK	22.87	23
Band5	5	20425	1	#Max	QPSK	22.75	23
Band5	5	20425	12	#0	QPSK	21.81	22
Band5	5	20425	12	#Mid	QPSK	21.89	22
Band5	5	20425	12	#Max	QPSK	21.8	22
Band5	5	20425	25	#0	QPSK	21.85	22
Band5	5	20525	1	#0	QPSK	22.86	23
Band5	5	20525	1	#Mid	QPSK	22.93	23
Band5	5	20525	1	#Max	QPSK	22.88	23
Band5	5	20525	12	#0	QPSK	21.81	22
Band5	5	20525	12	#Mid	QPSK	21.95	22
Band5	5	20525	12	#Max	QPSK	21.91	22
Band5	5	20525	25	#0	QPSK	21.92	22
Band5	5	20625	1	#0	QPSK	22.68	23
Band5	5	20625	1	#Mid	QPSK	22.82	23
Band5	5	20625	1	#Max	QPSK	22.77	23
Band5	5	20625	12	#0	QPSK	21.79	22
Band5	5	20625	12	#Mid	QPSK	21.8	22
Band5	5	20625	12	#Max	QPSK	21.76	22
Band5	5	20625	25	#0	QPSK	21.82	22
Band5	10	20450	1	#0	QPSK	22.8	23
Band5	10	20450	1	#Mid	QPSK	22.94	23
Band5	10	20450	1	#Max	QPSK	22.94	23
Band5	10	20450	25	#0	QPSK	21.83	22
Band5	10	20450	25	#Mid	QPSK	21.91	22
Band5	10	20450	25	#Max	QPSK	21.83	22
Band5	10	20450	50	#0	QPSK	21.87	22
Band5	10	20525	1	#0	QPSK	22.99	23
Band5	10	20525	1	#Mid	QPSK	23.01	24

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Band5	10	20525	1	#Max	QPSK	22.95	23
Band5	10	20525	25	#0	QPSK	21.82	22
Band5	10	20525	25	#Mid	QPSK	21.98	22
Band5	10	20525	25	#Max	QPSK	21.9	22
Band5	10	20525	50	#0	QPSK	21.9	22
Band5	10	20600	1	#0	QPSK	22.87	23
Band5	10	20600	1	#Mid	QPSK	22.81	23
Band5	10	20600	1	#Max	QPSK	22.84	23
Band5	10	20600	25	#0	QPSK	21.8	22
Band5	10	20600	25	#Mid	QPSK	21.84	22
Band5	10	20600	25	#Max	QPSK	21.74	22
Band5	10	20600	50	#0	QPSK	21.81	22

<LTE Band 41>

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Tune-Up (dBm)
Band41	5	40065	1	#0	QPSK	22.85	23
Band41	5	40065	1	#Mid	QPSK	22.9	23
Band41	5	40065	1	#Max	QPSK	23.16	24
Band41	5	40065	12	#0	QPSK	23.01	24
Band41	5	40065	12	#Mid	QPSK	22.8	23
Band41	5	40065	12	#Max	QPSK	22.99	23
Band41	5	40065	25	#0	QPSK	21.9	22
Band41	5	40065	1	#0	16QAM	22.23	23
Band41	5	40065	1	#Mid	16QAM	22.14	23
Band41	5	40065	1	#Max	16QAM	22.12	23
Band41	5	40065	12	#0	16QAM	22.38	23
Band41	5	40065	12	#Mid	16QAM	22.24	23
Band41	5	40065	12	#Max	16QAM	22.26	23
Band41	5	40065	25	#0	16QAM	21.12	22
Band41	5	40640	1	#0	QPSK	22.96	23
Band41	5	40640	1	#Mid	QPSK	23.2	24
Band41	5	40640	1	#Max	QPSK	22.96	23

Band41	5	40640	12	#0	QPSK	23.05	24
Band41	5	40640	12	#Mid	QPSK	23.04	24
Band41	5	40640	12	#Max	QPSK	23.2	24
Band41	5	40640	25	#0	QPSK	21.94	22
Band41	5	40640	1	#0	16QAM	22.06	23
Band41	5	40640	1	#Mid	16QAM	22.3	23
Band41	5	40640	1	#Max	16QAM	22.25	23
Band41	5	40640	12	#0	16QAM	22.45	23
Band41	5	40640	12	#Mid	16QAM	22.55	23
Band41	5	40640	12	#Max	16QAM	22.18	23
Band41	5	40640	25	#0	16QAM	21.25	22
Band41	5	41215	1	#0	QPSK	22.8	23
Band41	5	41215	1	#Mid	QPSK	23.14	24
Band41	5	41215	1	#Max	QPSK	22.84	23
Band41	5	41215	12	#0	QPSK	23.03	24
Band41	5	41215	12	#Mid	QPSK	23.09	24
Band41	5	41215	12	#Max	QPSK	22.85	23
Band41	5	41215	25	#0	QPSK	21.83	22
Band41	5	41215	1	#0	16QAM	21.91	22
Band41	5	41215	1	#Mid	16QAM	21.92	22
Band41	5	41215	1	#Max	16QAM	21.99	22
Band41	5	41215	12	#0	16QAM	22.09	23
Band41	5	41215	12	#Mid	16QAM	22.07	23
Band41	5	41215	12	#Max	16QAM	22.23	23
Band41	5	41215	25	#0	16QAM	21.11	22
Band41	10	40090	1	#0	QPSK	22.66	23
Band41	10	40090	1	#Mid	QPSK	22.92	23
Band41	10	40090	1	#Max	QPSK	22.55	23

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Band41	10	40090	25	#0	QPSK	21.71	22
Band41	10	40090	25	#Mid	QPSK	21.82	22
Band41	10	40090	25	#Max	QPSK	21.86	22
Band41	10	40090	50	#0	QPSK	22.08	23
Band41	10	40090	1	#0	16QAM	22.09	23
Band41	10	40090	1	#Mid	16QAM	22.4	23
Band41	10	40090	1	#Max	16QAM	22.18	23
Band41	10	40090	25	#0	16QAM	21.05	22
Band41	10	40090	25	#Mid	16QAM	21.1	22
Band41	10	40090	25	#Max	16QAM	20.9	21
Band41	10	40090	50	#0	16QAM	21.14	22
Band41	10	40640	1	#0	QPSK	22.73	23
Band41	10	40640	1	#Mid	QPSK	23.03	24
Band41	10	40640	1	#Max	QPSK	22.76	23
Band41	10	40640	25	#0	QPSK	22.07	23
Band41	10	40640	25	#Mid	QPSK	21.9	22
Band41	10	40640	25	#Max	QPSK	22.22	23
Band41	10	40640	50	#0	QPSK	21.85	22
Band41	10	40640	1	#0	16QAM	21.87	22
Band41	10	40640	1	#Mid	16QAM	22.05	23
Band41	10	40640	1	#Max	16QAM	22.18	23
Band41	10	40640	25	#0	16QAM	20.89	21
Band41	10	40640	25	#Mid	16QAM	21.04	22
Band41	10	40640	25	#Max	16QAM	20.97	21
Band41	10	40640	50	#0	16QAM	21.05	22
Band41	10	41190	1	#0	QPSK	22.83	23
Band41	10	41190	1	#Mid	QPSK	22.99	23
Band41	10	41190	1	#Max	QPSK	22.59	23

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Band41	10	41190	25	#0	QPSK	21.74	22
Band41	10	41190	25	#Mid	QPSK	21.94	22
Band41	10	41190	25	#Max	QPSK	22.07	23
Band41	10	41190	50	#0	QPSK	21.81	22
Band41	10	41190	1	#0	16QAM	21.74	22
Band41	10	41190	1	#Mid	16QAM	21.52	22
Band41	10	41190	1	#Max	16QAM	21.68	22
Band41	10	41190	25	#0	16QAM	20.82	21
Band41	10	41190	25	#Mid	16QAM	21.16	22
Band41	10	41190	25	#Max	16QAM	20.98	21
Band41	10	41190	50	#0	16QAM	20.98	21
Band41	15	40115	1	#0	QPSK	22.75	23
Band41	15	40115	1	#Mid	QPSK	23.02	24
Band41	15	40115	1	#Max	QPSK	22.91	23
Band41	15	40115	36	#0	QPSK	22.16	23
Band41	15	40115	36	#Mid	QPSK	22.12	23
Band41	15	40115	36	#Max	QPSK	22.09	23
Band41	15	40115	75	#0	QPSK	22.23	23
Band41	15	40115	1	#0	16QAM	22.32	23
Band41	15	40115	1	#Mid	16QAM	22.56	23
Band41	15	40115	1	#Max	16QAM	22.32	23
Band41	15	40115	36	#0	16QAM	20.85	21
Band41	15	40115	36	#Mid	16QAM	20.99	21
Band41	15	40115	36	#Max	16QAM	21.18	22
Band41	15	40115	75	#0	16QAM	20.89	21
Band41	15	40640	1	#0	QPSK	22.88	23
Band41	15	40640	1	#Mid	QPSK	23.18	24
Band41	15	40640	1	#Max	QPSK	22.9	23

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Band41	15	40640	36	#0	QPSK	22.19	23
Band41	15	40640	36	#Mid	QPSK	22.26	23
Band41	15	40640	36	#Max	QPSK	22.09	23
Band41	15	40640	75	#0	QPSK	22.21	23
Band41	15	40640	1	#0	16QAM	22.47	23
Band41	15	40640	1	#Mid	16QAM	22.59	23
Band41	15	40640	1	#Max	16QAM	22.57	23
Band41	15	40640	36	#0	16QAM	21.01	22
Band41	15	40640	36	#Mid	16QAM	21.01	22
Band41	15	40640	36	#Max	16QAM	21.07	22
Band41	15	40640	75	#0	16QAM	21.1	22
Band41	15	41165	1	#0	QPSK	22.87	23
Band41	15	41165	1	#Mid	QPSK	22.99	23
Band41	15	41165	1	#Max	QPSK	22.99	23
Band41	15	41165	36	#0	QPSK	21.93	22
Band41	15	41165	36	#Mid	QPSK	21.91	22
Band41	15	41165	36	#Max	QPSK	21.81	22
Band41	15	41165	75	#0	QPSK	22.01	23
Band41	15	41165	1	#0	16QAM	22.4	23
Band41	15	41165	1	#Mid	16QAM	22.21	23
Band41	15	41165	1	#Max	16QAM	22.15	23
Band41	15	41165	36	#0	16QAM	20.84	21
Band41	15	41165	36	#Mid	16QAM	20.97	21
Band41	15	41165	36	#Max	16QAM	20.81	21
Band41	15	41165	75	#0	16QAM	20.95	21
Band41	20	40140	1	#0	QPSK	23.03	24
Band41	20	40140	1	#Mid	QPSK	23.3	24
Band41	20	40140	1	#Max	QPSK	23.01	24

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Band41	20	40140	50	#0	QPSK	22.13	23
Band41	20	40140	50	#Mid	QPSK	21.98	22
Band41	20	40140	50	#Max	QPSK	22.04	23
Band41	20	40140	100	#0	QPSK	22.12	23
Band41	20	40140	1	#0	16QAM	22.19	23
Band41	20	40140	1	#Mid	16QAM	22.2	23
Band41	20	40140	1	#Max	16QAM	22.16	23
Band41	20	40140	50	#0	16QAM	20.94	21
Band41	20	40140	50	#Mid	16QAM	21.17	22
Band41	20	40140	50	#Max	16QAM	21.17	22
Band41	20	40140	100	#0	16QAM	21.26	22
Band41	20	40640	1	#0	QPSK	23.22	24
Band41	20	40640	1	#Mid	QPSK	23.24	24
Band41	20	40640	1	#Max	QPSK	23.17	24
Band41	20	40640	50	#0	QPSK	21.83	22
Band41	20	40640	50	#Mid	QPSK	22.32	23
Band41	20	40640	50	#Max	QPSK	22.21	23
Band41	20	40640	100	#0	QPSK	22.22	23
Band41	20	40640	1	#0	16QAM	21.97	22
Band41	20	40640	1	#Mid	16QAM	22.2	23
Band41	20	40640	1	#Max	16QAM	21.94	22
Band41	20	40640	50	#0	16QAM	20.92	21
Band41	20	40640	50	#Mid	16QAM	21.38	22
Band41	20	40640	50	#Max	16QAM	21.21	22
Band41	20	40640	100	#0	16QAM	21.23	22
Band41	20	41140	1	#0	QPSK	23.21	24
Band41	20	41140	1	#Mid	QPSK	22.82	23
Band41	20	41140	1	#Max	QPSK	22.99	23

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Band41	20	41140	50	#0	QPSK	22.1	23
Band41	20	41140	50	#Mid	QPSK	21.86	22
Band41	20	41140	50	#Max	QPSK	21.79	22
Band41	20	41140	100	#0	QPSK	21.84	22
Band41	20	41140	1	#0	16QAM	22.42	23
Band41	20	41140	1	#Mid	16QAM	22.42	23
Band41	20	41140	1	#Max	16QAM	22.38	23
Band41	20	41140	50	#0	16QAM	20.9	21
Band41	20	41140	50	#Mid	16QAM	20.98	21
Band41	20	41140	50	#Max	16QAM	20.97	21
Band41	20	41140	100	#0	16QAM	21.01	22

<WCDMA>

Mode	WCDMA Band 2				WCDMA Band 5			
TX Channel	9262	9400	9538	Tune-Up	4132	4182	4233	Tune-Up
Frequency (MHz)	1852.4	1880	1907.6	Power(dBm)	826.4	836.4	846.6	Power(dBm)
RMC 12.2Kbps	21.91	22.39	22.38	23.00	23.17	23.08	23.05	24.00
HSDPA_Sub1	20.97	21.42	21.43	22.00	22.21	22.13	22.10	23.00
HSDPA_Sub2	20.59	20.95	20.94	21.00	21.63	21.75	21.69	22.00
HSDPA_Sub3	19.54	19.66	19.89	20.00	20.78	20.59	20.41	21.00
HSDPA_Sub4	19.28	19.58	19.87	20.00	20.81	20.53	20.39	21.00
HSUPA_Sub1	19.70	21.17	21.21	22.00	20.93	21.95	21.91	22.00
HSUPA_Sub2	20.83	21.31	21.30	22.00	22.05	21.92	21.94	23.00
HSUPA_Sub3	19.32	20.08	20.11	21.00	20.39	21.06	20.79	22.00
HSUPA_Sub4	20.91	21.42	21.35	22.00	22.19	22.1	22.09	23.00
HSUPA_Sub5	19.31	20.82	20.49	21.00	20.53	21.21	21.43	22.00

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<GSM>

Band GSM850	Burst Average Power (dBm)			Frame-Average Power (dBm)			
TX Channel	128	190	251	128	190	251	Tune-Up
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8	Power(dBm)
GSM850	31.91	32.04	31.9	22.88	23.01	22.87	23.50
GPRS (1 Tx slot)	31.93	32.06	31.92	22.90	23.03	22.89	23.50
GPRS (2 Tx slots)	31.1	31.21	31.06	25.08	25.19	25.04	25.50
GPRS (3 Tx slots)	29.31	29.43	29.24	25.05	25.17	24.98	25.50
GPRS (4 Tx slots)	28	28.15	27.91	24.99	25.14	24.90	25.50
EGPRS (1 Tx slot)	26.38	26.64	26.42	17.35	17.61	17.39	18.00
EGPRS (2 Tx slot)	25.84	25.79	25.55	19.82	19.77	19.53	20.00
EGPRS (3 Tx slot)	23.17	23.04	23.53	18.91	18.78	19.27	19.50
EGPRS (4 Tx slot)	22.48	22.36	22.18	19.47	19.35	19.17	19.50
Band GSM1900	Burst Average Power (dBm)			Frame-Average Power (dBm)			
TX Channel	512	661	810	512	661	810	Tune-Up
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	Power(dBm)
GSM1900	28.54	28.98	29.08	19.51	19.95	20.05	20.50
GPRS (1 Tx slot)	28.57	29.01	29.11	19.54	19.98	20.08	20.50
GPRS (2 Tx slots)	27.76	28.16	28.22	21.74	22.14	22.20	22.50
GPRS (3 Tx slots)	25.86	26.35	26.46	21.60	22.09	22.20	22.50
GPRS (4 Tx slots)	24.58	25.07	25.23	21.57	22.06	22.22	22.50
EGPRS (1 Tx slot)	24.63	25.33	25.29	15.60	16.30	16.26	16.50
EGPRS (2 Tx slot)	24.02	24.31	24.38	18.00	18.29	18.36	18.50
EGPRS (3 Tx slot)	22.08	22.68	22.69	17.82	18.42	18.43	18.50
EGPRS (4 Tx slot)	20.64	21.77	21.70	17.63	18.76	18.69	19.00

<WIFI2.4G>

Test Mode	Frequency (MHz)	Conducted Power(dBm)	Maximum Tune-Up(dBm)	Power Setting
11B	2412	15.35	16.00	Default
	2437	15.63	16.00	Default
	2462	15.50	16.00	Default
11G	2412	14.00	14.00	Default
	2437	14.63	15.00	Default
	2462	14.30	15.00	Default
11N20	2412	13.44	14.00	Default

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11N40	2437	14.48	15.00	Default
	2462	14.19	15.00	Default
	2422	12.64	13.00	Default
	2437	12.78	13.00	Default
	2452	12.58	13.00	Default

<WIFI5.2G>

Test Mode	Frequency (MHz)	Conducted Power(dBm)	Maximum Tune-Up(dBm)	Power Setting
11A	5180	11.65	12.00	Default
	5220	11.41	12.00	Default
	5240	11.72	12.00	Default
11N20	5180	11.47	12.00	Default
	5220	11.26	12.00	Default
	5240	11.63	12.00	Default
11N40	5190	10.46	11.00	Default
	5230	10.38	11.00	Default
11AC20	5180	11.18	12.00	Default
	5220	11.36	12.00	Default
	5240	11.67	12.00	Default
11AC40	5190	10.30	11.00	Default
	5230	10.42	11.00	Default
11AC80	5210	9.27	10.00	Default

<WIFI5.8G>

Test Mode	Frequency (MHz)	Conducted Power(dBm)	Maximum Tune-Up(dBm)	Power Setting
11A	5745	10.99	11.00	Default
	5785	11.30	12.00	Default
	5825	11.75	12.00	Default
11N20	5745	10.88	11.00	Default
	5785	11.28	12.00	Default
	5825	11.49	12.00	Default
11N40	5755	9.83	10.00	Default
	5795	10.45	11.00	Default
11AC20	5745	10.79	11.00	Default
	5785	11.26	12.00	Default

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	5825	11.61	12.00	Default
11AC40	5755	9.83	10.00	Default
	5795	10.51	11.00	Default
11AC80	5775	9.32	10.00	Default

<Bluetooth>

Test Mode	Frequency (MHz)	Conducted Power(dBm)	Maximum Tune-Up(dBm)	Power Setting
DH5	2402	-0.89	0.11	Default
	2441	0.34	1.34	Default
	2480	-0.65	0.35	Default
2DH5	2402	-1.53	-0.53	Default
	2441	-0.32	0.68	Default
	2480	-1.27	-0.27	Default
3DH5	2402	-1.57	-0.57	Default
	2441	-0.34	0.66	Default
	2480	-1.32	-0.32	Default
BLE1M	2402	1.11	2.11	Default
	2441	2.28	3.28	Default
	2480	1.29	2.29	Default

Note:

1. Per KDB 447498 D01, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, where

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

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

The result is rounded to one decimal place for comparison

2. Base on the result of note1, RF exposure evaluation of 2.4G WIFI mode is required.

3. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.

4. Per KDB 248227 D01, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:

1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.

2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

11. Exposure Positions Consideration

Positions for SAR Test						
Function	Tune-up Power	Tune-up Power	Antenna to user		According to KDB 447498 Clause 4.3.1	SAR Testing Required?
	(dBm)	(mW)	Side	Distance	SAR Exclusion Threshold	
				(mm)	(mW)	
WIFI 2.4G	16	39.81	Front	5	10	Yes
			Back	5	10	Yes
			Left	23	44	No
			Right	265	2246	No
			Top	5	10	Yes
			Bottom	204	1636	No
WIFI 5.2G	12	15.85	Front	5	7	Yes
			Back	5	7	Yes
			Left	23	30	No
			Right	265	2216	No
			Top	5	7	Yes
			Bottom	204	1606	No
WIFI 5.8G	12	15.85	Front	5	7	Yes
			Back	5	7	Yes
			Left	23	30	No
			Right	265	2215	No
			Top	5	7	Yes
			Bottom	204	1605	No
GSM 850	25.5	354.81	Front	5	16	Yes
			Back	5	16	Yes
			Left	5	16	Yes
			Right	310	1611	No
			Top	5	16	Yes
			Bottom	170	832	No
GSM 1900	22.5	177.83	Front	5	11	Yes
			Back	5	11	Yes
			Left	5	11	Yes
			Right	310	2709	No
			Top	5	11	Yes
			Bottom	170	1309	No

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WCDMA Band 2	23	199.53	Front	5	11	Yes
			Back	5	11	Yes
			Left	5	11	Yes
			Right	310	2709	No
			Top	5	11	Yes
			Bottom	170	1309	No
WCDMA Band 5	24	251.19	Front	5	17	Yes
			Back	5	17	Yes
			Left	5	17	Yes
			Right	310	1597	No
			Top	5	17	Yes
			Bottom	170	826	No
LTE Band 5	24	251.19	Front	5	16	Yes
			Back	5	16	Yes
			Left	5	16	Yes
			Right	310	1613	No
			Top	5	16	Yes
			Bottom	170	833	No
LTE Band 41	24	251.19	Front	5	9	Yes
			Back	5	9	Yes
			Left	5	9	Yes
			Right	310	2695	No
			Top	5	9	Yes
			Bottom	170	1295	No

Note: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR

For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B)

1) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\}$ mW, for 100 MHz to 1500 MHz

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

According to KDB 447498 D01 Guidance v06 RF Exposure Procedures and Equipment Authorization Poldes vo6.

Test Mode	Frequency(MHz)	Conducted Power (dBm)	Tune up tolerance (±)	Maximum Tune-Up (dBm)	Maximum Tune-Up (mW)	Distance (mm)	Calculation Results	Limit
DH5	2402	-0.890	1	0.11	1.026	5	0.318	3
	2440	0.340	1	1.34	1.361	5	0.425	3
	2480	-0.650	1	0.35	1.084	5	0.341	3
2DH5	2404	-1.530	1	-0.53	0.885	5	0.274	3
	2440	-0.320	1	0.68	1.169	5	0.365	3
	2478	-1.270	1	-0.27	0.940	5	0.296	3
3DH5	2402	-1.570	1	-0.57	0.877	5	0.272	3
	2440	-0.340	1	0.66	1.164	5	0.364	3
	2480	-1.320	1	-0.32	0.929	5	0.293	3
BLE1M	2402	1.110	1	2.11	1.626	5	0.504	3
	2440	2.280	1	3.28	2.128	5	0.665	3
	2480	1.290	1	2.29	1.694	5	0.534	3

Result: No Standalone SAR test is required.

12. SAR Test Results Summary

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

Scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

Reported SAR(W/kg)= Measured SAR(W/kg) Scaling Factor*

2. Per KDB 447498 D01v06, for each exposure position, if the highest output channel reported SAR≤0.8W/kg, other channels SAR testing are not necessary

12.1. Body SAR Test Results

<LTE Band 5>

Band	RB Configure	Test Position	Gap (mm)	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR1g (W/kg)	Reported SAR1g (W/kg)	Plot
Band 5	1#Mid	Front	5	20525	836.5	23.01	24.00	1.256	0.01	0.530	0.666	
Band 5	1#Mid	Back	5	20525	836.5	23.01	24.00	1.256	-0.04	0.655	0.823	
Band 5	1#Mid	Left	5	20525	836.5	23.01	24.00	1.256	0.02	0.998	1.254	#1
Band 5	1#Mid	Left	5	20450	829	22.94	23.00	1.014	-0.02	0.580	0.588	
Band 5	1#0	Left	5	20600	844	22.87	23.00	1.030	-0.03	0.899	0.926	
Band 5	1#Mid	Right	5	20525	836.5	23.01	24.00	1.256	NA	NA	NA	
Band 5	1#Mid	Top	5	20525	836.5	23.01	24.00	1.256	0.05	0.218	0.274	
Band 5	1#Mid	Bottom	5	20525	836.5	23.01	24.00	1.256	NA	NA	NA	
Band 5	25#Mid	Left	5	20525	836.5	21.98	22.00	1.005	-0.01	0.259	0.260	

<LTE Band 41>

Band	RB Configure	Test Position	Gap (mm)	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR1g (W/kg)	Reported SAR1g (W/kg)	Plot
Band 41	1#Mid	Front	5	40140	2545	23.30	24.00	1.175	-0.04	0.177	0.208	
Band 41	1#Mid	Back	5	40140	2545	23.30	24.00	1.175	-0.05	0.176	0.207	
Band 41	1#Mid	Left	5	40140	2545	23.30	24.00	1.175	-0.07	0.388	0.456	#2
Band 41	1#Mid	Right	5	40140	2545	23.30	24.00	1.175	NA	NA	NA	
Band 41	1#Mid	Top	5	40140	2545	23.30	24.00	1.175	0.01	0.03	0.029	

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41				0								
Band 41	1#Mid	Bottom	5	40140	2545	23.30	24.00	1.175	NA	NA	NA	
Band 41	50#0	Left	5	40140	2545	22.13	23.00	1.222	0.09	0.157	0.192	

<WCDMA Band2>

Band	Test Position	Gap (mm)	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR1g (W/kg)	Reported SAR1g (W/kg)	Plot
Band 2	Front	5	9400	1880	22.39	23	1.151	-0.18	0.321	0.369	
Band 2	Back	5	9400	1880	22.39	23	1.151	-0.15	0.511	0.588	#3
Band 2	Left	5	9400	1880	22.39	23	1.151	-0.03	0.398	0.458	
Band 2	Right	5	9400	1880	22.39	23	1.151	NA	NA	NA	
Band 2	Top	5	9400	1880	22.39	23	1.151	0.12	0.058	0.067	
Band 2	Bottom	5	9400	1880	22.39	23	1.151	NA	NA	NA	

<WCDMA Band5>

Band	Test Position	Gap (mm)	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR1g (W/kg)	Reported SAR1g (W/kg)	Plot
Band 5	Front	5	4132	826.4	23.17	24.00	1.211	0.04	0.185	0.224	#4
Band 5	Back	5	4132	826.4	23.17	24.00	1.211	0.16	0.143	0.173	
Band 5	Left	5	4132	826.4	23.17	24.00	1.211	0.09	0.134	0.162	
Band 5	Right	5	4132	826.4	23.17	24.00	1.211	NA	NA	NA	
Band 5	Top	5	4132	826.4	23.17	24.00	1.211	0.12	0.024	0.029	
Band 5	Bottom	5	4132	826.4	23.17	24.00	1.211	NA	NA	NA	

<GSM850>

Band	Test Position	Gap (mm)	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR1g (W/kg)	Reported SAR1g (W/kg)	Plot
GSM850	Front	5	190	836.6	25.19	25.50	1.074	-0.18	0.112	0.120	
GSM850	Back	5	190	836.6	25.19	25.50	1.074	0.12	0.241	0.259	#5
GSM850	Left	5	190	836.6	25.19	25.50	1.074	0.05	0.140	0.150	
GSM850	Right	5	190	836.6	25.19	25.50	1.074	NA	NA	NA	
GSM850	Top	5	190	836.6	25.19	25.50	1.074	0.15	0.024	0.026	
GSM850	Bottom	5	190	836.6	25.19	25.50	1.074	NA	NA	NA	

<GSM1900>

Band	Test Position	Gap (mm)	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR1g (W/kg)	Reported SAR1g (W/kg)	Plot
GSM1900	Front	5	810	1909.8	22.22	22.50	1.067	-0.01	0.168	0.179	
GSM1900	Back	5	810	1909.8	22.22	22.50	1.067	0.02	0.409	0.436	#6
GSM1900	Left	5	810	1909.8	22.22	22.50	1.067	-0.05	0.441	0.470	
GSM1900	Right	5	810	1909.8	22.22	22.50	1.067	NA	NA	NA	
GSM1900	Top	5	810	1909.8	22.22	22.50	1.067	-0.19	0.050	0.053	
GSM1900	Bottom	5	810	1909.8	22.22	22.50	1.067	NA	NA	NA	

<WIFI2.4G>

Band	Test Position	Gap (mm)	Frequency (MHz)	Conducted Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR1g (W/kg)	Reported SAR1g (W/kg)	Plot
11B	Front	5	2437	15.63	16.00	1.089	-0.05	0.127	0.138	
11B	Back	5	2437	15.63	16.00	1.089	-0.12	0.037	0.040	
11B	Left	5	2437	15.63	16.00	1.089	0.17	0.028	0.030	
11B	Right	5	2437	15.63	16.00	1.089	NA	NA	NA	
11B	Top	5	2437	15.63	16.00	1.089	-0.15	0.128	0.139	#7
11B	Bottom	5	2437	15.63	16.00	1.089	NA	NA	NA	

<WIFI5.2G>

Band	Test Position	Gap (mm)	Frequency (MHz)	Conducted Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR1g (W/kg)	Reported SAR1g (W/kg)	Plot
11A	Front	5	5240	11.72	12	1.067	0.11	0.117	0.125	
11A	Back	5	5240	11.72	12	1.067	-0.09	0.049	0.052	
11A	Left	5	5240	11.72	12	1.067	-0.01	0.011	0.012	
11A	Right	5	5240	11.72	12	1.067	NA	NA	NA	
11A	Top	5	5240	11.72	12	1.067	-0.12	0.242	0.258	#8
11A	Bottom	5	5240	11.72	12	1.067	NA	NA	NA	

<WIFI5.8G>

Band	Test Position	Gap (mm)	Frequency (MHz)	Conducted Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR1g (W/kg)	Reported SAR1g (W/kg)	Plot
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11A	Front	5	5825	11.75	12	1.059	-0.05	0.181	0.192	
11A	Back	5	5825	11.75	12	1.059	-0.02	0.132	0.140	
11A	Left	5	5825	11.75	12	1.059	0.01	0.010	0.011	
11A	Right	5	5825	11.75	12	1.059	NA	NA	NA	
11A	Top	5	5825	11.75	12	1.059	-0.01	0.274	0.290	#9
11A	Bottom	5	5825	11.75	12	1.059	NA	NA	NA	

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13. Simultaneous Transmission Analysis

13.1. Simultaneous TX SAR Considerations

No.	Applicable Simultaneous Transmission
1.	LTE Band5 + WIFI5.8G

Note: LTE is on one antenna, and WIFI is on another antenna. The maximum value on the LTE antenna and WIFI are selected for co-transmission evaluation. Therefore, LTE Band 5 and WIFI5.8G are selected for co-transmission evaluation.

LTE Band5 SAR _{1g} (W/Kg)	WIFI5.8G SAR _{1g} (W/Kg)	MAX. Σ SAR _{1g} (W/Kg)	SAR _{1g} Limit (W/Kg)
0.290	1.254	1.544	1.6

14. Measurement Uncertainty

Measurement uncertainty evaluation for IEEE Std 1528-2013 SAR test (Frequency Range: 3MHz-3GHz)

DASY5 Uncertainty Budget According to IEEE 1528-2013 (0.3 - 3 GHz range)								
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff
Measurement System								
Probe Calibration	11.0	N	2	1	1	5.5	5.5	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	1.0	R	1.732	1	1	0.6	0.6	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	6.0	R	1.732	1	1	3.4	3.4	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	2.9	R	1.732	1	1	1.7	1.7	∞
Max. SAR Eval.	2.0	R	1.732	1	1	1.2	1.2	∞
System validation source								
Deviation of experimental source from numerical source	4.7	N	1	1	1	4.7	4.7	∞
Input power and SAR drift Measurement	5.0	R	1.732	1	1	2.9	2.9	∞
other source contributions	0.0	N	1	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.1	R	1.732	1	1	3.5	3.5	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.2	0.1	5
Liquid Conductivity (target)	5.0	R	1.732	0.7	0.7	2.3	2.0	∞

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				8	1			
Liquid Conductivity (mea.)	2.5	R	1.732	0.7 8	0.7 1	1.1	1.0	∞
Temp. unc. - Conductivity	3.7	R	1.732	0.7 8	0.7 1	1.7	1.5	∞
Liquid Permittivity Repeatability	0.2	N	1	0.2 3	0.2 6	0.0	0.0	5
Liquid Permittivity (target)	5.0	R	1.732	0.2 3	0.2 6	0.7	0.8	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.2 3	0.2 6	0.3	0.4	∞
Temp. unc. - Permittivity	0.9	R	1.732	0.2 3	0.2 6	0.1	0.1	∞
Combined Std. Uncertainty						12.3%	12.2%	
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						24.6%	24.4%	

Measurement uncertainty evaluation for IEEE Std 1528-2013 SAR test (Frequency Range: 3 GHz – 6 GHz)

DASY5 Uncertainty Budget According to IEEE 1528-2013 (3 - 6 GHz range)								
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff
Measurement System								
Probe Calibration	13.1	N	2	1	1	6.55	6.55	∞
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2	∞
Linearity	4.70	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6	∞
Modulation Response	5.97	R	1.732	1	1	3.4	3.4	∞
Readout Electronics	0.30	N	1	1	1	0.3	0.3	∞
Response Time	0.00	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.60	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9	∞
Max. SAR Eval.	4.00	R	1.732	1	1	2.3	2.3	∞
System validation source								

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Deviation of experimental source from numerical source	4.68	N	1	1	1	4.7	4.7	∞
Input power and SAR drift Measurement	5.00	R	1.732	1	1	2.9	2.9	∞
other source contributions	0.0	N	1	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.55	R	1.732	1	1	3.78	3.78	∞
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.20	N	1	0.78	0.71	0.2	0.1	5
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.71	2.3	2.0	∞
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.70	R	1.732	0.78	0.71	1.7	1.5	∞
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8	∞
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	0.86	R	1.732	0.23	0.26	0.1	0.1	∞
Combined Std. Uncertainty						12.9%	12.8%	
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						25.8%	25.6%	

Note:

The main report is end here and the other Appendix (A,B,C,D) will be submitted separately.

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

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