

FCC SAR EVALUATION REPORT

**In accordance with the requirements of
FCC 47 CFR Part 2(2.1093) and
IEEE Std 1528-2013**

Product Name : Body Camera

Brand Name : HALO

Model Name : HS-40

Family Model : N/A

Report No. : N25071403333E

FCC ID : 2A9JS-HS-40

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TEST RESULT CERTIFICATION**Applicant's name** Halo Technologies Europe Ltd.Address..... Unit 11a Weavers Business Park, Linfield Road, Belfast, Antrim BT12 5GH,
Northern Ireland, United Kingdom**Manufacturer's Name** . Halo Technologies Europe Ltd.Address..... Unit 11a Weavers Business Park, Linfield Road, Belfast, Antrim BT12 5GH,
Northern Ireland, United Kingdom**Product description**

Product name Body Camera

Brand Name HALO

Model and/or type
reference HS-40

Family Model N/A

FCC 47 CFR Part 2(2.1093)

Standards IEEE Std 1528-2013

Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093). The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Test Sample Number S2508300103-1#

Date of Test

Date (s) of performance of tests... Sep. 01, 2025~Oct. 01, 2025

Date of Issue Oct. 21, 2025

Test Result **Pass**Prepared
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 Revision History
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REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Oct. 21, 2025	Owen Xiao

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1. General Information

1.1. RF exposure limits

(A).Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B).Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. **SAR for hands, wrists, feet and ankles** is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Occupational/Controlled Environments:

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

General Population/Uncontrolled Environments:

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

NOTE

HEAD AND TRUNK LIMIT

1.6 W/kg , EXTREMITY LIMIT 4.0 W/kg

APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for HS-40 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)				Max. Reported SAR (W/kg)
		PCE	DTS	NII	DSS	
1-g Body-Worn (Separation distance of 10mm)		0.823	0.063	0.099	0.049	1.102
1-g Hotspot (Separation distance of 10mm)		1.102	0.162	0.235	0.128	
Max Simultaneous Tx	Body-Worn	0.922	0.886	0.922	0.872	1.102
	Hotspot	1.102	1.102	1.102	1.102	

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093), and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information	
Product Name	Body Camera
Brand Name	HALO
Model Name	HS-40
Family Model	N/A
Model Difference	N/A
FCC ID	2A9JS-HS-40
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	PIFA Antenna
Battery Information	DC 3.85V, 4600mAh, 17.71Wh
RF Power Setting	Defaults
Test Software	Serial communication
HW Version	V12
SW Version	V1.2.0-2025101615
Device Operating Configurations	
Supporting Mode(s)	WCDMA Band 2/4/5, LTE Band 2/4/5/7/12/13/19/41/66, WLAN 2.4G/5G, Bluetooth, NFC (ASK)
Test Modulation	GSM (GMSK), WCDMA (QPSK), LTE (QPSK/16QAM), WLAN (DSSS/OFDM),

	Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 19	830-845	875-890
	LTE Band 41	2496-2690	
	LTE Band 66	1710-1780	2110-2200
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
	NFC	13.56	
Power Class	3, tested with power control “all 1”(WCDMA Band 2)		
	3, tested with power control “all 1”(WCDMA Band 4)		
	3, tested with power control “all 1”(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 12)		
	3, tested with power control all Max.(LTE Band 13)		
	3, tested with power control all Max.(LTE Band 19)		
	3, tested with power control all Max.(LTE Band 41)		
	3, tested with power control all Max.(LTE Band 66)		

1.4. Test specification(s)

FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04;
KDB 865664 D02 RF Exposure Reporting v01r02;
KDB 447498 D01 General RF Exposure Guidance v06;
KDB 248227 D01 802.11 Wi-Fi SAR v02r02;

KDB 941225 D01 3G SAR Procedures v03r01 ;

KDB 941225 D05 SAR for LTE Devices v01r02

KDB 941225 D06 Hotspot SAR v02r01;

KDB 648474 D04 Handset SAR v01r03;

1.5. Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

1.6. Facilities And Accreditations

1.6.1. Facilities

All measurement facilities used to collect the measurement data are located at Building 1, No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of IEC/IEEE 1528:2013

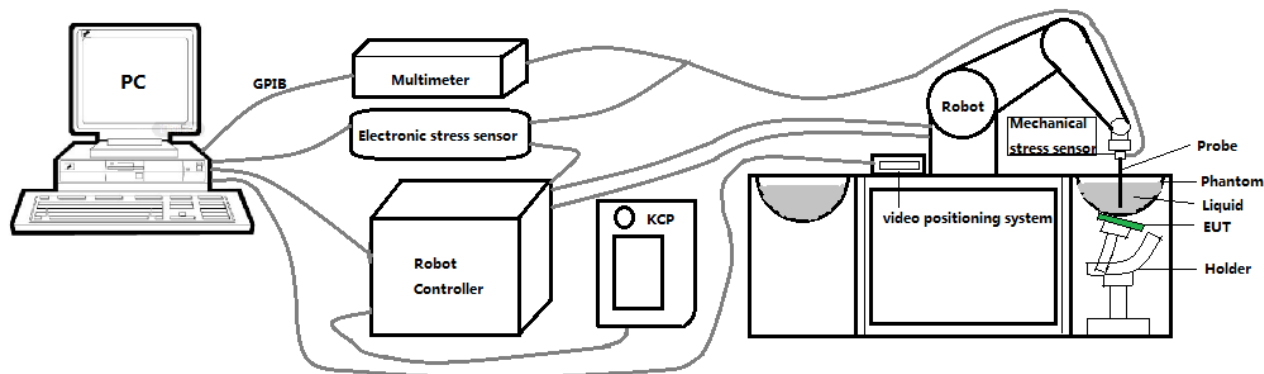
1.6.2. Laboratory Accreditations And Listings

Site Description

CNAS Lab. : The Certificate Registration Number is L5516
A2LA Lab. : The Certificate Registration Number is 4298.01
FCC Accredited : Test Firm Registration Number: 463705
Designation Number: CN1184
ISED Registration : Company Number: 9270A
CAB identifier: CN0074

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 901 mm), which positions the probes with a positional repeatability of better than ± 0.03 mm. The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation.

The first step of the field measurement is the evaluation of the voltages induced on the probe by the device under test. Probe diode detectors are nonlinear. Below the diode compression point, the output voltage is proportional to the square of the applied E-field; above the diode compression point, it is linear to the applied E-field. The compression point depends on the diode, and a calibration procedure is necessary for each sensor of the probe.

The Keithley multimeter reads the voltage of each sensor and send these three values to the PC. The corresponding E field value is calculated using the probe calibration factors, which are stored in the working directory. This evaluation includes linearization of the diode characteristics. The field calculation is done separately for each sensor. Each component of the E field is displayed on the "Dipole Area Scan Interface" and the total E field is displayed on the "3D Interface"

2.2. Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability ± 0.03 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

2.3. E-Field Probe

This E-field detection probe is composed of three orthogonal dipoles linked to special Schottky diodes with low detection thresholds. The probe allows the measurement of electric fields in liquids such as the one defined in the IEEE and CENELEC standards.

For the measurements the Specific Dosimetric E-Field Probe 4024-EPGO-448 with following specifications is used



- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 2.5 mm
- Distance between probe tip and sensor center: 1 mm
- Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ± 1 mm).
- Probe linearity: ± 0.06 dB
- Axial isotropy: ± 0.01 dB
- Hemispherical Isotropy: ± 0.01 dB
- Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
- Lower detection limit: 8mW/kg

Angle between probe axis (evaluation axis) and surface normal line: less than 30° .

2.3.1. E-Field Probe Calibration

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

2.4. SAM phantoms

Photo of SAM phantom SN 16/15 SAM119

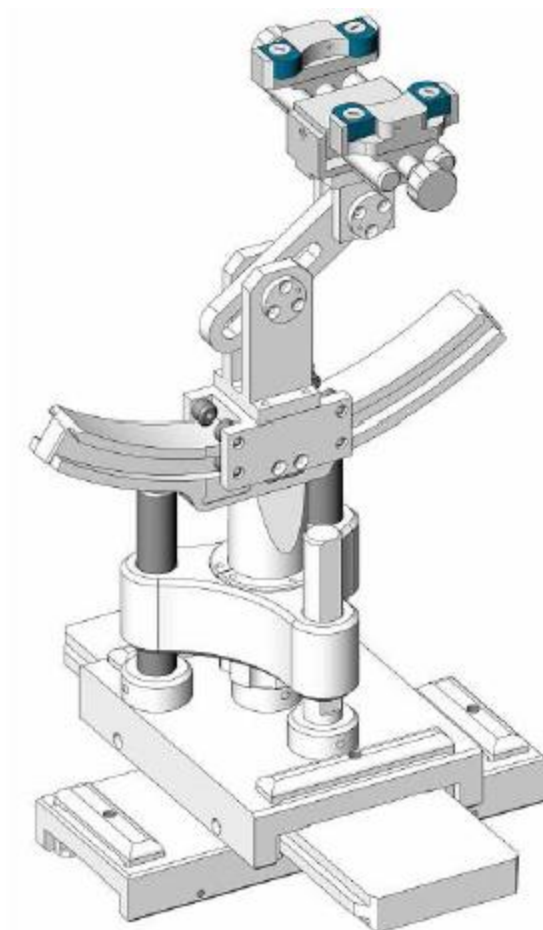


The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by Mobile Phones.

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 μm .

2.5. 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 degree.



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

2.6. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked ☒

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
☒	MVG	E FIELD PROBE	SSE2	0725-EPGO-448	Apr. 15, 2025	Apr. 14, 2026
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Feb. 22, 2024	Feb. 21, 2027
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
☒	MVG	Power Amplifier	N/A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	May. 12, 2025	May. 11, 2026
☒	R&S	Universal radio communication tester	CMU200	105747	Apr. 17, 2025	Apr. 16, 2026
☒	R&S	Wideband radio	CMW500	103917	May. 12, 2025	May. 11, 2026

		communication tester				
☒	Anritsu	4G LTE comprehensive tester	MT8821C	6262192315	Apr.16 2025	Apr.15 2026
☒	Anritsu	5G NR comprehensive tester	MT8000A	6262186364	Apr.16 2025	Apr.15 2026
☒	Keysight	Network Analyzer	E5071C	LPS-461	Jun. 3, 2025	Jun. 2, 2026
☒	Agilent	Calibration Kit	85033E	N/A	May. 31, 2024	May. 30, 2027
☒	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Apr. 17, 2025	Apr. 16, 2026
☒	Agilent	Power sensor	E9301A	LES-413-C	May. 6, 2025	May. 5, 2026
☒	Agilent	Power sensor	E9301A	US39212148	Apr. 17, 2025	Apr. 16, 2026
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Apr. 26, 2024	Apr. 25, 2027
☒	N/A	Thermometer	N/A	LES-085	Mar. 27, 2023	Mar. 26, 2026
☒	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR

Measurement Software

Manufacturer	Software Name	Software Version
SATIMO	OpenSAR	V5.3.15.11

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For Wi-Fi/BT power measurement, use engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- (d) Connect EUT RF port through RF cable to the power meter, and measure Wi-Fi/BT output power.

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix A demonstrates.
- (c) Set scan area, grid size and other setting on the OPENSAR software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band.
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg.

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

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

3.1. Power Reference

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

3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan

above the hot spot to calculate the 1g and 10g SAR value.

Measurement of the SAR distribution with a grid of 8 to 16 mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8 * 4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks; additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g., 1 W/kg for 1,6 W/kg 1 g limit, or 1,26 W/kg for 2 W/kg, 10 g limit).

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

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	≤ 1.5 · $\Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

3.3. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

3.4. Volumetric Scan

The volumetric scan consists to a full 3D scan over a specific area. This 3D scan is useful form multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scan to calculate the SAR value of the combined measurement as it is define in the standard IEEE1528 and IEC62209.

3.5. Power Drift

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In OpenSAR measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in V/m. If the power drifts more than $\pm 5\%$, the SAR will be retested.

4. System Verification Procedure

4.1. Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% of weight)	Head Tissue									
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5200	5800
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23

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 depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.

Photo of Liquid depth for Head Position	Photo of Liquid depth for Body Position
	

4.1.1. Tissue Dielectric Parameter Check Results

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 $\pm 5\%$ of the target values.

Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Delta(%)		Liquid Temp.	Test Date
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)		
Head 750	750	41.9	0.89	40.84	0.90	-2.53	1.12	21.1 °C	Sep. 05, 2025
Head 835	835	41.5	0.9	41.77	0.91	0.65	1.11	21.8 °C	Sep. 02, 2025
Head 1800	1800	40.00	1.40	38.55	1.37	-3.63	-2.14	21.1 °C	Oct. 01, 2025
Head 1900	1900	40.00	1.40	38.08	1.41	-4.8	0.71	21.5 °C	Sep. 03, 2025
Head 2450	2450	39.2	1.80	37.92	1.78	-3.27	-1.11	21.2 °C	Sep. 01, 2025
Head 2600	2600	39.01	1.96	39.84	1.97	2.13	0.51	21.3 °C	Sep. 14, 2025
Head 5200	5200	36.00	4.66	37.12	4.57	3.10	-1.91	21.7 °C	Sep. 15, 2025

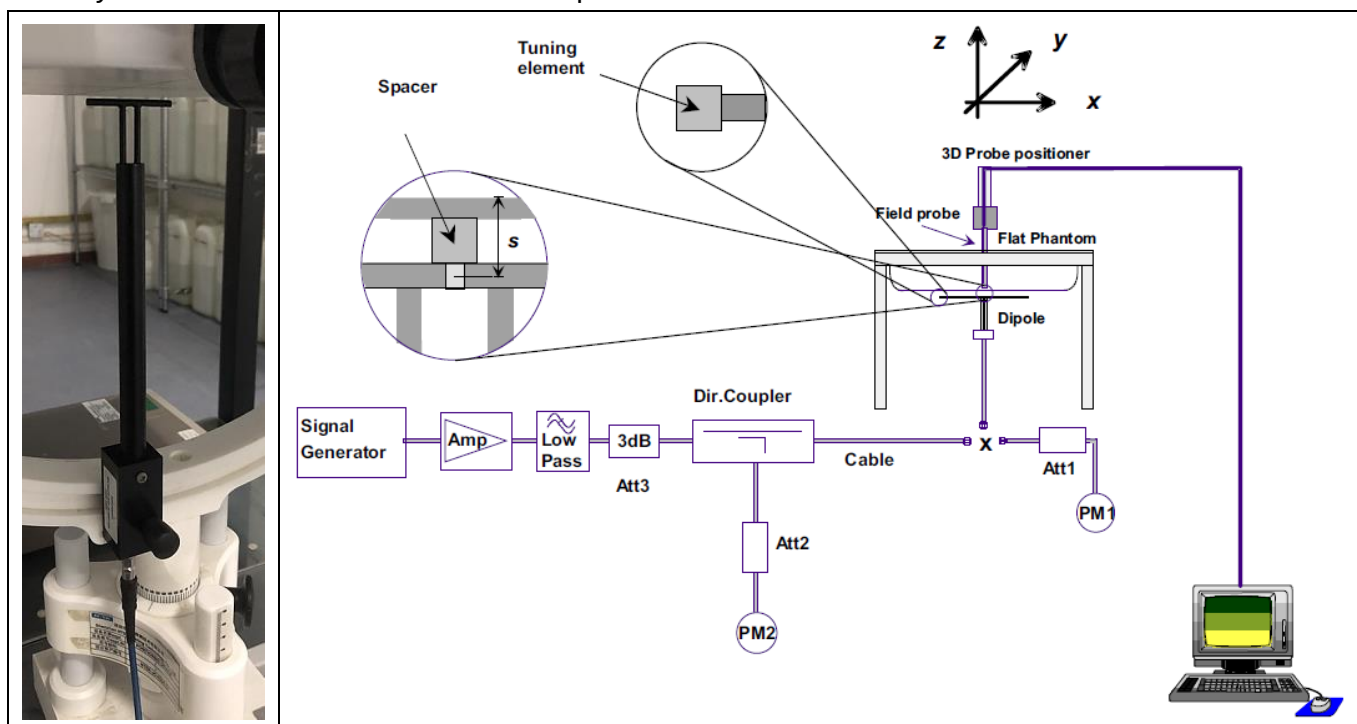
NOTE: 1. The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

2. Tested by : Max Zhou , Jack Peng

4.2. System Verification Procedure

The system verification is performed for verifying the accuracy of the complete measurement system and performance of the software. 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. To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification 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 system verification 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).

The system verification is shown as below picture:



4.2.1. System Verification Results

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

System Verification	Target SAR (1W)		Measured SAR			Measured SAR		Delta (%)		Liquid Temp.	Test Date
						(Normalized to 1W)					
	1-g (W/Kg)	10-g (W/Kg)	Input Power (mW)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (%)	10-g (%)		
750MHz	8.60	5.78	100.00	0.89	0.56	8.94	5.64	3.95	-2.42	21.1 °C	Sep. 05, 2025
835MHz	9.40	6.28	100.00	1.02	0.61	10.16	6.06	8.09	-3.50	21.8 °C	Sep. 02, 2025
1800MHz	37.06	20.01	100.00	3.66	1.85	36.55	18.47	-1.38	-7.70	21.1 °C	Oct. 01, 2025
1900MHz	39.69	20.92	100.00	4.20	2.07	42.01	20.68	5.85	-1.15	21.5 °C	Sep. 03, 2025
2450MHz	50.05	23.80	100.00	5.36	2.32	53.59	23.22	7.07	-2.44	21.2 °C	Sep. 01, 2025
2600MHz	54.16	24.85	100.00	5.26	2.32	52.62	23.21	-2.84	-6.60	21.3 °C	Sep. 14, 2025
5200MHz	162.59	56.21	10.00	1.62	0.55	162.10	55.30	-0.30	-1.62	21.7 °C	Sep. 15, 2025

Tested by : Max Zhou , Jack Peng

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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

5.2. SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

6. RF Exposure Positions

6.1. Generic device

The SAR evaluation shall be performed for surface of the DUT that are accessible during intended use, as indicated in Figure 6.1. Adjust the distance between the device surface and the flat phantom to 0mm.

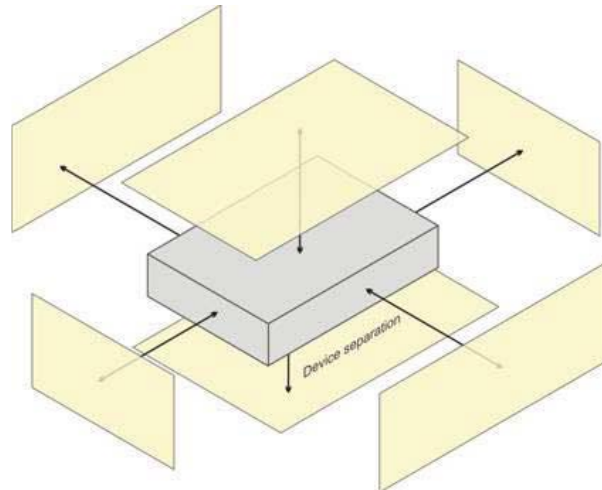


Figure 6.1 – Test positions for generic device

7. RF Output Power

WCDMA Band 2		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538	
Frequency (MHz)		1852.4	1880	1907.6	
RMC12.2K	22.50	22.25	22.38	22.47	
HSDPA Sub 1	22.00	21.31	21.62	21.53	
HSDPA Sub 2	21.50	21.20	21.31	21.24	
HSDPA Sub 3	20.50	20.22	20.37	20.22	
HSDPA Sub 4	20.50	19.92	20.45	19.79	
HSUPA Sub 1	21.50	20.69	21.11	20.94	
HSUPA Sub 2	22.00	21.53	21.84	21.75	
HSUPA Sub 3	21.50	21.05	21.46	20.94	
HSUPA Sub 4	22.00	21.85	21.84	21.51	
HSUPA Sub 5	21.50	21.02	21.11	21.03	
WCDMA Band 4		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513	
Frequency (MHz)		1712.4	1732.6	1752.6	
RMC12.2K	23.50	22.65	22.80	23.05	
HSDPA Sub 1	22.50	21.77	21.91	22.32	
HSDPA Sub 2	22.50	21.71	21.73	22.09	
HSDPA Sub 3	21.00	20.70	20.83	20.89	
HSDPA Sub 4	21.00	20.66	20.41	20.93	
HSUPA Sub 1	21.50	20.52	20.73	21.11	
HSUPA Sub 2	22.00	21.29	21.34	21.92	
HSUPA Sub 3	21.50	20.71	20.85	21.14	
HSUPA Sub 4	22.00	21.42	21.39	21.66	
HSUPA Sub 5	21.50	20.74	20.69	21.16	
WCDMA Band 5		Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233	
Frequency (MHz)		826.4	836.4	846.6	
RMC12.2K	23.00	22.72	22.73	22.75	
HSDPA Sub 1	22.00	21.72	21.75	21.67	
HSDPA Sub 2	22.00	21.53	21.52	21.47	
HSDPA Sub 3	21.00	20.43	20.65	20.51	
HSDPA Sub 4	21.00	20.62	20.69	20.31	

HSUPA Sub 1	21.50	21.02	21.01	21.04
HSUPA Sub 2	22.00	21.72	21.75	21.77
HSUPA Sub 3	21.50	21.04	21.23	21.12
HSUPA Sub 4	22.00	21.78	21.87	21.83
HSUPA Sub 5	21.50	21.20	21.14	20.91

7.1. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	23.50	22.77	22.80	22.50
			1	2	23.50	22.83	23.04	22.80
			1	5	23.50	22.65	22.94	22.76
			3	0	23.50	22.80	22.97	22.61
			3	1	23.50	23.05	22.99	22.71
			3	2	23.50	23.00	22.93	22.71
			6	0	22.00	21.93	21.88	21.64
		16QAM	1	0	22.00	21.77	21.92	21.87
			1	2	22.00	21.84	21.82	21.81
			1	5	22.00	21.68	21.78	21.36
			3	0	22.50	21.69	21.88	21.33
			3	1	22.50	21.94	22.15	21.74
			3	2	22.50	22.05	22.19	21.75
			6	0	21.50	20.99	21.08	20.52
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	23.50	22.86	22.97	22.69
			1	7	23.50	23.09	22.95	22.79
			1	14	23.50	23.18	22.93	22.74
			8	0	22.50	21.94	21.95	21.36
			8	4	22.50	22.05	21.96	21.84
			8	7	22.50	21.96	21.98	21.66
			15	0	22.50	21.90	22.02	21.42
		16QAM	1	0	22.00	21.69	21.73	21.45
			1	7	22.00	21.61	21.57	21.27
			1	14	22.00	21.73	21.66	21.18
			8	0	21.00	20.76	20.39	20.23
			8	4	21.00	20.62	20.52	20.57
			8	7	21.00	20.88	20.42	20.58
			15	0	21.00	20.66	20.97	20.29
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE	5MHz	QPSK	1	0	23.00	22.59	22.58	22.33

Band 2			1	12	23.00	22.97	22.73	22.80
			1	24	23.00	22.73	22.73	22.76
			12	0	22.00	21.57	21.72	21.23
			12	6	22.00	21.76	21.73	21.66
			12	11	22.00	21.72	21.75	21.54
			25	0	22.00	21.62	21.67	21.41
		16QAM	1	0	21.50	21.43	21.47	21.28
			1	12	21.50	21.47	21.37	21.14
			1	24	21.50	21.41	21.42	21.09
			12	0	21.00	20.34	20.37	19.99
			12	6	21.00	20.68	20.37	20.48
			12	11	21.00	20.47	20.47	20.54
			25	0	21.00	20.58	20.63	20.40
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	23.50	22.86	22.60	22.52
			1	24	23.50	23.14	22.95	22.72
			1	49	23.50	22.49	22.55	22.42
			25	0	22.00	21.58	21.83	21.43
			25	12	22.00	21.81	21.79	21.42
			25	24	22.00	21.63	21.46	21.37
			50	0	22.00	21.49	21.53	21.29
		16QAM	1	0	22.00	21.47	21.20	21.29
			1	24	22.00	21.92	21.47	21.31
			1	49	22.00	21.20	20.85	20.92
			25	0	21.00	20.41	20.56	20.28
			25	12	21.00	20.76	20.74	20.46
			25	24	21.00	20.59	20.61	20.50
			50	0	21.00	20.46	20.57	20.22
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	23.50	22.79	22.46	22.25
			1	37	23.50	23.02	22.85	22.33
			1	74	23.50	22.24	22.38	22.20
			36	0	22.00	21.33	21.52	21.53
			36	18	22.00	21.78	21.56	21.16
			36	37	22.00	21.52	21.57	21.10
			75	0	22.00	21.30	21.56	21.28

		16QAM	1	0	22.00	21.17	21.30	21.06
		16QAM	1	37	22.00	21.56	21.35	20.61
		16QAM	1	74	22.00	20.86	20.88	20.67
		16QAM	36	0	20.50	20.13	20.26	20.16
		16QAM	36	18	20.50	20.47	20.47	20.18
		16QAM	36	37	20.50	20.43	20.31	20.00
		16QAM	75	0	20.50	20.32	20.47	20.24
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	23.50	22.64	22.35	22.37
			1	49	23.50	23.10	23.02	22.77
			1	99	23.50	22.06	22.36	21.80
			50	0	22.50	22.46	22.27	22.34
			50	24	22.50	22.16	22.45	22.02
			50	49	22.50	22.16	22.30	21.87
			100	0	21.50	21.13	21.18	21.24
		16QAM	1	0	22.00	20.87	21.12	21.02
			1	49	22.00	21.78	21.42	21.13
			1	99	22.00	20.67	20.98	20.23
			50	0	20.50	20.10	20.10	20.29
			50	24	20.50	20.46	20.29	19.97
			50	49	20.50	20.11	20.33	19.86
			100	0	20.50	20.09	20.19	20.26

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	23.00	22.20	22.59	22.65
			1	2	23.00	22.53	22.67	22.75
			1	5	23.00	22.47	22.71	22.79
			3	0	23.00	22.51	22.76	22.77
			3	1	23.00	22.65	22.38	22.82
			3	2	23.00	22.61	22.65	22.77
			6	0	22.00	21.59	21.75	21.83
		16QAM	1	0	22.00	21.94	21.68	21.49
			1	2	22.00	21.96	21.63	21.65
			1	5	22.00	21.46	21.65	21.62
			3	0	22.00	21.31	21.59	21.59
			3	1	22.00	21.43	21.80	21.63

			3	2	22.00	21.43	21.76	21.61
			6	0	21.50	20.46	21.05	20.85
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	23.00	22.54	22.66	22.53
			1	7	23.00	22.71	22.84	22.74
			1	14	23.00	22.55	22.77	22.76
			8	0	22.00	21.67	21.90	21.91
			8	4	22.00	21.77	21.86	21.80
			8	7	22.00	21.68	21.84	21.89
			15	0	22.00	21.61	21.92	21.86
		16QAM	1	0	22.00	21.94	21.90	21.56
			1	7	22.00	21.52	21.53	21.53
			1	14	22.00	21.49	21.43	21.55
			8	0	21.00	20.32	20.48	20.70
			8	4	21.00	20.46	20.57	20.99
			8	7	21.00	20.43	20.93	20.88
			15	0	21.00	20.63	20.84	20.81
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	23.00	22.57	22.63	22.57
			1	12	23.00	22.61	22.78	22.80
			1	24	23.00	22.62	22.67	22.84
			12	0	22.00	21.65	21.72	21.86
			12	6	22.00	21.67	21.73	21.65
			12	11	22.00	21.58	21.65	21.72
			25	0	22.00	21.51	21.65	21.70
		16QAM	1	0	22.00	21.69	21.44	21.77
			1	12	22.00	21.47	21.40	21.31
			1	24	22.00	21.20	21.25	21.39
			12	0	21.00	20.30	20.49	20.40
			12	6	21.00	20.54	20.51	20.51
			12	11	21.00	20.53	20.37	20.66
			25	0	21.00	20.64	20.63	20.74
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE	10MHz	QPSK	1	0	23.00	22.45	22.51	22.32

Band 4			1	24	23.00	22.94	22.94	22.87
			1	49	23.00	22.25	22.20	22.60
			25	0	22.00	21.66	21.85	21.56
			25	12	22.00	21.76	21.74	21.53
			25	24	22.00	21.53	21.48	21.53
			50	0	22.00	21.58	21.56	21.46
		16QAM	1	0	22.00	21.22	21.32	21.08
			1	24	22.00	21.60	21.82	21.54
			1	49	22.00	20.88	20.92	20.88
			25	0	21.00	20.57	20.50	20.50
			25	12	21.00	20.64	20.69	20.70
			25	24	21.00	20.47	20.39	20.44
			50	0	21.00	20.51	20.49	20.44
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	23.50	22.39	22.33	22.23
			1	37	23.50	22.92	23.08	22.78
			1	74	23.50	22.44	22.02	22.21
			36	0	22.00	21.72	21.73	21.57
			36	18	22.00	21.54	21.59	21.34
			36	37	22.00	21.35	21.24	21.23
			75	0	22.00	21.53	21.36	21.22
		16QAM	1	0	22.00	21.26	21.01	21.03
			1	37	22.00	21.44	21.71	21.34
			1	74	22.00	20.89	20.66	20.76
			36	0	21.00	20.47	20.42	20.36
			36	18	21.00	20.52	20.57	20.41
			36	37	21.00	20.36	20.30	20.13
			75	0	20.50	20.42	20.47	20.24
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	23.00	22.16	22.22	22.27
			1	49	23.00	22.77	22.82	22.93
			1	99	23.00	22.13	21.95	22.19
			50	0	22.00	21.63	21.49	21.48
			50	24	22.00	21.32	21.43	21.15
			50	49	22.00	21.18	21.19	21.07
			100	0	21.50	21.25	21.25	21.07

		16QAM	1	0	22.00	21.03	21.06	20.94
			1	49	22.00	21.53	21.68	21.55
			1	99	22.00	20.42	20.46	20.57
			50	0	20.50	20.44	20.21	20.26
			50	24	20.50	20.35	20.34	20.29
			50	49	20.50	20.25	20.18	20.06
			100	0	20.50	20.39	20.26	20.07

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	23.00	22.44	22.32	22.25
			1	2	23.00	22.39	22.50	22.34
			1	5	23.00	22.32	22.43	22.46
			3	0	23.00	22.43	22.26	22.15
			3	1	23.00	22.50	22.32	22.15
			3	2	23.00	22.55	22.28	22.17
		16QAM	6	0	21.50	21.42	21.28	21.02
			1	0	21.50	21.30	21.13	21.09
			1	2	21.50	21.37	21.21	20.99
			1	5	21.50	21.25	21.15	20.87
			3	0	21.50	21.20	21.10	20.96
			3	1	21.50	21.41	21.20	21.20
			3	2	21.50	21.31	21.10	21.24
			6	0	20.50	20.23	20.19	20.17

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	22.50	22.28	22.15	22.35
			1	7	22.50	22.27	22.29	22.29
			1	14	22.50	22.23	22.31	22.18
			8	0	21.50	21.31	21.24	21.20
			8	4	21.50	21.18	21.25	21.25
			8	7	21.50	21.15	21.24	21.16
			15	0	21.50	21.22	21.20	21.01
		16QAM	1	0	21.50	21.45	21.47	21.06
			1	7	21.50	20.98	20.91	20.79
			1	14	21.50	20.82	20.72	20.66
			8	0	20.50	20.00	19.86	20.00
			8	4	20.50	19.93	20.18	20.28

			8	7	20.50	20.20	19.97	20.39
			15	0	20.50	20.00	19.95	20.18
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	22.50	22.17	22.30	22.24
			1	12	22.50	22.41	22.36	22.24
			1	24	22.50	22.17	22.16	22.12
			12	0	21.50	21.29	21.25	21.21
			12	6	21.50	21.23	21.23	21.16
			12	11	21.50	21.17	21.18	21.03
			25	0	21.50	21.20	21.10	21.08
		16QAM	1	0	21.50	21.30	20.84	20.94
			1	12	21.50	21.10	20.86	20.94
			1	24	21.50	20.58	20.67	20.59
			12	0	20.50	20.21	19.81	20.05
			12	6	20.50	20.31	20.09	20.13
			12	11	20.50	20.15	20.06	19.96
			25	0	20.50	20.17	20.18	20.18
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	23.00	22.27	22.15	22.21
			1	24	23.00	22.39	22.61	22.62
			1	49	23.00	22.16	22.04	21.98
			25	0	21.50	21.46	21.21	21.35
			25	12	21.50	21.07	21.32	21.28
			25	24	21.50	20.97	21.06	21.10
			50	0	21.50	21.14	21.09	21.17
		16QAM	1	0	21.50	21.07	20.86	20.92
			1	24	21.50	21.07	21.25	21.19
			1	49	21.50	20.49	20.47	20.33
			25	0	20.50	20.36	20.06	20.22
			25	12	20.50	20.45	20.28	20.25
			25	24	20.50	20.02	20.13	20.12
			50	0	20.50	20.23	20.05	20.15

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5

LTE Band 7	5MHz	QPSK	1	0	21.00	20.15	20.65	20.85
			1	12	21.00	20.30	20.77	20.99
			1	24	21.00	19.98	20.69	20.72
			12	0	20.50	19.19	19.93	20.08
			12	6	20.50	19.29	19.79	19.92
			12	11	20.50	19.18	19.79	19.77
			25	0	20.00	19.29	19.81	19.88
		16QAM	1	0	20.00	18.93	19.51	19.73
			1	12	20.00	19.01	19.44	19.68
			1	24	20.00	18.76	19.36	19.28
			12	0	19.00	17.94	18.73	18.89
			12	6	19.00	18.08	18.93	18.98
			12	11	19.00	17.97	18.71	18.78
			25	0	19.00	18.17	18.81	19.00
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	21.50	20.11	20.56	21.02
			1	24	21.50	20.71	21.16	21.23
			1	49	21.50	20.14	20.77	20.80
			25	0	20.50	19.22	20.09	20.47
			25	12	20.50	19.32	19.90	20.08
			25	24	20.50	19.11	19.70	19.81
			50	0	20.50	19.08	19.84	20.07
		16QAM	1	0	20.50	19.00	19.38	20.01
			1	24	20.50	19.31	19.82	19.81
			1	49	20.50	18.74	19.19	19.07
			25	0	19.50	18.00	18.92	19.33
			25	12	19.50	18.40	18.95	18.99
			25	24	19.50	18.19	18.82	18.75
			50	0	19.50	17.99	18.87	19.02
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	21.50	20.10	20.47	20.87
			1	37	21.50	20.78	20.92	21.06
			1	74	21.50	19.99	20.69	20.57
			36	0	21.00	19.12	19.97	20.63
			36	18	21.00	19.37	19.81	19.94
			36	37	21.00	19.11	19.75	19.78

		16QAM	75	0	20.50	19.02	19.80	20.04
			1	0	20.00	18.97	19.88	19.78
			1	37	20.00	19.34	19.62	19.67
			1	74	20.00	18.42	19.27	19.08
			36	0	19.50	17.93	18.81	19.28
			36	18	19.50	18.22	18.92	18.89
			36	37	19.50	17.95	18.67	18.76
			75	0	19.50	18.04	18.76	19.08
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	21.50	20.03	20.30	20.77
			1	49	21.50	20.82	21.03	21.43
			1	99	21.50	19.76	20.59	20.49
			50	0	21.00	19.31	19.97	20.59
			50	24	21.00	19.42	19.83	19.78
			50	49	21.00	19.06	19.67	19.70
			100	0	20.50	18.95	19.75	20.05
		16QAM	1	0	20.50	18.94	19.33	19.62
			1	49	20.50	19.44	19.71	20.03
			1	99	20.50	18.26	19.05	19.03
			50	0	19.50	17.96	18.72	19.24
			50	24	19.50	18.33	18.86	18.83
			50	49	19.50	18.00	18.57	18.68
			100	0	19.50	17.89	18.66	19.04

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	22.50	21.81	21.98	21.70
			1	2	22.50	21.81	22.17	21.87
			1	5	22.50	21.76	22.20	22.10
			3	0	22.50	21.68	22.22	22.08
			3	1	22.50	21.91	22.15	21.78
			3	2	22.50	21.94	22.20	21.86
			6	0	21.50	20.87	21.16	20.97
		16QAM	1	0	21.50	20.51	20.96	20.77
			1	2	21.50	20.69	21.03	20.58
			1	5	21.50	20.45	20.94	20.84
			3	0	21.50	20.55	20.84	20.72

			3	1	21.50	20.83	21.09	20.66
			3	2	21.50	20.80	21.31	20.75
			6	0	20.50	19.90	20.27	19.98
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	22.50	21.63	21.88	21.92
			1	7	22.50	22.12	22.09	21.93
			1	14	22.50	21.84	22.03	21.86
			8	0	21.50	20.83	21.19	21.16
			8	4	21.50	20.88	21.15	20.96
			8	7	21.50	20.91	21.20	20.76
			15	0	21.50	20.87	21.19	20.95
		16QAM	1	0	21.00	20.54	20.79	20.76
			1	7	21.00	20.69	20.87	20.50
			1	14	21.00	20.24	20.84	20.41
			8	0	20.50	19.69	19.76	19.97
			8	4	20.50	19.90	19.82	19.84
			8	7	20.50	20.01	19.77	19.82
			15	0	20.50	19.92	19.89	20.03
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	22.50	21.49	21.79	21.87
			1	12	22.50	22.09	22.38	21.84
			1	24	22.50	21.65	21.85	21.65
			12	0	21.50	20.97	21.10	21.07
			12	6	21.50	20.82	21.18	20.92
			12	11	21.50	20.66	21.04	20.71
			25	0	21.50	20.96	21.01	20.84
		16QAM	1	0	21.50	20.57	21.12	20.65
			1	12	21.50	20.57	20.75	20.53
			1	24	21.50	20.14	20.43	20.14
			12	0	20.00	19.76	19.83	19.99
			12	6	20.00	19.86	19.94	19.88
			12	11	20.00	19.65	19.79	19.68
			25	0	20.00	19.79	19.85	19.79
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711

LTE Band 12	10MHz	QPSK	1	0	23.00	21.62	21.69	21.96
			1	24	23.00	22.35	22.68	22.29
			1	49	23.00	21.92	21.76	21.62
			25	0	21.50	21.10	21.14	21.28
			25	12	21.50	20.92	21.20	21.00
			25	24	21.50	20.97	20.94	20.79
			50	0	21.50	20.93	21.05	20.96
		16QAM	1	0	22.00	20.42	20.98	20.81
			1	24	22.00	20.89	21.53	21.00
			1	49	22.00	20.39	20.42	20.08
			25	0	20.50	19.91	19.98	20.17
			25	12	20.50	19.96	20.12	19.92
			25	24	20.50	19.96	19.93	19.83
			50	0	20.50	20.04	19.99	19.90

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23205/779.5	23230/782	23255/784.5
LTE Band 13	5MHz	QPSK	1	0	22.50	22.16	22.15	21.87
			1	12	22.50	21.77	22.27	22.30
			1	24	22.50	22.04	22.11	22.00
			12	0	21.50	21.31	20.99	21.19
			12	6	21.50	21.15	21.09	21.15
			12	11	21.50	21.08	21.11	21.00
			25	0	21.50	21.13	21.06	21.11
		16QAM	1	0	21.50	21.12	20.65	21.14
			1	12	21.50	20.44	20.96	20.78
			1	24	21.50	20.51	20.79	20.38
			12	0	20.50	19.84	19.76	19.87
			12	6	20.50	19.90	19.96	20.01
			12	11	20.50	19.81	19.95	19.96
			25	0	20.00	19.90	19.99	19.96
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	23230/782	/
LTE Band 13	10MHz	QPSK	1	0	22.50	/	22.39	/
			1	24	22.50	/	22.22	/
			1	49	22.50	/	21.83	/
			25	0	21.50	/	21.13	/
			25	12	21.50	/	21.09	/

			25	24	21.50	/	21.12	/
			50	0	21.50	/	21.10	/
		16QAM	1	0	21.50	/	21.17	/
			1	24	21.50	/	20.95	/
			1	49	21.50	/	20.27	/
			25	0	20.50	/	19.93	/
			25	12	20.50	/	20.13	/
			25	24	20.50	/	20.18	/
			50	0	20.00	/	20.00	/

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		24025/832.5	24075/837.5	24125/842.5
LTE Band 19	5MHz	QPSK	1	0	23.50	22.75	22.63	22.69
			1	12	23.50	22.86	22.94	23.07
			1	24	23.50	22.74	22.88	22.7
			12	0	22.00	21.85	21.86	21.96
			12	6	22.00	21.89	21.85	21.85
			12	11	22.00	21.72	21.82	21.78
			25	0	22.00	21.75	21.82	21.83
		16QAM	1	0	22.00	21.53	21.97	21.5
			1	12	22.00	21.55	21.47	21.6
			1	24	22.00	21.48	21.48	21.13
			12	0	21.00	20.56	20.48	20.64
			12	6	21.00	20.83	20.58	20.89
			12	11	21.00	20.79	20.52	20.73
			25	0	21.00	20.9	20.65	20.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		24050/835	24075/837.5	24100/840
LTE Band 19	10MHz	QPSK	1	0	23.50	22.65	22.74	22.7
			1	24	23.50	23.27	23.34	23.29
			1	49	23.50	22.7	22.85	22.52
			25	0	22.00	21.84	21.77	21.82
			25	12	22.00	21.94	21.96	21.91
			25	24	22.00	21.8	21.63	21.72
			50	0	22.00	21.67	21.64	21.68
		16QAM	1	0	22.00	21.65	21.43	21.5
			1	24	22.00	21.72	21.82	21.82

			1	49	22.00	21.19	21.34	21.19
			25	0	21.50	20.74	20.6	20.77
			25	12	21.50	21.02	20.85	20.96
			25	24	21.50	20.95	20.86	20.78
			50	0	21.00	20.7	20.77	20.73
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	24075/837.5	/
LTE Band 19	15MHz	QPSK	1	0	23.50	/	22.64	/
			1	37	23.50	/	23.23	/
			1	74	23.50	/	22.82	/
			36	0	22.00	/	21.85	/
			36	18	22.00	/	21.8	/
			36	37	22.00	/	21.73	/
			75	0	22.00	/	21.61	/
		16QAM	1	0	22.00	/	21.46	/
			1	37	22.00	/	21.73	/
			1	74	22.00	/	21.34	/
			36	0	21.00	/	20.56	/
			36	18	21.00	/	20.82	/
			36	37	21.00	/	20.74	/
			75	0	21.00	/	20.63	/

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		39675/2498.5	40145/2545.5	40620/2593	41090/2640	41565/2687.5
LTE Band 41	5MHz	QPSK	1	0	22.50	20.34	21.28	21.21	21.48	21.86
			1	12	22.50	20.56	21.03	21.23	21.77	22.03
			1	24	22.50	20.56	21.81	21.12	21.24	22.08
			12	0	21.50	19.3	19.44	20.4	20.83	20.91
			12	6	21.50	19.46	20.3	20.31	20.94	21.01
			12	11	21.50	19.52	20.12	20.29	21.19	21
			25	0	22.00	19.36	21.5	20.43	19.26	20.95
		16QAM	1	0	24.00	18.46	23.38	19.66	23.74	20.25
			1	12	24.00	18.55	19.88	19.32	19.63	20.24
			1	24	24.00	18.44	21.9	19.24	19.3	20.22
			12	0	23.00	17.98	20.52	19.2	18.51	19.79
			12	6	23.00	18.22	22.51	19.22	20.65	19.95

			12	11	23.00	18.25	20.55	19.21	20.26	19.95
			25	0	21.00	18.26	20.54	19.2	19.26	19.98
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		39700/2501	40145/2545.5	40620/2593	41090/2640	41540/2685
LTE Band 41	10MHz	QPSK	1	0	22.50	20.44	21.41	21.45	20.62	22.1
			1	24	22.50	20.65	21.86	21.58	20.97	22.26
			1	49	22.50	20.67	21.87	21.48	21.78	21.99
			25	0	21.50	19.47	19.77	20.58	20.59	21.04
			25	12	21.50	19.7	19.74	20.52	20.77	21.1
			25	24	21.50	19.71	19.84	20.51	19.77	21.08
			50	0	23.50	19.56	19.78	20.5	23.3	21.07
		16QAM	1	0	22.00	18.64	20.96	19.75	19.23	20.38
			1	24	22.00	18.81	21.89	19.69	20.99	20.36
			1	49	22.00	18.85	19.83	19.46	20.62	20.35
			25	0	23.50	18.32	21.23	19.46	21.39	20.01
			25	12	23.50	18.97	19.66	19.45	23.19	20.01
			25	24	23.50	18.69	18.82	19.4	23.09	20.09
			50	0	23.00	18.6	19.77	19.53	22.9	20.03
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		39725/2503.5	40145/2545.5	40620/2593	41090/2640	41515/2682.5
LTE Band 41	15MHz	QPSK	1	0	22.50	20.14	21.61	21.25	22.4	21.81
			1	37	22.50	20.72	21.79	21.58	21.48	22.13
			1	74	22.50	20.72	21.29	21.19	21.26	22.05
			36	0	21.00	19.34	19.26	20.5	20.15	20.94
			36	18	21.00	19.64	19.08	20.46	19.9	20.94
			36	37	21.00	19.68	19.2	20.41	20.93	20.99
			75	0	21.00	19.52	19.75	20.42	20.6	20.9
		16QAM	1	0	20.50	18.47	19.87	19.77	19.09	20.21
			1	37	20.50	18.78	19.41	19.58	19.91	20.15
			1	74	20.50	18.81	20.01	19.36	19.55	20.18
			36	0	20.00	18	18.13	19.35	18.01	19.83
			36	18	20.00	18.73	18.29	18.51	18.48	19.93
			36	37	20.00	18.77	18.66	19.46	18.45	19.89
			75	0	20.50	18.66	18.86	19.51	19.66	20.03
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)				

	Width		Configuration		(dBm)					
			RB Size	RB Offset		39750/2506	40145/2545.5	40620/2593	41090/2640	41490/2680
LTE Band 41	20MHz	QPSK	1	0	22.50	21.23	21.99	22.47	21.21	21.8
			1	49	22.50	21.88	21.08	21.62	21.48	22
			1	99	22.50	21.41	21.46	22.45	21.71	21.77
			50	0	21.00	19.38	20.79	20.42	20.23	20.79
			50	24	21.00	19.72	20.7	20.54	20.32	20.98
			50	49	21.00	19.61	20.81	20.34	20.63	20.96
			100	0	21.50	19.52	21.18	20.45	20.69	20.86
		16QAM	1	0	21.00	18.44	20.61	19.56	18.51	19.97
			1	49	21.00	19.1	19.57	19.79	20.43	20.1
			1	99	21.00	18.55	19.67	19.26	20.27	20.02
			50	0	23.00	18.31	19.89	19.33	22.26	19.63
			50	24	23.00	18.79	19.59	19.46	22.6	19.97
			50	49	23.00	18.69	22.72	19.38	18.43	20.1
			100	0	21.50	18.56	21.2	19.53	20.14	19.98

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131979/1710.7	132322/1745	132665/1779.3
LTE Band 66	1.4MHz	QPSK	1	0	23.50	22.27	22.60	22.91
			1	2	23.50	22.42	22.84	23.10
			1	5	23.50	22.31	22.72	23.00
			3	0	23.00	22.55	22.74	22.90
			3	1	23.00	22.61	22.71	22.92
			3	2	23.00	22.68	22.68	22.97
			6	0	22.00	21.62	21.74	21.97
		16QAM	1	0	22.00	21.98	21.65	21.85
			1	2	22.00	21.70	21.85	21.81
			1	5	22.00	21.70	21.53	21.72
			3	0	22.50	21.53	21.58	21.90
			3	1	22.50	21.56	21.69	22.06
			3	2	22.50	21.58	21.66	22.01
			6	0	21.00	20.57	20.62	20.93
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711.5	132322/1745	132657/1778.5

LTE Band 66	3MHz	QPSK	1	0	23.50	22.57	22.79	23.04
			1	7	23.50	22.79	22.85	23.08
			1	14	23.50	22.58	22.73	23.07
			8	0	22.50	21.62	21.82	22.09
			8	4	22.50	21.73	21.93	22.15
			8	7	22.50	21.64	21.82	22.09
			15	0	22.50	21.67	21.76	22.09
		16QAM	1	0	22.00	21.90	21.53	21.86
			1	7	22.00	21.58	21.56	21.68
			1	14	22.00	21.47	21.61	21.63
			8	0	21.00	20.55	20.58	20.89
			8	4	21.00	20.64	20.58	20.84
			8	7	21.00	20.63	20.70	20.80
			15	0	21.00	20.50	20.70	20.84
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1712.5	132322/1745	132647/1777.5
LTE Band 66	5MHz	QPSK	1	0	23.50	22.59	22.62	23.00
			1	12	23.50	22.77	23.01	23.22
			1	24	23.50	22.54	22.74	23.04
			12	0	22.50	21.80	21.79	22.24
			12	6	22.50	21.77	21.90	22.13
			12	11	22.50	21.76	21.74	22.15
			25	0	22.50	21.78	21.75	22.05
		16QAM	1	0	22.50	21.61	21.64	22.34
			1	12	22.50	21.59	21.62	22.08
			1	24	22.50	21.24	21.35	21.43
			12	0	21.50	20.54	20.60	20.85
			12	6	21.50	20.62	20.80	21.03
			12	11	21.50	20.61	20.77	21.10
			25	0	21.50	20.79	20.64	21.08
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132022/1715	132322/1745	132622/1775
LTE Band 66	10MHz	QPSK	1	0	24.00	22.68	22.95	23.09
			1	24	24.00	23.28	23.41	23.75
			1	49	24.00	22.59	22.81	22.98
			25	0	22.50	22.05	22.31	22.33

			25	12	22.50	21.94	21.95	22.34
			25	24	22.50	21.80	21.72	22.05
			50	0	22.50	21.84	21.80	22.20
		16QAM	1	0	22.50	21.58	21.87	22.01
			1	24	22.50	21.87	22.06	22.20
			1	49	22.50	21.14	21.39	21.58
			25	0	21.50	20.99	21.01	21.17
			25	12	21.50	20.99	20.99	21.30
			25	24	21.50	20.73	20.76	21.20
			50	0	21.50	20.86	20.92	21.23
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5
LTE Band 66	15MHz	QPSK	1	0	24.00	22.84	23.05	23.04
			1	37	24.00	23.16	23.47	23.67
			1	74	24.00	22.80	22.53	22.82
			36	0	22.50	22.03	22.19	22.23
			36	18	22.50	21.93	21.96	22.20
			36	37	22.50	21.69	21.56	22.01
			75	0	22.50	21.81	21.77	22.01
		16QAM	1	0	22.50	21.67	21.83	21.93
			1	37	22.50	21.86	21.98	22.01
			1	74	22.50	21.19	21.20	21.31
			36	0	21.50	20.95	20.89	21.08
			36	18	21.50	20.91	20.97	21.14
			36	37	21.50	20.72	20.65	20.94
			75	0	21.50	20.89	20.77	21.14
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
LTE Band 66	20MHz	QPSK	1	0	24.00	22.67	22.98	22.86
			1	49	24.00	23.12	23.48	23.55
			1	99	24.00	22.84	22.71	22.65
			50	0	22.50	21.87	22.13	22.08
			50	24	22.50	21.91	21.93	22.06
			50	49	22.50	21.85	21.67	21.92
			100	0	22.00	21.87	21.81	21.94
		16QAM	1	0	22.50	21.50	21.62	21.79

			1	49	22.50	21.70	22.09	22.06
			1	99	22.50	21.26	21.09	21.26
			50	0	21.00	20.82	20.87	20.96
			50	24	21.00	20.85	20.92	20.99
			50	49	21.00	20.79	20.71	20.84
			100	0	21.00	20.78	20.70	20.96

7.2. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Max Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	16.00	15.57
	6	2437	16.00	15.77
	11	2462	16.00	15.67
802.11g	1	2412	16.00	15.54
	6	2437	16.00	15.15
	11	2462	16.00	15.41
802.11n HT20	1	2412	14.50	14.20
	6	2437	14.50	14.16
	11	2462	14.50	14.24
802.11n HT40	3	2422	14.50	13.88
	6	2437	14.50	13.76
	9	2452	14.50	14.09

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Max Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	10.00	9.67
	40	5200	10.00	9.47
	48	5240	10.00	8.96
802.11n HT20	36	5180	10.00	9.26
	40	5200	10.00	9.68
	48	5240	10.00	8.78
802.11n HT40	38	5190	9.00	8.59
	46	5230	9.00	8.00
802.11ac VHT20	36	5180	9.50	9.37
	40	5200	9.50	9.33
	48	5240	9.50	8.68
802.11ac VHT40	38	5190	10.00	9.97
	46	5230	10.00	9.70
802.11ac VHT80	42	5210	9.50	9.39

NOTE: Power measurement results of WLAN 5.2G.

BR+EDR	Output Power (dBm)				
	Data Rates	Max Tune-up (dBm)	Channel		
			0CH	39CH	78CH
	1M	9.00	7.22	8.10	8.77
	2M	7.00	5.39	5.85	6.84
	3M	7.50	5.84	6.35	7.22

NOTE: Power measurement results of Bluetooth.

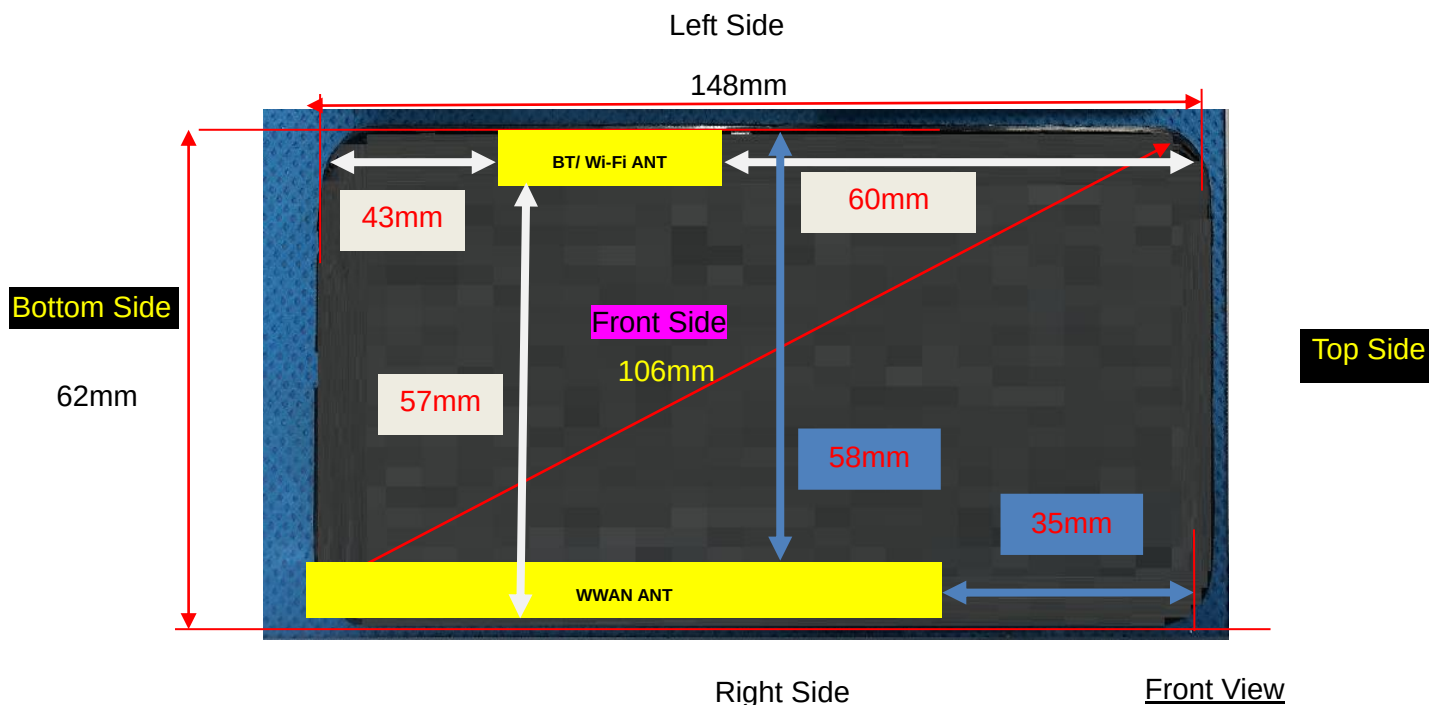
BLE	Channel	Tune-up (dBm)	Output Power (dBm)
	0CH	7.00	6.33
	19CH	7.00	6.77
	39CH	7.00	6.95

NOTE: Power measurement results of Bluetooth.

7.3. NFC

Channel Freq (MHz)	Min Distance (mm)	Max power (dBm)	tune-up power (dBm)	Max power (mW)	Limits (mW)	SAR Test Exclusion
13.56	10	-25.75	-25.75 ± 1	0.00335	1	Yes

8. Antenna Location



Note: Since the confidentiality request of EUT, the antenna location example diagram see as above.

Distance of the Antenna to the EUT surface/edge						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WLAN & Bluetooth	5	5	5	57	60	43
WWAN	5	5	58	5	35	5

Note: When the minimum separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Positions for SAR tests		
Test separation distances $\leq$ 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	16.00dBm	39.81mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	43

	SAR exclusion threshold (mW)	77.00
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of Bluetooth	
	9.00dBm	9.94mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	43
	SAR exclusion threshold (mW)	77.00
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	10.00dBm	10.00mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	7.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	43
	SAR exclusion threshold (mW)	53.00
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 2	
	22.50dBm	177.83mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11

	SAR testing required?	YES
Top Side	Antenna to user(mm)	35
	SAR exclusion threshold (mW)	76.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 4	
	23.50dBm	223.87mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	35
	SAR exclusion threshold (mW)	98.00
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 5	
	23.00dBm	199.53mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Top Side	Antenna to user(mm)	35
	SAR exclusion threshold (mW)	115.00
	SAR testing required?	YES

Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 2	
	23.50dBm	223.87 mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	35
	SAR exclusion threshold (mW)	76
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 4	
	23.00dBm	199.53 mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	35
	SAR exclusion threshold (mW)	98.00
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 5	
	23.00dBm	199.53 mW
Front Side	Antenna to user(mm)	5

	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
	Antenna to user(mm)	5
Right Side	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
	Antenna to user(mm)	35
	SAR exclusion threshold (mW)	115.0
Top Side	SAR testing required?	YES
	Antenna to user(mm)	5
Bottom Side	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 12	
	23.00dBm	199.53 mW
	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	22.00
Front Side	SAR testing required?	YES
	Antenna to user(mm)	5
Back Side	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
	Antenna to user(mm)	35
	SAR exclusion threshold (mW)	157.00
Right Side	SAR testing required?	YES
	Antenna to user(mm)	5
Top Side	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	11.00
Bottom Side	SAR testing required?	YES
	Tune-up Maximum power of LTE Band 13	
Exposure Positions	22.50dBm	177.83mW
	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	22.00
Back Side	SAR testing required?	YES
	Antenna to user(mm)	35
Right Side	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES

	SAR exclusion threshold (mW)	157.00
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	22.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 19	
	23.50dBm	223.87mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	35
	SAR exclusion threshold (mW)	115.00
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 41	
	22.50dBm	177.83mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	10.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	35
	SAR exclusion threshold (mW)	67.00
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES

Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	16.00
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 66	
	24.00dBm	251.19mW
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Right Side	Antenna to user(mm)	35
	SAR exclusion threshold (mW)	86.00
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold (mW)	12.00
	SAR testing required?	YES

NOTE: Refer to section 4.3.1 of KDB 447498 D01.

Positions for SAR tests		
Test separation distances > 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	16.00dBm	39.81mW
Right Side	Antenna to user(mm)	57
	SAR exclusion threshold (mW)	166
	SAR testing required?	NO
Top Side	Antenna to user(mm)	60
	SAR exclusion threshold (mW)	196
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of Bluetooth	
	16.00dBm	39.81mW
Right Side	Antenna to user(mm)	57
	SAR exclusion threshold (mW)	166
	SAR testing required?	NO
Top Side	Antenna to user(mm)	60
	SAR exclusion threshold (mW)	196
	SAR testing required?	NO

Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	10.00dBm	10.00mW
Right Side	Antenna to user(mm)	57
	SAR exclusion threshold (mW)	136
	SAR testing required?	NO
Top Side	Antenna to user(mm)	60
	SAR exclusion threshold (mW)	166
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band 2	
	22.50dBm	177.83mW
Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	109
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 4	
	23.50dBm	223.87mW
Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	122
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band 5	
	23.00dBm	199.53mW
Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	164
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 2	
	23.50dBm	223.87 mW
Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	109
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 4	
	23.00dBm	199.53 mW
Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	122
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 5	
	23.00dBm	199.53 mW
Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	164
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 12	
	23.00dBm	199.53 mW

Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	224
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 13	
	22.50dBm	177.83mW
Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	224
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 19	
	23.50dBm	223.87mW
Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	164
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 41	
	22.50dBm	177.83mW
Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	96
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band 66	
	24.00dBm	251.19mW
Left Side	Antenna to user(mm)	58
	SAR exclusion threshold (mW)	122
	SAR testing required?	YES

9. SAR Results

9.1. SAR measurement Result

9.1.1. SAR measurement Result of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	9400/1880	RMC12.2K	0.632	0.315	3.14	22.38	22.50	0.650	2025/9/03	
Back Side	9400/1880	RMC12.2K	0.572	0.291	2.64	22.38	22.50	0.588	2025/9/03	

NOTE: Body-Worn SAR test results of WCDMA Band 2

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducte d power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.632	0.315	3.14	22.38	22.50	0.650	2025/9/03	
Back Side	9400/1880	RMC12.2K	0.572	0.291	2.64	22.38	22.50	0.588	2025/9/03	
Left Side	9400/1880	RMC12.2K	0.108	0.054	1.99	22.38	22.50	0.111	2025/9/03	
Right Side	9400/1880	RMC12.2K	1.072	0.556	-0.76	22.38	22.50	1.102	2025/9/03	1#
Bottom Side	9400/1880	RMC12.2K	0.440	0.228	-3.78	22.38	22.50	0.452	2025/9/03	
Right Side	9262/1852 .4	RMC12.2K	0.955	0.496	0.42	22.25	22.50	1.012	2025/9/03	
Right Side	9538/1907 .6	RMC12.2K	0.951	0.481	0.71	22.47	22.50	0.958	2025/9/03	
Right Side Repeated	9400/1880	RMC12.2K	1.063	0.547	-0.85	22.38	22.50	1.093	2025/9/03	

NOTE: 1.Hotspot SAR test results of WCDMA Band 2

2. Tested by : Jack Peng

9.1.2. SAR measurement Result of WCDMA Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	1413/1732.6	RMC12.2K	0.331	0.183	0.25	22.80	23.50	0.389	2025/10/01	
Back Side	1413/1732.6	RMC12.2K	0.296	0.160	0.51	22.80	23.50	0.348	2025/10/01	

NOTE: Body-Worn SAR test results of WCDMA Band 4

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	1413/1732.6	RMC12.2K	0.331	0.183	0.25	22.80	23.50	0.389	2025/10/01	
Back Side	1413/1732.6	RMC12.2K	0.296	0.160	0.51	22.80	23.50	0.348	2025/10/01	
Left Side	1413/1732.6	RMC12.2K	0.060	0.032	-3.99	22.80	23.50	0.070	2025/10/01	
Right Side	1413/1732.6	RMC12.2K	0.568	0.317	0.23	22.80	23.50	0.667	2025/10/01	2#
Right Side	1312/1712.4	RMC12.2K	0.516	0.274	-1.92	22.65	23.50	0.628	2025/10/01	
Right Side	1513/1752.6	RMC12.2K	0.546	0.297	0.23	23.06	23.50	0.604	2025/10/01	
Bottom Side	1413/1732.6	RMC12.2K	0.244	0.133	0.17	22.80	23.50	0.287	2025/10/01	

NOTE: Hotspot SAR test results of WCDMA Band 4

9.1.3. SAR measurement Result of WCDMA Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	4182/836.4	RMC12.2K	0.266	0.154	-1.61	22.73	23.00	0.283	2025/9/02	
Back Side	4182/836.4	RMC12.2K	0.176	0.105	-0.92	22.73	23.00	0.187	2025/9/02	

NOTE: Body-Worn SAR test results of WCDMA Band 5

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	4182/836.4	RMC12.2K	0.266	0.154	-1.61	22.73	23.00	0.283	2025/9/02	
Back Side	4182/836.4	RMC12.2K	0.176	0.105	-0.92	22.73	23.00	0.187	2025/9/02	
Left Side	4182/836.4	RMC12.2K	0.031	0.018	0.31	22.73	23.00	0.033	2025/9/02	
Right Side	4182/836.4	RMC12.2K	0.270	0.163	0.21	22.73	23.00	0.287	2025/9/02	3#
Right Side	4132/826.4	RMC12.2K	0.262	0.158	-1.63	22.72	23.00	0.279	2025/9/02	
Right Side	4233/846.6	RMC12.2K	0.241	0.156	-0.96	22.75	23.00	0.255	2025/9/02	
Bottom Side	4182/836.4	RMC12.2K	0.124	0.072	3.16	22.73	23.00	0.132	2025/9/02	

NOTE: 1.Hotspot SAR test results of WCDMA Band 5

2.Tested by : Max Zhou

9.1.4. SAR measurement Result of LTE Band 2

Test Position of Body- Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.400	0.198	-2.45	23.02	23.50	0.447	2025/9/03	
Back Side	18900/1880	20M QPSK(1,49)	0.354	0.181	-1.44	23.02	23.50	0.395	2025/9/03	
50%RB										
Front	18900/1880	20M QPSK(50,0)	0.219	0.109	3.41	22.45	22.50	0.222	2025/9/03	

Side										
Back Side	18900/1880	20M QPSK(50,0)	0.189	0.093	1.60	22.45	22.50	0.191	2025/9/03	

NOTE: Body-Worn SAR test results of LTE Band 2

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1%RB										
Front Side	18900/1880	20M QPSK(1,49)	0.400	0.198	-2.45	23.02	23.50	0.447	2025/9/03	
Back Side	18900/1880	20M QPSK(1,49)	0.354	0.181	-1.44	23.02	23.50	0.395	2025/9/03	
Left Side	18900/1880	20M QPSK(1,49)	0.070	0.035	-0.12	23.02	23.50	0.078	2025/9/03	
Right Side	18900/1880	20M QPSK(1,49)	0.667	0.341	-0.95	23.02	23.50	0.745	2025/9/03	8#
Right Side	18700/1860	20M QPSK(1,49)	0.635	0.318	-2.96	23.10	23.50	0.696	2025/9/03	
Right Side	19100/1900	20M QPSK(1,49)	0.607	0.281	-1.65	22.77	23.50	0.718	2025/9/03	
Bottom Side	18900/1880	20M QPSK(1,49)	0.276	0.138	1.46	23.02	23.50	0.308	2025/9/03	
50%RB										
Front Side	18900/1880	20M QPSK(50,0)	0.219	0.109	3.41	22.45	22.50	0.222	2025/9/03	
Back Side	18900/1880	20M QPSK(50,0)	0.189	0.093	1.60	22.45	22.50	0.191	2025/9/03	
Left Side	18900/1880	20M QPSK(50,0)	0.040	0.020	-2.14	22.45	22.50	0.040	2025/9/03	
Right Side	18900/1880	20M QPSK(50,0)	0.391	0.178	-0.11	22.45	22.50	0.396	2025/9/03	
Bottom Side	18900/1880	20M QPSK(50,0)	0.160	0.074	-4.11	22.45	22.50	0.162	2025/9/03	

9.1.5. SAR measurement Result of LTE Band 4

Test Position of Body- Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.215	0.114	1.51	22.82	23.00	0.224	2025/10/01	
Back Side	20175/1732.5	20M QPSK(1,49)	0.208	0.111	1.25	22.82	23.00	0.217	2025/10/01	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,0)	0.128	0.067	2.68	21.49	22.00	0.144	2025/10/01	
Back Side	20175/1732.5	20M OPSK(50,0)	0.115	0.062	-1.17	21.49	22.00	0.129	2025/10/01	

NOTE: Body-Worn SAR test results of LTE Band 4

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.215	0.114	1.51	22.82	23.00	0.224	2025/10/01	
Back Side	20175/1732.5	20M QPSK(1,49)	0.208	0.111	1.25	22.82	23.00	0.217	2025/10/01	
Left Side	20175/1732.5	20M QPSK(1,49)	0.037	0.020	-3.07	22.82	23.00	0.039	2025/10/01	
Right Side	20175/1732.5	20M QPSK(1,49)	0.368	0.201	-2.52	22.82	23.00	0.384	2025/10/01	9#
Right Side	20050/1720	20M QPSK(1,49)	0.341	0.168	-1.52	22.77	23.00	0.360	2025/10/01	
Right Side	20300/1745	20M QPSK(1,49)	0.356	0.172	-2.64	22.93	23.00	0.362	2025/10/01	
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.152	0.079	0.20	22.82	23.00	0.158	2025/10/01	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,0)	0.128	0.067	2.68	21.49	22.00	0.144	2025/10/01	
Back Side	20175/1732.5	20M QPSK(50,0)	0.115	0.062	-1.17	21.49	22.00	0.129	2025/10/01	
Left Side	20175/1732.5	20M	0.021	0.011	-4.40	21.49	22.00	0.024	2025/10/01	

		QPSK(50,0)								
Right Side	20175/1732.5	20M QPSK(50,0)	0.213	0.102	1.87	21.49	22.00	0.240	2025/10/01	
Bottom Side	20175/1732.5	20M QPSK(50,0)	0.080	0.044	-4.80	21.49	22.00	0.090	2025/10/01	

9.1.6. SAR measurement Result of LTE Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.190	0.113	2.62	22.61	23.00	0.208	2025/9/02	
Back Side	20525/836.5	10M QPSK(1,24)	0.156	0.090	-2.11	22.61	23.00	0.171	2025/9/02	
50%RB										
Front Side	20525/836.5	10M QPSK(25,12)	0.098	0.066	2.94	21.32	21.50	0.102	2025/9/02	
Back Side	20525/836.5	10M QPSK(25,12)	0.087	0.052	-1.67	21.32	21.50	0.091	2025/9/02	

NOTE: Body-Worn SAR test results of LTE Band 5

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.190	0.113	2.62	22.61	23.00	0.208	2025/9/02	
Back Side	20525/836.5	10M QPSK(1,24)	0.156	0.090	-2.11	22.61	23.00	0.171	2025/9/02	
Left Side	20525/836.5	10M QPSK(1,24)	0.024	0.014	0.54	22.61	23.00	0.026	2025/9/02	
Right Side	20525/836.5	10M QPSK(1,24)	0.195	0.117	-1.02	22.61	23.00	0.213	2025/9/02	10#
Right Side	20450/829	10M QPSK(1,24)	0.182	0.109	-1.68	22.39	23.00	0.209	2025/9/02	
Right Side	20600/844	10M QPSK(1,24)	0.163	0.101	-2.78	22.62	23.00	0.178	2025/9/02	
Bottom Side	20525/836.5	10M QPSK(1,24)	0.080	0.048	0.13	22.61	23.00	0.088	2025/9/02	
50%RB										
Front Side	20525/836.5	10M QPSK(25,12)	0.098	0.066	2.94	21.32	21.50	0.102	2025/9/02	
Back Side	20525/836.5	10M QPSK(25,12)	0.087	0.052	-1.67	21.32	21.50	0.091	2025/9/02	
Left Side	20525/836.5	10M QPSK(25,12)	0.013	0.008	3.76	21.32	21.50	0.014	2025/9/02	
Right Side	20525/836.5	10M QPSK(25,12)	0.102	0.066	-1.35	21.32	21.50	0.106	2025/9/02	
Bottom Side	20525/836.5	10M QPSK(25,12)	0.042	0.027	2.09	21.32	21.50	0.044	2025/9/02	

NOTE: 1.Hotspot SAR test results of LTE Band 5

2. Tested by : Max Zhou

9.1.7. SAR measurement Result of LTE Band 7

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.190	0.077	1.57	21.03	21.50	0.212	2025/9/14	
Back Side	21100/2535	20M QPSK(1,49)	0.270	0.114	-1.79	21.03	21.50	0.301	2025/9/14	
50%RB										
Front Side	21100/2535	20M QPSK(50,0)	0.097	0.045	-3.49	19.97	21.00	0.123	2025/9/14	
Back Side	21100/2535	20M QPSK(50,0)	0.155	0.068	0.26	19.97	21.00	0.196	2025/9/14	

NOTE: Body-Worn SAR test results of LTE Band 7

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,49)	0.190	0.077	1.57	21.03	21.50	0.212	2025/9/14	
Back Side	21100/2535	20M QPSK(1,49)	0.270	0.114	-1.79	21.03	21.50	0.301	2025/9/14	
Left Side	21100/2535	20M QPSK(1,49)	0.075	0.031	3.49	21.03	21.50	0.084	2025/9/14	
Right Side	21100/2535	20M QPSK(1,49)	0.743	0.317	2.93	21.03	21.50	0.828	2025/9/14	11#
Bottom Side	21100/2535	20M QPSK(1,49)	0.173	0.072	0.33	21.03	21.50	0.193	2025/9/14	
Back Side	20850/2510	20M QPSK(1,49)	0.704	0.285	-1.62	20.82	21.50	0.823	2025/9/14	
Back Side	21350/2560	20M QPSK(50,0)	0.732	0.306	-1.64	21.43	21.50	0.744	2025/9/14	
Back Side	21100/2535	20M	0.738	0.301	-1.85	21.03	21.50	0.822	2025/9/14	

Repeated		QPSK(50,0)								
50%RB										
Front Side	21100/2535	20M QPSK(50,0)	0.097	0.045	-3.49	19.97	21.00	0.123	2025/9/14	
Back Side	21100/2535	20M QPSK(50,0)	0.155	0.068	0.26	19.97	21.00	0.196	2025/9/14	
Left Side	21100/2535	20M QPSK(50,0)	0.042	0.018	3.40	19.97	21.00	0.053	2025/9/14	
Right Side	21100/2535	20M QPSK(50,0)	0.420	0.182	-3.10	19.97	21.00	0.532	2025/9/14	
Bottom Side	21100/2535	20M QPSK(50,0)	0.091	0.042	-0.43	19.97	21.00	0.115	2025/9/14	
100%RB										
Right Side	21100/2535	20M QPSK(100,0)	0.402	0.154	3.11	19.75	20.50	0.478	2025/9/14	

NOTE: 1.Hotspot SAR test results of LTE Band 7

2. Tested by : Max Zhou

9.1.8. SAR measurement Result of LTE Band 12

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,24)	0.081	0.051	3.49	22.68	23.00	0.087	2025/9/05	
Back Side	23095/707.5	10M QPSK(1,24)	0.065	0.042	2.91	22.68	23.00	0.070	2025/9/05	
50%RB										
Front Side	23095/707.5	10M QPSK(25,12)	0.046	0.030	-4.89	21.20	21.50	0.049	2025/9/05	
Back Side	23095/707.5	10M QPSK(25,12)	0.036	0.025	4.68	21.20	21.50	0.039	2025/9/05	

NOTE: Body-Worn SAR test results of LTE Band 12

[illegible]

10mm										
1RB										
Front Side	23095/707.5	10M QPSK(1,24)	0.081	0.051	3.49	22.68	23.00	0.087	2025/9/05	
Back Side	23095/707.5	10M QPSK(1,24)	0.065	0.042	2.91	22.68	23.00	0.070	2025/9/05	
Left Side	23095/707.5	10M QPSK(1,24)	0.013	0.011	-1.05	22.68	23.00	0.014	2025/9/05	
Right Side	23095/707.5	10M QPSK(1,24)	0.082	0.054	-2.94	22.68	23.00	0.088	2025/9/05	12#
Right Side	23060/704	10M QPSK(1,24)	0.074	0.037	-1.62	22.35	23.00	0.086	2025/9/05	
Right Side	23130/711	10M QPSK(1,24)	0.063	0.031	-1.85	22.29	23.00	0.074	2025/9/05	
Bottom Side	23095/707.5	10M QPSK(1,24)	0.052	0.033	0.75	22.68	23.00	0.056	2025/9/05	
50%RB										
Front Side	23095/707.5	10M QPSK(25,12)	0.046	0.030	-4.89	21.20	21.50	0.049	2025/9/05	
Back Side	23095/707.5	10M QPSK(25,12)	0.036	0.025	4.68	21.20	21.50	0.039	2025/9/05	
Left Side	23095/707.5	10M QPSK(25,12)	0.007	0.006	1.85	21.20	21.50	0.008	2025/9/05	
Right Side	23095/707.5	10M QPSK(25,12)	0.045	0.027	1.57	21.20	21.50	0.048	2025/9/05	
Bottom Side	23095/707.5	10M QPSK(25,12)	0.028	0.017	1.82	21.20	21.50	0.030	2025/9/05	

NOTE:1. Hotspot SAR test results of LTE Band 12

2. Tested by : Jack Peng

9.1.9. SAR measurement Result of LTE Band 13

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23230/782	10M QPSK(1,0)	0.219	0.117	-1.62	22.39	22.50	0.225	2025/9/05	
Back Side	23230/782	10M QPSK(1,0)	0.176	0.095	0.78	22.39	22.50	0.181	2025/9/05	
50%RB										
Front Side	23230/782	10M QPSK(25,0)	0.118	0.059	-2.51	21.13	21.50	0.128	2025/9/05	
Back Side	23230/782	10M QPSK(25,0)	0.099	0.051	-1.68	21.13	21.50	0.108	2025/9/05	

NOTE: Body-Worn SAR test results of LTE Band 13

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	23230/782	10M QPSK(1,0)	0.219	0.117	-1.62	22.39	22.50	0.225	2025/9/05	
Back Side	23230/782	10M QPSK(1,0)	0.176	0.095	0.78	22.39	22.50	0.181	2025/9/05	
Left Side	23230/782	10M QPSK(1,0)	0.026	0.014	-1.55	22.39	22.50	0.027	2025/9/05	
Right Side	23230/782	10M QPSK(1,0)	0.224	0.125	-3.29	22.39	22.50	0.230	2025/9/05	13#
Bottom Side	23230/782	10M QPSK(1,0)	0.096	0.053	3.10	22.39	22.50	0.098	2025/9/05	
50%RB										
Front Side	23230/782	10M QPSK(25,0)	0.118	0.059	-2.51	21.13	21.50	0.128	2025/9/05	
Back Side	23230/782	10M QPSK(25,0)	0.099	0.051	-1.68	21.13	21.50	0.108	2025/9/05	
Left Side	23230/782	10M QPSK(25,0)	0.013	0.007	0.33	21.13	21.50	0.014	2025/9/05	

Front Side	24075/837.5	15M QPSK(36,0)	0.065	0.037	-0.07	21.85	22.00	0.067	2025/9/02	
Back Side	24075/837.5	15M QPSK(36,0)	0.049	0.029	-3.29	21.85	22.00	0.051	2025/9/02	
Left Side	24075/837.5	15M QPSK(36,0)	0.006	0.005	1.15	21.85	22.00	0.006	2025/9/02	
Right Side	24075/837.5	15M QPSK(36,0)	0.067	0.034	3.33	21.85	22.00	0.069	2025/9/02	
Bottom Side	24075/837.5	15M QPSK(36,0)	0.030	0.017	-4.06	21.85	22.00	0.031	2025/9/02	

NOTE: 1.Hotspot SAR test results of LTE Band 19

2. Tested by : Jack Peng

9.1.11. SAR measurement Result of LTE Band 41

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40620/2593	20M QPSK(1,49)	0.068	0.033	-3.85	22.47	22.50	0.068	2025/9/14	
Back Side	40620/2593	20M QPSK(1,49)	0.095	0.046	2.96	22.47	22.50	0.096	2025/9/14	
50%RB										
Front Side	40620/2593	20M QPSK(50,24)	0.036	0.018	2.40	20.54	21.00	0.040	2025/9/14	
Back Side	40620/2593	20M QPSK(50,24)	0.053	0.023	2.95	20.54	21.00	0.059	2025/9/14	

NOTE: Body-Worn SAR test results of LTE Band 41

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40620/2593	20M QPSK(1,49)	0.068	0.033	-3.85	22.47	22.50	0.068	2025/9/14	
Back Side	40620/2593	20M QPSK(1,49)	0.095	0.046	2.96	22.47	22.50	0.096	2025/9/14	
Left Side	40620/2593	20M QPSK(1,49)	0.023	0.011	0.14	22.47	22.50	0.023	2025/9/14	
Right Side	40620/2593	20M	0.223	0.112	-1.69	22.47	22.50	0.225	2025/9/14	15#

		QPSK(1,49)								
Right Side	39750/2506	20M QPSK(1,49)	0.165	0.087	-1.25	21.23	22.50	0.221	2025/9/14	
Right Side	41490/2680	20M QPSK(1,49)	0.183	0.096	-2.85	21.80	22.50	0.215	2025/9/14	
Bottom Side	40620/2593	20M QPSK(1,49)	0.058	0.029	-1.63	22.47	22.50	0.058	2025/9/14	
50%RB										
Front Side	40620/2593	20M QPSK(50,24)	0.036	0.018	2.40	20.54	21.00	0.040	2025/9/14	
Back Side	40620/2593	20M QPSK(50,24)	0.053	0.023	2.95	20.54	21.00	0.059	2025/9/14	
Left Side	40620/2593	20M QPSK(50,24)	0.013	0.007	-3.36	20.54	21.00	0.014	2025/9/14	
Right Side	40620/2593	20M QPSK(50,24)	0.114	0.061	-0.37	20.54	21.00	0.127	2025/9/14	
Bottom Side	40620/2593	20M QPSK(50,24)	0.034	0.015	-0.57	20.54	21.00	0.038	2025/9/14	

9.1.12. SAR measurement Result of LTE Band 66

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	132322/1745	20M QPSK(1,49)	0.238	0.125	-3.95	23.48	24.00	0.268	2025/9/04	
Back Side	132322/1745	20M QPSK(1,49)	0.224	0.118	2.26	23.48	24.00	0.252	2025/9/04	
50%RB										
Front Side	132322/1745	20M QPSK(50,0)	0.123	0.071	0.80	22.13	22.50	0.134	2025/9/04	
Back Side	132322/1745	20M QPSK(50,0)	0.121	0.065	-4.53	22.13	22.50	0.132	2025/9/04	

NOTE: Body-Worn SAR test results of LTE Band 66