

FCC SAR Compliance Test Report

For

TECNO MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET

FOTAN NT HONGKONG

Model: A6612L

Test Engineer: Xiao Kang

Report Number: WSCT-ANAB-R&E260600050A-SAR

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Check By: Wang Xiaoling

Approved By: Li Huaibi

Prepared By:

World Standardization Certification & Testing Group
(Shenzhen) Co., Ltd.
Building A-B, Baoli'an Industrial Park, No. 58 and
60, Tangtuo Avenue, Shiyao Street, Bao'an District,
Shenzhen City, Guangdong Province, China
Tel: +86-755-26996192
Fax: +86-755-86376605

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Modified History

REV.	Modification Description	Issued Date	Remark
REV.1.0	Initial Test Report Relesse	29 June 2026	Li Huaibi

1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. Shenzhen Timeway Testing Laboratories does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

1.2 Application details

Date of receipt of test item: 2026-06-08
Start of test: 2026-06-08
End of test: 2026-06-26

1.3 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for KN4n is as below:

Band	Position Test Points	MAX Reported SAR _{1g} (W/kg)
GSM850	Head	0.196
GSM1900	Head	0.189
UMTS Band 2	Head	0.575
UMTS Band 4	Head	0.652
UMTS Band 5	Head	0.248
LTE Band 2	Head	0.537
LTE Band 4	Head	0.585
LTE Band 5	Head	0.254
LTE Band 7	Head	0.660
LTE Band 12	Head	0.155
LTE Band 17	Head	0.206
LTE Band 26(814-824)	Head	0.210
LTE Band 26(824-849)	Head	0.212
LTE Band 38	Head	0.764
LTE Band 41	Head	0.817
LTE Band 66	Head	0.522
BT	Head	0.122
Wi-Fi 2.4G	Head	0.424

Band	Position Test Points	MAX Reported SAR _{1g} (W/kg)
GSM850	Body & Hotspot 10mm	0.177
GSM1900	Body & Hotspot 10mm	0.397
UMTS Band 2	Body & Hotspot 10mm	0.161
UMTS Band 4	Body & Hotspot 10mm	0.162
UMTS Band 5	Body & Hotspot 10mm	0.258
LTE Band 2	Body & Hotspot 10mm	0.152
LTE Band 4	Body & Hotspot 10mm	0.135
LTE Band 5	Body & Hotspot 10mm	0.244
LTE Band 7	Body & Hotspot 10mm	0.097
LTE Band 12	Body & Hotspot 10mm	0.253
LTE Band 17	Body & Hotspot 10mm	0.284
LTE Band 26	Body & Hotspot 10mm	0.269
LTE Band 26	Body & Hotspot 10mm	0.273
LTE Band 38	Body & Hotspot 10mm	0.141
LTE Band 41	Body & Hotspot 10mm	0.273
LTE Band 66	Body & Hotspot 10mm	0.107
BT	Body & Hotspot 10mm	0.030
Wi-Fi 2.4G	Body & Hotspot 10mm	0.100
Maximum Max. SAR Level(s) Measured: (Limit: 1.6W/Kg):	LTE Band 41	0.817 W/kg1gHeadTissue
	WIFI2.4G	0.424 W/kg1gHeadTissue
	GSM1900	0.397 W/kg1gBodyTissue
	WIFI2.4G	0.100 W/kg1gBodyTissue
The Head highest simultaneous SAR :		1.067 W/kg1gHeadTissue
The Body highest simultaneous SAR :		0.483 W/kg1gBodyTissue

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontraolled exposure limits of 1.6 W/Kg as averaged over any 1g tissue according to the FCC rule the ANSI/IEEE C95.1:2005, the NCRP Report Number 86 for uncontrolled environment, according to the Industry Canada Radio Standards Specification RSS-102 for General Population/Uncontrolled exposure, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013.

1.4 EUT Information

Device Information:	
Product Type:	Mobile Phone
Model:	A6612L
Trade Name:	TECNO
Software version:	A6612L-A553
Hardware version:	V1.0
Device Type:	Portable device
Exposure Category:	uncontrolled environment / general population
Production Unit or Identical Prototype:	Production Unit
Antenna Type :	Integral Antenna
Device Operating Configurations:	
Supporting Mode(s) :	GSM850, PCS 1900 WCDMA B2/ WCDMA B4/ WCDMA B5 LTE Band 2/ LTE Band 4/ LTE Band 5 LTE Band 7/LTE Band 12/ LTE Band 17/ LTE Band 26 LTE Band 38/LTE Band 41/ LTE Band 66/Wi-Fi/BT
Modulation:	GSM/GPRS: GMSK EGPRS: 8PSK WCDMA: QPSK HSDPA/HSUPA: QPSK /16QAM LTE: QPSK/16QAM BT:GFSK, $\pi/4$ -DQPSK, 8-DPSK DSSS (DBPSK, DQPSK, CCK) for IEEE 802.11b IEEE 802.11g/n: OFDM
Operating Frequency Range(s) :	GSM850: 824-849MHz (TX), 869-894MHz (RX); PCS1900: 1850-1910MHz (TX), 1930-1990MHz (RX); WCDMA Band2: 1850-1910MHz (TX), 1930-1990MHz (RX); WCDMA Band4: 1710-1755MHz (TX), 2110-2155MHz (RX); WCDMA Band5: 824-849MHz (TX), 869-894MHz (RX); LTE Band2: 1850-1910MHz (TX), 1930-1990MHz (RX); LTE Band4: 1710-1755MHz (TX), 2110-2155MHz (RX); LTE Band5: 824-849MHz (TX), 869-894MHz (RX); LTE Band7: 2500-2570MHz (TX), 2620-2690MHz (RX); LTE Band12: 699-716MHz (TX), 729-746MHz (RX); LTE Band17: 704-716MHz (TX), 734-746MHz (RX); LTE Band26: 814~824MHz(TX), 859~869MHz(RX); LTE Band26: 824~849MHz(TX), 869~894MHz(RX); LTE Band38: 2570-2620MHz(TX), 2570-2620MHz(RX); LTE Band41: 2535-2655 MHz(TX), 2535-2655 MHz(RX); LTE Band66:1710-1780 MHz(TX), 2110-2200 MHz(RX); BT: 2402MHz~2480MHz 2.4GWi-Fi:2412MHz~2462MHz (802.11b/g/n(HT20))

Antenna gain:	GSM 850/WCDMA B5/LTE B5/LTE B26:-2.27dbi PCS 1900/WCDMA B2/LTE B2:0.24dbi WCDMA B4/LTE B4/B66:-0.38dbi LTE B7/B38/B41:-0.26dbi LTE B12/B17:-2.46dbi 2.4GWi-Fi/BT:-0.3dBi
Radiated Power (EIRP/ERP) Limit	GSM 850/WCDMA B5/LTE B5/LTE B26: 7.00W(38.45dBm) LTE B26(Part 90):100W(50dBm) PCS 1900/WCDMA B2/LTE B2: 2.00W(33.01dBm) WCDMA B4/LTE B4/ LTE B66: 1.00W(30.00dBm) LTE B7/LTE B38/LTE B41: 2.00W(33.01dBm) LTE B12/B17: 3.00W(34.77dBm)
Power Source:	Rechargeable Li-ion Polymer Battery Model: BL-58CI Nominal Voltage: 3.87V Rated Capacity: 5850mAh/22.64Wh Typical Capacity: 6000mAh/23.22Wh Limited Charge Voltage: 4.45V

- Note:
1. The EUT is a Mobile Phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA, LTE, and both SIM card slots share the same transceiver, so only SIM1 is tested in this report.
 2. The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.
 3. N/A stands for no applicable.
 4. Antenna gain provided by the customer.

2 Testing laboratory

Test Site	World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.
Laboratory	Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China
Tel:	+86-755-26996192
Fax:	+86-755-86376605

3 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017

USA	ANAB (Certificate Number: AT-3951)
China	CNAS (Registration Number: L3732)
Canada	ISED (CAB identifier: CN0178)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct-cert.com>

4 Test Environment

	Required	Actual
Ambient temperature:	18 – 25 °C	22 ± 2 °C
Tissue Simulating liquid:	22 ± 2 °C	22 ± 2 °C
Relative humidity content:	30 – 70 %	30 – 70 %

5 Applicant and Manufacturer

Applicant/Client Name:	TECNO MOBILE LIMITED
Applicant Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer Name:	TECNO MOBILE LIMITED
Manufacturer Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

6 Test standards:

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	IEC/IEEE 62209-1528	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate in the Human Head from Wireless Communications Devices: Measurement Techniques
3	KDB447498 D04	Interim General RF Exposure Guidance v01
4	KDB865664 D01	SAR measurement 100MHz to 6GHz v01r04
5	KDB865664 D02	RF Exposure Reporting v01r02
6	KDB941225 D01	3G SAR Procedures v03r01
7	KDB941225 D05	SAR for LTE Devices v02r05
8	KDB248227 D01	802.11 Wi-Fi SAR v02r02
9	KDB941225 D06	Hotspot Mode v02r01
10	KDB648474 D04	Handset SAR v01r03
11	KDB690783 D01	SAR Listings on Grant v01r03

6.1 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain/Body/Arms/Legs)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Heads/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

The limit applied in this test report is shown in bold letters

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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

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

6.2 SAR Definition

Specific Absorption Rate is defined as 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).

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

SAR is expressed in units of watts per kilogram (W/kg). SAR can be related to the electric field at a point by

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

where:

σ = conductivity of the tissue (S/m)

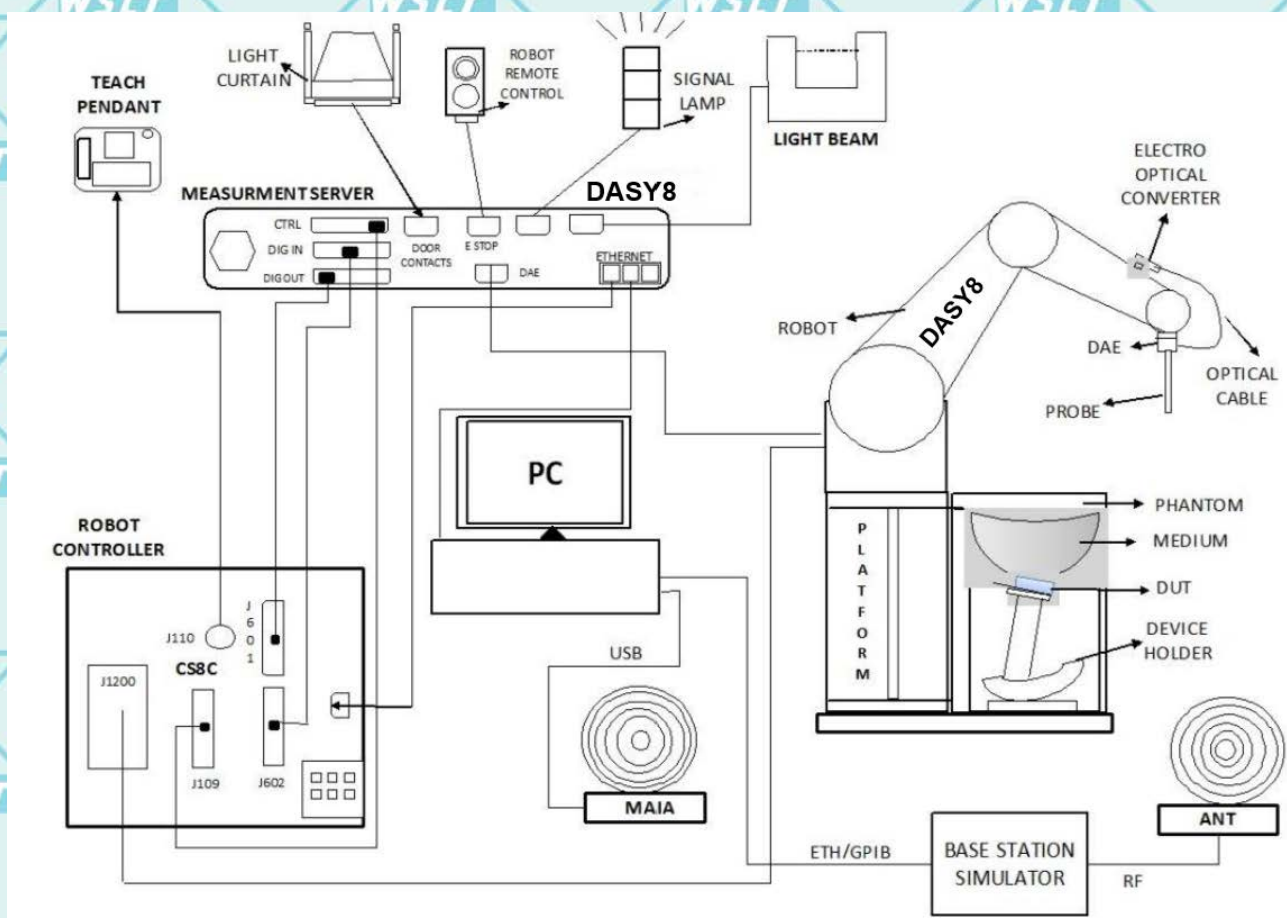
ρ = mass density of the tissue (kg/m³)

E = rms electric field strength (V/m)

7 SAR Measurement System

7.1 The Measurement System

DASY8 is a flexible, high-precision near-field scanner optimized for automated measurements in free-space and tissue simulating liquids (TSL), using the most advanced probes covering the frequency range from 3 kHz to 110 GHz. The software enables point, area, and volume measurements and conformal scanning of complex geometries.



The DASY8 SAR module consists of an isotropic dosimetric probe (SAR) mounted on the TX2 precision robot, which allows field scanning inside anthropomorphic phantoms filled with tissue-simulating liquids. The probes are miniaturized, sensitive, isotropic, linear, stable and calibrated with precise boundary compensation. The spatial accuracy of probe positioning within the phantom is better than 0.2 mm. Scanning is optimized and adaptive to the induced field. The spatial SAR peak is determined without reconstruction.

7.2 Robot

The DASY8 system uses the high-precision industrial robots TX2-60L and TX2-90XL from Stäubli SA (France). The TX2 family of robots provides the ideal combination of speed, rigidity, size, and precision:

- High precision (repeatability 0.03 mm)
- High reliability and low maintenance costs (industrial design)
- ELF interference (motor control fields are shielded by the closed metallic construction)
- Hygienic encapsulated 6-axis arm enabled by a hollow shaft gearbox, no external cables.



7.3 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.

For the measurements the Specific Dosimetric E-Field Probe EX3DV4 with following specifications is used



Frequency: 4MHz – 10GHz ;

Linearity: ± 0.2 dB (30MHz – 10GHz)

Dynamic Range: $10\mu\text{W/g}$ – 100 mW/g

Linearity: ± 0.2 dB (noise: typically $< 1\mu\text{W/g}$)

Directivity (typical): ± 0.1 dB in TSL (rotation around probe axis)
 ± 0.3 dB in TSL (rotation normal to probe axis)

Sensor Arrangement	Triangular
Connector Angle	46.9°
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm

7.4 DAE

DAE4ip– Data Acquisition Electronics 4 with Integrated Power

Data Acquisition Electronics 4 with an integrated power supply for time unlimited measurements.

Performance:

- Measurement range: -100—+300 mV (16-bit resolution and two range settings: 4 mV, 400 mV)
- Input offset voltage: <5 μ V (with auto zero)
- Input resistance: 200M Ω
- Input bias current: <50 fA
- Power supply: integrated (from the DASY8 measurement server)
- Dimensions (L $\times$ W $\times$ H): 60 $\times$ 60 $\times$ 68 mm
- Calibration: ISO/IEC 17025 calibration service available.



7.5 Phantom

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEC/IEEE 62209-1528. It enables the dosimetric evaluation of left—and right-hand phone usage as well as body-mounted usage at the flat phantom region. A cover prevents the liquid from evaporating. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.



Material	Vinyl ester, fiberglass reinforced (VE-GF)
Liquid Compatibility	The phantom shell is compatible with SPEAG's tissue-simulating liquids (sugar and oil-based). However, using other liquids may render the phantom warranty void (see note or consult SPEAG support).
Shell Thickness	$2 \pm 0.2\text{mm}$ ($6 \pm 0.2\text{mm}$ at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Support	DASY6/8: standard-size platform slot
Accessories	DASY52 stand-alone: SPEAG standard phantom table Mounting Device and Adaptors

7.6 Device Holder

The DASY instrument holder is designed to accommodate the various positions specified in the standard. It has two scales for instrument rotation (with respect to the body axis) and instrument tilt (with respect to the line between the ear reference points). The center of rotation for both scales is the Ear Reference Point (ERP). This eliminates the need to reposition the instrument when changing angles.

The DASY instrument holder is made of low-loss POM material with the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material in the immediate vicinity of the device was reduced because measurements indicated that the influence of the clamp on the test results could be reduced.



Device holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.

7.7 SAR Scan General Requirement

According to kdb865664 D01 v01r04:

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

		≤ 3 GHz	>3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 mm $\pm$ 1 mm	$\frac{1}{2}\delta\ln(2)$ mm $\pm$ 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: Δx Area, Δy Area		≤ 2 GHz: ≤ 15 mm 2-3 GHz: ≤ 12 mm	3- 4 GHz: ≤ 12 mm 4- 6 GHz: ≤ 10 mm
Maximum zoom scan spatial resolution: Δx Zoom, Δy Zoom		≤ 2 GHz: ≤ 8 mm 2-3 GHz: ≤ 5 mm*	3- 4 GHz: ≤ 5 mm* 4- 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)	≤ 5 mm	3- 4 GHz: ≤ 4 mm 4- 5 GHz: ≤ 3 mm 5- 6 GHz: ≤ 2 mm
	graded grid Δz Zoom (1): between 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
	Δz Zoom (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z$ Zoom (n-1) mm	
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 IEEE Std 1528-2013 for details.

* When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB Publication 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.

7.8 Measurement procedure

Power Drift :

All SAR tests were performed with a fully charged battery under the DUT and transmitting at maximum output power. The DASY measurement software uses the power reference measurement and power drift measurement procedures to monitor the power drift of the DUT during SAR testing. Both methods measure the field value at a specified reference position before and after the SAR test. The software calculates the field difference in dB. If the power drift exceeds 5%, the SAR is retested.

Area scan:

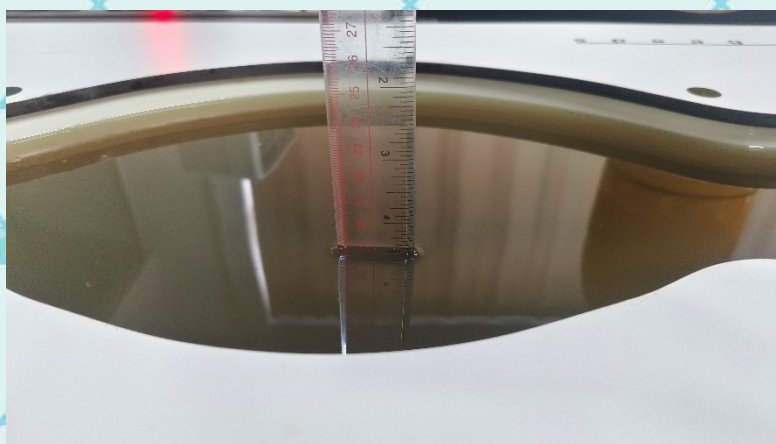
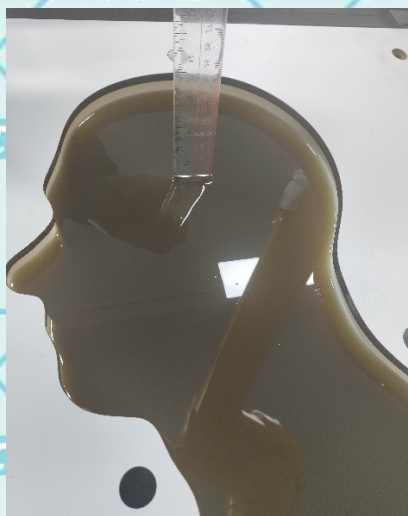
All antennas and radiating structures that may contribute to the measured SAR or influence the SAR distribution must be included in the area scan. The areas of the transmitter(s), antenna(s) and host device, when projected onto the phantom, must be within the area scan measurement region. The area scan measurement resolution must enable the extrapolation algorithms of the SAR system to correctly identify the peak SAR location(s) for subsequent zoom scan measurements to correctly determine the 1-g SAR. Area scans are performed at a constant distance from the phantom surface, determined by the measurement frequencies.

Zoom Scan:

Except when area scan based 1-g SAR estimation applies, a zoom scan measurement is required at the highest peak SAR location determined in the area scan to determine the 1-g SAR. When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR. The zoom scan volume must be larger than the required minimum dimensions described 7.7. There must be at least one measurement point within the first 5 mm from the phantom surface for measurements ≤ 3 GHz, two measurement points for measurements ≤ 5 GHz and three measurement points for measurements above 5 GHz. When graded grids are used, which only applies in the direction normal to the phantom surface, the initial grid separation closest to the phantom surface and subsequent graded grid increment ratios must satisfy the required protocols in 7.7. The 1-g SAR averaging volume must be fully contained within the zoom scan measurement volume boundaries; otherwise, the measurement must be repeated by shifting or expanding the zoom scan volume. The similar requirements also apply to 10-g SAR measurements.

7.9 Tissue simulating liquids: dielectric properties

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 10\%$ of the target values.



Simulating Head Liquid for 5G(HBBL600-10000MHz V6), Manufactured by SPEAG:

Ingredients	(% by weight)
Water	50-65%
Mineral oil	10-30%
Emulsifiers	8-25%
Sodium salt	0-1.5%

7.10 Tissue simulating liquids: parameters

Used Target Frequency	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
	ϵ_r (+/-10%)	σ (S/m) (+/-10%)	ϵ_r	σ (S/m)		
750MHz Head	41.90 (37.71~46.09)	0.89 (0.81~0.97)	43.90	0.885	21.6°C	2026-06-08
835MHz Head	41.50 (37.35~45.65)	0.91 (0.82~1.00)	43.60	0.914	21.6°C	2026-06-10
1750MHz Head	40.10 (36.09~44.11)	1.37 (1.24~1.50)	41.90	1.34	21.6°C	2026-06-12
1900MHz Head	40.00 (36.00~44.00)	1.40 (1.26~1.54)	41.70	1.44	21.6°C	2026-06-15
2450MHz Head	39.20 (35.28~43.12)	1.80 (1.62~1.98)	41.00	1.82	21.6°C	2026-06-17
2550MHz Head	39.10 (35.19~43.01)	1.91 (1.72~2.1)	40.80	1.90	21.6°C	2026-06-22
2600MHz Head	39.00 (35.10~42.90)	1.96 (1.77~2.15)	40.70	1.94	21.6°C	2026-06-24

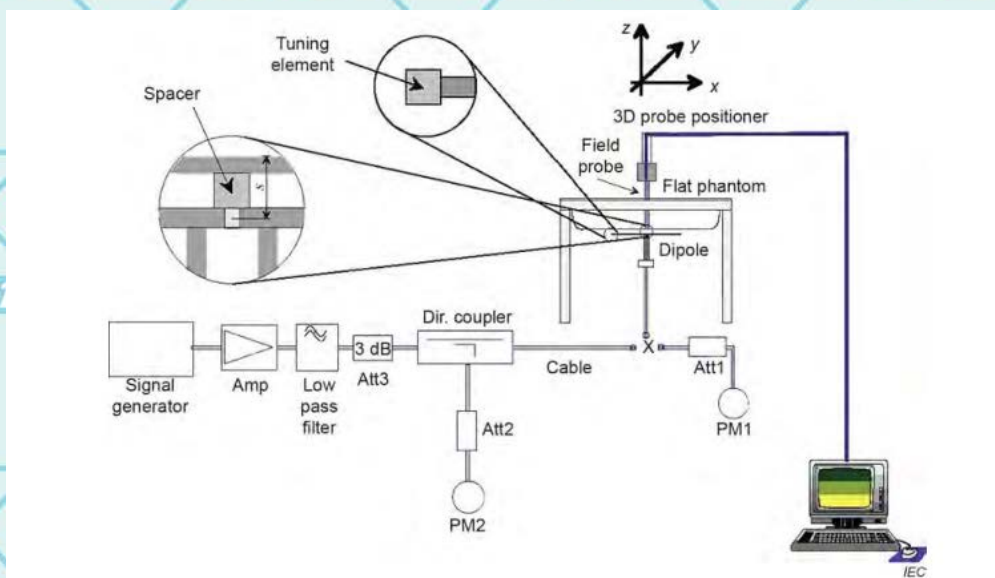
ϵ_r = Relative permittivity, σ = Conductivity

8 System Check

8.1 System check procedure

The System check is performed by using a System check dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100 mW. To adjust this power a power meter is used. The power sensor is connected to the cable before the System check to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the validation to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

System check results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system.



8.2 System check results

The system Check is performed for verifying the accuracy of the complete measurement system and performance of the software. The following table shows System check results for all frequency bands and tissue liquids used during the tests (plot(s) see annex A).

System Check	Target SAR (1W) (+/-10%)		Measured SAR (Normalized to 1W)		Liquid Temp.	Test Date
	1-g (W/kg)	10-g (W/kg)	1-g (W/kg)	10-g (W/kg)		
D750V3 Body	8.46 (7.62~9.30)	5.70 (5.13~6.27)	8.58	5.70	21.6°C	2026-06-08
D835V2 Body	9.68 (8.72~10.64)	6.44 (5.80~7.08)	9.81	6.42	21.6°C	2026-06-10
D1750V2 Body	36.40 (32.76~40.04)	19.60 (17.64~21.56)	36.10	19.60	21.6°C	2026-06-12
D1900V2 Body	39.70 (35.73~43.67)	21.00 (18.90~23.10)	40.40	21.10	21.6°C	2026-06-15
D2450V2 Body	52.70 (47.16~57.64)	24.00 (21.60~26.40)	53.60	25.20	21.6°C	2026-06-17
D2550V2 Body	54.10 (48.69~59.51)	24.70 (22.23~27.17)	55.80	25.60	21.6°C	2026-06-22
D2600V2 Body	55.90 (49.77~60.83)	24.60 (22.14~27.06)	55.90	25.60	21.6°C	2026-06-24

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

2. The actual forward power output to the dipole antenna is 20dbm(100mw), so the measured value differs ten times from the table

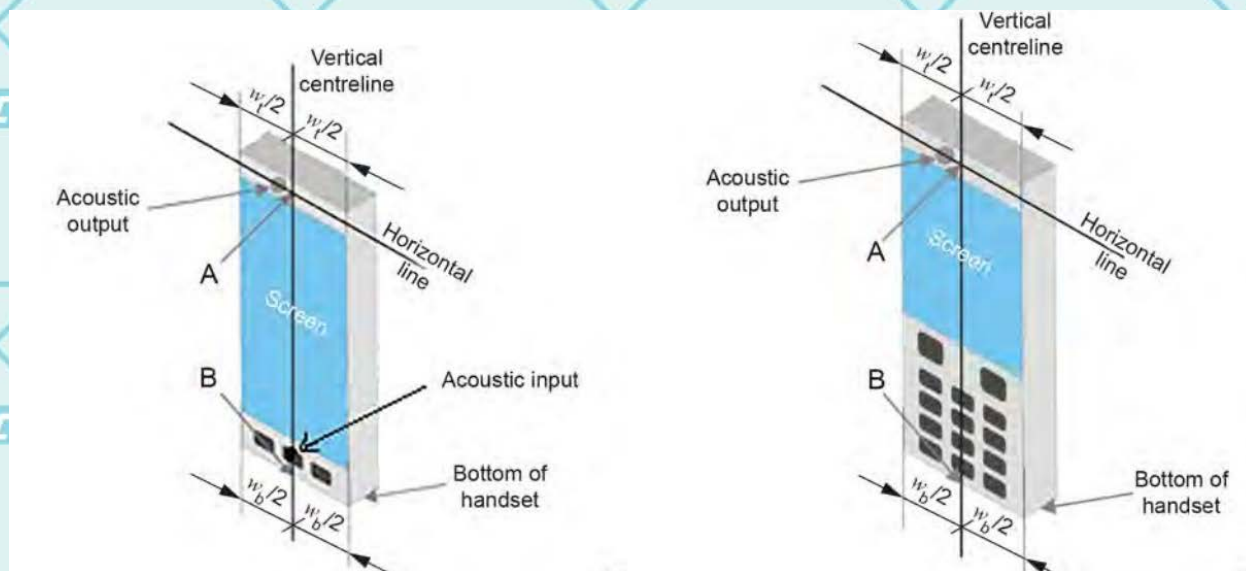
9 Test Position Configurations

9.1 Head Exposure Conditions

According to the IEEE-1528, the head phantom needs to test both "Cheek" and "Tilt" positions. Configure the DUT for voice operation, if necessary. For example, for a DUT with a flip, swivel, or slide cover piece, open the cover if this is consistent with voice operation. If the DUT can also be used with the cover closed, both configurations shall be tested.

Define two imaginary lines on the DUT, the vertical centreline and the horizontal line, relative to the DUT in vertical orientation as shown in Figure

The vertical centreline passes through two points on the front side of the DUT: the midpoint of the width w_t of the DUT at the level of the acoustic output (Point A in Figure), and the midpoint of the width w_b at the bottom of the DUT (Point B). The horizontal line is perpendicular to the vertical centerline, and passes through the centre of the acoustic output (Figure). The two lines intersect at Point A. Note that for many DUTs, Point A coincides with the centre of the acoustic output. However, the acoustic output could be located elsewhere on the horizontal line. Also note that the vertical centreline is not necessarily parallel to the front face of the DUT, especially for clamshell DUTs, DUTs with flip cover pieces, and other irregularly shaped DUTs.



Vertical and horizontal reference lines and reference points A and B on two example device types: a full touch-screen smart phone (left) and a DUT with a keypad (right)

w_t Width of the DUT at the level of the acoustic output

w_b Width of the bottom of the DUT

A Midpoint of the width w_t of the DUT at the level of the acoustic output

B Midpoint of the width w_b of the bottom of the DUT

Cheek position:

Position the DUT close to the surface of the phantom such that Point A is on the (virtual) extension of the line passing through points RE (right-ear ear reference point) and LE (left-ear ear reference point) on the phantom. The plane determined by the vertical centreline and the horizontal line of the DUT shall be parallel to the sagittal plane of the phantom.



Tilt position:

Place the DUT in the cheek position. While maintaining the orientation of the DUT, move the DUT away from the pinna along the line passing through RE and LE far enough to allow a rotation of the DUT away from the cheek by 15°. Rotate the DUT around the horizontal line by 15°.

While maintaining the orientation of the DUT, move the DUT towards the phantom on a line passing through RE and LE until any part of the DUT touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g. an extended antenna in contact with the back of the head phantom, the angle of the DUT shall be reduced. In this case, the tilt position is obtained if any part of the DUT is in contact with the pinna and a second point on the DUT is in contact with the phantom, e.g. the antenna in contact with the back of the head.

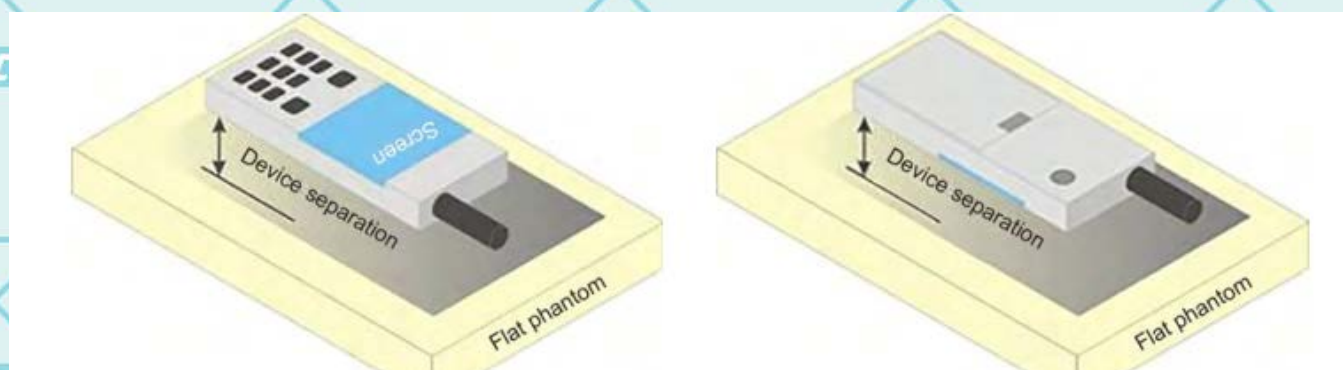


9.2 Body Exposure Condition

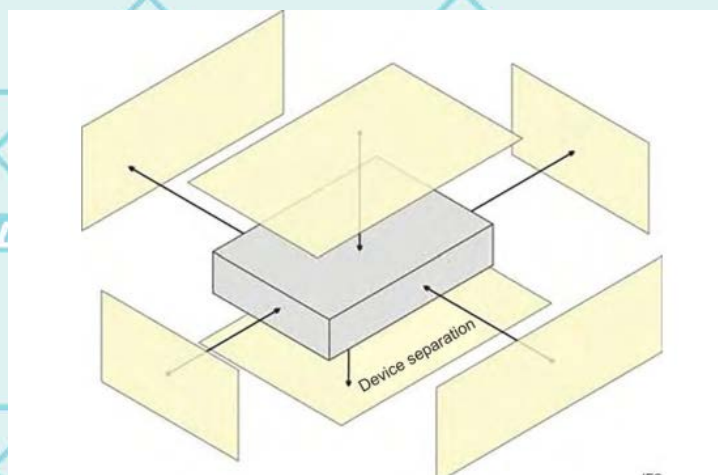
According to 447498 D04

Devices that support transmission while used with body-worn accessories must be tested for SAR compliance related to each body-worn condition of use. SAR evaluation is required for body-worn accessories supplied with the device they are attached to.

The general informing principle is that the selected test configurations must conservatively capture the various body-worn accessory use conditions expected by users. For instance, devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, must be tested for SAR compliance using a conservative minimum test separation distance not to exceed 5 mm for all use conditions required by the device.



Test positions for body-worn devices



Possible test positions for a generic device

Testing of all six faces of the DUT (see Figure) might not be required; justification shall be provided when omitting testing of some faces.

10 SAR Test Configuration

10.1 GSM Test Configurations

SAR tests for GSM850 and GSM1900, a communication link is set up with a base station by air link. Using CMU200 the power level is set to “5” and “0” in SAR of GSM850 and GSM1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

10.2 UMTS Test Configuration

1) Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all “1”s for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the Headset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) WCDMA

a. Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1”s. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

b. Body SAR Measurements

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1”s. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the Headset with 12.2 kbps RMC as the primary mode

3) HSDPA

SAR for body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in

the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

Per KDB941225 D01, the 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures for the highest reported SAR body exposure configuration in 12.2 kbps RMC. HSDPA should be configured according to UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HAPRQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission condition, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. The β_c and β_d gain factors for DPCCH and DPDCH were set according to the values in the below table, β_{hs} for HS-DPCCH is set automatically to the correct value when ΔACK , $\Delta NACK$, $\Delta CQI = 8$. The variation of the β_c / β_d ratio causes a power reduction at sub-tests 2 - 4.

Sub-test ^c	β_c ^c	β_d ^c	β_d (SF) ^c	β_c / β_d ^c	β_{hs} (1) ^c	CM(dB)(2) ^c	MPR (dB) ^c
1 ^c	2/15 ^c	15/15 ^c	64 ^c	2/15 ^c	4/15 ^c	0.0 ^c	0 ^c
2 ^c	12/15(3) ^c	15/15(3) ^c	64 ^c	12/15(3) ^c	24/15 ^c	1.0 ^c	0 ^c
3 ^c	15/15 ^c	8/15 ^c	64 ^c	15/8 ^c	30/15 ^c	1.5 ^c	0.5 ^c
4 ^c	15/15 ^c	4/15 ^c	64 ^c	15/4 ^c	30/15 ^c	1.5 ^c	0.5 ^c

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 3: For subtest 2 the β_c / β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.:

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI's
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

4)HSUPA

SAR for body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

Per KDB941225 D01v03, the 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures for the highest reported body exposure SAR configuration in 12.2 kbps RMC.

10.3 LTE Test Configuration

SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices. The CMW500 WideBand Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR test were performed with the same number of RB and RB offsets transmitting on all TTI frames(Maximum TTI)

1) Spectrum Plots for RB configurations

A properly configured base station simulator was used for LTE output power measurements and SAR testing. Therefore, spectrum plots for RB configurations were not required to be included in this report.

2) MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.

The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

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

Modulation	Channel bandwidth / Transmission bandwidth (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

3) A-MPR

A-MPR(Additional MPR) has been disabled for all SAR tests by using Network Signalling Value of “NS_01” on the base station simulator.

4) LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test requirements

i) QPSK with 1 RB allocation

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 for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

ii) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in i) are applied to measure the SAR for QPSK with 50% RB allocation.

iii) QPSK with 100% RB allocation

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 in i) and ii) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

iv) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

B) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

5) TDD LTE test configuration

According to KDB 941225 D05 SAR for LTE Devices v02r04, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

10.4 Wi-Fi Test Configuration

For the 802.11b/g SAR tests, a communication link is set up with the test mode software for Wi-Fi mode test. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 1, 6 and 11 respectively in the case of 2450 MHz. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest data rate. 802.11b/g operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g modes are tested on channel 1, 6, 11; however, if output power reduction is necessary for channels 1 and/or 11 to meet restricted band requirements the highest output channel closest to each of these channels must be tested instead.

SAR is not required for 802.11g/n channels when the maximum average output power is less than 0.25dB higher than that measured on the corresponding 802.11b channels.

Mode	Band	GHz	Channel	"Default Test Channels"	
				802.11b	802.11g
802.11b/g	2.4 GHz	2412	1#	√	△
		2437	6	√	△
		2462	11#	√	△

Notes:

√ = "default test channels"

△ = possible 802.11g channels with maximum average output $\frac{1}{4}$ dB the "default test channels"

= when output power is reduced for channel 1 and /or 11 to meet restricted band requirements the highest output channels closest to each of these channels should be tested.

802.11 Test Channels per FCC Requirements

10.5 WiFi 2.4G SAR Test Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions.

A) 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel (section 3.1 of of KDB 248227D01v02) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

B) 2.4GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3 of of KDB 248227D01v02r01). 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.

C) SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

11 Detailed Test Results

11.1 Conducted Power measurements

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

11.1.1 Conducted Power of GSM

Mode: GSM850		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH128	CH190	CH251		CH128	CH190	CH251
			824.2MHz	836.6MHz	848.8MHz		824.2MHz	836.6MHz	848.8MHz
GSM(CS)		34.00	33.80	33.97	33.94	-9.03	24.77	24.94	24.91
GPRS (GMSK)	1Tx slot	34.00	33.82	33.97	33.96	-9.03	24.79	24.94	24.93
	2Tx slots	32.00	31.56	31.6	31.52	-6.02	25.54	25.58	25.50
	3Tx slots	30.00	29.46	29.55	29.52	-4.26	25.20	25.29	25.26
	4Tx slots	27.50	27.2	27.15	27.23	-3.01	24.19	24.14	24.22
EGPRS (8PSK)	1Tx slot	27.50	26.76	26.66	27.06	-9.03	17.73	17.63	18.03
	2Tx slots	26.50	25.72	25.55	26.14	-6.02	19.70	19.53	20.12
	3Tx slots	24.00	23.4	22.98	23.71	-4.26	19.14	18.72	19.45
	4Tx slots	21.50	20.74	20.92	21.11	-3.01	17.73	17.91	18.10
Mode: GSM1900		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH512	CH661	CH810		CH512	CH661	CH810
			1850.2MHz	1880.0MHz	1909.8MHz		1850.2MHz	1880.0MHz	1909.8MHz
GSM(CS)		31.00	30.73	30.53	30.59	-9.03	21.70	21.50	21.56
GPRS (GMSK)	1Tx slot	31.00	30.7	30.48	30.53	-9.03	21.67	21.45	21.50
	2Tx slots	28.50	28.36	27.95	27.47	-6.02	22.34	21.93	21.45
	3Tx slots	27.00	26.62	26.13	25.7	-4.26	22.36	21.87	21.44
	4Tx slots	24.50	24.41	23.89	23.39	-3.01	21.40	20.88	20.38
EGPRS (8PSK)	1Tx slot	27.00	26.57	25.8	25.75	-9.03	17.54	16.77	16.72
	2Tx slots	25.50	25.03	25.03	24.89	-6.02	19.01	19.01	18.87
	3Tx slots	23.00	22.41	22.55	21.89	-4.26	18.15	18.29	17.63
	4Tx slots	20.00	19.83	19.97	19.82	-3.01	16.82	16.96	16.81

Note:

Division Factors

To average the power, the division factor is as follows:

1Tx-slots = 1 transmit time slots out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2Tx-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3Tx-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4Tx-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

11.1.2 Conducted Power of WCDMA

Mode		Maximum Tune-up(dBm)	WCDMA Band 2		
			Conducted Power (dBm)		
			CH9262	CH9400	CH9538
			1852.4	1880.0	1907.6
RMC 12.2K		25.00	24.70	24.51	24.28
HSDPA	Subtest-1	24.50	24.33	22.56	21.66
	Subtest-2	24.50	21.09	24.05	22.47
	Subtest-3	24.00	21.69	20.84	23.97
	Subtest-4	22.50	22.18	21.26	20.75
HSUPA	Subtest-1	23.50	23.15	23.32	22.91
	Subtest-2	22.00	21.74	21.55	21.23
	Subtest-3	22.00	21.97	21.76	21.52
	Subtest-4	22.50	22.19	22.11	21.87
	Subtest-5	24.50	24.16	24.13	23.91
Mode		Maximum Tune-up(dBm)	WCDMA Band 4		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
			1712.4	1732.6	1752.6
RMC 12.2K		24.50	24.22	24.00	24.01
HSDPA	Subtest-1	24.00	23.73	22.16	19.79
	Subtest-2	24.00	19.44	23.74	21.71
	Subtest-3	23.50	20.25	20.04	23.11
	Subtest-4	21.50	21.43	20.25	19.55
HSUPA	Subtest-1	24.00	23.34	23.52	23.02
	Subtest-2	21.50	20.97	21.11	20.73
	Subtest-3	23.00	22.26	22.52	22.01
	Subtest-4	23.00	22.63	22.80	22.41
	Subtest-5	24.50	24.22	24.29	23.88
Mode		Maximum Tune-up(dBm)	WCDMA Band 5		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
			826.4	836.6	846.6
RMC 12.2K		25.00	24.60	24.52	24.41
HSDPA	Subtest-1	24.00	23.76	21.99	20.67
	Subtest-2	24.00	20.25	23.73	22.05
	Subtest-3	24.00	20.72	20.31	23.66
	Subtest-4	22.00	21.88	20.78	20.32
HSUPA	Subtest-1	23.00	22.55	22.73	22.69
	Subtest-2	22.00	21.79	21.76	21.74
	Subtest-3	22.50	22.01	21.98	21.75
	Subtest-4	22.00	21.83	21.80	21.71
	Subtest-5	24.00	23.63	23.49	23.58
Per KDB 941225 D01, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/2$ dB higher than the primary mode (RMC12.2kbps) or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.					

11.1.3 Conducted Power of LTE Band 2

LTE-FDD Band 2					Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18607	18900	19193
1.4MHz	QPSK	1	0	24.00	23.78	23.53	23.41
			2	24.00	23.81	23.63	23.40
			5	24.00	23.81	23.76	23.42
		3	0	24.00	23.55	23.62	23.40
			2	24.00	23.61	23.59	23.32
			3	24.00	23.57	23.71	23.40
	16QAM	1	0	23.00	22.68	22.56	22.46
			2	24.00	23.75	22.16	22.71
			5	24.00	23.81	22.08	22.73
		3	0	24.00	23.75	22.26	22.72
			2	23.00	22.91	22.57	22.81
			3	23.00	22.93	22.59	22.82
3MHz	QPSK	1	0	22.00	21.89	21.57	21.63
			2	22.00	21.89	21.57	21.63
			5	22.00	21.89	21.57	21.63
		8	0	23.00	22.62	22.54	22.32
			4	23.00	22.68	22.52	22.46
			7	23.00	22.70	22.68	22.42
	16QAM	1	0	23.00	22.61	22.57	22.43
			7	23.50	23.23	23.01	22.95
			14	23.50	23.27	23.05	23.03
		8	0	22.00	21.85	21.63	21.65
			4	22.00	21.91	21.57	21.64
			7	22.00	21.87	21.73	21.66
5MHz	QPSK	1	0	22.00	21.76	21.67	21.46
			13	24.00	23.62	23.55	23.40
			24	24.00	23.55	23.50	23.47
		12	0	23.00	23.54	23.70	23.30
			6	23.00	22.74	22.51	22.36
			13	23.00	22.63	22.45	22.33
	16QAM	1	0	23.00	22.60	22.69	22.40
			6	23.00	22.73	22.55	22.40
			13	23.00	22.79	22.55	22.49
		12	0	23.00	22.79	22.30	22.49
			13	23.00	22.78	22.30	22.42
			24	23.00	22.72	22.48	22.42

LTE-FDD Band 2				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18650 1855.0MHz	18900 1880.0MHz	19150 1905.0MHz
10MHz	QPSK	1	0	24.00	23.58	23.62	23.52
			25	24.00	23.57	23.58	23.51
			49	24.00	23.51	23.75	23.48
		25	0	23.00	22.70	22.52	22.44
			13	23.00	22.62	22.47	22.49
			25	23.00	22.64	22.73	22.39
	16QAM	50	0	23.00	22.66	22.49	22.44
			0	24.00	23.75	22.60	22.91
			25	24.00	23.67	22.60	22.80
		1	49	24.00	23.59	22.77	22.77
			0	22.00	21.71	21.68	21.58
			13	22.00	21.69	21.64	21.47
15MHz	QPSK	25	25	22.00	21.63	21.78	21.52
			0	22.00	21.71	21.65	21.42
			0	22.00	21.71	21.65	21.42
	16QAM	50	0	22.00	21.71	21.65	21.42
			0	22.00	21.71	21.65	21.42
			0	22.00	21.71	21.65	21.42
20MHz	QPSK	1	0	24.00	23.66	23.53	23.59
			38	24.00	23.57	23.49	23.43
			74	24.00	23.49	23.61	23.37
		36	0	23.00	22.69	22.49	22.58
			18	23.00	22.62	22.46	22.50
			39	23.00	22.55	22.77	22.45
	16QAM	75	0	23.00	22.55	22.60	22.50
			0	24.00	23.69	23.20	23.32
			38	24.00	23.61	23.16	23.21
		36	74	24.00	23.57	23.36	23.12
			0	22.00	21.78	21.70	21.55
			18	22.00	21.65	21.69	21.48
20MHz	QPSK	36	39	22.00	21.68	21.80	21.45
			0	22.00	21.58	21.57	21.63
			0	22.00	21.58	21.57	21.63
	16QAM	75	0	22.00	21.58	21.57	21.63
			0	22.00	21.58	21.57	21.63
			0	22.00	21.58	21.57	21.63
20MHz	QPSK	1	0	24.00	23.90	23.84	23.86
			50	24.00	23.82	23.85	23.58
			99	24.00	23.70	23.95	23.51
		50	0	23.00	22.66	22.60	22.61
			25	23.00	22.60	22.54	22.57
			50	23.00	22.56	22.77	22.39
	16QAM	100	0	23.00	22.62	22.48	22.56
			0	23.50	22.84	22.35	23.05
			50	23.00	22.72	22.21	22.79
		50	99	23.00	22.59	22.36	22.74
			0	22.00	21.78	21.62	21.75
			25	22.00	21.68	21.61	21.59
20MHz	QPSK	50	50	22.00	21.93	21.74	21.57
			0	22.00	21.59	21.57	21.56
			0	22.00	21.59	21.57	21.56
	16QAM	100	0	22.00	21.59	21.57	21.56
			0	22.00	21.59	21.57	21.56
			0	22.00	21.59	21.57	21.56

11.1.4 Conducted Power of LTE Band 4

LTE-FDD Band 4					Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19957 1710.7MHz	20175 1732.5MHz	20393 1754.3MHz
1.4MHz	QPSK	1	0	24.00	23.63	23.65	23.95
			2	24.50	23.63	23.78	24.04
			5	24.50	23.62	23.71	24.02
		3	0	24.00	23.44	23.63	23.76
			2	24.00	23.50	23.67	23.79
			3	24.00	23.50	23.59	23.70
	16QAM	6	0	23.00	22.60	22.58	22.71
			0	24.00	23.49	22.56	23.64
			2	24.00	23.56	22.56	23.73
		3	5	24.00	23.52	22.57	23.63
			0	23.50	22.83	22.63	23.31
			2	23.50	22.83	22.59	23.34
3MHz	QPSK	1	3	23.50	22.85	22.59	23.31
			0	22.00	21.81	21.76	21.96
		8	0	24.50	23.58	23.67	24.04
			7	24.00	23.52	23.68	23.98
			14	24.50	23.82	23.69	24.02
		15	0	23.00	22.58	22.58	22.72
			4	23.00	22.61	22.61	22.73
			7	23.00	22.68	22.55	22.82
	16QAM	1	0	23.00	22.63	22.58	22.83
			0	24.00	23.65	22.70	23.11
			7	24.00	23.63	22.64	23.12
		8	14	24.00	23.79	22.64	23.11
			0	22.00	21.45	21.76	21.76
			4	22.00	21.43	21.74	21.68
		15	7	22.00	21.60	21.69	21.74
			0	22.00	21.69	21.67	21.71
5MHz	QPSK	1	0	24.00	23.49	23.83	23.50
			13	24.00	23.77	23.80	23.52
			24	24.00	23.91	23.90	23.52
		12	0	23.00	22.60	22.66	22.77
			6	23.00	22.79	22.63	22.68
			13	23.00	22.68	22.62	22.73
		25	0	23.00	22.79	22.67	22.76
			0	23.50	22.70	22.80	23.35
			13	23.50	22.83	22.71	23.25
	16QAM	1	24	23.50	23.08	22.88	23.30
			0	22.00	21.55	21.57	21.69
			6	22.00	21.70	21.51	21.66
		12	13	22.00	21.68	21.47	21.71
			0	22.00	21.90	21.69	21.86

LTE-FDD Band 4				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20000 1715.0MHz	20175 1732.5MHz	20350 1750.0MHz
10MHz	QPSK	1	0	24.50	23.57	23.66	24.36
			25	24.00	23.97	23.64	23.78
			49	24.00	23.97	23.82	23.93
		25	0	23.00	22.80	22.70	22.83
			13	23.00	22.98	22.62	22.63
			25	23.00	22.98	22.72	22.82
	16QAM	50	0	23.50	23.01	22.64	22.72
			0	24.50	23.61	23.42	24.02
			25	24.00	23.96	23.28	23.55
		1	49	24.00	23.97	23.42	23.70
			0	22.00	21.84	21.77	21.83
			13	22.50	22.07	21.75	21.69
15MHz	QPSK	25	25	22.50	22.11	21.81	21.80
			0	22.50	22.01	21.70	21.70
			0	24.50	23.59	23.75	24.14
		36	38	24.00	23.97	23.62	23.84
			74	24.00	23.70	23.89	23.87
			0	23.50	22.99	22.67	23.14
	16QAM	75	18	23.00	22.96	22.73	22.75
			39	23.00	22.92	22.83	22.77
			0	23.50	23.02	22.64	22.79
		1	0	24.00	23.67	23.51	23.93
			38	24.00	23.96	23.28	23.62
			74	24.00	23.69	23.54	23.70
20MHz	QPSK	36	0	22.50	22.05	21.84	22.14
			18	22.50	22.16	21.78	21.70
			39	22.00	21.94	21.93	21.64
		75	0	22.50	22.05	21.73	21.80
			0	20050	20175	20300	
			0	1720.0MHz	1732.5MHz	1745.0MHz	
	16QAM	1	0	24.50	23.74	24.16	23.94
			50	24.50	24.13	23.91	24.21
			99	24.50	23.84	24.15	23.91
		50	0	23.50	23.04	22.80	22.94
			25	23.50	22.91	22.65	23.25
			50	23.00	22.71	22.82	22.69
20MHz	QPSK	100	0	23.50	22.90	22.70	23.18
			0	23.50	22.78	23.00	23.22
			50	23.50	23.03	22.73	23.48
		1	99	23.50	22.72	22.97	23.07
			0	22.50	22.10	21.82	22.02
			25	22.50	22.05	21.75	22.17
	16QAM	50	50	22.00	21.92	21.84	21.65
			0	22.50	22.00	21.73	22.21
		100	0	22.50	22.00	21.73	22.21

11.1.5 Conducted Power of LTE Band 5

LTE-FDD Band 5				Maximum Tune- up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		20407	20525	20643	
					824.7MHz	836.5MHz	848.3MHz	
1.4MHz	QPSK	1	0	24.00	23.61	23.89	23.97	
			2	24.50	23.59	23.99	24.10	
			5	24.50	23.65	24.00	24.03	
		3	0	24.00	23.69	23.96	23.82	
			2	24.00	23.66	23.89	24.00	
			3	24.00	23.57	23.97	23.94	
	16QAM	6	0	23.50	22.59	23.01	22.90	
			1	0	24.50	23.10	24.04	22.90
				2	24.50	23.20	24.04	23.03
		5		0	24.50	23.17	24.06	23.03
			3	0	23.50	23.04	23.21	22.81
				2	23.50	22.91	23.14	22.86
3	23.50	22.95		23.26	22.81			
6	0	22.50	21.64	22.07	21.96			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	20415	20525	20635	
					825.5MHz	836.5MHz	847.5MHz	
3MHz	QPSK	1	0	24.00	23.51	23.81	23.95	
			7	24.00	23.54	23.90	23.94	
			14	24.00	23.60	23.97	23.96	
		8	0	23.50	22.55	23.02	22.92	
			4	23.50	22.46	23.06	22.87	
			7	23.00	22.66	22.99	22.96	
	16QAM	15	0	23.00	22.50	22.98	22.92	
			0	0	24.00	23.66	23.76	23.08
				1	7	24.00	23.57	23.77
		14			24.00	23.75	23.76	23.10
		8	0		22.50	21.39	22.31	22.01
			4	22.50	21.47	22.23	21.97	
7	22.50		21.56	22.17	22.09			
15	0	22.50	21.57	22.07	21.95			

LTE-FDD Band 5				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
5MHz	QPSK	1	0	24.50	23.58	24.09	23.82
			13	24.50	23.55	24.08	23.65
			24	24.50	23.66	24.18	23.67
		12	0	23.50	22.57	23.07	22.92
			6	23.50	22.57	23.13	22.87
			13	23.00	22.73	22.95	22.90
	16QAM	25	0	23.50	22.63	23.11	22.89
		1	0	24.00	22.71	23.15	23.53
			13	23.50	22.72	23.14	23.40
			24	23.50	22.87	23.09	23.39
		12	0	22.00	21.53	21.88	21.97
			6	22.00	21.68	21.82	21.93
13	22.00		21.70	21.90	21.83		
25	0	22.50	21.90	21.98	22.10		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	24.50	23.53	23.70	24.09
			25	24.50	23.64	23.92	24.16
			49	24.50	23.89	23.96	24.05
		25	0	23.50	22.71	22.94	23.17
			13	23.50	22.75	23.11	22.95
			25	23.00	22.87	22.99	22.97
			50	0	23.50	22.64	23.09
	16QAM	1	0	24.00	23.64	23.56	23.34
			25	24.00	23.75	23.70	23.23
			49	24.00	23.98	23.71	23.16
		25	0	22.50	21.76	22.05	22.12
			13	22.50	21.79	22.10	22.16
			25	22.50	21.97	22.45	22.04
			50	0	22.50	21.78	22.09

11.1.6 Conducted Power of LTE Band 7

LTE-FDD Band 7				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20775 2502.5MHz	21100 2535.0MHz	21425 2567.5MHz
5MHz	QPSK	1	0	23.50	23.42	22.95	22.72
			13	23.50	23.25	22.85	22.73
			24	23.50	23.27	22.88	22.67
		12	0	22.50	22.46	21.88	21.86
			6	22.50	22.29	21.76	21.78
			13	22.50	22.22	21.77	21.84
	16QAM	25	0	22.50	22.36	21.85	21.87
			10	23.00	22.54	22.04	21.84
			13	22.50	22.41	21.99	21.87
		12	24	22.50	22.33	22.03	21.93
			0	21.50	21.35	20.72	20.91
			6	21.50	21.35	20.78	20.90
10MHz	QPSK	1	13	21.50	21.35	20.82	20.89
			25	22.00	21.55	20.94	20.80
		25	0	22.00	20.80	20.94	20.80
			10	23.50	23.36	22.77	22.79
			25	23.50	23.27	22.80	22.79
		25	49	23.50	23.14	22.73	22.81
			0	22.50	22.37	21.90	21.89
			13	22.50	22.21	21.91	21.83
	16QAM	25	25	22.50	22.23	21.73	21.75
			0	22.50	22.32	21.78	21.73
			10	24.00	23.61	22.76	22.35
		1	25	24.00	23.52	22.62	22.32
			49	23.50	23.35	22.63	22.44
			0	21.50	21.30	21.03	20.97
		25	13	21.50	21.32	21.03	20.97
			25	21.50	21.30	20.96	20.93
			0	21.50	21.40	20.95	20.85

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20825	21100	21375
					2057.5MHz	2535.0MHz	2562.5MHz
15MHz	QPSK	1	0	23.50	23.30	22.74	22.72
			38	23.50	23.19	22.69	22.70
			74	23.00	22.93	22.66	22.60
		36	0	22.50	22.20	21.87	21.83
			18	22.50	22.28	21.88	21.80
			39	22.50	22.02	21.89	21.73
			75	22.50	22.22	21.76	21.79
	16QAM	1	0	24.00	23.60	22.74	22.93
			38	23.50	23.41	22.60	22.90
			74	23.50	23.21	22.51	22.94
		36	0	21.50	21.45	21.13	20.80
			18	21.50	21.44	21.11	20.81
			39	21.50	21.28	21.02	20.81
			75	21.50	21.24	20.96	20.88
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	21350	21100	21350
					2560.0MHz	2535.0MHz	2560.0MHz
20MHz	QPSK	1	0	23.50	23.47	23.35	22.84
			50	23.50	23.20	23.25	22.81
			99	23.50	22.98	23.19	22.81
		50	0	22.50	22.21	21.83	21.81
			25	22.50	22.07	21.86	21.75
			50	22.00	21.95	21.75	21.75
			100	22.50	22.16	21.87	21.73
	16QAM	1	0	23.00	22.76	22.07	22.27
			50	22.50	22.46	21.95	22.33
			99	22.50	22.19	21.96	22.34
		50	0	22.00	21.55	21.02	20.98
			25	21.50	21.35	20.97	20.98
			50	21.50	21.18	20.91	20.96
			100	21.50	21.21	20.95	20.94

11.1.7 Conducted Power of LTE Band 12

LTE-FDD Band 12				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23017 699.7MHz	23095 707.5MHz	23173 715.5MHz
1.4MHz	QPSK	1	0	24.00	23.76	23.67	23.60
			2	24.00	23.75	23.79	23.60
			5	24.00	23.70	23.72	23.60
		3	0	24.00	23.74	23.77	23.46
			2	24.00	23.81	23.84	23.47
			3	24.00	23.80	23.81	23.52
	16QAM	6	0	23.00	22.76	22.79	22.43
		1	0	24.00	23.84	23.41	23.43
			2	24.00	23.88	23.49	23.43
			5	24.00	23.92	23.44	23.35
		3	0	23.00	22.99	22.85	22.58
			2	23.50	23.03	22.82	22.72
3MHz	QPSK	1	3	23.50	23.04	22.81	22.60
			6	22.00	21.93	21.72	21.74
		8	0	24.00	23.68	23.99	23.59
			7	24.00	23.64	23.88	23.55
			14	24.00	23.66	23.91	23.41
		15	0	23.00	22.79	22.87	22.55
			4	23.00	22.73	22.82	22.51
			7	23.00	22.81	22.82	22.48
	16QAM	1	0	23.00	22.81	22.80	22.56
			0	24.00	23.76	22.90	23.12
			7	24.00	23.75	22.83	22.99
		8	14	24.00	23.93	22.74	22.87
			0	22.00	21.59	21.83	21.75
			4	22.00	21.59	21.90	21.58
		15	7	22.00	21.68	21.91	21.87
			0	22.00	21.82	21.93	21.58

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
5MHz	QPSK	1	0	24.00	23.71	23.85	23.65
			13	24.00	23.71	23.85	23.48
			24	24.00	23.74	23.70	23.39
		12	0	23.00	22.80	22.86	22.61
			6	23.00	22.84	22.88	22.60
			13	23.00	22.84	22.78	22.39
	16QAM	25	0	23.00	22.87	22.77	22.53
			0	23.00	22.72	23.00	22.70
			13	23.00	22.72	22.94	22.58
		1	24	23.00	22.81	22.84	22.43
			0	22.00	21.72	21.77	21.51
			6	22.00	21.90	21.77	21.44
		12	13	22.00	21.89	21.66	21.42
			0	22.00	21.78	21.33	21.67
			25	22.00	22.50	23095	23130
10MHz	QPSK	1	0	24.00	23.70	23.65	23.76
			25	24.00	23.75	23.70	23.53
			49	24.00	23.70	23.48	23.42
		25	0	23.00	22.85	22.79	22.81
			13	23.00	22.84	22.82	22.78
			25	23.00	22.96	22.82	22.60
		50	0	23.00	22.95	22.85	22.65
			0	24.00	23.56	23.47	23.60
	16QAM	1	25	24.00	23.76	23.45	23.51
			49	24.00	23.68	23.18	23.30
		25	0	22.00	21.90	21.98	21.90
			13	22.00	21.96	21.90	21.73
			25	22.00	21.96	21.66	21.57
		50	0	22.00	21.86	21.94	21.55

11.1.8 Conducted Power of LTE Band 17

LTE-FDD Band 17				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23755 706.5MHz	23790 710.0MHz	23825 713.5MHz
5MHz	QPSK	1	0	24.00	23.80	23.58	23.55
			13	24.00	23.75	23.36	23.50
			24	24.00	23.72	23.39	23.37
		12	0	23.00	22.75	22.80	22.56
			6	23.00	22.80	22.74	22.61
			13	23.00	22.80	22.58	22.51
	16QAM	25	0	23.00	22.84	22.83	22.45
			0	23.50	22.54	23.40	22.77
			13	23.50	22.57	23.27	22.65
		1	24	23.50	22.46	23.08	22.49
			0	22.00	21.81	21.80	21.55
			6	22.00	21.70	21.73	21.47
10MHz	QPSK	12	13	22.00	21.77	21.59	21.31
			0	22.00	21.91	21.78	21.54
			25	22.00	21.91	21.78	21.54
	16QAM	25	0	22.00	21.91	21.78	21.54
			0	22.00	21.91	21.78	21.54
			25	22.00	21.91	21.78	21.54
10MHz	QPSK	1	0	24.50	23.74	23.74	24.02
			25	24.00	23.72	23.63	23.82
			49	24.00	23.49	23.44	23.66
	16QAM	25	0	23.00	22.77	22.85	22.93
			13	23.00	22.80	22.74	22.78
			25	23.00	22.69	22.58	22.48
10MHz	QPSK	50	0	23.00	22.91	22.84	22.77
			0	24.00	23.81	23.48	23.62
			25	24.00	23.64	23.33	23.39
	16QAM	1	49	23.50	23.41	23.09	23.09
			0	22.00	21.98	21.93	21.89
			13	22.00	21.89	21.70	21.68
10MHz	QPSK	25	25	22.00	21.62	21.65	21.55
			0	22.00	21.90	21.69	21.58
			0	22.00	21.90	21.69	21.58
	16QAM	50	0	22.00	21.90	21.69	21.58
			0	22.00	21.90	21.69	21.58
			25	22.00	21.90	21.69	21.58

11.1.9 Conducted Power of LTE Band 26(814-824)

LTE-TDD Band 26				Maximum Tune- up(dBm)	Conducted Power(dBm)					
Bandwidth	Modulation	RB allocation	RB offset		26697	26740	26783			
					814.7 MHz	819 MHz	823.3 MHz			
1.4MHz	QPSK	1	0	24.00	23.60	23.80	23.57			
			2	24.00	23.67	23.68	23.52			
			5	24.00	23.54	23.70	23.50			
		3	0	24.00	23.51	23.72	23.55			
			2	24.00	23.52	23.71	23.59			
			3	24.00	23.55	23.65	23.63			
		6	0	23.00	22.63	22.54	22.59			
			16QAM	1	0	24.00	23.67	22.74	23.20	
					2	24.00	23.73	22.76	23.23	
	5	24.00			23.70	22.77	23.15			
	3	0		23.50	22.88	22.61	23.15			
		2		23.50	22.90	22.63	23.05			
		3		23.00	22.95	22.61	22.98			
	6	0		22.00	21.82	21.68	21.80			
		Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	26705	26740	26775
								815.5 MHz	819 MHz	822.5 MHz
	3MHz	QPSK	1	0	24.00	23.62	23.69	23.52		
				7	24.00	23.50	23.72	23.53		
14				24.00	23.52	23.72	23.57			
8			0	23.00	22.50	22.58	22.52			
			4	23.00	22.45	22.49	22.62			
			7	23.00	22.60	22.56	22.60			
15			0	23.00	22.53	22.65	22.56			
			16QAM	1	0	24.00	23.14	22.68	23.55	
					7	24.00	23.04	22.74	23.55	
14		24.00			23.09	22.71	23.63			
8		0		22.00	21.81	21.74	21.47			
		4		22.00	21.76	21.73	21.57			
		7		22.00	21.84	21.71	21.54			
15		0		22.00	21.66	21.71	21.69			

LTE-TDD Band 26				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26715	26740	26765
					816.5 MHz	819 MHz	821.5 MHz
5MHz	QPSK	1	0	24.00	23.56	23.77	23.47
			13	24.00	23.59	23.75	23.35
			24	24.00	23.56	23.68	23.34
		12	0	23.00	22.58	22.52	22.56
			6	23.00	22.72	22.60	22.69
			13	23.00	22.61	22.71	22.60
	16QAM	1	0	23.00	22.68	22.68	22.71
			0	23.50	22.63	22.65	23.15
			13	23.50	22.61	22.65	23.14
		12	24	23.50	22.68	22.64	23.21
			0	22.00	21.44	21.43	21.62
			6	22.00	21.56	21.58	21.60
10MHz	QPSK	1	13	22.00	21.50	21.46	21.56
			25	22.00	21.79	21.69	21.78
			0	22.00	21.79	21.69	21.78
		25	0	24.00	23.59		
			25	23.50	23.50		
			49	24.00	23.58		
		50	0	23.00	22.64		
			13	23.00	22.55		
			25	23.00	22.52		
	16QAM	1	0	23.00	22.60		
			0	24.00	23.61		
			25	24.00	23.62		
		25	49	24.00	23.63		
			0	22.00	21.70		
			13	22.00	21.68		
		50	25	22.00	21.63		
			0	22.00	21.78		
			0	22.00	21.78		

11.1.10 Conducted Power of LTE Band 26(824-849)

LTE-FDD Band 26					Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26797	26915	27033
					824.7 MHz	836.5 MHz	848.3 MHz
1.4MHz	QPSK	1	0	24.00	23.72	23.94	23.81
			2	24.00	23.72	23.99	23.92
			5	24.00	23.66	24.00	23.92
		3	0	24.00	23.65	24.00	23.89
			2	24.50	23.67	24.04	23.93
			3	24.00	23.67	23.96	23.91
	16QAM	1	0	23.00	22.55	22.91	22.96
			0	24.00	23.81	23.53	22.94
			2	24.00	23.77	23.47	22.95
		3	5	24.00	23.77	23.39	22.96
			0	23.50	22.90	23.42	22.86
			2	23.50	22.91	23.38	22.94
3MHz	QPSK	1	3	23.50	22.90	23.33	22.87
			6	22.50	21.78	22.13	22.11
		8	0	24.50	23.54	24.04	23.98
			7	24.50	23.56	24.07	23.98
			14	24.50	23.70	24.12	24.04
		15	0	23.50	22.49	23.13	22.87
			4	23.00	22.56	22.95	22.82
			7	23.50	22.75	23.13	22.93
	16QAM	1	0	23.50	22.62	23.10	22.81
			0	24.00	23.66	23.11	23.10
			7	24.00	23.63	23.11	23.02
		8	14	24.00	23.78	23.13	23.13
			0	22.50	21.48	22.06	21.99
			4	22.50	21.44	22.12	21.94
		15	7	22.50	21.57	22.06	22.04
			0	22.50	21.66	22.05	22.00
5MHz	QPSK	1	0	26815	826.5MHz	836.5MHz	846.5MHz
			0	24.50	23.60	24.11	23.80
			13	24.50	23.56	24.14	23.64
			24	24.50	23.63	24.21	23.66
		12	0	23.00	22.59	22.99	23.00
			6	23.00	22.75	22.99	22.95
			13	23.00	22.66	23.00	22.91
			0	23.50	22.66	23.03	22.82
		25	0	24.00	22.74	23.08	23.55
			13	23.50	22.77	23.06	23.37
			24	23.50	22.94	23.26	23.37
			0	22.00	21.57	21.91	21.95
	16QAM	1	6	22.00	21.62	21.91	21.90
			13	22.00	21.73	21.92	21.90
			0	22.50	21.89	21.99	22.08
		12	0	22.50	21.89	21.99	22.08
			6	22.00	21.62	21.91	21.90
			13	22.00	21.73	21.92	21.90
			0	22.50	21.89	21.99	22.08
		25	0	22.50	21.89	21.99	22.08
			6	22.00	21.62	21.91	21.90
			13	22.00	21.73	21.92	21.90
			0	22.50	21.89	21.99	22.08

LTE-FDD Band 26				Maximum Tune- up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		26840	26915	26990		
					829MHz	836.5MHz	844MHz		
10MHz	QPSK	1	0	24.50	23.55	23.76	24.15		
			25	24.50	23.64	23.96	24.03		
			49	24.50	23.91	24.00	24.04		
		25	0	23.50	22.64	23.12	23.11		
			13	23.50	22.66	22.98	23.04		
			25	23.50	22.92	23.08	22.91		
		50	0	23.50	22.67	22.95	23.01		
			16QAM	1	0	24.00	23.63	23.48	23.48
					25	24.00	23.73	23.70	23.33
	49	24.50			24.02	23.69	23.17		
	25	0		22.50	21.73	22.10	22.10		
		13		22.50	21.81	22.14	22.05		
		25		22.50	21.99	22.19	22.03		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	26865	26915	26965	
						831.5MHz	836.5MHz	841.5MHz	
15MHz	QPSK	1	0	24.00	23.55	23.68	23.97		
			38	24.00	23.73	23.94	23.98		
			74	24.50	24.07	23.99	23.88		
		36	0	23.50	22.67	23.00	23.14		
			18	23.50	22.86	23.09	23.04		
			39	23.50	23.10	23.07	22.94		
		75	0	23.50	22.94	23.04	22.91		
			16QAM	1	0	24.00	23.66	23.48	23.87
					38	24.00	23.86	23.78	23.86
	74	24.50			24.18	23.69	23.75		
	36	0		22.50	21.83	22.00	22.07		
		18		22.50	21.99	22.11	21.99		
		39		22.50	22.08	22.16	21.90		
	75	0	22.50	21.93	22.00	22.04			

11.1.11 Conducted Power of LTE Band 38

LTE-TDD Band 38				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		37775 2572.5MHz	38000 2595.0MHz	38225 2617.5MHz
5MHz	QPSK	1	0	23.50	22.88	22.71	23.01
			13	23.50	22.96	22.74	23.08
			24	23.50	22.99	22.91	23.13
		12	0	22.50	21.73	21.93	22.18
			6	22.50	21.88	21.90	22.15
			13	22.50	21.74	21.94	22.13
	16QAM	25	0	22.50	21.76	21.95	22.17
			0	22.00	21.51	21.55	21.99
			13	22.50	21.59	21.66	22.09
		1	24	22.50	21.61	21.75	22.09
			0	21.50	20.84	20.98	21.27
			6	21.50	20.82	21.13	21.23
10MHz	QPSK	12	13	21.50	20.85	20.98	21.29
			0	21.50	21.12	20.93	21.29
		25	0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29
		1	0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29
		25	0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29
	16QAM	1	0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29
		25	0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29
		1	0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29
			0	21.50	21.12	20.93	21.29

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37825	38000	38175
					2577.5MHz	2595.0MHz	2612.5MHz
15MHz	QPSK	1	0	23.50	23.10	22.94	22.97
			38	23.00	22.95	22.79	22.97
			74	23.50	22.90	23.07	23.13
		36	0	22.00	22.00	21.59	21.85
			18	22.00	21.94	21.74	21.91
			39	22.50	21.81	21.81	22.08
	16QAM	75	0	22.00	22.00	21.80	21.96
			0	23.50	23.14	21.41	22.14
			38	23.50	23.22	21.46	22.07
		36	74	23.50	23.15	21.61	22.30
			0	21.00	20.99	20.87	20.98
			18	21.50	20.93	20.83	21.06
20MHz	QPSK	39	21.50	20.87	20.90	20.90	21.06
			0	21.50	21.13	20.80	21.16
		75	0	21.50	21.13	20.80	21.16
			0	23.00	22.80	22.82	22.95
			50	23.00	22.65	22.81	22.97
			99	23.50	22.77	22.93	23.10
	16QAM	50	0	22.00	21.91	21.66	21.95
			25	22.00	21.79	21.74	21.98
			50	22.00	21.67	21.85	22.00
		100	0	22.00	21.66	21.65	21.87
			0	22.00	21.85	21.59	21.66
			1	50	22.00	21.80	21.72
30MHz	QPSK	1	50	22.00	21.80	21.72	21.35
			99	22.00	21.80	21.83	21.76
			0	21.50	21.08	20.72	21.15
		50	25	21.50	21.01	20.73	21.05
			50	21.50	20.85	20.81	21.22
			100	0	21.50	20.91	21.05

11.1.12 Conducted Power of LTE Band 41

LTE-TDD Band 41					Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	40065	40265	40640	41015	41215
					2537.5MHz	2557.5MHz	2595.0MHz	2632.5 MHz	2652.5MHz
5MHz	QPSK	1	0	23.00	22.87	22.29	22.71	22.34	22.96
			13	23.50	22.85	22.33	22.81	22.45	23.09
			24	23.50	23.02	22.49	22.95	22.56	23.17
		12	0	22.50	21.88	21.41	21.93	21.61	22.29
			6	22.50	21.79	21.34	21.88	21.57	22.25
			13	22.50	21.79	21.36	21.93	21.60	22.27
	16QAM	25	0	22.50	21.81	21.38	21.95	21.61	22.26
			0	22.50	21.54	21.11	21.67	21.34	22.01
			13	22.50	21.48	21.12	21.75	21.40	22.04
		1	24	22.00	21.47	21.14	21.81	21.37	21.93
			0	21.50	20.92	20.47	21.02	20.73	21.43
			6	21.50	20.90	20.45	20.99	20.70	21.40
		12	13	21.50	20.86	20.44	21.01	20.73	21.44
			0	21.50	21.12	20.52	20.91	20.65	21.39
		25	0	21.50	21.12	20.52	20.91	20.65	21.39
			0	21.50	21.12	20.52	20.91	20.65	21.39
			0	21.50	21.12	20.52	20.91	20.65	21.39
10MHz	QPSK	1	0	23.50	22.91	22.35	22.79	22.43	23.07
			25	23.00	22.93	22.41	22.89	22.42	22.95
			49	23.50	22.85	22.47	23.08	22.55	23.02
		25	0	22.50	22.01	21.35	21.68	21.40	22.11
			13	22.50	22.06	21.37	21.68	21.45	22.21
			25	22.50	22.03	21.46	21.88	21.49	22.10
	16QAM	50	0	22.50	21.92	21.33	21.74	21.43	22.12
			0	23.00	22.92	21.73	21.53	21.57	22.61
			25	23.50	23.02	21.79	21.55	21.53	22.51
		1	49	23.00	22.94	21.79	21.64	21.61	22.57
			0	21.50	21.35	20.65	20.95	20.67	21.39
			13	21.50	21.23	20.59	20.95	20.64	21.33
		25	25	21.50	21.41	20.74	21.06	20.71	21.35
			0	21.50	21.12	20.55	20.97	20.58	21.19
			0	21.50	21.12	20.55	20.97	20.58	21.19
		50	0	21.50	21.12	20.55	20.97	20.58	21.19
			0	21.50	21.12	20.55	20.97	20.58	21.19
			0	21.50	21.12	20.55	20.97	20.58	21.19

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	40115	40315	40640	40965	41165
					2542.5MHz	2562.5MHz	2595.0MHz	2627.5MHz	2647.5MHz
15MHz	QPSK	1	0	23.50	23.02	22.50	22.98	22.58	23.17
			38	23.50	22.83	22.42	23.01	22.53	23.05
			74	23.50	22.74	22.34	22.94	22.54	23.14
		36	0	22.50	22.03	21.33	21.62	21.42	22.22
			18	22.50	21.92	21.35	21.77	21.46	22.15
			39	22.50	21.93	21.39	21.84	21.46	22.08
		75	0	22.50	21.98	21.40	21.82	21.44	22.06
			0	23.50	23.01	21.81	21.61	21.60	22.58
			38	23.00	22.93	21.74	21.54	21.50	22.46
	16QAM	1	74	23.00	22.79	21.72	21.64	21.59	22.53
			0	21.50	21.20	20.55	20.90	20.59	21.27
			18	21.50	21.09	20.47	20.85	20.54	21.23
		36	39	21.50	21.02	20.48	20.93	20.62	21.31
			75	21.50	21.14	20.56	20.98	20.67	21.35
		75	0	21.50	21.14	20.56	20.98	20.67	21.35
			0	23.50	23.01	21.81	21.61	21.60	22.58
			38	23.00	22.93	21.74	21.54	21.50	22.46
			74	23.00	22.79	21.72	21.64	21.59	22.53
20MHz	QPSK	1	0	23.50	22.96	22.43	22.89	22.54	23.19
			50	23.50	22.80	22.32	22.84	22.49	23.13
			99	23.50	22.94	22.54	23.13	22.64	23.14
		50	0	22.50	21.87	21.29	21.70	21.47	22.24
			25	22.50	21.89	21.35	21.80	21.48	22.15
			50	22.50	21.69	21.27	21.85	21.47	22.08
		100	0	22.50	21.76	21.32	21.87	21.54	22.20
			0	22.50	21.61	21.07	21.53	21.44	22.34
			50	22.50	21.52	20.93	21.33	21.21	22.09
		1	99	22.50	21.56	20.96	21.36	21.22	22.08
			0	22.00	21.07	20.75	21.43	20.98	21.53
			25	21.50	21.11	20.48	20.84	20.64	21.43
	16QAM	50	50	21.50	21.02	20.56	21.10	20.78	21.46
			100	21.50	20.98	20.40	20.82	20.51	21.19
			0	21.50	20.98	20.40	20.82	20.51	21.19
		100	0	21.50	20.98	20.40	20.82	20.51	21.19
			0	21.50	20.98	20.40	20.82	20.51	21.19
			0	21.50	20.98	20.40	20.82	20.51	21.19
		100	0	21.50	20.98	20.40	20.82	20.51	21.19
			0	21.50	20.98	20.40	20.82	20.51	21.19
			0	21.50	20.98	20.40	20.82	20.51	21.19
		100	0	21.50	20.98	20.40	20.82	20.51	21.19
			0	21.50	20.98	20.40	20.82	20.51	21.19
			0	21.50	20.98	20.40	20.82	20.51	21.19

11.1.13 Conducted Power of LTE Band 66

LTE-FDD Band 66					Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131979 1710.7MHz	132322 1745.0MHz	132665 1779.3MHz
1.4MHz	QPSK	1	0	24.50	23.58	24.38	24.00
			2	24.50	23.59	24.45	23.96
			5	24.50	23.63	24.39	23.95
		3	0	24.50	23.60	24.15	24.00
			2	24.50	23.64	24.18	23.95
			3	24.50	23.56	24.23	23.96
	16QAM	6	0	23.50	22.60	23.21	22.90
			0	23.50	22.78	23.43	22.99
			1	24.00	22.80	23.58	23.00
		3	5	23.50	22.79	23.40	23.03
			0	23.50	22.89	23.47	22.97
			2	23.50	22.86	23.38	23.00
3MHz	QPSK	1	3	23.50	22.90	23.45	23.04
			0	22.50	21.78	22.29	22.19
		8	0	24.50	23.59	24.10	23.94
			7	24.50	23.67	24.12	23.91
			14	24.00	23.87	23.75	23.91
		15	0	23.50	22.44	23.12	22.99
			4	23.50	22.48	23.14	22.99
			7	23.50	22.72	23.10	22.88
	16QAM	1	0	23.50	22.53	23.20	22.93
			0	23.50	22.79	23.49	23.04
			7	23.50	22.78	23.49	22.98
		8	14	23.50	23.09	23.05	23.01
			0	22.50	21.55	22.07	22.10
			4	22.50	21.56	22.10	22.03
		15	7	22.50	21.72	22.08	22.02
			0	22.50	21.62	22.16	21.98
5MHz	QPSK	1	0	24.50	23.63	24.35	23.80
			13	24.50	23.80	24.42	23.76
			24	24.50	24.05	23.95	23.78
		12	0	23.50	22.49	23.20	22.93
			6	23.50	22.84	23.18	22.96
			13	23.00	22.73	22.82	22.92
		25	0	23.50	22.80	23.22	23.03
			0	24.00	22.62	23.26	23.59
			13	23.50	22.87	23.31	23.50
	16QAM	1	24	23.50	23.15	22.87	23.49
			0	22.50	21.53	22.04	22.02
		12	6	22.50	21.70	22.06	22.03
			13	22.00	21.71	21.91	21.96
			0	22.50	21.92	22.23	22.15

LTE-FDD Band 66				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		132022	132322	132622
					1715.0MHz	1745.0MHz	1775.0MHz
10MHz	QPSK	1	0	24.50	23.66	24.04	24.13
			25	24.50	24.07	24.17	24.16
			49	24.50	24.03	23.75	24.14
		25	0	23.50	22.82	23.25	23.08
			13	23.50	23.03	23.10	23.07
			25	23.00	23.00	22.85	22.95
	16QAM	50	0	23.50	23.18	23.21	23.06
			0	24.00	23.55	23.55	23.23
			25	24.50	24.04	23.59	23.31
		1	49	24.00	23.96	23.10	23.17
			0	22.50	21.82	22.14	22.01
			13	22.50	22.08	22.24	22.07
15MHz	25	25	22.50	22.03	22.05	22.06	
		0	22.50	22.06	22.28	21.99	
		0	22.50	22.06	22.28	21.99	
	16QAM	50	0	22.50	22.06	22.28	21.99
			0	22.50	22.06	22.28	21.99
			0	22.50	22.06	22.28	21.99

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	132047	132322	132597
					1717.5MHz	1745.0MHz	1772.5MHz
15MHz	QPSK	1	0	24.50	23.66	24.05	23.86
			38	24.50	23.98	24.22	23.95
			74	24.00	23.81	23.80	23.90
		36	0	23.50	23.07	22.99	22.97
			18	23.50	22.99	23.06	22.98
			39	23.50	22.84	22.77	23.01
	16QAM	75	0	23.50	23.05	23.14	22.94
			0	24.00	23.59	23.48	23.62
			38	24.00	23.98	23.63	23.71
		36	74	24.00	23.82	23.19	23.72
			0	22.50	22.10	22.17	21.95
			18	22.50	22.01	22.27	21.93
20MHz	QPSK	39	39	22.00	21.97	21.77	21.98
			0	22.50	22.05	22.19	22.04
			0	22.50	22.05	22.19	22.04
	16QAM	75	0	22.50	22.05	22.19	22.04
			0	22.50	22.05	22.19	22.04
			0	22.50	22.05	22.19	22.04

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	132072	132322	132572
					1720.0MHz	1745.0MHz	1770.0MHz
20MHz	QPSK	1	0	24.50	23.90	24.30	23.85
			50	25.00	24.24	24.60	23.96
			99	24.50	23.98	24.22	23.98
		50	0	23.50	23.08	23.14	22.91
			25	23.50	22.98	23.23	22.98
			50	23.00	22.77	22.64	22.98
	16QAM	100	0	23.50	22.91	23.24	22.99
			0	23.50	22.71	22.54	23.16
			50	23.50	23.12	22.80	23.21
		50	99	23.50	22.87	22.40	23.19
			0	22.50	22.19	22.07	21.98
			25	22.50	22.13	22.22	22.00
25MHz	100	50	22.50	21.98	21.66	22.03	
		0	22.50	22.03	22.19	21.94	
		0	22.50	22.03	22.19	21.94	
	16QAM	100	0	22.50	22.03	22.19	21.94
			0	22.50	22.03	22.19	21.94
			0	22.50	22.03	22.19	21.94

11.1.14 Conducted Power of Wi-Fi 2.4G

Mode	802.11b			Tune-up(dBm)
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)	20.00
Average Power(dBm)	19.49	19.61	19.66	
Mode	802.11g			
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)	20.00
Average Power(dBm)	19.61	19.81	19.96	
Mode	802.11n(HT20)			
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)	20.00
Average Power(dBm)	19.23	19.43	19.63	

11.1.15 Conducted Power of BT

EDR	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	9.50	9.07	9.36	8.40
	π/4QPSK	10.00	9.81	9.11	8.53
	8DPSK	10.00	9.97	9.34	8.69
BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	19	39
			2402MHz	2440MHz	2480MHz
	1Mbps	2.00	1.62	1.51	0.72

Note

- Per KDB 447498 D04 Interim General RF Exposure Guidance v01, the 1-g SAR test exclusion thresholds for 300 MHz to 6 GHz at test separation distances ≤ 40 cm are determined by:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

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

- Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

11.1.16 Tune-up power tolerance

Band	Tune-up power tolerance(dBm)	
GSM850	GSM/GPRS (GMSK)	GSM Max output power = 34.00
		1TXslots Max output power =34.00
		2TXslots Max output power =32.00
		3TXslots Max output power =30.00
	EGPRS (8-PSK)	4TXslots Max output power =27.50
		1TXslots Max output power =27.50
		2TXslots Max output power =26.50
		3TXslots Max output power =24.00
GSM1900	GSM/GPRS (GMSK)	4TXslots Max output power =21.50
		GSM Max output power =31.00
		1TXslots Max output power =31.00
		2TXslots Max output power =28.50
	EGPRS (8-PSK)	3TXslots Max output power =27.00
		4TXslots Max output power =24.50
		1TXslots Max output power =27.00
		2TXslots Max output power =25.50
WCDMA 2	Max output power =25.00	
WCDMA 4	Max output power =24.50	
WCDMA 5	Max output power =24.60	
LTE B2	Max output power =24.00	
LTE B4	Max output power =24.50	
LTE B5	Max output power =24.50	
LTE B7	Max output power =24.00	
LTE B12	Max output power =24.00	
LTE B17	Max output power =24.50	
LTE B26(814-824)	Max output power =24.00	
LTE B26(824-849)	Max output power =24.50	
LTE B38	Max output power =23.50	
LTE B41	Max output power =23.50	
LTE B66	Max output power =25.00	
WIFI(2.4G)	802.11b	Max output power =20.00
	802.11g	Max output power =20.00
	802.11n (HT20)	Max output power =20.00
BT	GFSK mode	Max output power =9.50
	Pi/4DQPSK mode	Max output power =10.00
	8DPSK mode	Max output power =10.00
BLE	1Mbps Power	Max output power =2.00

11.2 SAR test results

Notes:

- 1) Per KDB447498 ,the SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the scaled SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit ($< 0.8 \text{ W/kg}$), testing at the high and low channels is optional.
- 2) Per KDB447498 , testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is: $\leq 0.8 \text{ W/kg}$ or 2.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\leq 100 \text{ MHz}$. When the maximum output power variation across the required test channels is $> \frac{1}{2} \text{ dB}$, instead of the middle channel, the highest output power channel must be used.
- 3) Per KDB447498 , All measurement SAR result is scaled-up to account for tune-up tolerance is compliant.
- 4) Per KDB648474 D04v01r02, body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn with headset SAR.
- 5) Per KDB248227 D01v01r02, the procedures required to establish specific device operating configurations for testing the SAR of 802.11 a/b/g transmitters.
 - (1) For Headsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is $\leq 0.4 \text{ W/kg}$, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is $\leq 0.8 \text{ W/kg}$ or all test positions are measured.
 - (2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is $\leq 0.8 \text{ W/kg}$, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is $\leq 1.2 \text{ W/kg}$.

(3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.

6) Per KDB865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/Kg; if the deviation among the repeated measurement is $\leq 20\%$, and the measured SAR < 1.45 W/Kg, only one repeated measurement is required.

7) Per KDB865664 D02v01r01, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; Plots are also required when the measured SAR is > 1.5 W/kg, or > 7.0 W/kg for occupational exposure. The published RF exposure KDB procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan post-processing (Refer to appendix B for details).

8) Per KDB941225 D06v01r01, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

9) Per KDB 941225 D01, 3G SAR Measurement Procedures, The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

10) Per KDB 941225 D05, SAR Evaluation Considerations for LTE Devices

(1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

(2) 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. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be

tested.

(3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> 1/2$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is $> 1/2$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

11.3 Test Result

11.3.1 Results overview of GSM

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GSM 850 (voice)	Left Cheek	190	836.6	-0.030	0.179	100	1.00	33.97	34.00	1.007	0.180
	Left Tilt	190	836.6	0.010	0.106	100	1.00	33.97	34.00	1.007	0.107
	Right Cheek	190	836.6	0.060	0.195	100	1.00	33.97	34.00	1.007	0.196
	Right Tilt	190	836.6	0.060	0.111	100	1.00	33.97	34.00	1.007	0.112
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
EGPRS 850+1slots	Front	190	836.6	-0.070	0.144	100	1.00	33.97	34.00	1.007	0.145
	Back	190	836.6	-0.070	0.176	100	1.00	33.97	34.00	1.007	0.177
	Left	190	836.6	0.060	0.131	100	1.00	33.97	34.00	1.007	0.132
	right	190	836.6	-0.040	0.110	100	1.00	33.97	34.00	1.007	0.111
	Top	190	836.6	-0.020	0.007	100	1.00	33.97	34.00	1.007	0.007
	Bottom	190	836.6	0.090	0.001	100	1.00	33.97	34.00	1.007	0.001

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GSM 1900 (voice)	Left Cheek	512	1850.2	-0.110	0.061	100	1.00	30.73	31.00	1.064	0.065
	Left Tilt	512	1850.2	-0.040	0.111	100	1.00	30.73	31.00	1.064	0.118
	Right Cheek	512	1850.2	0.070	0.098	100	1.00	30.73	31.00	1.064	0.104
	Right Tilt	512	1850.2	-0.060	0.178	100	1.00	30.73	31.00	1.064	0.189
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
EGPRS 1900+1slots	Front	512	1850.2	0.110	0.315	100	1.00	30.73	31.00	1.064	0.335
	Back	512	1850.2	-0.080	0.373	100	1.00	30.73	31.00	1.064	0.397
	Left	512	1850.2	-0.050	0.226	100	1.00	30.73	31.00	1.064	0.240
	right	512	1850.2	0.030	0.043	100	1.00	30.73	31.00	1.064	0.046
	Top	512	1850.2	-0.010	0.276	100	1.00	30.73	31.00	1.064	0.294
	Bottom	512	1850.2	0.010	0.015	100	1.00	30.73	31.00	1.064	0.016
	Top	512	1850.2	0.110	0.315	100	1.00	30.73	31.00	1.064	0.335

11.3.2 Results overview of WCDMA

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 2 (RMC*)	Left Cheek	9262	1852.4	0.090	0.233	100	1.00	24.70	25.00	1.072	0.250
	Left Tilt	9262	1852.4	-0.010	0.354	100	1.00	24.70	25.00	1.072	0.379
	Right Cheek	9262	1852.4	0.030	0.350	100	1.00	24.70	25.00	1.072	0.375
	Right Tilt	9262	1852.4	-0.080	0.537	100	1.00	24.70	25.00	1.072	0.575
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 2 (RMC*)	Front	9262	1852.4	0.020	0.131	100	1.00	24.70	25.00	1.072	0.140
	Back	9262	1852.4	0.160	0.150	100	1.00	24.70	25.00	1.072	0.161
	Left	9262	1852.4	0.020	0.089	100	1.00	24.70	25.00	1.072	0.095
	right	9262	1852.4	-0.080	0.016	100	1.00	24.70	25.00	1.072	0.017
	Top	9262	1852.4	0.070	0.115	100	1.00	24.70	25.00	1.072	0.123
	Bottom	9262	1852.4	0.110	0.005	100	1.00	24.70	25.00	1.072	0.005

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 4 (RMC*)	Left Cheek	1413	1732.6	-0.110	0.257	100	1.00	24.29	24.50	1.050	0.270
	Left Tilt	1413	1732.6	-0.070	0.421	100	1.00	24.29	24.50	1.050	0.442
	Right Cheek	1413	1732.6	0.040	0.355	100	1.00	24.29	24.50	1.050	0.373
	Right Tilt	1413	1732.6	-0.170	0.621	100	1.00	24.29	24.50	1.050	0.652
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 4 (RMC*)	Front	1413	1732.6	0.130	0.140	100	1.00	24.29	24.50	1.050	0.147
	Back	1413	1732.6	-0.050	0.154	100	1.00	24.29	24.50	1.050	0.162
	Left	1413	1732.6	0.110	0.095	100	1.00	24.29	24.50	1.050	0.100
	right	1413	1732.6	0.070	0.017	100	1.00	24.29	24.50	1.050	0.018
	Top	1413	1732.6	-0.050	0.119	100	1.00	24.29	24.50	1.050	0.125
	Bottom	1413	1732.6	-0.010	0.005	100	1.00	24.29	24.50	1.050	0.005

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 5 (RMC*)	Left Cheek	4132	826.4	-0.040	0.195	100	1.00	24.60	25.00	1.096	0.214
	Left Tilt	4132	826.4	0.110	0.102	100	1.00	24.60	25.00	1.096	0.112
	Right Cheek	4132	826.4	0.030	0.226	100	1.00	24.60	25.00	1.096	0.248
	Right Tilt	4132	826.4	0.090	0.116	100	1.00	24.60	25.00	1.096	0.127
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 5 (RMC*)	Front	4132	826.4	-0.090	0.192	100	1.00	24.60	25.00	1.096	0.211
	Back	4132	826.4	-0.030	0.235	100	1.00	24.60	25.00	1.096	0.258
	Left	4132	826.4	0.080	0.174	100	1.00	24.60	25.00	1.096	0.191
	right	4132	826.4	-0.050	0.146	100	1.00	24.60	25.00	1.096	0.160
	Top	4132	826.4	-0.020	0.009	100	1.00	24.60	25.00	1.096	0.010
	Bottom	4132	826.4	0.120	0.002	100	1.00	24.60	25.00	1.096	0.002

11.3.3 Results overview of LTE

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 2 (BW: 20MHz)	1RB	Left Cheek	18900	1880.0	-0.160	0.223	100	1.00	23.95	24.00	1.012	0.226
		Left Tilt	18900	1880.0	0.140	0.157	100	1.00	23.95	24.00	1.012	0.159
		Right Cheek	18900	1880.0	-0.060	0.531	100	1.00	23.95	24.00	1.012	0.537
		Right Tilt	18900	1880.0	-0.010	0.444	100	1.00	23.95	24.00	1.012	0.449
	50%RB	Left Cheek	18900	1880.0	-0.120	0.167	100	1.00	23.95	24.00	1.012	0.169
		Left Tilt	18900	1880.0	0.100	0.117	100	1.00	23.95	24.00	1.012	0.118
		Right Cheek	18900	1880.0	-0.040	0.398	100	1.00	23.95	24.00	1.012	0.403
		Right Tilt	18900	1880.0	-0.070	0.333	100	1.00	23.95	24.00	1.012	0.337
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 2 (BW: 20MHz)	1RB	Front	18900	1880.0	0.180	0.118	100	1.00	23.95	24.00	1.012	0.119
		Back	18900	1880.0	-0.010	0.150	100	1.00	23.95	24.00	1.012	0.152
		Left	18900	1880.0	0.130	0.107	100	1.00	23.95	24.00	1.012	0.108
		right	18900	1880.0	0.110	0.018	100	1.00	23.95	24.00	1.012	0.018
		Top	18900	1880.0	-0.170	0.004	100	1.00	23.95	24.00	1.012	0.004
		Bottom	18900	1880.0	0.020	0.001	100	1.00	23.95	24.00	1.012	0.001
	50%RB	Front	18900	1880.0	0.130	0.088	100	1.00	23.95	24.00	1.012	0.089
		Back	18900	1880.0	-0.070	0.112	100	1.00	23.95	24.00	1.012	0.113
		Left	18900	1880.0	0.090	0.080	100	1.00	23.95	24.00	1.012	0.081
		right	18900	1880.0	0.080	0.013	100	1.00	23.95	24.00	1.012	0.013
		Top	18900	1880.0	-0.120	0.003	100	1.00	23.95	24.00	1.012	0.003
		Bottom	18900	1880.0	0.010	0.001	100	1.00	23.95	24.00	1.012	0.001

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 4 (BW: 20MHz)	1RB	Left Cheek	20350	1750.0	-0.120	0.446	100	1.00	24.36	24.50	1.033	0.461
		Left Tilt	20350	1750.0	0.170	0.390	100	1.00	24.36	24.50	1.033	0.403
		Right Cheek	20350	1750.0	-0.140	0.521	100	1.00	24.36	24.50	1.033	0.538
		Right Tilt	20350	1750.0	-0.070	0.566	100	1.00	24.36	24.50	1.033	0.585
	50%RB	Left Cheek	20350	1750.0	-0.090	0.334	100	1.00	24.36	24.50	1.033	0.345
		Left Tilt	20350	1750.0	0.120	0.292	100	1.00	24.36	24.50	1.033	0.302
		Right Cheek	20350	1750.0	-0.100	0.390	100	1.00	24.36	24.50	1.033	0.403
		Right Tilt	20350	1750.0	-0.050	0.424	100	1.00	24.36	24.50	1.033	0.438
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 4 (BW: 20MHz)	1RB	Front	20350	1750.0	-0.080	0.103	100	1.00	24.36	24.50	1.033	0.106
		Back	20350	1750.0	-0.120	0.131	100	1.00	24.36	24.50	1.033	0.135
		Left	20350	1750.0	-0.050	0.084	100	1.00	24.36	24.50	1.033	0.087
		right	20350	1750.0	0.010	0.013	100	1.00	24.36	24.50	1.033	0.013
		Top	20350	1750.0	0.020	0.003	100	1.00	24.36	24.50	1.033	0.003
		Bottom	20350	1750.0	0.170	0.001	100	1.00	24.36	24.50	1.033	0.001
	50%RB	Front	20350	1750.0	-0.060	0.077	100	1.00	24.36	24.50	1.033	0.080
		Back	20350	1750.0	-0.090	0.098	100	1.00	24.36	24.50	1.033	0.101
		Left	20350	1750.0	-0.030	0.063	100	1.00	24.36	24.50	1.033	0.065
		right	20350	1750.0	0.070	0.009	100	1.00	24.36	24.50	1.033	0.009
		Top	20350	1750.0	0.150	0.002	100	1.00	24.36	24.50	1.033	0.002
		Bottom	20350	1750.0	0.120	0.001	100	1.00	24.36	24.50	1.033	0.001

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 5 (BW: 10MHz)	1RB	Left Cheek	20525	836.5	-0.040	0.229	100	1.00	24.18	24.50	1.076	0.247
		Left Tilt	20525	836.5	0.060	0.120	100	1.00	24.18	24.50	1.076	0.129
		Right Cheek	20525	836.5	0.170	0.236	100	1.00	24.18	24.50	1.076	0.254
		Right Tilt	20525	836.5	-0.040	0.121	100	1.00	24.18	24.50	1.076	0.130
	50%RB	Left Cheek	20525	836.5	0.160	0.188	100	1.00	24.18	24.50	1.076	0.202
		Left Tilt	20525	836.5	0.140	0.105	100	1.00	24.18	24.50	1.076	0.113
		Right Cheek	20525	836.5	-0.050	0.205	100	1.00	24.18	24.50	1.076	0.221
		Right Tilt	20525	836.5	-0.020	0.105	100	1.00	24.18	24.50	1.076	0.113
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 5 (BW: 10MHz)	1RB	Front	20525	836.5	0.030	0.183	100	1.00	24.18	24.50	1.076	0.197
		Back	20525	836.5	-0.040	0.227	100	1.00	24.18	24.50	1.076	0.244
		Left	20525	836.5	-0.160	0.175	100	1.00	24.18	24.50	1.076	0.188
		Right	20525	836.5	-0.110	0.145	100	1.00	24.18	24.50	1.076	0.156
		Top	20525	836.5	0.120	0.009	100	1.00	24.18	24.50	1.076	0.010
		Bottom	20525	836.5	0.010	0.001	100	1.00	24.18	24.50	1.076	0.001
	50%RB	Front	20525	836.5	-0.030	0.155	100	1.00	24.18	24.50	1.076	0.167
		Back	20525	836.5	-0.130	0.194	100	1.00	24.18	24.50	1.076	0.209
		Left	20525	836.5	0.050	0.147	100	1.00	24.18	24.50	1.076	0.158
		Right	20525	836.5	-0.130	0.126	100	1.00	24.18	24.50	1.076	0.136
		Top	20525	836.5	0.030	0.007	100	1.00	24.18	24.50	1.076	0.008
		Bottom	20525	836.5	-0.130	0.001	100	1.00	24.18	24.50	1.076	0.001

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 7 (BW: 20MHz)	1RB	Left Cheek	20800	2505.0	-0.020	0.313	100	1.00	23.61	24.00	1.094	0.342
		Left Tilt	20800	2505.0	0.010	0.205	100	1.00	23.61	24.00	1.094	0.224
		Right Cheek	20800	2505.0	0.080	0.442	100	1.00	23.61	24.00	1.094	0.484
		Right Tilt	20800	2505.0	0.010	0.603	100	1.00	23.61	24.00	1.094	0.660
	50%RB	Left Cheek	20800	2505.0	-0.150	0.234	100	1.00	23.61	24.00	1.094	0.256
		Left Tilt	20800	2505.0	0.070	0.153	100	1.00	23.61	24.00	1.094	0.167
		Right Cheek	20800	2505.0	0.060	0.331	100	1.00	23.61	24.00	1.094	0.362
		Right Tilt	20800	2505.0	0.070	0.452	100	1.00	23.61	24.00	1.094	0.494
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 7 (BW: 20MHz)	1RB	Front	20800	2505.0	0.040	0.082	100	1.00	23.61	24.00	1.094	0.090
		Back	20800	2505.0	-0.150	0.089	100	1.00	23.61	24.00	1.094	0.097
		Left	20800	2505.0	-0.020	0.083	100	1.00	23.61	24.00	1.094	0.091
		Right	20800	2505.0	0.120	0.020	100	1.00	23.61	24.00	1.094	0.022
		Top	20800	2505.0	-0.080	0.006	100	1.00	23.61	24.00	1.094	0.007
		Bottom	20800	2505.0	0.020	0.003	100	1.00	23.61	24.00	1.094	0.003
	50%RB	Front	20800	2505.0	0.030	0.061	100	1.00	23.61	24.00	1.094	0.067
		Back	20800	2505.0	-0.110	0.066	100	1.00	23.61	24.00	1.094	0.072
		Left	20800	2505.0	-0.150	0.062	100	1.00	23.61	24.00	1.094	0.068
		Right	20800	2505.0	0.090	0.015	100	1.00	23.61	24.00	1.094	0.016
		Top	20800	2505.0	-0.060	0.004	100	1.00	23.61	24.00	1.094	0.004
		Bottom	20800	2505.0	0.020	0.002	100	1.00	23.61	24.00	1.094	0.002

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 12 (BW: 10MHz)	1RB	Left Cheek	23095	707.5	-0.010	0.155	100	1.00	23.99	24.00	1.002	0.155
		Left Tilt	23095	707.5	-0.100	0.088	100	1.00	23.99	24.00	1.002	0.088
		Right Cheek	23095	707.5	0.040	0.155	100	1.00	23.99	24.00	1.002	0.155
		Right Tilt	23095	707.5	0.110	0.083	100	1.00	23.99	24.00	1.002	0.083
	50%RB	Left Cheek	23095	707.5	-0.060	0.135	100	1.00	23.99	24.00	1.002	0.135
		Left Tilt	23095	707.5	-0.040	0.076	100	1.00	23.99	24.00	1.002	0.076
		Right Cheek	23095	707.5	-0.160	0.133	100	1.00	23.99	24.00	1.002	0.133
		Right Tilt	23095	707.5	-0.110	0.072	100	1.00	23.99	24.00	1.002	0.072
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 12 (BW: 10MHz)	1RB	Front	23095	707.5	0.060	0.203	100	1.00	23.99	24.00	1.002	0.203
		Back	23095	707.5	-0.090	0.252	100	1.00	23.99	24.00	1.002	0.253
		Left	23095	707.5	-0.010	0.201	100	1.00	23.99	24.00	1.002	0.201
		Right	23095	707.5	0.110	0.161	100	1.00	23.99	24.00	1.002	0.161
		Top	23095	707.5	0.100	0.010	100	1.00	23.99	24.00	1.002	0.010
		Bottom	23095	707.5	-0.180	0.001	100	1.00	23.99	24.00	1.002	0.001
	50%RB	Front	23095	707.5	0.070	0.172	100	1.00	23.99	24.00	1.002	0.172
		Back	23095	707.5	0.100	0.203	100	1.00	23.99	24.00	1.002	0.203
		Left	23095	707.5	0.060	0.166	100	1.00	23.99	24.00	1.002	0.166
		Right	23095	707.5	0.130	0.136	100	1.00	23.99	24.00	1.002	0.136
		Top	23095	707.5	0.100	0.008	100	1.00	23.99	24.00	1.002	0.008
		Bottom	23095	707.5	-0.140	0.001	100	1.00	23.99	24.00	1.002	0.001

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Left Cheek	23800	711.0	0.090	0.175	100	1.00	24.02	24.50	1.117	0.195
		Left Tilt	23800	711.0	0.130	0.090	100	1.00	24.02	24.50	1.117	0.101
		Right Cheek	23800	711.0	-0.010	0.184	100	1.00	24.02	24.50	1.117	0.206
		Right Tilt	23800	711.0	0.100	0.096	100	1.00	24.02	24.50	1.117	0.107
	50%RB	Left Cheek	23800	711.0	0.040	0.151	100	1.00	24.02	24.50	1.117	0.169
		Left Tilt	23800	711.0	-0.160	0.073	100	1.00	24.02	24.50	1.117	0.082
		Right Cheek	23800	711.0	-0.080	0.156	100	1.00	24.02	24.50	1.117	0.174
		Right Tilt	23800	711.0	0.090	0.081	100	1.00	24.02	24.50	1.117	0.090
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Front	23800	711.0	0.180	0.205	100	1.00	24.02	24.50	1.117	0.229
		Back	23800	711.0	-0.080	0.254	100	1.00	24.02	24.50	1.117	0.284
		Left	23800	711.0	0.090	0.205	100	1.00	24.02	24.50	1.117	0.229
		Right	23800	711.0	-0.100	0.158	100	1.00	24.02	24.50	1.117	0.176
		Top	23800	711.0	0.040	0.008	100	1.00	24.02	24.50	1.117	0.009
		Bottom	23800	711.0	-0.070	0.001	100	1.00	24.02	24.50	1.117	0.001
	50%RB	Front	23800	711.0	0.010	0.170	100	1.00	24.02	24.50	1.117	0.190
		Back	23800	711.0	-0.140	0.217	100	1.00	24.02	24.50	1.117	0.242
		Left	23800	711.0	-0.100	0.174	100	1.00	24.02	24.50	1.117	0.194
		Right	23800	711.0	-0.160	0.126	100	1.00	24.02	24.50	1.117	0.141
		Top	23800	711.0	0.090	0.007	100	1.00	24.02	24.50	1.117	0.008
		Bottom	23800	711.0	-0.190	0.001	100	1.00	24.02	24.50	1.117	0.001

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 26 (814-824) (BW: 1.4MHz)	1RB	Left Cheek	26740	819.0	-0.140	0.201	100	1.00	23.80	24.00	1.047	0.210
		Left Tilt	26740	819.0	0.020	0.169	100	1.00	23.80	24.00	1.047	0.177
		Right Cheek	26740	819.0	0.010	0.182	100	1.00	23.80	24.00	1.047	0.191
		Right Tilt	26740	819.0	-0.070	0.109	100	1.00	23.80	24.00	1.047	0.114
	50%RB	Left Cheek	26740	819.0	-0.100	0.150	100	1.00	23.80	24.00	1.047	0.157
		Left Tilt	26740	819.0	0.010	0.126	100	1.00	23.80	24.00	1.047	0.132
		Right Cheek	26740	819.0	0.070	0.136	100	1.00	23.80	24.00	1.047	0.142
		Right Tilt	26740	819.0	-0.050	0.081	100	1.00	23.80	24.00	1.047	0.085
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 26 (814-824) (BW: 1.4MHz)	1RB	Front	26740	819.0	0.060	0.183	100	1.00	23.80	24.00	1.047	0.192
		Back	26740	819.0	-0.010	0.257	100	1.00	23.80	24.00	1.047	0.269
		Left	26740	819.0	-0.120	0.226	100	1.00	23.80	24.00	1.047	0.237
		Right	26740	819.0	-0.060	0.172	100	1.00	23.80	24.00	1.047	0.180
		Top	26740	819.0	-0.150	0.004	100	1.00	23.80	24.00	1.047	0.004
		Bottom	26740	819.0	0.030	0.013	100	1.00	23.80	24.00	1.047	0.014
	50%RB	Front	26740	819.0	0.020	0.137	100	1.00	23.80	24.00	1.047	0.143
		Back	26740	819.0	-0.050	0.192	100	1.00	23.80	24.00	1.047	0.201
		Left	26740	819.0	-0.090	0.170	100	1.00	23.80	24.00	1.047	0.177
		Right	26740	819.0	-0.040	0.129	100	1.00	23.80	24.00	1.047	0.135
		Top	26740	819.0	-0.110	0.003	100	1.00	23.80	24.00	1.047	0.003
		Bottom	26740	819.0	0.020	0.009	100	1.00	23.80	24.00	1.047	0.009

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 26 (824-849) (BW: 15MHz)	1RB	Left Cheek	26915	836.5	0.020	0.189	100	1.00	24.21	24.50	1.069	0.202
		Left Tilt	26915	836.5	0.070	0.101	100	1.00	24.21	24.50	1.069	0.108
		Right Cheek	26915	836.5	0.060	0.198	100	1.00	24.21	24.50	1.069	0.212
		Right Tilt	26915	836.5	0.050	0.106	100	1.00	24.21	24.50	1.069	0.113
	50%RB	Left Cheek	26915	836.5	0.010	0.141	100	1.00	24.21	24.50	1.069	0.151
		Left Tilt	26915	836.5	0.150	0.075	100	1.00	24.21	24.50	1.069	0.080
		Right Cheek	26915	836.5	0.040	0.148	100	1.00	24.21	24.50	1.069	0.158
		Right Tilt	26915	836.5	0.030	0.079	100	1.00	24.21	24.50	1.069	0.084
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 26 (824-849) (BW: 15MHz)	1RB	Front	26915	836.5	0.110	0.199	100	1.00	24.21	24.50	1.069	0.213
		Back	26915	836.5	-0.080	0.255	100	1.00	24.21	24.50	1.069	0.273
		Left	26915	836.5	-0.120	0.214	100	1.00	24.21	24.50	1.069	0.229
		Right	26915	836.5	-0.070	0.168	100	1.00	24.21	24.50	1.069	0.180
		Top	26915	836.5	-0.100	0.003	100	1.00	24.21	24.50	1.069	0.003
		Bottom	26915	836.5	0.010	0.015	100	1.00	24.21	24.50	1.069	0.016
	50%RB	Front	26915	836.5	0.080	0.149	100	1.00	24.21	24.50	1.069	0.159
		Back	26915	836.5	-0.060	0.191	100	1.00	24.21	24.50	1.069	0.204
		Left	26915	836.5	-0.090	0.160	100	1.00	24.21	24.50	1.069	0.171
		Right	26915	836.5	-0.020	0.126	100	1.00	24.21	24.50	1.069	0.135
		Top	26915	836.5	-0.170	0.002	100	1.00	24.21	24.50	1.069	0.002
		Bottom	26915	836.5	0.070	0.011	100	1.00	24.21	24.50	1.069	0.012

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Left Cheek	37800	2575.0	-0.050	0.204	100	1.00	23.25	23.50	1.059	0.216
		Left Tilt	37800	2575.0	0.130	0.348	100	1.00	23.25	23.50	1.059	0.369
		Right Cheek	37800	2575.0	0.180	0.419	100	1.00	23.25	23.50	1.059	0.444
		Right Tilt	37800	2575.0	-0.080	0.721	100	1.00	23.25	23.50	1.059	0.764
	50%RB	Left Cheek	37800	2575.0	-0.030	0.153	100	1.00	23.25	23.50	1.059	0.162
		Left Tilt	37800	2575.0	0.090	0.261	100	1.00	23.25	23.50	1.059	0.276
		Right Cheek	37800	2575.0	0.130	0.314	100	1.00	23.25	23.50	1.059	0.333
		Right Tilt	37800	2575.0	-0.060	0.540	100	1.00	23.25	23.50	1.059	0.572
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Front	37800	2575.0	0.190	0.094	100	1.00	23.25	23.50	1.059	0.100
		Back	37800	2575.0	0.020	0.118	100	1.00	23.25	23.50	1.059	0.125
		Left	37800	2575.0	-0.050	0.027	100	1.00	23.25	23.50	1.059	0.029
		Right	37800	2575.0	0.070	0.011	100	1.00	23.25	23.50	1.059	0.012
		Top	37800	2575.0	-0.080	0.133	100	1.00	23.25	23.50	1.059	0.141
		Bottom	37800	2575.0	0.030	0.002	100	1.00	23.25	23.50	1.059	0.002
	50%RB	Front	37800	2575.0	0.140	0.070	100	1.00	23.25	23.50	1.059	0.074
		Back	37800	2575.0	0.150	0.088	100	1.00	23.25	23.50	1.059	0.093
		Left	37800	2575.0	-0.030	0.020	100	1.00	23.25	23.50	1.059	0.021
		Right	37800	2575.0	0.050	0.008	100	1.00	23.25	23.50	1.059	0.008
		Top	37800	2575.0	-0.060	0.099	100	1.00	23.25	23.50	1.059	0.105
		Bottom	37800	2575.0	0.020	0.001	100	1.00	23.25	23.50	1.059	0.001

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	1RB	Left Cheek	41165	2647.5	0.060	0.083	100	1.00	23.19	23.50	1.074	0.089
		Left Tilt	41165	2647.5	-0.090	0.194	100	1.00	23.19	23.50	1.074	0.208
		Right Cheek	41165	2647.5	-0.050	0.221	100	1.00	23.19	23.50	1.074	0.237
		Right Tilt	41165	2647.5	-0.120	0.520	100	1.00	23.19	23.50	1.074	0.558
		Right Tilt	39750	2506.0	0.030	0.748	100	1.00	23.19	23.50	1.074	0.803
		Right Tilt	40185	2549.5	-0.180	0.393	100	1.00	23.19	23.50	1.074	0.422
		Right Tilt	41055	2636.5	0.120	0.761	100	1.00	23.19	23.50	1.074	0.817
		Right Tilt	41490	2680.0	0.060	0.374	100	1.00	23.19	23.50	1.074	0.402
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	1RB	Front	41165	2647.5	0.130	0.088	100	1.00	23.19	23.50	1.074	0.095
		Back	41165	2647.5	-0.070	0.110	100	1.00	23.19	23.50	1.074	0.118
		Left	41165	2647.5	0.020	0.026	100	1.00	23.19	23.50	1.074	0.028
		Right	41165	2647.5	0.030	0.010	100	1.00	23.19	23.50	1.074	0.011
		Top	41165	2647.5	0.010	0.127	100	1.00	23.19	23.50	1.074	0.136
		Bottom	41165	2647.5	-0.070	0.002	100	1.00	23.19	23.50	1.074	0.002
		Top	39750	2506.0	0.110	0.078	100	1.00	23.19	23.50	1.074	0.084
		Top	40185	2549.5	0.140	0.073	100	1.00	23.19	23.50	1.074	0.078
		Top	41055	2636.5	0.040	0.237	100	1.00	23.19	23.50	1.074	0.255
		Top	41490	2680.0	-0.190	0.254	100	1.00	23.19	23.50	1.074	0.273

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	50%RB	Left Cheek	41165	2647.5	0.040	0.062	100	1.00	23.19	23.50	1.074	0.067
		Left Tilt	41165	2647.5	-0.060	0.145	100	1.00	23.19	23.50	1.074	0.156
		Right Cheek	41165	2647.5	-0.030	0.165	100	1.00	23.19	23.50	1.074	0.177
		Right Tilt	41165	2647.5	-0.090	0.390	100	1.00	23.19	23.50	1.074	0.419
		Right Tilt	40140	2506.0	0.020	0.561	100	1.00	23.19	23.50	1.074	0.603
		Right Tilt	40185	2549.5	-0.130	0.294	100	1.00	23.19	23.50	1.074	0.316
		Right Tilt	41055	2636.5	-0.150	0.570	100	1.00	23.19	23.50	1.074	0.612
		Right Tilt	41140	2680.0	0.040	0.280	100	1.00	23.19	23.50	1.074	0.301
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	50%RB	Front	41165	2647.5	0.090	0.066	100	1.00	23.19	23.50	1.074	0.071
		Back	41165	2647.5	-0.050	0.082	100	1.00	23.19	23.50	1.074	0.088
		Left	41165	2647.5	0.150	0.019	100	1.00	23.19	23.50	1.074	0.020
		Right	41165	2647.5	0.020	0.007	100	1.00	23.19	23.50	1.074	0.008
		Top	41165	2647.5	0.070	0.095	100	1.00	23.19	23.50	1.074	0.102
		Bottom	41165	2647.5	-0.050	0.001	100	1.00	23.19	23.50	1.074	0.001
		Top	40140	2506.0	0.080	0.058	100	1.00	23.19	23.50	1.074	0.062
		Top	40185	2549.5	0.100	0.054	100	1.00	23.19	23.50	1.074	0.058
		Top	41055	2636.5	0.030	0.177	100	1.00	23.19	23.50	1.074	0.190
		Top	41140	2680.0	-0.140	0.190	100	1.00	23.19	23.50	1.074	0.204

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 66 (BW: 20MHz)	1RB	Left Cheek	132322	1745.0	-0.040	0.290	100	1.00	24.60	25.00	1.096	0.318
		Left Tilt	132322	1745.0	-0.170	0.325	100	1.00	24.60	25.00	1.096	0.356
		Right Cheek	132322	1745.0	-0.140	0.476	100	1.00	24.60	25.00	1.096	0.522
		Right Tilt	132322	1745.0	0.020	0.397	100	1.00	24.60	25.00	1.096	0.435
	50%RB	Left Cheek	132322	1745.0	-0.030	0.217	100	1.00	24.60	25.00	1.096	0.238
		Left Tilt	132322	1745.0	-0.120	0.243	100	1.00	24.60	25.00	1.096	0.266
		Right Cheek	132322	1745.0	-0.100	0.357	100	1.00	24.60	25.00	1.096	0.391
		Right Tilt	132322	1745.0	0.150	0.297	100	1.00	24.60	25.00	1.096	0.326
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 66 (BW: 20MHz)	1RB	Front	132322	1745.0	-0.180	0.109	100	1.00	24.60	25.00	1.096	0.120
		Back	132322	1745.0	-0.090	0.131	100	1.00	24.60	25.00	1.096	0.144
		Left	132322	1745.0	0.010	0.084	100	1.00	24.60	25.00	1.096	0.092
		Right	132322	1745.0	-0.090	0.008	100	1.00	24.60	25.00	1.096	0.009
		Top	132322	1745.0	0.080	0.002	100	1.00	24.60	25.00	1.096	0.002
		Bottom	132322	1745.0	0.150	0.001	100	1.00	24.60	25.00	1.096	0.001
	50%RB	Front	132322	1745.0	-0.130	0.081	100	1.00	24.60	25.00	1.096	0.089
		Back	132322	1745.0	-0.060	0.098	100	1.00	24.60	25.00	1.096	0.107
		Left	132322	1745.0	0.070	0.063	100	1.00	24.60	25.00	1.096	0.069
		Right	132322	1745.0	-0.060	0.006	100	1.00	24.60	25.00	1.096	0.007
		Top	132322	1745.0	0.060	0.002	100	1.00	24.60	25.00	1.096	0.002
		Bottom	132322	1745.0	0.110	0.001	100	1.00	24.60	25.00	1.096	0.001

11.3.4 Results overview of WIFI&BT

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
2.4gWi-Fi 802.11n(HT20)	Left Cheek	11	2462	0.040	0.271	100	1.00	19.96	20.00	1.009	0.274
	Left Tilt	11	2462	0.018	0.420	100	1.00	19.96	20.00	1.009	0.424
	Right Cheek	11	2462	0.030	0.169	100	1.00	19.96	20.00	1.009	0.171
	Right Tilt	11	2462	0.000	0.248	100	1.00	19.96	20.00	1.009	0.250
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
2.4gWi-Fi 802.11n(HT20)	Front	11	2462	0.030	0.067	100	1.00	19.96	20.00	1.009	0.068
	Back	11	2462	0.060	0.085	100	1.00	19.96	20.00	1.009	0.086
	Left	11	2462	-0.110	0.003	100	1.00	19.96	20.00	1.009	0.003
	Right	11	2462	0.020	0.009	100	1.00	19.96	20.00	1.009	0.009
	Top	11	2462	-0.100	0.099	100	1.00	19.96	20.00	1.009	0.100
	Bottom	11	2462	-0.130	0.001	100	1.00	19.96	20.00	1.009	0.001

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Bluetooth	Left Cheek	0	2402	0.160	0.065	100	1.00	9.97	10.00	1.007	0.065
	Left Tilt	0	2402	0.120	0.121	100	1.00	9.97	10.00	1.007	0.122
	Right Cheek	0	2402	0.060	0.023	100	1.00	9.97	10.00	1.007	0.023
	Right Tilt	0	2402	0.180	0.044	100	1.00	9.97	10.00	1.007	0.044
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Bluetooth	Front	0	2402	0.110	0.016	100	1.00	9.97	10.00	1.007	0.016
	Back	0	2402	0.190	0.018	100	1.00	9.97	10.00	1.007	0.018
	Left	0	2402	0.030	0.006	100	1.00	9.97	10.00	1.007	0.006
	Right	0	2402	-0.150	0.002	100	1.00	9.97	10.00	1.007	0.002
	Top	0	2402	-0.190	0.030	100	1.00	9.97	10.00	1.007	0.030
	Bottom	0	2402	0.070	0.001	100	1.00	9.97	10.00	1.007	0.001

Note:

- 1.The maximum SAR Value of each test band is marked bold.
- 2.SAR plot is provided only for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
- 3.Per KDB 447498 D01 v06, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8\text{W/kg}$, other channels SAR testing is not necessary.
- 4.Per KDB 447498 D01 v06, head/body-worn use is evaluated with the device positioned at 0mm/10 mm from a head/flat phantom respectively filled with head tissue-equivalent medium.
- 5.Per KDB Publication 941225 D06 where SAR test considerations for handsets (L x W $\geq 9\text{ cm} \times 5\text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.
- 6.Per KDB 447498 D01 v06, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor= $10^{[(\text{tune-up limit power(dBm)} - \text{Ave.power power (dBm)})/10]}$, where tune-up limit is the maximum rated power among all production units.
- 7.Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor.

12 Multiple Transmitter Information

The SAR measurement positions of each side are as below:



< Rear Side >

Mode	Front side	Rear side	Left side	Right side	Top side	Bottom side
2G/3G/4G Antenna	Yes	Yes	Yes	Yes	Yes	Yes
Wi-Fi/BT Antenna	Yes	Yes	Yes	Yes	Yes	Yes

- 1) Per KDB941225 D06V01r01, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

12.1 Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities are as below:

Simultaneous Transmission Possibilities					
Simultaneous Tx Combination	Configuration	Head	Body	Hotspot	
1	WWAN +BT	YES	YES	YES	
2	WWAN+2.4GWi-Fi	YES	YES	YES	

Note: The relevant synchronous transmission technical specification materials are provided by the applicant.

12.1.1 SAR Summation Scenario

Head

Band	Test Position	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+BT Σ SAR (W/kg)	Llimit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
GSM850 (voice)	Left Cheek	0.180	0.274	0.065	0.454	0.245	1.6
	Left Tilt	0.107	0.424	0.122	0.531	0.229	
	Right Cheek	0.196	0.171	0.023	0.367	0.219	
	Right Tilt	0.112	0.250	0.044	0.362	0.156	
GSM1900 (voice)	Left Cheek	0.065	0.274	0.065	0.339	0.130	
	Left Tilt	0.118	0.424	0.122	0.542	0.240	
	Right Cheek	0.104	0.171	0.023	0.275	0.127	
	Right Tilt	0.189	0.250	0.044	0.439	0.233	
WCDMA Band 2	Left Cheek	0.250	0.274	0.065	0.524	0.315	
	Left Tilt	0.379	0.424	0.122	0.803	0.501	
	Right Cheek	0.375	0.171	0.023	0.546	0.398	
	Right Tilt	0.575	0.250	0.044	0.825	0.619	
WCDMA Band 4	Left Cheek	0.270	0.274	0.065	0.544	0.335	
	Left Tilt	0.442	0.424	0.122	0.866	0.564	
	Right Cheek	0.373	0.171	0.023	0.544	0.396	
	Right Tilt	0.652	0.250	0.044	0.902	0.696	
WCDMA Band 5	Left Cheek	0.214	0.274	0.065	0.488	0.279	
	Left Tilt	0.112	0.424	0.122	0.536	0.234	
	Right Cheek	0.248	0.171	0.023	0.419	0.271	
	Right Tilt	0.127	0.250	0.044	0.377	0.171	

Band	Test Position	Scaled SAR				WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+BT Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 2 QPSK (20MHz)	Left Cheek	1RB	0.226	0.274	0.065	0.500	0.291	1.6
	Left Tilt		0.159	0.424	0.122	0.583	0.281	
	Right Cheek		0.537	0.171	0.023	0.708	0.560	
	Right Tilt		0.449	0.250	0.044	0.699	0.493	
	Left Cheek	50%RB	0.169	0.274	0.065	0.443	0.234	
	Left Tilt		0.118	0.424	0.122	0.542	0.240	
	Right Cheek		0.403	0.171	0.023	0.574	0.426	
	Right Tilt		0.337	0.250	0.044	0.587	0.381	
LTE Band 4 QPSK (20MHz)	Left Cheek	1RB	0.461	0.274	0.065	0.735	0.526	
	Left Tilt		0.403	0.424	0.122	0.827	0.525	
	Right Cheek		0.538	0.171	0.023	0.709	0.561	
	Right Tilt		0.585	0.250	0.044	0.835	0.629	
	Left Cheek	50%RB	0.345	0.274	0.065	0.619	0.410	
	Left Tilt		0.302	0.424	0.122	0.726	0.424	
	Right Cheek		0.403	0.171	0.023	0.574	0.426	
	Right Tilt		0.438	0.250	0.044	0.688	0.482	
LTE Band 5 QPSK (10MHz)	Left Cheek	1RB	0.247	0.274	0.065	0.521	0.312	
	Left Tilt		0.129	0.424	0.122	0.553	0.251	
	Right Cheek		0.254	0.171	0.023	0.425	0.277	
	Right Tilt		0.130	0.250	0.044	0.380	0.174	
	Left Cheek	50%RB	0.202	0.274	0.065	0.476	0.267	
	Left Tilt		0.113	0.424	0.122	0.537	0.235	
	Right Cheek		0.221	0.171	0.023	0.392	0.244	
	Right Tilt		0.113	0.250	0.044	0.363	0.157	
LTE Band 7 QPSK (10MHz)	Left Cheek	1RB	0.342	0.274	0.065	0.616	0.407	
	Left Tilt		0.224	0.424	0.122	0.648	0.346	
	Right Cheek		0.484	0.171	0.023	0.655	0.507	
	Right Tilt		0.660	0.250	0.044	0.910	0.704	
	Left Cheek	50%RB	0.256	0.274	0.065	0.530	0.321	
	Left Tilt		0.167	0.424	0.122	0.591	0.289	
	Right Cheek		0.362	0.171	0.023	0.533	0.385	
	Right Tilt		0.494	0.250	0.044	0.744	0.538	
LTE Band 12 QPSK (10MHz)	Left Cheek	1RB	0.155	0.274	0.065	0.429	0.220	
	Left Tilt		0.088	0.424	0.122	0.512	0.210	
	Right Cheek		0.155	0.171	0.023	0.326	0.178	
	Right Tilt		0.083	0.250	0.044	0.333	0.127	
	Left Cheek	50%RB	0.135	0.274	0.065	0.409	0.200	
	Left Tilt		0.076	0.424	0.122	0.500	0.198	
	Right Cheek		0.133	0.171	0.023	0.304	0.156	
	Right Tilt		0.072	0.250	0.044	0.322	0.116	
LTE Band 17 QPSK (10MHz)	Left Cheek	1RB	0.195	0.274	0.065	0.469	0.260	
	Left Tilt		0.101	0.424	0.122	0.525	0.223	
	Right Cheek		0.206	0.171	0.023	0.377	0.229	
	Right Tilt		0.107	0.250	0.044	0.357	0.151	
	Left Cheek	50%RB	0.169	0.274	0.065	0.443	0.234	
	Left Tilt		0.082	0.424	0.122	0.506	0.204	
	Right Cheek		0.174	0.171	0.023	0.345	0.197	
	Right Tilt		0.090	0.250	0.044	0.340	0.134	
LTE Band 26 QPSK (1.4MHz)	Left Cheek	1RB	0.210	0.274	0.065	0.484	0.275	
	Left Tilt		0.177	0.424	0.122	0.601	0.299	
	Right Cheek		0.191	0.171	0.023	0.362	0.214	
	Right Tilt		0.114	0.250	0.044	0.364	0.158	
	Left Cheek	50%RB	0.157	0.274	0.065	0.431	0.222	
	Left Tilt		0.132	0.424	0.122	0.556	0.254	
	Right Cheek		0.142	0.171	0.023	0.313	0.165	
	Right Tilt		0.085	0.250	0.044	0.335	0.129	

Band	Test Position	Scaled SAR				WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+BT Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 26 QPSK (15MHz)	Left Cheek	1RB	0.202	0.274	0.065	0.476	0.267	1.6
	Left Tilt		0.108	0.424	0.122	0.532	0.230	
	Right Cheek		0.212	0.171	0.023	0.383	0.235	
	Right Tilt		0.113	0.250	0.044	0.363	0.157	
	Left Cheek	50%RB	0.151	0.274	0.065	0.425	0.216	
	Left Tilt		0.080	0.424	0.122	0.504	0.202	
	Right Cheek		0.158	0.171	0.023	0.329	0.181	
	Right Tilt		0.084	0.250	0.044	0.334	0.128	
LTE Band 38 QPSK (20MHz)	Left Cheek	1RB	0.216	0.274	0.065	0.490	0.281	
	Left Tilt		0.369	0.424	0.122	0.793	0.491	
	Right Cheek		0.444	0.171	0.023	0.615	0.467	
	Right Tilt		0.764	0.250	0.044	1.014	0.808	
	Left Cheek	50%RB	0.162	0.274	0.065	0.436	0.227	
	Left Tilt		0.276	0.424	0.122	0.700	0.398	
	Right Cheek		0.333	0.171	0.023	0.504	0.356	
	Right Tilt		0.572	0.250	0.044	0.822	0.616	
LTE Band 41 QPSK (20MHz)	Left Cheek	1RB	0.089	0.274	0.065	0.363	0.154	
	Left Tilt		0.208	0.424	0.122	0.632	0.330	
	Right Cheek		0.237	0.171	0.023	0.408	0.260	
	Right Tilt		0.817	0.250	0.044	1.067	0.861	
	Left Cheek	50%RB	0.067	0.274	0.065	0.341	0.132	
	Left Tilt		0.156	0.424	0.122	0.580	0.278	
	Right Cheek		0.177	0.171	0.023	0.348	0.200	
	Right Tilt		0.612	0.250	0.044	0.862	0.656	
LTE Band 66 QPSK (20MHz)	Left Cheek	1RB	0.318	0.274	0.065	0.592	0.383	
	Left Tilt		0.356	0.424	0.122	0.780	0.478	
	Right Cheek		0.522	0.171	0.023	0.693	0.545	
	Right Tilt		0.435	0.250	0.044	0.685	0.479	
	Left Cheek	50%RB	0.238	0.274	0.065	0.512	0.303	
	Left Tilt		0.266	0.424	0.122	0.690	0.388	
	Right Cheek		0.391	0.171	0.023	0.562	0.414	
	Right Tilt		0.326	0.250	0.044	0.576	0.370	

Hotspot(body-worn10mm)

Band	Test Position	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+BT Σ SAR (W/kg)	Llimit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
GSM850 (EGPRS 1slots)	Front	0.145	0.068	0.016	0.213	0.161	1.6
	Back	0.177	0.086	0.018	0.263	0.195	
	Left	0.132	0.003	0.006	0.135	0.138	
	Right	0.111	0.009	0.002	0.120	0.113	
	Top	0.007	0.100	0.030	0.107	0.037	
	Bottom	0.001	0.001	0.001	0.002	0.002	
GSM1900 (EGPRS 1slots)	Front	0.335	0.068	0.016	0.403	0.351	
	Back	0.397	0.086	0.018	0.483	0.415	
	Left	0.240	0.003	0.006	0.243	0.246	
	Right	0.046	0.009	0.002	0.055	0.048	
	Top	0.294	0.100	0.030	0.394	0.324	
	Bottom	0.016	0.001	0.001	0.017	0.017	
WCDMA Band 2	Front	0.140	0.068	0.016	0.208	0.156	
	Back	0.161	0.086	0.018	0.247	0.179	
	Left	0.095	0.003	0.006	0.098	0.101	
	Right	0.017	0.009	0.002	0.026	0.019	
	Top	0.123	0.100	0.030	0.223	0.153	
	Bottom	0.005	0.001	0.001	0.006	0.006	
WCDMA Band 4	Front	0.147	0.068	0.016	0.215	0.163	
	Back	0.162	0.086	0.018	0.248	0.180	
	Left	0.100	0.003	0.006	0.103	0.106	
	Right	0.018	0.009	0.002	0.027	0.020	
	Top	0.125	0.100	0.030	0.225	0.155	
	Bottom	0.005	0.001	0.001	0.006	0.006	
WCDMA Band 5	Front	0.211	0.068	0.016	0.279	0.227	
	Back	0.258	0.086	0.018	0.344	0.276	
	Left	0.191	0.003	0.006	0.194	0.197	
	Right	0.160	0.009	0.002	0.169	0.162	
	Top	0.010	0.100	0.030	0.110	0.040	
	Bottom	0.002	0.001	0.001	0.003	0.003	

Band	Test Position	RB allocation	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+BT Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 2	Front	1RB	0.119	0.068	0.016	0.187	0.135	1.6
	Back		0.152	0.086	0.018	0.238	0.170	
	Left		0.108	0.003	0.006	0.111	0.114	
	Right		0.018	0.009	0.002	0.027	0.020	
	Top		0.004	0.100	0.030	0.104	0.034	
	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	50%RB	0.089	0.068	0.016	0.157	0.105	
	Back		0.113	0.086	0.018	0.199	0.131	
	Left		0.081	0.003	0.006	0.084	0.087	
	Right		0.013	0.009	0.002	0.022	0.015	
	Top		0.003	0.100	0.030	0.103	0.033	
LTE Band 4	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	1RB	0.106	0.068	0.016	0.174	0.122	
	Back		0.135	0.086	0.018	0.221	0.153	
	Left		0.087	0.003	0.006	0.090	0.093	
	Right		0.013	0.009	0.002	0.022	0.015	
	Top		0.003	0.100	0.030	0.103	0.033	
	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	50%RB	0.080	0.068	0.016	0.148	0.096	
	Back		0.101	0.086	0.018	0.187	0.119	
	Left		0.065	0.003	0.006	0.068	0.071	
	Right		0.009	0.009	0.002	0.018	0.011	
	Top		0.002	0.100	0.030	0.102	0.032	
LTE Band 5	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	1RB	0.197	0.068	0.016	0.265	0.213	
	Back		0.244	0.086	0.018	0.330	0.262	
	Left		0.188	0.003	0.006	0.191	0.194	
	Right		0.156	0.009	0.002	0.165	0.158	
	Top		0.010	0.100	0.030	0.110	0.040	
	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	50%RB	0.167	0.068	0.016	0.235	0.183	
	Back		0.209	0.086	0.018	0.295	0.227	
	Left		0.158	0.003	0.006	0.161	0.164	
	Right		0.136	0.009	0.002	0.145	0.138	
	Top		0.008	0.100	0.030	0.108	0.038	
LTE Band 7	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	1RB	0.090	0.068	0.016	0.158	0.106	
	Back		0.097	0.086	0.018	0.183	0.115	
	Left		0.091	0.003	0.006	0.094	0.097	
	Right		0.022	0.009	0.002	0.031	0.024	
	Top		0.007	0.100	0.030	0.107	0.037	
	Bottom		0.003	0.001	0.001	0.004	0.004	
	Front	50%RB	0.067	0.068	0.016	0.135	0.083	
	Back		0.072	0.086	0.018	0.158	0.090	
	Left		0.068	0.003	0.006	0.071	0.074	
	Right		0.016	0.009	0.002	0.025	0.018	
LTE Band 12	Top		0.004	0.100	0.030	0.104	0.034	
	Bottom		0.002	0.001	0.001	0.003	0.003	
	Front	1RB	0.203	0.068	0.016	0.271	0.219	
	Back		0.253	0.086	0.018	0.339	0.271	
	Left		0.201	0.003	0.006	0.204	0.207	
	Right		0.161	0.009	0.002	0.170	0.163	
	Top		0.010	0.100	0.030	0.110	0.040	
	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	50%RB	0.172	0.068	0.016	0.240	0.188	
	Back		0.203	0.086	0.018	0.289	0.221	
	Left		0.166	0.003	0.006	0.169	0.172	
	Right		0.136	0.009	0.002	0.145	0.138	
	Top		0.008	0.100	0.030	0.108	0.038	
	Bottom		0.001	0.001	0.001	0.002	0.002	

Band	Test Position	RB allocation	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+BT Σ SAR (W/kg)	Limit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 17	Front	1RB	0.229	0.068	0.016	0.297	0.245	1.6
	Back		0.284	0.086	0.018	0.370	0.302	
	Left		0.229	0.003	0.006	0.232	0.235	
	Right		0.176	0.009	0.002	0.185	0.178	
	Top		0.009	0.100	0.030	0.109	0.039	
	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	50%RB	0.190	0.068	0.016	0.258	0.206	
	Back		0.242	0.086	0.018	0.328	0.260	
	Left		0.194	0.003	0.006	0.197	0.200	
	Right		0.141	0.009	0.002	0.150	0.143	
	Top		0.008	0.100	0.030	0.108	0.038	
LTE Band 26 (814-824)	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	1RB	0.192	0.068	0.016	0.260	0.208	
	Back		0.269	0.086	0.018	0.355	0.287	
	Left		0.237	0.003	0.006	0.240	0.243	
	Right		0.180	0.009	0.002	0.189	0.182	
	Top		0.004	0.100	0.030	0.104	0.034	
	Bottom		0.014	0.001	0.001	0.015	0.015	
	Front	50%RB	0.143	0.068	0.016	0.211	0.159	
	Back		0.201	0.086	0.018	0.287	0.219	
	Left		0.177	0.003	0.006	0.180	0.183	
	Right		0.135	0.009	0.002	0.144	0.137	
LTE Band 26 (824-849)	Top		0.003	0.100	0.030	0.103	0.033	
	Bottom		0.009	0.001	0.001	0.010	0.010	
	Front	1RB	0.213	0.068	0.016	0.281	0.229	
	Back		0.273	0.086	0.018	0.359	0.291	
	Left		0.229	0.003	0.006	0.232	0.235	
	Right		0.180	0.009	0.002	0.189	0.182	
	Top		0.003	0.100	0.030	0.103	0.033	
	Bottom		0.016	0.001	0.001	0.017	0.017	
	Front	50%RB	0.159	0.068	0.016	0.227	0.175	
	Back		0.204	0.086	0.018	0.290	0.222	
LTE Band 38	Left		0.171	0.003	0.006	0.174	0.177	
	Right		0.135	0.009	0.002	0.144	0.137	
	Top		0.002	0.100	0.030	0.102	0.032	
	Bottom		0.012	0.001	0.001	0.013	0.013	
	Front	1RB	0.100	0.068	0.016	0.168	0.116	
	Back		0.125	0.086	0.018	0.211	0.143	
	Left		0.029	0.003	0.006	0.032	0.035	
	Right		0.012	0.009	0.002	0.021	0.014	
	Top		0.141	0.100	0.030	0.241	0.171	
LTE Band 41	Bottom		0.002	0.001	0.001	0.003	0.003	
	Front	50%RB	0.074	0.068	0.016	0.142	0.090	
	Back		0.093	0.086	0.018	0.179	0.111	
	Left		0.021	0.003	0.006	0.024	0.027	
	Right		0.008	0.009	0.002	0.017	0.010	
	Top		0.105	0.100	0.030	0.205	0.135	
	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	1RB	0.095	0.068	0.016	0.163	0.111	
	Back		0.118	0.086	0.018	0.204	0.136	
	Left		0.028	0.003	0.006	0.031	0.034	
	Right		0.011	0.009	0.002	0.020	0.013	
LTE Band 41	Top		0.136	0.100	0.030	0.236	0.166	
	Bottom		0.273	0.001	0.001	0.274	0.274	
	Front	50%RB	0.071	0.068	0.016	0.139	0.087	
	Back		0.088	0.086	0.018	0.174	0.106	
	Left		0.020	0.003	0.006	0.023	0.026	
	Right		0.008	0.009	0.002	0.017	0.010	
	Top		0.102	0.100	0.030	0.202	0.132	
	Bottom		0.204	0.001	0.001	0.205	0.205	

Band	Test Position	RB allocation	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+BT Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 66	Front	1RB	0.120	0.068	0.016	0.188	0.136	
	Back		0.144	0.086	0.018	0.230	0.162	
	Left		0.092	0.003	0.006	0.095	0.098	
	Right		0.009	0.009	0.002	0.018	0.011	
	Top		0.002	0.100	0.030	0.102	0.032	
	Bottom		0.001	0.001	0.001	0.002	0.002	
	Front	50%RB	0.089	0.068	0.016	0.157	0.105	
	Back		0.107	0.086	0.018	0.193	0.125	
	Left		0.069	0.003	0.006	0.072	0.075	
	Right		0.007	0.009	0.002	0.016	0.009	
	Top		0.002	0.100	0.030	0.102	0.032	
	Bottom		0.001	0.001	0.001	0.002	0.002	

13 Measurement uncertainty evaluation

13.1 Measurement uncertainty evaluation for SAR test

The following table includes the uncertainty table of the IEEE 1528. The values are determined by SPEAG. The breakdown of the individual uncertainties is as follows:

DASY8 Uncertainty Budget								
According to IEC/IEEE 62209-1528 (Frequency band: 300MHz-3GHz range)								
Symbol	Error Description	Uncert. value	Prob. Dist.	Div.	(ci) (1g)	(ci) (10g)	Std. Unc (1g)	Std. Unc (10g)
Measurement System Errors								
CF	Probe Calibration	±13.3%	N	2	1	1	±6.7%	±6.7%
CF _{drift}	Probe Calibration Drift	±1.7%	R	$\sqrt{3}$	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±2.8%	R	$\sqrt{3}$	1	1	±1.6%	±1.6%
ISO	Probe Isotropy	±7.6%	R	$\sqrt{3}$	1	1	±4.4%	±4.4%
DAE	Other Probe+Electronic	±0.8%	N	1	1	1	±0.8%	±0.8%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.006 mm	N	1	0.14	0.14	±0.10%	±0.10%
DAT	Data Processing	±1.2%	N	1	1	1	±1.2%	±1.2%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.)DAK	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.)BB	±3.3%	R	$\sqrt{3}$	0.78	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	$\sqrt{3}$	0	0	±0%	±0%
DIS	Distance DUT – TSL	±2.0%	N	1	2	2	±4.0%	±4.0%
D _{xyz}	Device Positioning	±1.0%	N	1	1	1	±1.0%	±1.0%
H	Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%
MOD	DUT Modulation ^m	±2.4%	R	$\sqrt{3}$	1	1	±1.4%	±1.4%
TAS	Time-average SAR	±1.7%	R	$\sqrt{3}$	1	1	±1.0%	±1.0%
RF _{drift}	DUT drift	±2.5%	N	1	1	1	±2.5%	±2.5%
VAL	Val Antenna Unc. ^{val}	±0.0%	N	1	1	1	±0.0%	±0.0%
RF _{in}	Unc.Input Power ^{val}	±0.0%	N	1	1	1	±0.0%	±0.0%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
C(R)	SAR scaling ^p	±0.0%	R	$\sqrt{3}$	1	1	±0.0%	±0.0%
u(ΔSAR)	Combined Uncertainty						±11.3%	±11.2%
U	Expanded Uncertainty						±22.6%	±22.5%

DASY8 Uncertainty Budget

According to IEC/IEEE 62209-1528
(Frequency band: 3GHz–6GHz range)

Symbol	Error Description	Uncert. value	Prob. Dist.	Div.	(ci) (1g)	(ci) (10g)	Std.Unc (1g)	Std.Unc (10g)
Measurement System Errors								
CF	Probe Calibration	±13.1%	N	2	1	1	±6.55%	±6.55%
CF _{drift}	Probe Calibration Drift	±1.7%	R	$\sqrt{3}$	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%
ISO	Probe Isotropy	±7.6%	R	$\sqrt{3}$	1	1	±4.4%	±4.4%
DAE	Other Probe+Electronic	±1.2%	N	1	1	1	±1.2%	±1.2%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.005 mm	N	1	0.29	0.29	±0.2%	±0.20%
DAT	Data Processing	±2.3%	N	1	1	1	±2.3%	±2.3%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.)DAK	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.)BB	±3.4%	R	$\sqrt{3}$	0.78	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	$\sqrt{3}$	0.25	0.25	±2.0%	±2.0%
DIS	Distance DUT – TSL	±2.0%	N	1	2	2	±4.0%	±4.0%
D _{xyz}	Device Positioning	±1.0%	N	1	1	1	±1.0%	±1.0%
H	Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%
MOD	DUT Modulation ^m	±2.4%	R	$\sqrt{3}$	1	1	±1.4%	±1.4%
TAS	Time-average SAR	±1.7%	R	$\sqrt{3}$	1	1	±1.0%	±1.0%
RF _{drift}	DUT drift	±2.5%	N	1	1	1	±2.5%	±2.5%
VAL	Val Antenna Unc. ^{val}	±0.0%	N	1	1	1	±0.0%	±0.0%
RF _{in}	Unc.Input Power ^{val}	±0.0%	N	1	1	1	±0.0%	±0.0%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
C(R)	SAR scaling ^p	±0.0%	R	$\sqrt{3}$	1	1	±0.0%	±0.0%
u(ΔSAR)	Combined Uncertainty						±11.6%	±11.6%
U	Expanded Uncertainty						±23.3%	±23.1%

13.2 Measurement uncertainty evaluation for system check

The following table includes the uncertainty table of the IEEE 1528. The values are determined by SPEAG. The breakdown of the individual uncertainties is as follows:

Uncertainty For System Performance Check								
Uncertainty Component	Tol. (±%)	Prob. Dist.	Div.	C _i 1g	C _i 10g	1g U _i (±%)	10g U _i (±%)	V _i
measurement system								
Probe Calibration	6.7	N	1	1	1	6.70	6.70	∞
Axial Isotropy	4.7	R	$\sqrt{3}$	0.7	0.7	1.90	1.90	∞
Hemispherical Isotropy	9.6	R	$\sqrt{3}$	0.7	0.7	3.88	3.88	∞
Boundary Effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
system detection Limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0	N	1	1	1	0.00	0.00	∞
Readout Electronics	0.3	N	1	1	1	0.30	0.30	∞
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
RF ambient Conditions - Noise	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
RF ambient Conditions – Reflections	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Probe positioned Mechanical Tolerance	0.8	R	$\sqrt{3}$	1	1	0.46	0.46	∞
Probe positioning with respect to Phantom Shell	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Dipole								
Deviation of experimental source from numerical source	5.5	N	1	1	1	3.18	3.18	∞
Input power and SAR drift measurement	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Dipole axis to liquid Distance	3.4	R	$\sqrt{3}$	1	1	1.96	1.96	∞
Phantom and Tissue Parameters								
Phantom Uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviation (in permittivity and conductivity)	2	N	1	1	0.84	2.0	1.68	∞
Liquid conductivity (meas.)	2.5	N	1	0.78	0.71	1.13	1.03	5
Liquid conductivity (target.)	5	R	$\sqrt{3}$	0.78	0.71	3.90	3.55	5
Liquid Permittivity (meas.)	2.5	N	1	0.23	0.26	0.33	0.38	∞
Liquid Permittivity (target.)	5	R	$\sqrt{3}$	0.23	0.26	1.15	1.30	∞
Combined Standard Uncertainty		Rss				11.29	11.18	
Expanded Uncertainty (95% Confidence interval)		k				20.57	19.95	

14 Test equipment and ancillaries used for tests

To simplify the identification of the test equipment and/or ancillaries which were used, the reporting of the relevant test cases only refer to the test item number as specified in the table below.

	Manufacturer	Device Type	Type(Model)	Serial number	calibration	
					Last Cal.	Due Date
☒	SPEAG	E-Field PROBE	EX3DV4	7951	2025-09-10	2026-09-09
☒	SPEAG	Validation Kits	D750V3	1151	2024-08-19	2027-08-18
☒	SPEAG	Validation Kits	D835V2	4d203	2024-08-20	2027-08-19
☒	SPEAG	Validation Kits	D1750V2	1143	2024-08-20	2027-08-19
☒	SPEAG	Validation Kits	D1900V2	5d211	2024-08-19	2027-08-18
☒	SPEAG	Validation Kits	D2450V2	1099	2026-03-05	2029-03-04
☒	SPEAG	Validation Sources	D2550V2	1015	2024-08-16	2027-08-15
☒	SPEAG	Validation Kits	D2600V2	1094	2026-03-04	2029-03-03
☐	SPEAG	Validation Sources	D3500V2	1164	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D3700V2	1139	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D3900V2	1106	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D4600V2	1097	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D4900V2	1093	2024-10-08	2027-10-07
☐	SPEAG	Validation Sources	D5GHzV2	1412	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D6.5GHzV2	1116	2024-10-14	2027-10-13
☒	SPEAG	DAE	DAE4ip	1921	2025-09-04	2026-09-03
☒	R & S	Universal Radio Communication Tester	CMU 200	119733	2025-11-27	2026-11-26
☒	R & S	Universal Radio Communication Tester	CMW500	144459	2025-11-27	2026-11-26
☒	R & S	UXM5G Wireless Test Platform	E7515B	MY60192341	2025-11-27	2026-11-26
☒	HP	Network Analyser	8753D	3410A08889	2025-11-27	2026-11-26
☒	HP	Signal Generator	E4421B	GB39340770	2025-11-27	2026-11-26
☒	Keithley	Multimeter	Keithley 2000	4014539	2025-11-27	2026-11-26
☒	SATIMO	Amplifier	Power Amplifier	MODU-023-A-0004	2025-11-27	2026-11-26
☒	Agilent	Power Meter	E4418B	GB43312909	2025-11-27	2026-11-26
☒	Agilent	Power Meter Sensor	E4412A	MY41500046	2025-11-27	2026-11-26

Annex A: System Check

(Please See the SAR Measurement Plots of annex A.)

Annex B: Measurement Results

(Please See the SAR Measurement Plots of annex B.)

Annex C: Calibration Reports

(Please See the Calibration reports of annex C.)

Annex D: Test Photographs

(Please see SAR test setup photos.)