

# TEST REPORT

Applicant Name: TECNO MOBILITY LIMITED  
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25  
SHAN MEI STREET FOTAN NT HONGKONG  
Report Number: 2401V87404E-SA  
FCC ID: 2ADYY-KL8H

**Test Standard (s)**

FCC 47 CFR part 2.1093

**Sample Description**

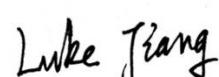
Product Type: Mobile Phone  
Model No.: KL8h  
Multiple Model(s) No.: N/A  
Trade Mark: TECNO  
Serial Number: 2OXM-1  
Date Received: 2024/07/27  
Date of Test: 2024/08/09~2024/08/25  
Issue Date: 2024/09/12

Test Result:	Pass▲
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▲In the configuration tested, the EUT complied with the standards above.

**Prepared and Checked By:**

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SAR Engineer

**Approved By:**

Luke Jiang  
SAR Engineer

Note: The information marked<sup>▲</sup>is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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Attestation of Test Results		
Frequency Band	Max. SAR Level(s) Reported(W/kg)	Limit(W/Kg)
LTE Band 42	0.52 W/kg 1g Head SAR 0.50 W/kg 1g Body SAR	1.6
5G NR n5	0.48 W/kg 1g Head SAR 0.12 W/kg 1g Body SAR	
5G NR n7	0.21 W/kg 1g Head SAR 0.43 W/kg 1g Body SAR	
5G NR n12	0.15 W/kg 1g Head SAR 0.06 W/kg 1g Body SAR	
5G NR n38	0.37 W/kg 1g Head SAR 0.20 W/kg 1g Body SAR	
5G NR n41	0.42 W/kg 1g Head SAR 0.19 W/kg 1g Body SAR	
5G NR n66	0.48 W/kg 1g Head SAR 0.22 W/kg 1g Body SAR	
5G NR n77&78	0.43 W/kg 1g Head SAR 0.38 W/kg 1g Body SAR	
Simultaneous(tx)	1.23 W/kg 1g Head SAR 1.09 W/kg 1g Body SAR 1.09 W/kg 1g Hotspot SAR	
Applicable Standards	FCC 47 CFR part 2.1093 Radiofrequency radiation exposure evaluation: portable devices	
	RF Exposure Procedures: TCB Workshop April 2019	
	IEEE1528:2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques	
	KDB procedures KDB 447498 D01 General RF Exposure Guidance v06 KDB 648474 D04 Handset SAR v01r03 KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 KDB 865664 D02 RF Exposure Reporting v01r02 KDB 941225 D05 SAR for LTE Devices v02r05 KDB 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02 KDB 941225 D06 Hotspot Mode v02r01	
<p><b>Note:</b> This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in <b>FCC 47 CFR part 2.1093</b> and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures.</p> <p><b>The results and statements contained in this report pertain only to the device(s) evaluated.</b></p>		

*Note: The data of GSM/WCDMA/LTE Band (expected LTE band 42), NFC, WLAN/Bluetooth and SAR simultaneous transmission description, please refer to FCC ID: 2ADYY-KL8H, SAR report of 2403V87404E-20, issued by China Certification ICT Co., Ltd (Dongguan) on 2024-08-29.*

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**DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401V87404E-SA	Original Report	2024/09/12

## EUT DESCRIPTION

This report has been prepared on behalf of **TECNO MOBILITY LIMITED** and their product **Mobile Phone**, Model: **KL8h**, FCC ID: **2ADYY-KL8H** or the EUT (Equipment under Test) as referred to in the rest of this report.

*\*All measurement and test data in this report was gathered from production sample serial number:20XM-1(Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2024-07-27.*

**Note:**

1. This device supports 5GNR FR1 bands, including NSA mode and SA mode.
2. SAR test for NR bands and LTE anchor Bands were performed separately due to limitations in SAR probe calibration factors. And, due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
3. NSA and SA mode should perform SAR separately. Based on chip algorithms, for the maximum power of SA mode is the same as NSA total power level, so SA standalone total power level SAR can represent NSA mode SAR.
4. 5G NR SA mode, the power level is the more than as 5G NR NSA mode, so only 5G NR SA mode power table show in this report.
5. For 5G NR, the simultaneous transmission analysis is used standalone SAR at total power level to show compliance.
6. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so chose DFT-s-OFDM to perform SAR testing.

## Technical Specification

<b>Product Type:</b>	Portable
<b>Exposure Category:</b>	Population / Uncontrolled
<b>Antenna Type(s):</b>	Internal Antenna
<b>Body-Worn Accessories:</b>	None
<b>Proximity Sensor:</b>	None
<b>Operation modes:</b>	GSM Voice, GPRS/EDGE Data, WCDMA (R99 (Voice + Data), HSUPA/ HSDPA), LTE Carrier Aggregation FDD-LTE, TDD-LTE, 5G NR, WLAN, Bluetooth, NFC
<b>Uplink Intra CA Bands:</b>	CA_5B; CA_7C; CA_38C; CA_41C; CA_66C;
<b>Uplink Inter CA Bands:</b>	CA_B7A-B5A, CA_B2A-B7A, CA_B2A-B4A, CA_B4A-B5A, CA_B4A-B17A, CA_B4A-B7A
<b>Frequency Band:</b>	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 4: 1710-1755MHz(TX) ; 2110-2155 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) LTE Band 4: 1710-1755MHz(TX) ; 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 7: 2500-2570 MHz(TX); 2620-2690 MHz(RX) LTE Band 12: 699-716 MHz(TX); 729-746 MHz(RX) LTE Band 17: 704-716 MHz(TX); 734-746 MHz(RX) LTE Band 38: 2570-2620 MHz(TX/RX) LTE Band 41: 2496-2690 MHz(TX/RX) LTE Band 42: 3450-3550 MHz(TX/RX) LTE Band 66: 1710-1780 MHz(TX) ; 2110-2180 MHz(RX) 5G NR n5: 824-849 MHz(TX); 869-894 MHz(RX) 5G NR n7: 2500-2570 MHz(TX); 2620-2690 MHz(RX) 5G NR n12: 699-716 MHz(TX); 729-746 MHz(RX) 5G NR n38: 2570-2620 MHz(TX/RX) 5G NR n41: 2496-2690 MHz(TX/RX) 5G NR n66: 1710-1780 MHz(TX) ; 2110-2180 MHz(RX) 5G NR n77 Lower: 3450-3550 MHz(TX/RX) 5G NR n77 Middle: 3550-3700 MHz(TX/RX) 5G NR n77 Upper: 3700-3980 MHz(TX/RX) 5G NR n78 Lower: 3450-3550 MHz(TX/RX) 5G NR n78 Middle: 3550-3700 MHz(TX/RX) 5G NR n78 Upper:3700-3800 MHz(TX/RX) WLAN 2.4G: 2412-2462 MHz (TX/RX) WLAN 5.2G: 5150 -5250 MHz(TX/RX) WLAN 5.3G: 5250 MHz-5350 MHz(TX/RX) WLAN 5.6G: 5470 MHz-5725 MHz(TX/RX) WLAN 5.8G: 5725-5850 MHz(TX/RX) Bluetooth: 2402-2480MHz(TX/RX) BLE_1M:2402-2480 MHz(TX/RX) BLE_2M:2404-2478 MHz(TX/RX) NFC: 13.56MHz
<b>Dimensions (L×W×H):</b>	164 × 74 × 8 mm
<b>Rated Input Voltage:</b>	DC 3.87V from Rechargeable Battery
<b>Normal Operation:</b>	Head and Body

Note: The data of GSM/WCDMA/LTE Band (expected LTE band 42), NFC, WLAN/Bluetooth and SAR simultaneous transmission description, please refer to FCC ID: 2ADYY-KL8H, SAR report of 2403V87404E-20, issued by China Certification ICT Co., Ltd (Dongguan) on 2024-08-29.

## REFERENCE, STANDARDS, AND GUIDELINES

### FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

### SAR Limits

**FCC Limit (1g Tissue)**

<b>EXPOSURE LIMITS</b>	<b>SAR (W/kg)</b>	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 1 g of tissue)	<b>1.6</b>	8.0
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

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

Occupational/Controlled Environments are defined as locations where there is exposure that maybe incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg for 1g SAR applied to the EUT.

## FACILITIES

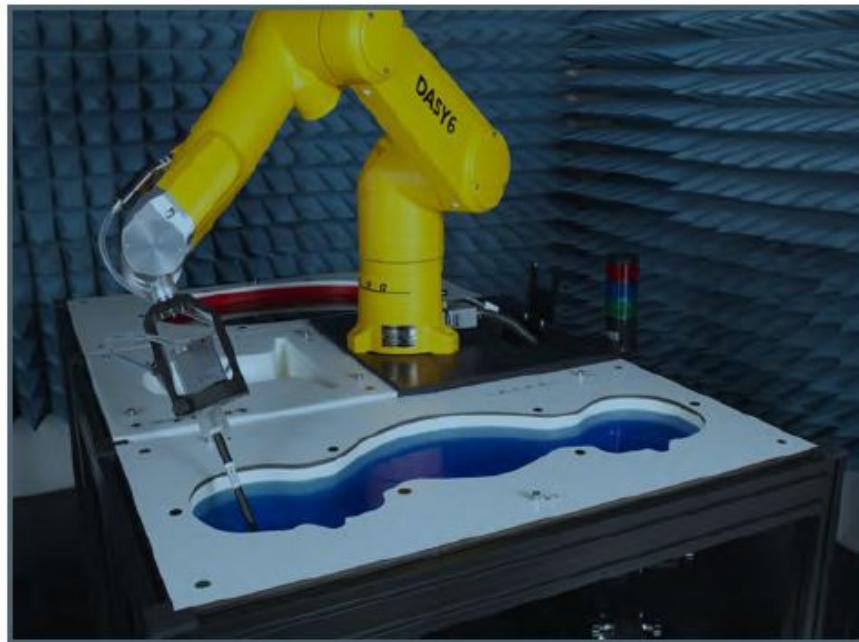
The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect data is located at 5F(B-West) ,6F,7F,the 3rd Phase of Wan Li Industrial Building D,Shihua Rd, FuTian Free Trade Zone, Shenzhen, China

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 715558, the FCC Designation No.: CN5045.

Each test item follows test standards and with no deviation.

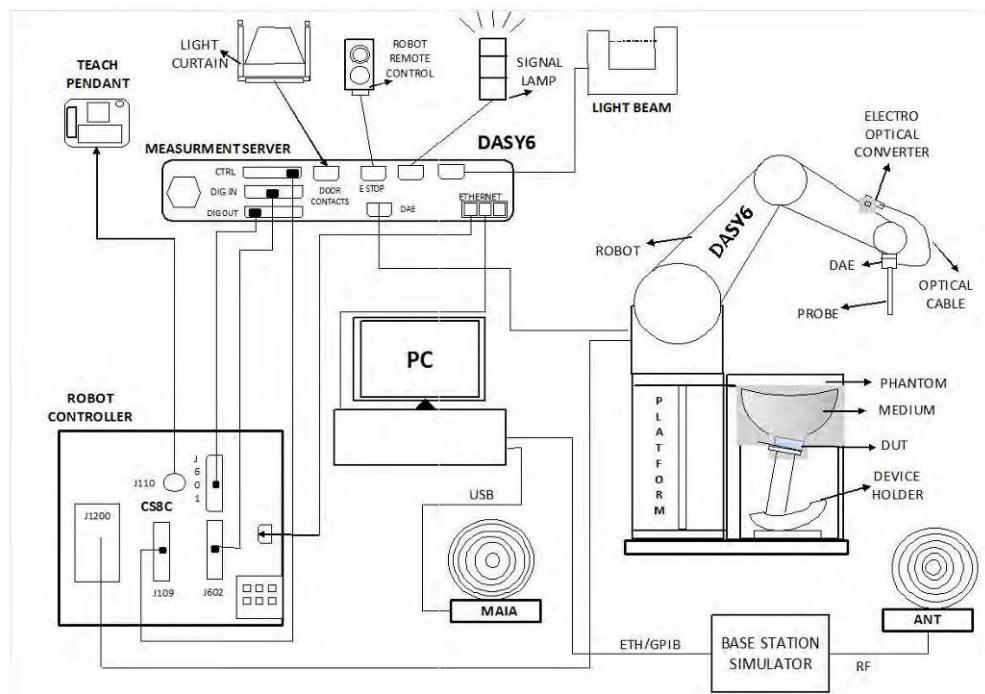
## DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY6 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



### DASY6 System Description

The DASY6 system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot (Staubli TX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

### DASY6 Measurement Server

The DASY6 measurement server is based on a PC/104 CPU board with a 400 MHz Intel ULV Celeron, 128 MB chip-disk and 128 MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16-bit AD converter system for optical detection and digital I/O interface are contained on the DASY6 I/O board, which is directly connected to the PC/104 bus of the CPU board.



The measurement server performs all real-time data evaluations of field measurements and surface detection, controls robot movements, and handles safety operations. The PC operating system cannot interfere with these time-critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port, which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Connection of devices from any other supplier could seriously damage the measurement server.

### Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

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

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

## EX3DV4 E-Field Probes

<b>Frequency</b>	4 MHz to >10 GHz Linearity: ± 0.2 dB (30 MHz to 10 GHz)
<b>Directivity</b>	± 0.1 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)
<b>Dynamic Range</b>	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)
<b>Dimensions</b>	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
<b>Application</b>	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
<b>Compatibility</b>	DASY3, DASY4, DASY52 SAR and higher, EASY6, EASY4/MRI

## SAM Twin Phantom

The SAM Twin Phantom (shown in front of DASY6) is a fiberglass shell phantom with shell thickness 2 mm, except in the ear region where the thickness is increased to 6 mm. The phantom has three measurement areas: 1) Left Head, 2) Right Head, and 3) Flat Section. For larger devices, the use of the ELI-Phantom (shown behind DASY6) is required. For devices such as glasses with a wireless link, the Face Down Phantom is the most suitable (between the SAM Twin and ELI phantoms).

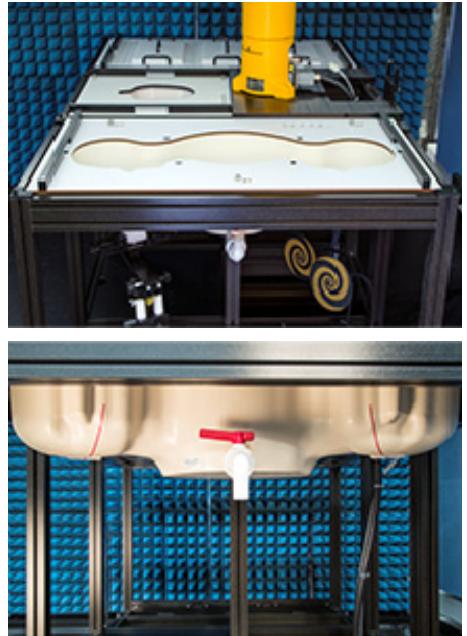
When the phantom is mounted inside allocated slot of the DASY6 platform, phantom reference points can be taught directly in the DASY5 V5.2 software. When the DASY6 platform is used to mount the

phantom, some of the phantom teaching points cannot be reached by the robot in DASY5 V5.2. A special tool called P1a-P2aX-Former is provided to transform two of the three points, P1 and P2, to reachable locations. To use these new teaching points, a revised phantom configuration file is required.

In addition to our standard broadband liquids, the phantom can be used with the following tissue simulating liquids:

Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.  
DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).

Do not use other organic solvents without previously testing the solvent resistivity of the phantom.  
Approximately 25 liters of liquid is required to fill the SAM Twin phantom.

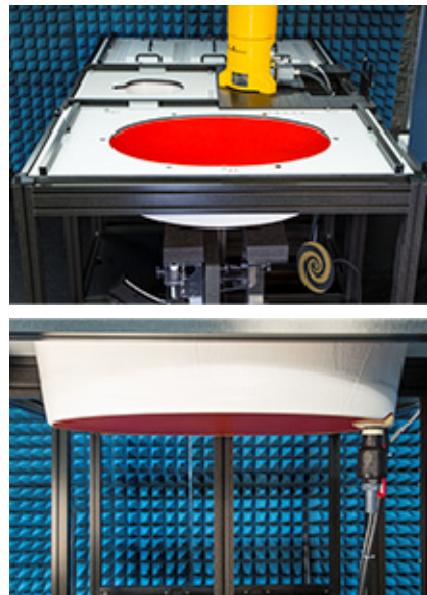


## ELI Phantom

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI is fully compatible with the latest draft of the standard IEEE 1528 and the use of all known tissue simulating liquids. ELI has been optimized for performance and can be integrated into a SPEAG standard phantom table. A cover is provided to prevent evaporation of water and changes in liquid parameters. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points.

The phantom can be used with the following tissue simulating liquids:

- Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.
- DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).
- Do not use other organic solvents without previously testing the solvent resistivity of the phantom.



Approximately 25 liters of liquid is required to \_ fill the ELI phantom.

## Robots

The DASY6 system uses the high-precision industrial robots TX60L, TX90XL, and RX160L from Staubli SA (France). The TX robot family - the successor of the well-known RX robot family - continues to offer the features important for DASY6 applications:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is provided

**Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7382 Calibrated: 2023/09/27**

Calibration Frequency Point (MHz)	Frequency Range (MHz)		Conversion Factor		
	From	To	X	Y	Z
750 Head	650	850	10.65	10.65	10.65
900 Head	850	1000	10.19	10.19	10.19
1750 Head	1650	1850	8.60	8.60	8.60
1900 Head	1850	2000	8.30	8.30	8.30
2300 Head	2200	2400	8.16	8.16	8.16
2450 Head	2400	2550	7.89	7.89	7.89
2600 Head	2550	2700	7.65	7.65	7.65
3300 Head	3200	3400	7.39	7.39	7.39
3500 Head	3400	3600	7.24	7.24	7.24
3700 Head	3600	3800	7.10	7.10	7.10
3900 Head	3800	4000	6.98	6.98	6.98
5250 Head	5140	5360	5.62	5.62	5.62
5500 Head	5390	5610	5.10	5.10	5.10
5750 Head	5640	5860	5.08	5.08	5.08

**SAR Scan Procedures****Step 1: Power Reference Measurement**

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 1.4 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

**Step 2: Area Scans**

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm<sup>2</sup> step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

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

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

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

### Step 3: Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m<sup>3</sup> is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 5mm, with the side length of the 10g cube is 21.5mm.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$		$\leq 2$ GHz: $\leq 8$ mm $2 - 3$ GHz: $\leq 5$ mm*	$3 - 4$ GHz: $\leq 5$ mm* $4 - 6$ GHz: $\leq 4$ mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		$\leq 5$ mm
	graded grid	$\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface	$\leq 4$ mm
		$\Delta z_{Zoom}(n>1)$ : between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$ mm
Minimum zoom scan volume	x, y, z	$\geq 30$ mm	$3 - 4$ GHz: $\geq 28$ mm $4 - 5$ GHz: $\geq 25$ mm $5 - 6$ GHz: $\geq 22$ mm
Note: $\delta$ 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 <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB Publication 447498 is $\leq 1.4$ W/kg, $\leq 8$ mm, $\leq 7$ mm and $\leq 5$ 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.			

### Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

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

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x 7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

## Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528:2013

### Recommended Tissue Dielectric Parameters for Head liquid

**Table A.3 – Dielectric properties of the head tissue-equivalent liquid**

Frequency MHz	Relative permittivity $\epsilon_r$	Conductivity ( $\sigma$ ) S/m
300	45,3	0,87
450	43,5	0,87
750	41,9	0,89
835	41,5	0,90
900	41,5	0,97
1 450	40,5	1,20
1 500	40,4	1,23
1 640	40,2	1,31
1 750	40,1	1,37
1 800	40,0	1,40
1 900	40,0	1,40
2 000	40,0	1,40
2 100	39,8	1,49
2 300	39,5	1,67
2 450	39,2	1,80
2 600	39,0	1,96
3 000	38,5	2,40
3 500	37,9	2,91
4 000	37,4	3,43
4 500	36,8	3,94
5 000	36,2	4,45
5 200	36,0	4,66
5 400	35,8	4,86
5 600	35,5	5,07
5 800	35,3	5,27
6 000	35,1	5,48

NOTE For convenience, permittivity and conductivity values at those frequencies which are not part of the original data provided by Drossos et al. [33] or the extension to 5 800 MHz are provided (i.e. the values shown *in italics*). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6 000 MHz that were linearly extrapolated from the values at 3 000 MHz and 5 800 MHz.

## EQUIPMENT LIST AND CALIBRATION

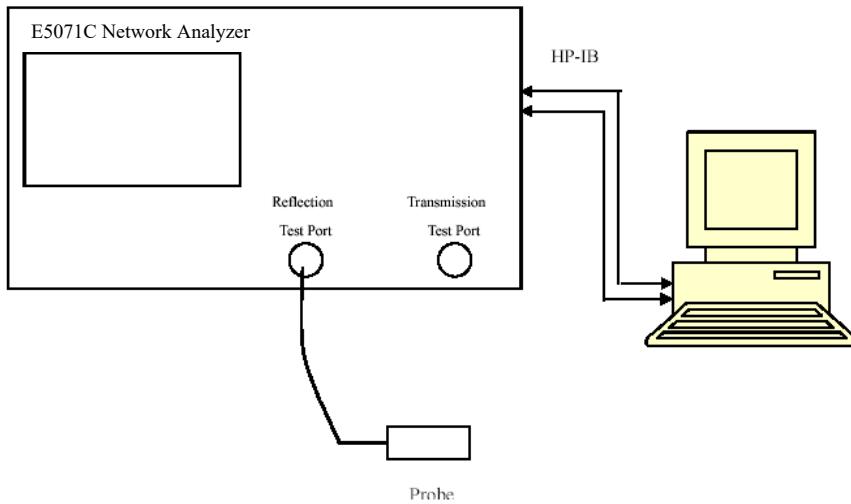
### Equipment's List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52 52.10.2	N/A	NCR	NCR
DASY6 Measurement Server	DASY6 6.0.31	N/A	NCR	NCR
Data Acquisition Electronics	DAE4	1325	2023/09/27	2024/09/26
E-Field Probe	EX3DV4	7382	2023/09/27	2024/09/26
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Dipole, 750MHz	D750V3	1229	2023/03/24	2026/03/23
Dipole, 1750MHz	D1750V2	1199	2023/03/27	2026/03/26
Dipole, 2450MHz	D2450V2	1103	2023/03/27	2026/03/26
Dipole, 2600MHz	D2600V2	1207	2023/03/27	2026/03/26
Dipole, 3500MHz	D3500V2	1113	2023/10/18	2026/10/17
Dipole, 3700MHz	D3700V2	1084	2023/10/20	2026/10/19
Dipole, 3900MHz	D3900V2	1058	2023/09/26	2026/09/25
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	/
Network Analyzer	E5071C	SER MY46519680	2024/05/21	2025/05/20
Dielectric Assessment Kit	DAK-3.5	1248	NCR	NCR
MXG Analog Signal Generator	N5181A	MY48180408	2024/01/16	2025/01/15
USB wideband power sensor	U2021XA	MY52350001	2024/05/21	2025/05/20
Directional Coupler	855673	3307	NCR	NCR
20dB Attenuator	2	BH9879	NCR	NCR
RF Power Amplifier	5205FE	1014	NCR	NCR
Amplifier	ZVE-8G+	558401902	NCR	NCR
Radio Communication Test Station	MT8000A	6262309799	2024/05/17	2025/05/16
Wideband Radio Communication Tester	CMW500	146520	2024/05/21	2025/05/20
UXM 5G Wireless Test Platform	E7515B	MY58120284	2024/05/17	2025/05/16
Thermometer	DTM3000	N/A	2024/01/16	2025/01/15
Temperature & Humidity Meter	10316377	N/A	2024/01/17	2025/01/16

**NCR:** No Calibration Required.

# SAR MEASUREMENT SYSTEM VERIFICATION

## Liquid Verification



Liquid Verification Setup Block Diagram

## Liquid Verification Results

Date	Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
			$\epsilon_r$	$\sigma$ (S/m)	$\epsilon_r$	$\sigma$ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
2024/08/09	3500	Simulated Tissue Liquid Head	36.477	2.844	37.90	2.91	-3.75	-2.27	±5
2024/08/10	3500	Simulated Tissue Liquid Head	36.940	2.883	37.90	2.91	-2.53	-0.93	±5
2024/08/11	750	Simulated Tissue Liquid Head	42.295	0.891	41.90	0.89	0.94	0.11	±5
	831.6	Simulated Tissue Liquid Head	42.057	0.894	41.52	0.90	1.29	-0.67	±5
	836.5	Simulated Tissue Liquid Head	42.043	0.894	41.50	0.90	1.31	-0.67	±5
2024/08/12	2450	Simulated Tissue Liquid Head	38.866	1.837	39.20	1.80	-0.85	2.06	±5
	2535	Simulated Tissue Liquid Head	38.600	1.903	39.09	1.89	-1.25	0.69	±5
2024/08/13	2450	Simulated Tissue Liquid Head	37.720	1.799	39.20	1.80	-3.78	-0.06	±5
	2525.1	Simulated Tissue Liquid Head	37.601	1.936	39.10	1.88	-3.83	2.98	±5
	2535	Simulated Tissue Liquid Head	37.585	1.954	39.09	1.89	-3.85	3.39	±5
2024/08/15	707.5	Simulated Tissue Liquid Head	42.346	0.891	42.13	0.89	0.51	0.11	±5
	750	Simulated Tissue Liquid Head	42.060	0.898	41.90	0.89	0.38	0.90	±5
2024/08/16	2585.1	Simulated Tissue Liquid Head	38.064	1.999	39.02	1.94	-2.45	3.04	±5
	2595	Simulated Tissue Liquid Head	38.052	2.011	39.01	1.95	-2.46	3.13	±5
	2600	Simulated Tissue Liquid Head	38.046	2.017	39.00	1.96	-2.45	2.91	±5
2024/08/17	2595	Simulated Tissue Liquid Head	38.366	2.002	39.01	1.95	-1.65	2.67	±5
	2600	Simulated Tissue Liquid Head	38.358	2.006	39.00	1.96	-1.65	2.35	±5

Date	Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
			$\epsilon_r$	$\sigma$ (S/m)	$\epsilon_r$	$\sigma$ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
2024/08/17	2583.1	Simulated Tissue Liquid Head	37.533	1.899	39.02	1.94	-3.81	-2.11	±5
	2593	Simulated Tissue Liquid Head	37.519	1.919	39.01	1.95	-3.82	-1.59	±5
	2600	Simulated Tissue Liquid Head	37.509	1.933	39.00	1.96	-3.82	-1.38	±5
2024/08/19	2593	Simulated Tissue Liquid Head	40.048	1.934	39.01	1.95	2.66	-0.82	±5
	2600	Simulated Tissue Liquid Head	40.027	1.939	39.00	1.96	2.63	-1.07	±5
2024/08/18	1745	Simulated Tissue Liquid Head	39.918	1.367	40.08	1.37	-0.40	-0.22	±5
	1745.1	Simulated Tissue Liquid Head	39.918	1.367	40.08	1.37	-0.40	-0.22	±5
	1750	Simulated Tissue Liquid Head	39.907	1.369	40.07	1.37	-0.41	-0.07	±5
2024/08/19	1745	Simulated Tissue Liquid Head	40.663	1.360	40.08	1.37	1.45	-0.73	±5
	1750	Simulated Tissue Liquid Head	40.636	1.363	40.07	1.37	1.41	-0.51	±5
2024/08/20	3500	Simulated Tissue Liquid Head	36.668	2.858	37.90	2.91	-3.25	-1.79	±5
2024/08/21	3500	Simulated Tissue Liquid Head	38.526	2.855	37.90	2.91	1.65	-1.89	±5
2024/08/22	3625	Simulated Tissue Liquid Head	37.277	2.978	37.78	3.04	-1.33	-2.04	±5
	3700	Simulated Tissue Liquid Head	37.095	3.091	37.70	3.12	-1.60	-0.93	±5
2024/08/23	3625	Simulated Tissue Liquid Head	38.448	2.968	37.78	3.04	1.77	-2.37	±5
	3700	Simulated Tissue Liquid Head	38.393	3.116	37.70	3.12	1.84	-0.13	±5
2024/08/24	3840	Simulated Tissue Liquid Head	36.362	3.168	37.56	3.26	-3.19	-2.82	±5
	3900	Simulated Tissue Liquid Head	36.253	3.254	37.50	3.33	-3.33	-2.28	±5
2024/08/25	3840	Simulated Tissue Liquid Head	37.689	3.293	37.56	3.26	0.34	1.01	±5
	3900	Simulated Tissue Liquid Head	37.617	3.329	37.50	3.33	0.31	-0.03	±5

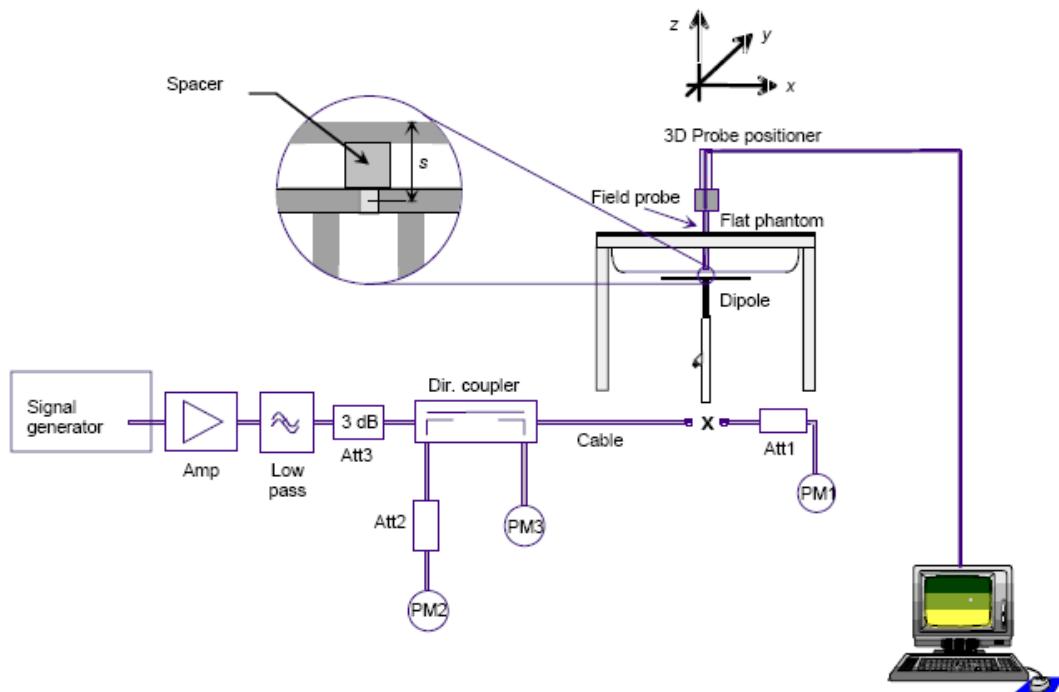
## System Accuracy Verification

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

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

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

## System Verification Setup Block Diagram



**System Accuracy Check Results**

Date	Frequency Band (MHz)	Liquid Type	Input Power (mW)	Measured SAR (W/kg)	Normalized to 1W (W/kg)	Target Value (W/Kg)	Delta (%)	Tolerance (%)	
2024/08/09	3500	Head	100	1g	6.24	62.40	66.4	-6.024	±10
2024/08/10	3500	Head	100	1g	6.54	65.40	66.4	-1.506	±10
2024/08/11	750	Head	100	1g	0.867	8.7	8.41	3.092	±10
2024/08/12	2450	Head	100	1g	5.24	52.4	51.7	1.354	±10
2024/08/13	2450	Head	100	1g	4.96	49.6	51.7	-4.062	±10
2024/08/15	750	Head	100	1g	0.856	8.6	8.41	1.784	±10
2024/08/16	2600	Head	100	1g	5.62	56.2	55.2	1.812	±10
2024/08/13	2600	Head	100	1g	5.94	59.4	55.2	7.609	±10
2024/08/17	2600	Head	100	1g	5.68	56.8	55.2	2.899	±10
2024/08/19	2600	Head	100	1g	5.83	58.3	55.2	5.616	±10
2024/08/18	1750	Head	100	1g	3.65	36.5	36.0	1.389	±10
2024/08/19	1750	Head	100	1g	3.65	36.5	36.0	1.389	±10
2024/08/20	3500	Head	100	1g	6.35	63.5	66.4	-4.367	±10
2024/08/21	3500	Head	100	1g	6.17	61.7	66.4	-7.078	±10
2024/08/22	3700	Head	100	1g	6.76	67.6	66.7	1.349	±10
2024/08/23	3700	Head	100	1g	6.38	63.8	66.7	-4.348	±10
2024/08/24	3900	Head	100	1g	6.67	66.7	68.6	-2.770	±10
2024/08/25	3900	Head	100	1g	6.82	68.2	68.6	-0.583	±10

**Note:**

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

## SAR SYSTEM VALIDATION DATA

### System Performance 3500 MHz Head (Date 2024/08/09)

**DUT: Dipole 3500 MHz Type: D3500 MHzV2; Serial: 1113**

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 3500 \text{ MHz}$ ;  $\sigma = 2.844 \text{ S/m}$ ;  $\epsilon_r = 36.477$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.24, 7.24, 7.24) @ 3500 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 3500MHz Pin=100mW/Area Scan (9x11x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 10.5 W/kg

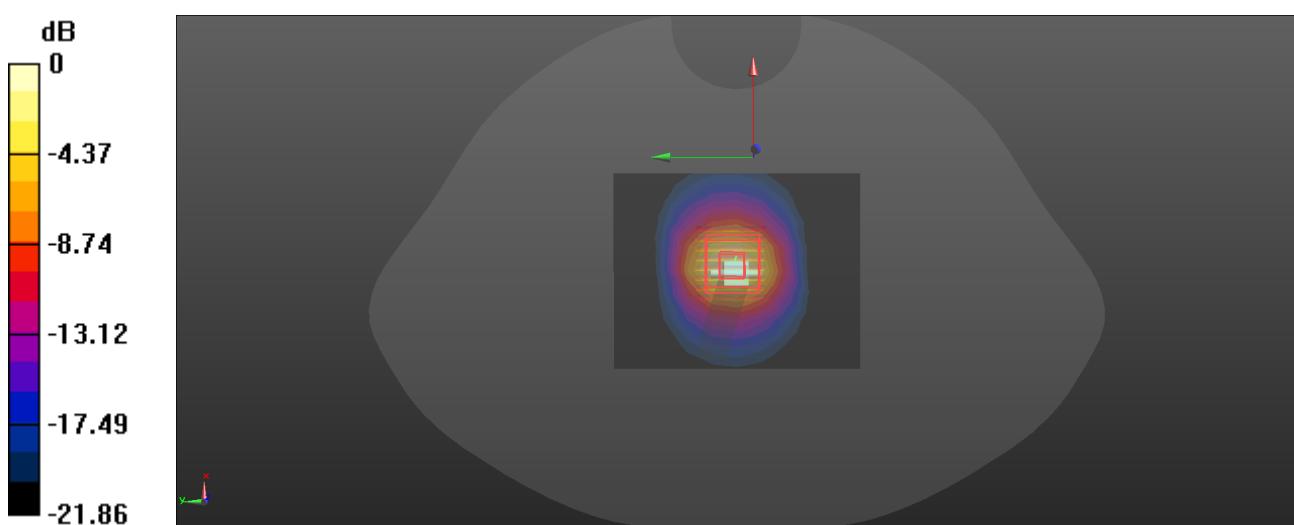
**Configuration/Head 3500MHz Pin=100mW/Zoom Scan (8x8x16)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 49.58 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 14.0 W/kg

**SAR(1 g) = 6.24 W/kg; SAR(10 g) = 2.54 W/kg**

Maximum value of SAR (measured) = 10.9 W/kg



0 dB = 10.9 W/kg = 10.37 dBW/kg

**System Performance 3500 MHz Head (Date 2024/08/10)****DUT: Dipole 3500 MHz Type: D3500 MHzV2; Serial: 1113**

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 3500 \text{ MHz}$ ;  $\sigma = 2.883 \text{ S/m}$ ;  $\epsilon_r = 36.94$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.24, 7.24, 7.24) @ 3500 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 3500MHz Pin=100mW/Area Scan (9x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.9 W/kg

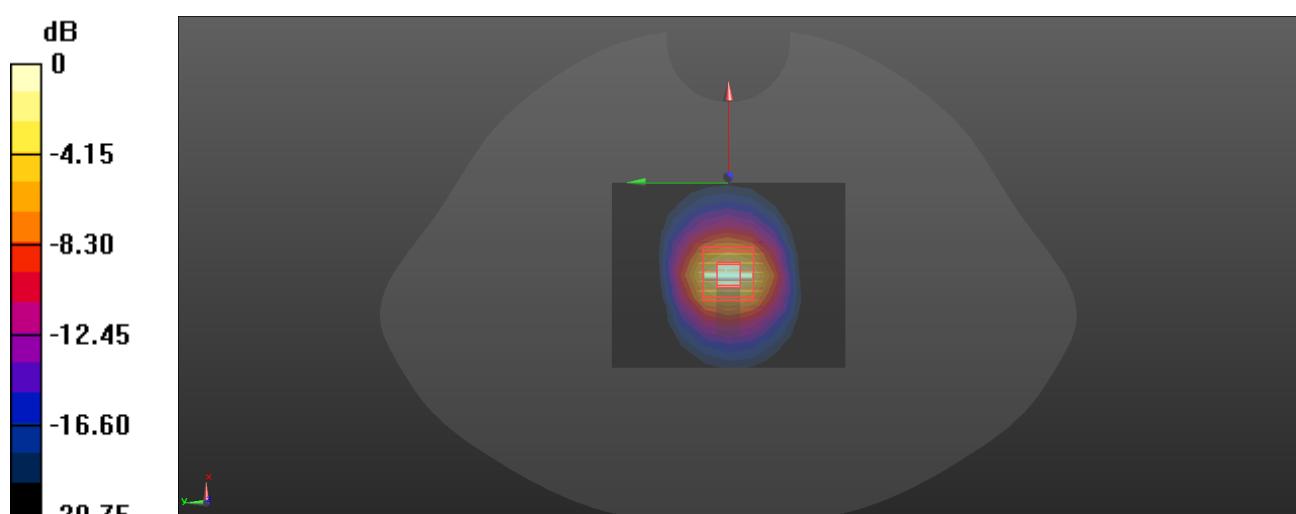
**Configuration/Head 3500MHz Pin=100mW/Zoom Scan (8x8x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 53.14 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 14.2 W/kg

**SAR(1 g) = 6.54 W/kg; SAR(10 g) = 2.72 W/kg**

Maximum value of SAR (measured) = 11.3 W/kg



$$0 \text{ dB} = 11.3 \text{ W/kg} = 10.53 \text{ dBW/kg}$$

**System Performance 750 MHz Head (Date 2024/08/11)****DUT: Dipole 750 MHz; Type: D750V3; Serial: 1229**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.891 \text{ S/m}$ ;  $\epsilon_r = 42.295$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(10.65, 10.65, 10.65) @ 750 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 750MHz Pin=100mW/Area Scan (11x19x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.18 W/kg

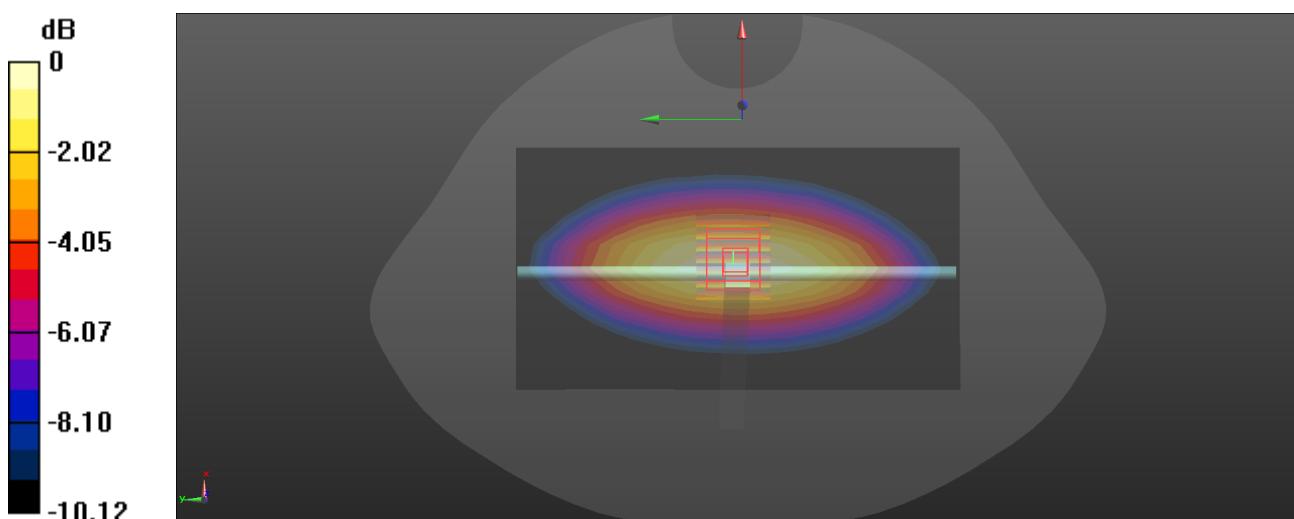
**Configuration/Head 750MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.00 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.32 W/kg

**SAR(1 g) = 0.867 W/kg; SAR(10 g) = 0.573 W/kg**

Maximum value of SAR (measured) = 1.16 W/kg



$$0 \text{ dB} = 1.16 \text{ W/kg} = 0.64 \text{ dBW/kg}$$

**System Performance 2450 MHz Head (Date 2024/08/12)****DUT: Dipole 2450 MHz; Type: 2450V2; Serial: 1103**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.837 \text{ S/m}$ ;  $\epsilon_r = 38.866$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.89, 7.89, 7.89) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 2450MHz Pin=100mW/Area Scan (9x10x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 8.12 W/kg

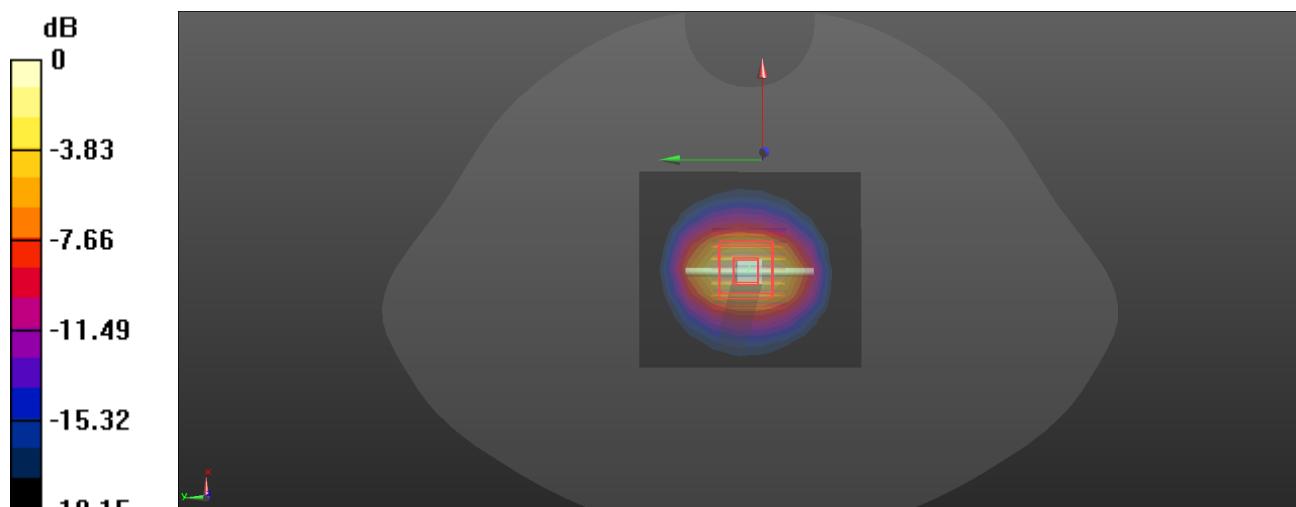
**Configuration/Head 2450MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 57.56 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 9.76 W/kg

**SAR(1 g) = 5.24 W/kg; SAR(10 g) = 2.59 W/kg**

Maximum value of SAR (measured) = 8.25 W/kg



$$0 \text{ dB} = 8.25 \text{ W/kg} = 9.16 \text{ dBW/kg}$$

**System Performance 2450 MHz Head (Date 2024/08/13)****DUT: Dipole 2450 MHz; Type: 2450V2; Serial: 1103**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.799 \text{ S/m}$ ;  $\epsilon_r = 37.72$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.89, 7.89, 7.89) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 2450MHz Pin=100mW/Area Scan (9x10x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 7.90 W/kg

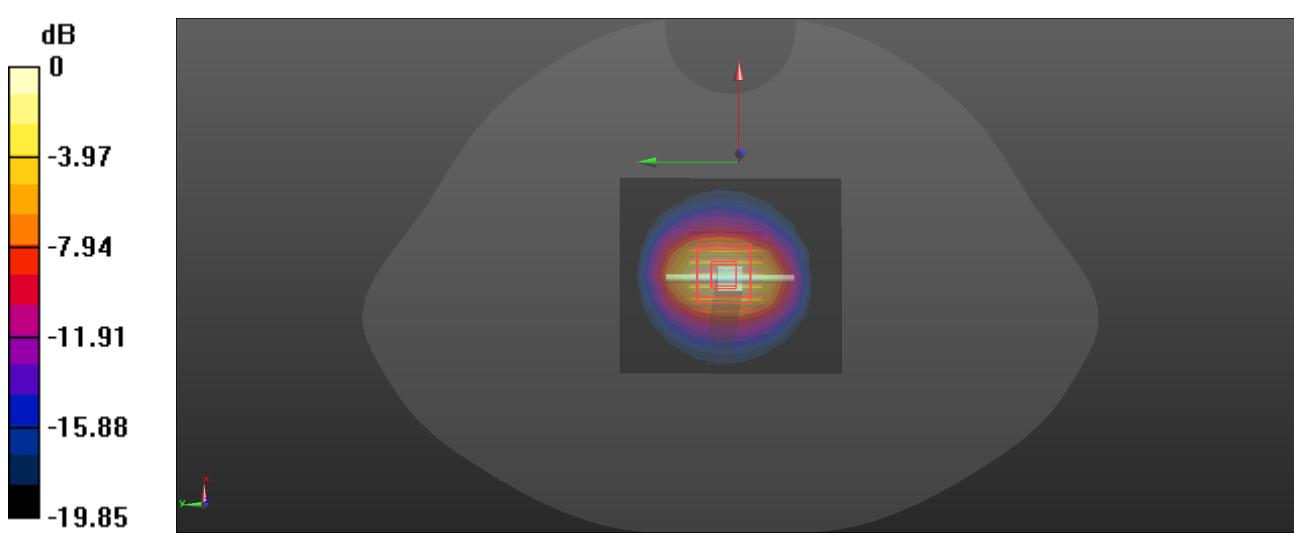
**Configuration/Head 2450MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 56.38 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 9.39 W/kg

**SAR(1 g) = 4.96 W/kg; SAR(10 g) = 2.41 W/kg**

Maximum value of SAR (measured) = 7.91 W/kg



$$0 \text{ dB} = 7.91 \text{ W/kg} = 8.98 \text{ dBW/kg}$$

**System Performance 750 MHz Head (Date 2024/08/15)****DUT: Dipole 750 MHz; Type: D750V3; Serial: 1229**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.898 \text{ S/m}$ ;  $\epsilon_r = 42.06$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(10.65, 10.65, 10.65) @ 750 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 750MHz Pin=100mW/Area Scan (11x19x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.13 W/kg

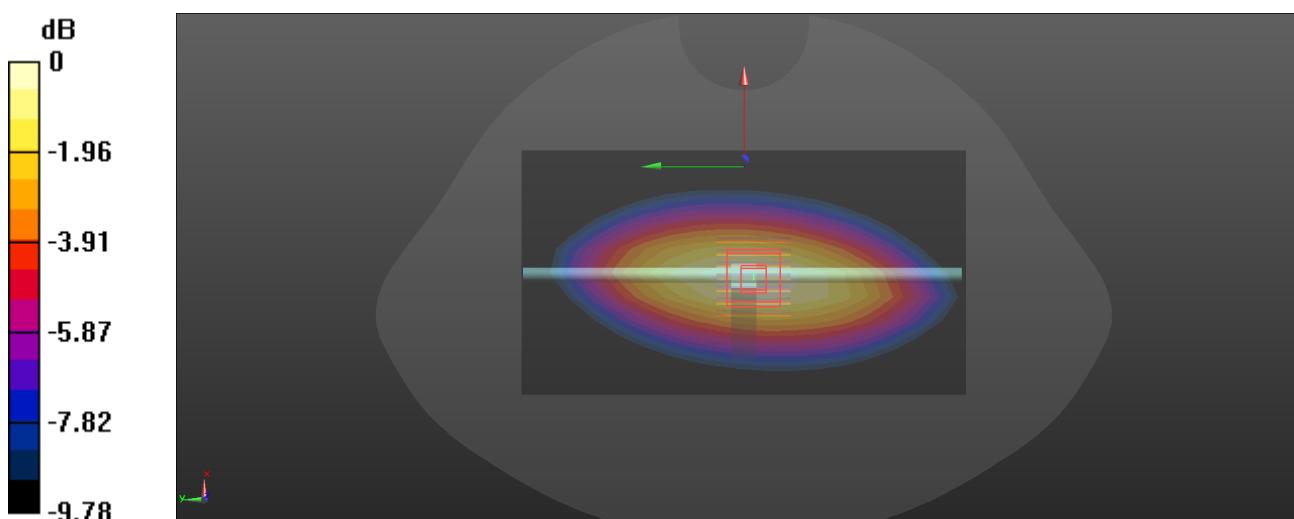
**Configuration/Head 750MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.89 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.29 W/kg

**SAR(1 g) = 0.856 W/kg; SAR(10 g) = 0.573 W/kg**

Maximum value of SAR (measured) = 1.14 W/kg



**System Performance 2600 MHz Head (Date 2024/08/16)****DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1207**

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

Medium parameters used:  $f = 2600 \text{ MHz}$ ;  $\sigma = 2.017 \text{ S/m}$ ;  $\epsilon_r = 38.046$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.65, 7.65, 7.65) @ 2600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 2600MHz Pin=100mW/Area Scan (9x10x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 8.57 W/kg

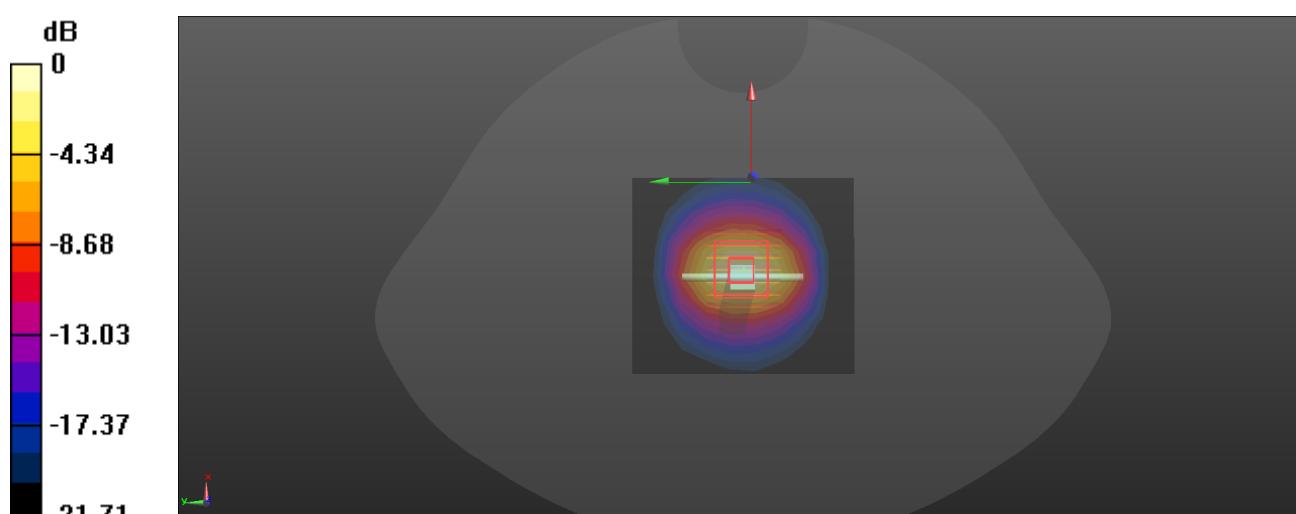
**Configuration/Head 2600MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.26 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 11.2 W/kg

**SAR(1 g) = 5.62 W/kg; SAR(10 g) = 2.62 W/kg**

Maximum value of SAR (measured) = 9.26 W/kg



**System Performance 2600 MHz Head (Date 2024/08/13)****DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1207**

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

Medium parameters used:  $f = 2600 \text{ MHz}$ ;  $\sigma = 2.006 \text{ S/m}$ ;  $\epsilon_r = 38.358$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.65, 7.65, 7.65) @ 2600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 2600MHz Pin=100mW/Area Scan (9x10x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.67 W/kg

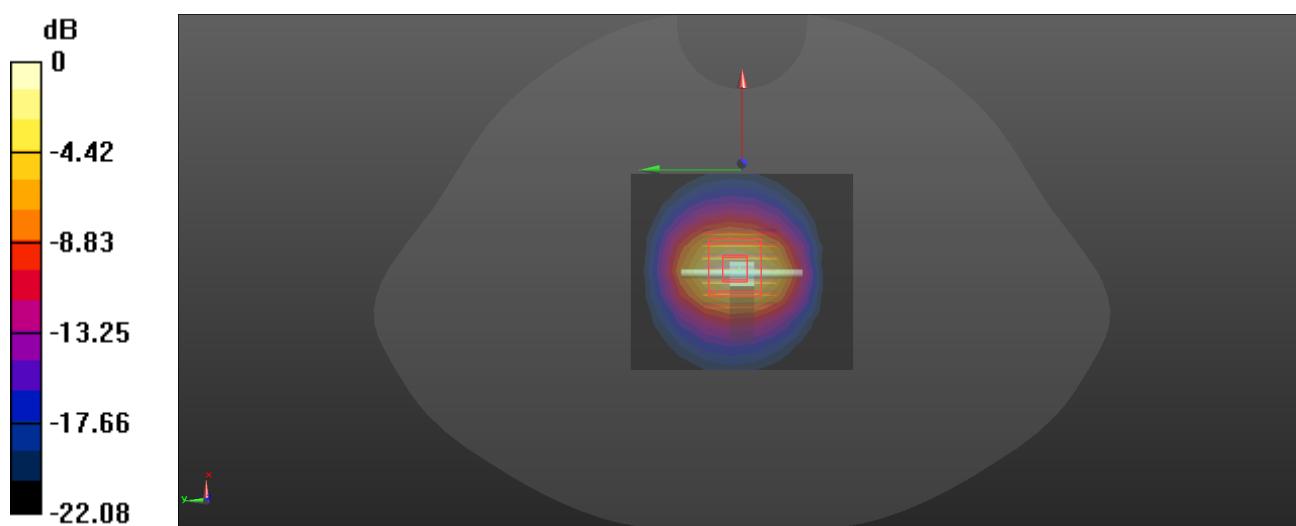
**Configuration/Head 2600MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.82 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 11.9 W/kg

**SAR(1 g) = 5.94 W/kg; SAR(10 g) = 2.77 W/kg**

Maximum value of SAR (measured) = 9.73 W/kg



$$0 \text{ dB} = 9.73 \text{ W/kg} = 9.88 \text{ dBW/kg}$$

**System Performance 2600 MHz Head (Date 2024/08/17)****DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1207**

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

Medium parameters used:  $f = 2600 \text{ MHz}$ ;  $\sigma = 1.933 \text{ S/m}$ ;  $\epsilon_r = 37.509$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.65, 7.65, 7.65) @ 2600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 2600MHz Pin=100mW/Area Scan (9x10x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.11 W/kg

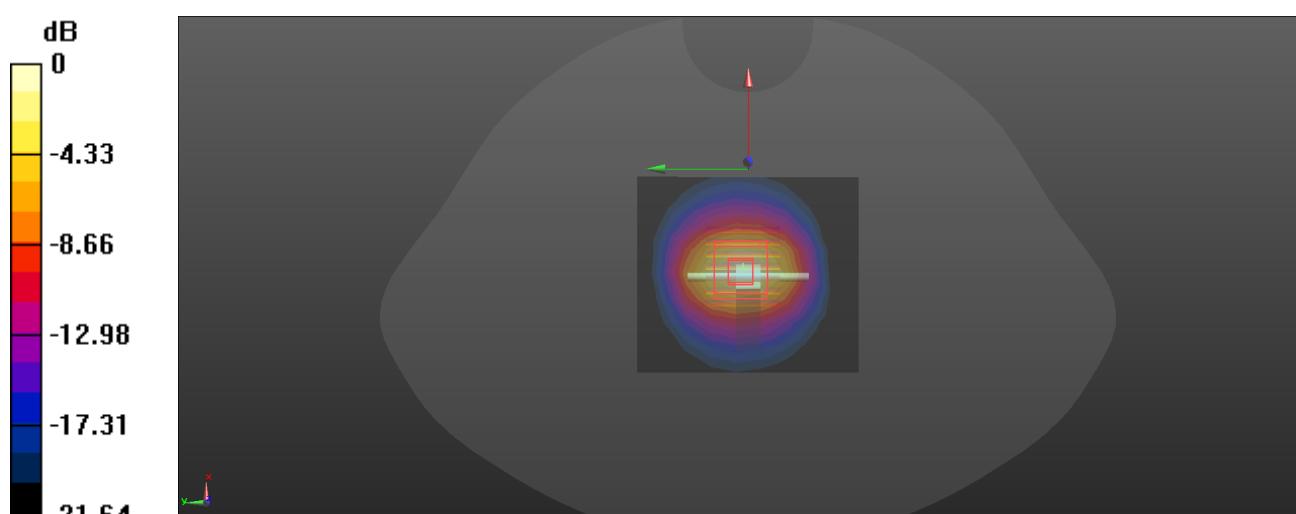
**Configuration/Head 2600MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.52 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 11.3 W/kg

**SAR(1 g) = 5.68 W/kg; SAR(10 g) = 2.66 W/kg**

Maximum value of SAR (measured) = 9.32 W/kg



$$0 \text{ dB} = 9.32 \text{ W/kg} = 9.69 \text{ dBW/kg}$$

**System Performance 2600 MHz Head (Date 2024/08/19)****DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1207**

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

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.939$  S/m;  $\epsilon_r = 40.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.65, 7.65, 7.65) @ 2600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 2600MHz Pin=100mW/Area Scan (9x10x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 8.19 W/kg

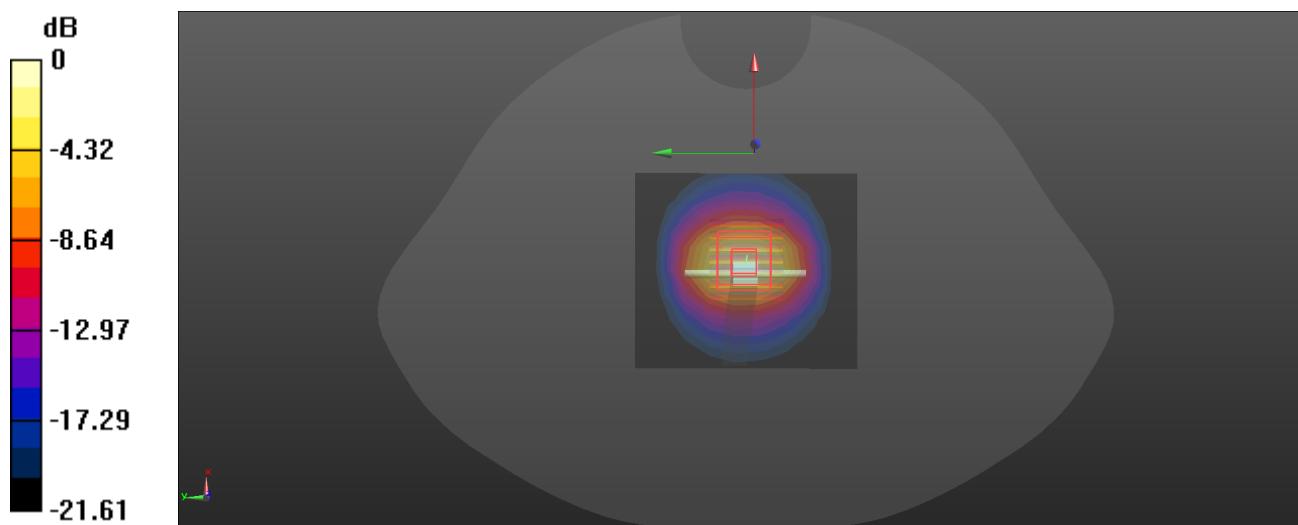
**Configuration/Head 2600MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.01 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 11.5 W/kg

**SAR(1 g) = 5.83 W/kg; SAR(10 g) = 2.71 W/kg**

Maximum value of SAR (measured) = 9.46 W/kg



**System Performance 1750 MHz Head (Date 2024/08/18)****DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1199**

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

Medium parameters used:  $f = 1750 \text{ MHz}$ ;  $\sigma = 1.369 \text{ S/m}$ ;  $\epsilon_r = 39.907$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(8.6, 8.6, 8.6) @ 1750 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 1750MHz Pin=100mW/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.37 W/kg

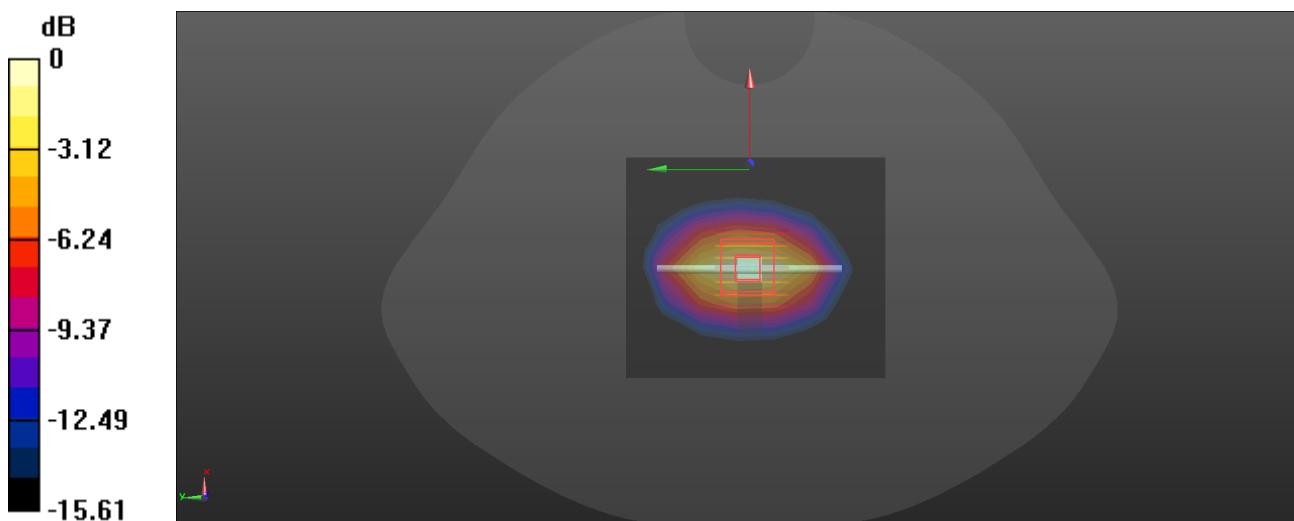
**Configuration/Head 1750MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.27 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 6.44 W/kg

**SAR(1 g) = 3.65 W/kg; SAR(10 g) = 2.02 W/kg**

Maximum value of SAR (measured) = 5.44 W/kg



**System Performance 1750 MHz Head (Date 2024/08/19)****DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1199**

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

Medium parameters used:  $f = 1750 \text{ MHz}$ ;  $\sigma = 1.363 \text{ S/m}$ ;  $\epsilon_r = 40.636$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(8.6, 8.6, 8.6) @ 1750 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 1750MHz Pin=100mW/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.56 W/kg

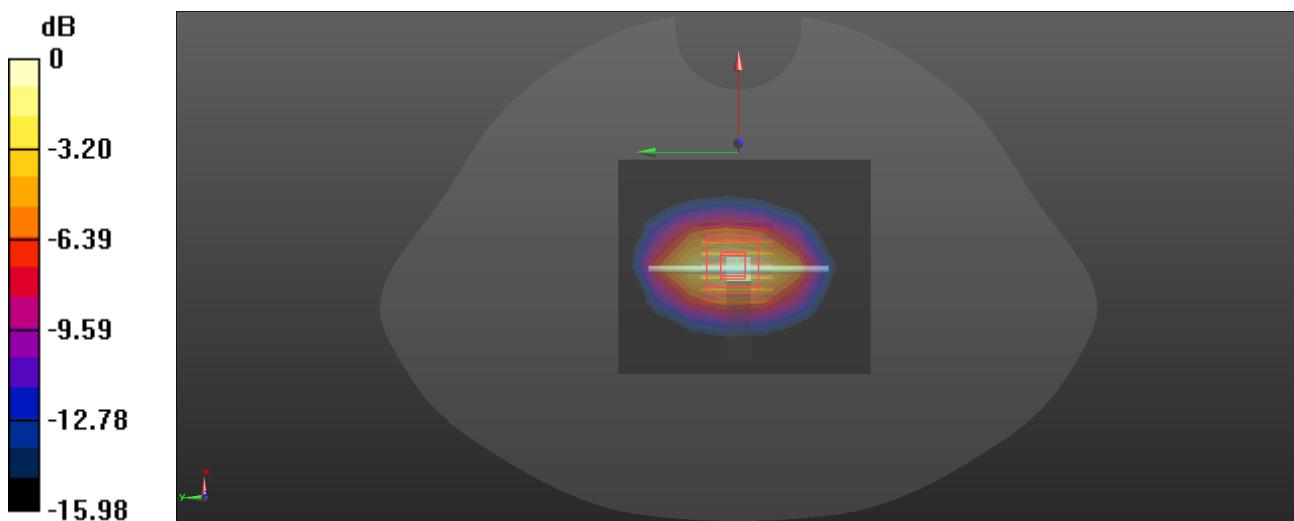
**Configuration/Head 1750MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.08 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 6.49 W/kg

**SAR(1 g) = 3.65 W/kg; SAR(10 g) = 1.99 W/kg**

Maximum value of SAR (measured) = 5.49 W/kg



**System Performance 3500 MHz Head (Date 2024/08/20)****DUT: Dipole 3500 MHz Type: D3500 MHzV2; Serial: 1113**

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 3500 \text{ MHz}$ ;  $\sigma = 2.858 \text{ S/m}$ ;  $\epsilon_r = 36.668$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.24, 7.24, 7.24) @ 3500 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 3500MHz Pin=100mW/Area Scan (9x11x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 9.36 W/kg

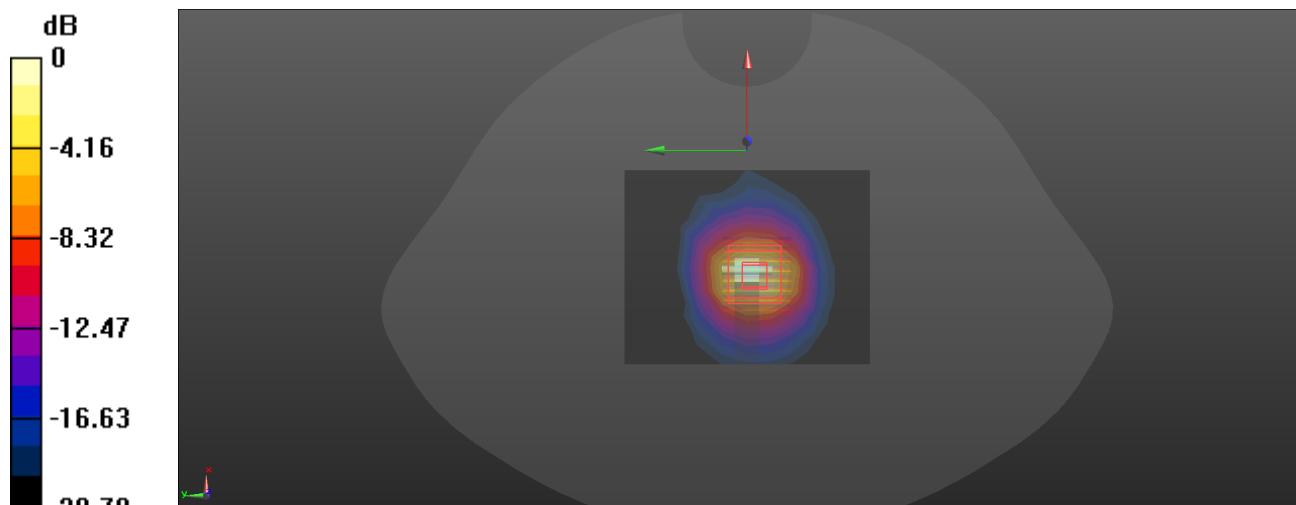
**Configuration/Head 3500MHz Pin=100mW/Zoom Scan (8x8x16)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 47.61 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 13.8 W/kg

**SAR(1 g) = 6.35 W/kg; SAR(10 g) = 2.6 W/kg**

Maximum value of SAR (measured) = 11.0 W/kg



**System Performance 3500 MHz Head (Date 2024/08/21)****DUT: Dipole 3500 MHz Type: D3500 MHzV2; Serial: 1113**

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 3500 \text{ MHz}$ ;  $\sigma = 2.855 \text{ S/m}$ ;  $\epsilon_r = 38.526$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.24, 7.24, 7.24) @ 3500 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 3500MHz Pin=100mW/Area Scan (9x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.1 W/kg

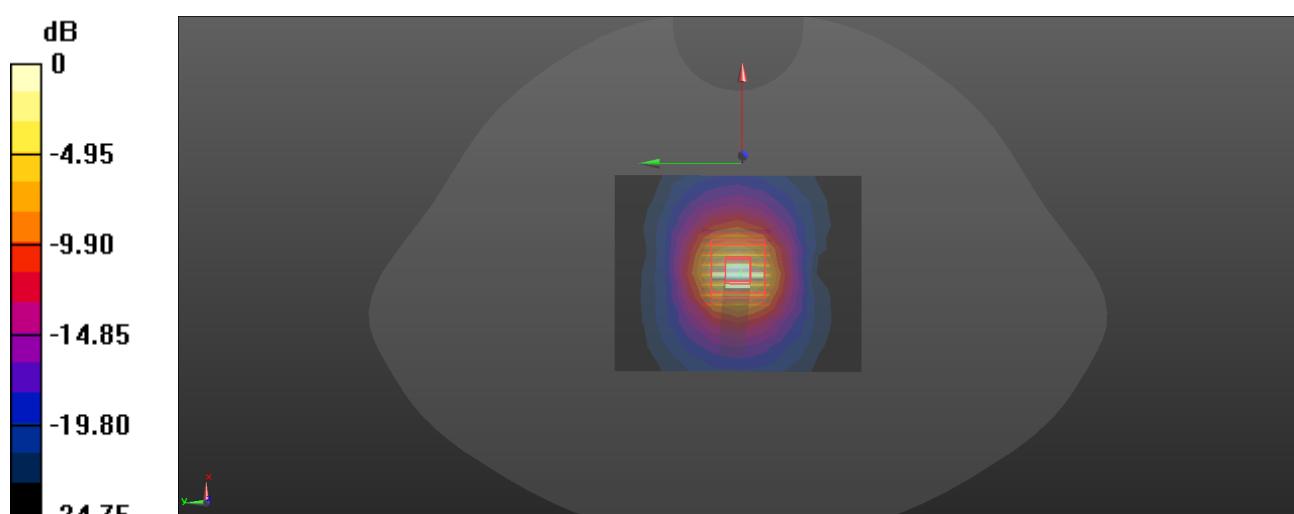
**Configuration/Head 3500MHz Pin=100mW/Zoom Scan (8x8x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 50.78 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 13.8 W/kg

**SAR(1 g) = 6.17 W/kg; SAR(10 g) = 2.4 W/kg**

Maximum value of SAR (measured) = 10.8 W/kg



$$0 \text{ dB} = 10.8 \text{ W/kg} = 10.33 \text{ dBW/kg}$$

**System Performance 3700 MHz Head (Date 2024/08/22)****DUT: Dipole 3700 MHz Type: D3700 MHzV2; Serial: 1084**

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 3700 \text{ MHz}$ ;  $\sigma = 3.091 \text{ S/m}$ ;  $\epsilon_r = 37.095$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.1, 7.1, 7.1) @ 3700 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 3700MHz Pin=100mW/Area Scan (9x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.5 W/kg

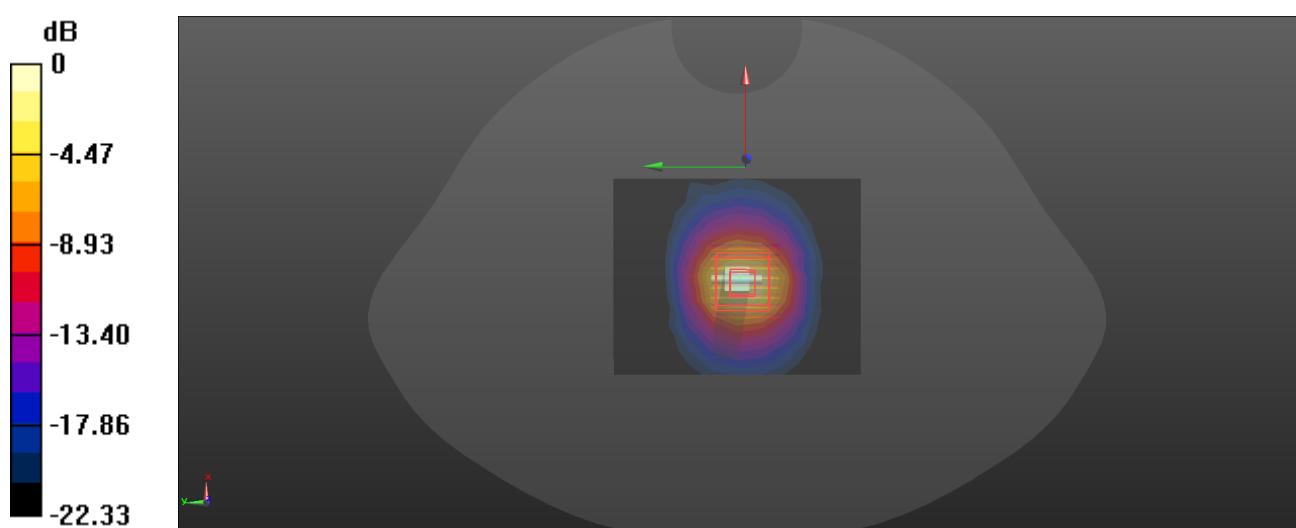
**Configuration/Head 3700MHz Pin=100mW/Zoom Scan (8x8x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 49.58 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 15.3 W/kg

**SAR(1 g) = 6.76 W/kg; SAR(10 g) = 2.69 W/kg**

Maximum value of SAR (measured) = 12.0 W/kg



$$0 \text{ dB} = 12.0 \text{ W/kg} = 10.79 \text{ dBW/kg}$$

**System Performance 3700 MHz Head (Date 2024/08/23)****DUT: Dipole 3700 MHz Type: D3700 MHzV2; Serial: 1084**

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 3700 \text{ MHz}$ ;  $\sigma = 3.116 \text{ S/m}$ ;  $\epsilon_r = 38.393$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(7.1, 7.1, 7.1) @ 3700 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 3700MHz Pin=100mW/Area Scan (9x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.8 W/kg

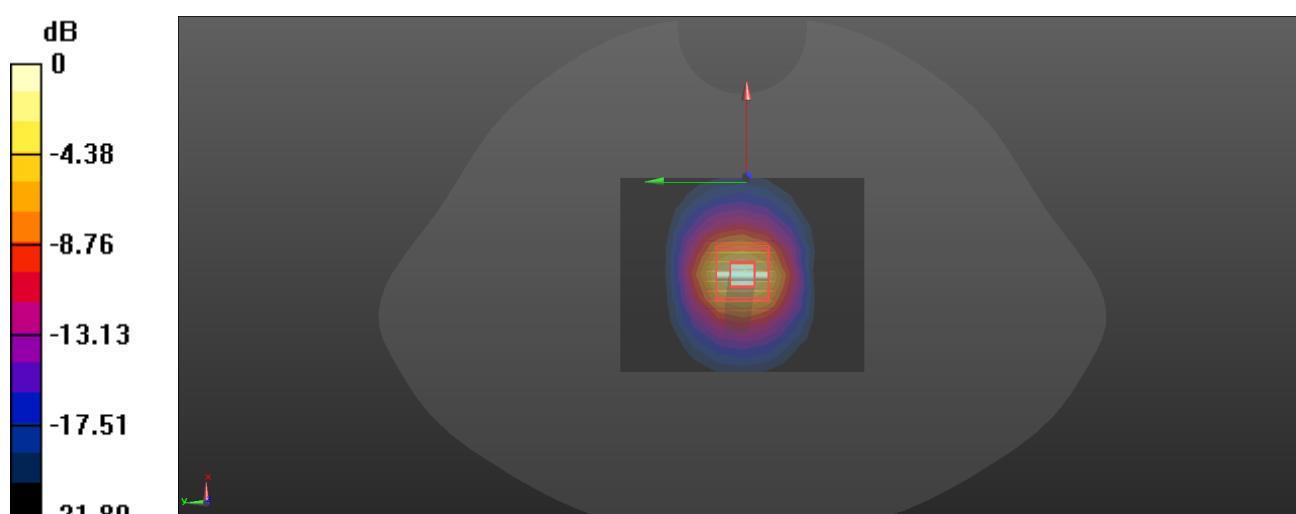
**Configuration/Head 3700MHz Pin=100mW/Zoom Scan (8x8x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 49.67 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 14.3 W/kg

**SAR(1 g) = 6.38 W/kg; SAR(10 g) = 2.53 W/kg**

Maximum value of SAR (measured) = 11.3 W/kg



$$0 \text{ dB} = 11.3 \text{ W/kg} = 10.53 \text{ dBW/kg}$$

**System Performance 3900 MHz Head (Date 2024/08/24)****DUT: Dipole 3900 MHz Type: D3900 MHzV2; Serial: 1058**

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 3900 \text{ MHz}$ ;  $\sigma = 3.254 \text{ S/m}$ ;  $\epsilon_r = 36.253$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(6.98, 6.98, 6.98) @ 3900 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 3900MHz Pin=100mW/Area Scan (9x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 12.6 W/kg

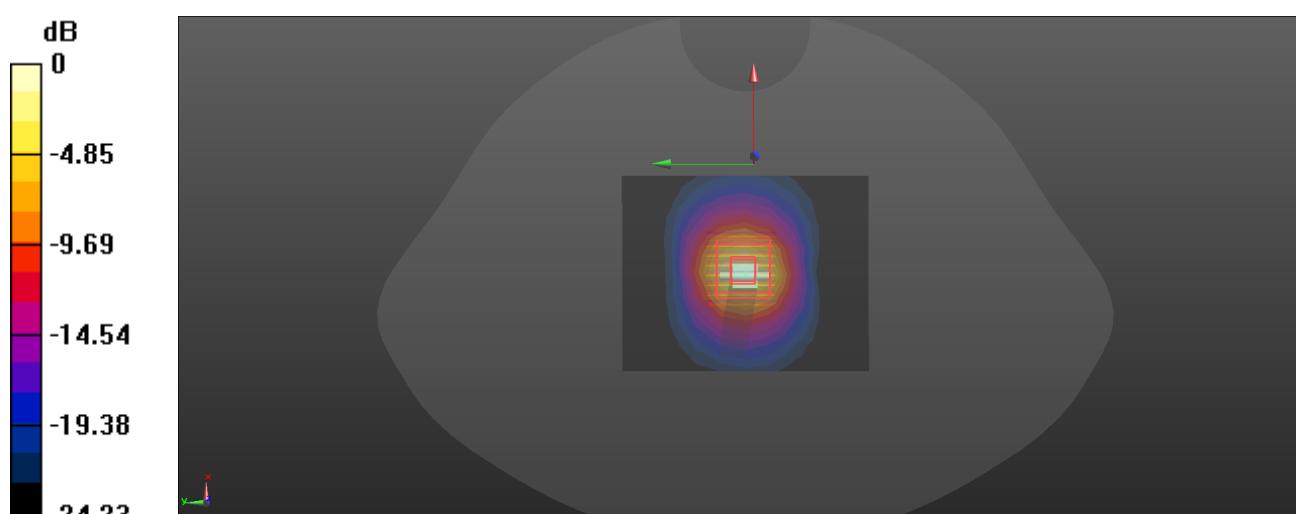
**Configuration/Head 3900MHz Pin=100mW/Zoom Scan (8x8x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 49.99 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 15.7 W/kg

**SAR(1 g) = 6.67 W/kg; SAR(10 g) = 2.5 W/kg**

Maximum value of SAR (measured) = 12.2 W/kg



$$0 \text{ dB} = 12.2 \text{ W/kg} = 10.86 \text{ dBW/kg}$$

**System Performance 3900 MHz Head (Date 2024/08/25)****DUT: Dipole 3900 MHz Type: D3900 MHzV2; Serial: 1058**

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 3900 \text{ MHz}$ ;  $\sigma = 3.329 \text{ S/m}$ ;  $\epsilon_r = 37.617$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7382; ConvF(6.98, 6.98, 6.98) @ 3900 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

**Configuration/Head 3900MHz Pin=100mW/Area Scan (9x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 10.6 W/kg

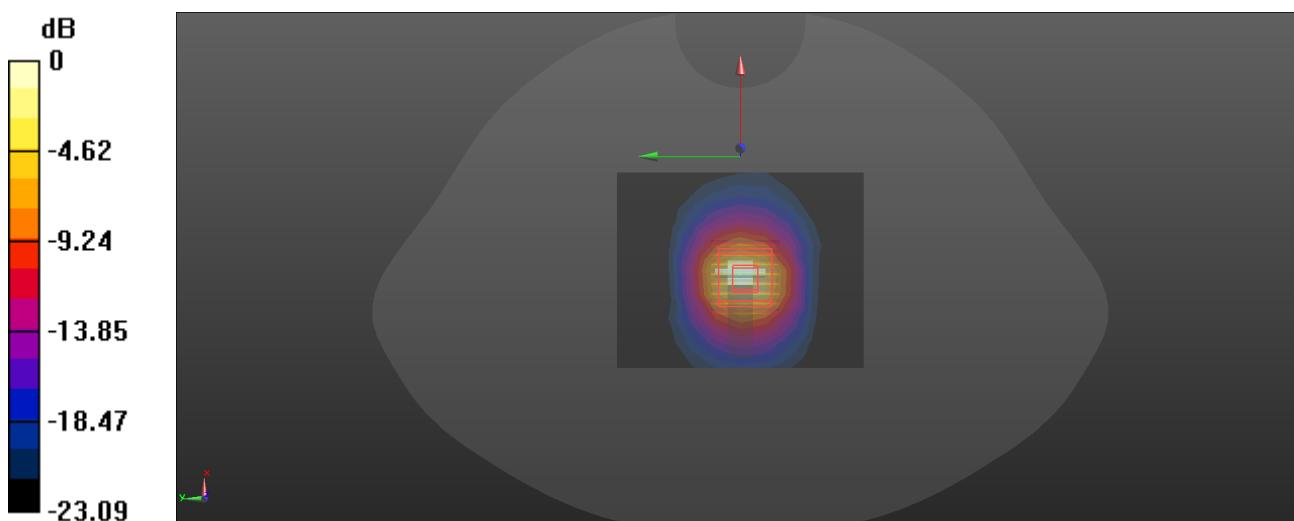
**Configuration/Head 3900MHz Pin=100mW/Zoom Scan (8x8x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 46.47 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 15.8 W/kg

**SAR(1 g) = 6.82 W/kg; SAR(10 g) = 2.58 W/kg**

Maximum value of SAR (measured) = 12.1 W/kg

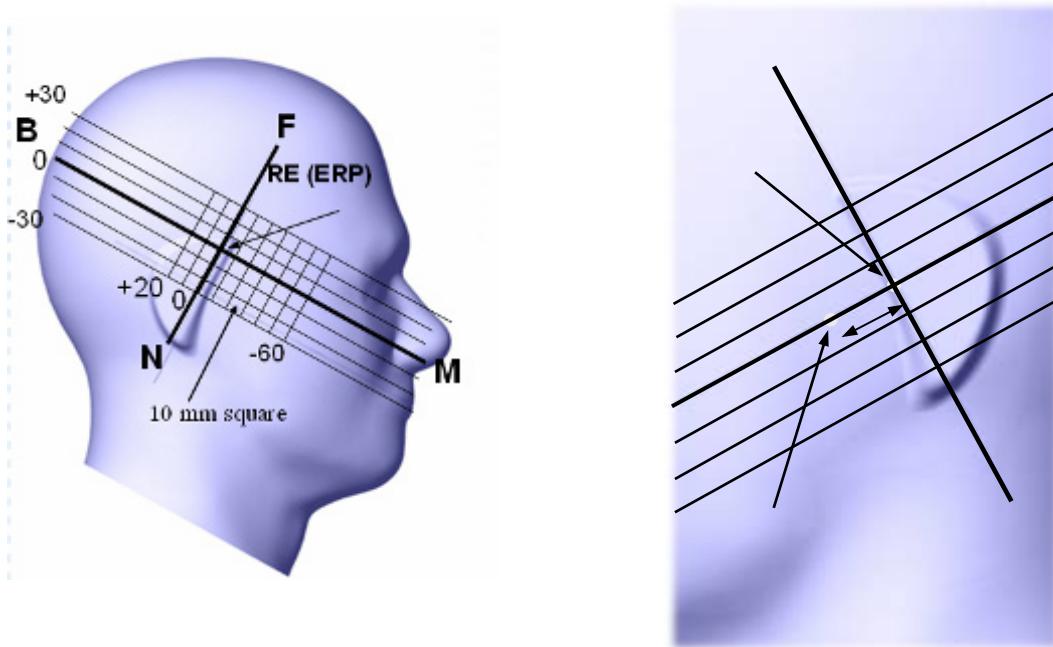


## EUT TEST STRATEGY AND METHODOLOGY

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

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

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



## Cheek/Touch Position

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

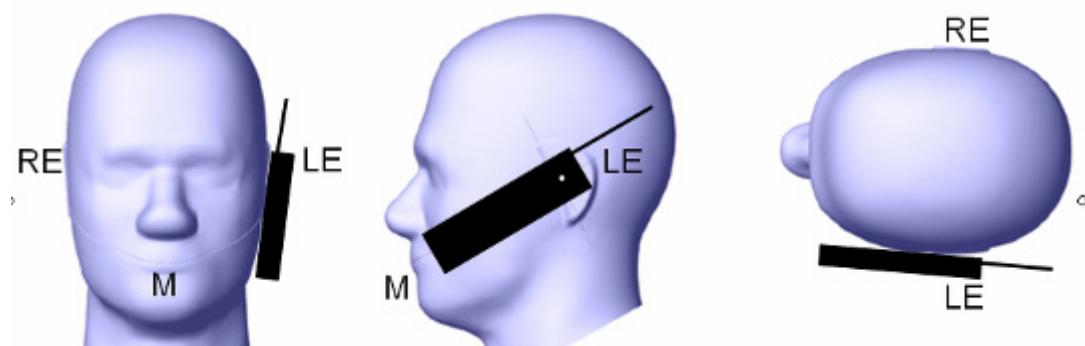
This test position is established:

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

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

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

### Cheek /Touch Position



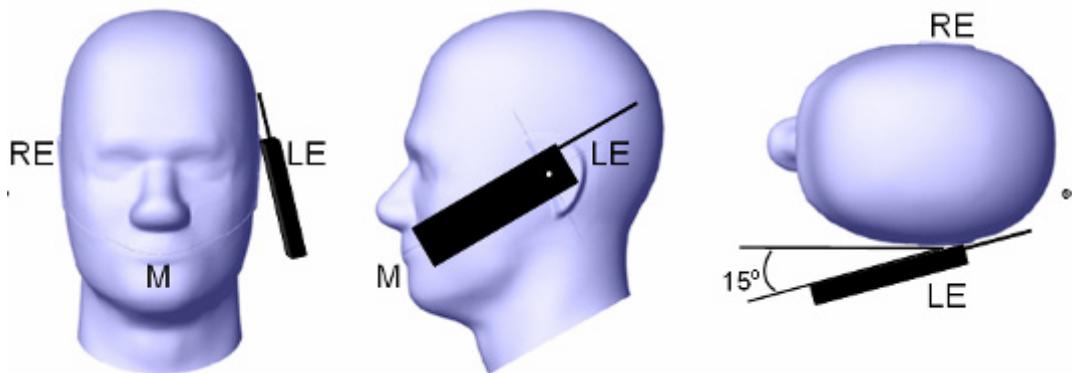
## Ear/Tilt Position

With the handset aligned in the “Cheek/Touch Position”:

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

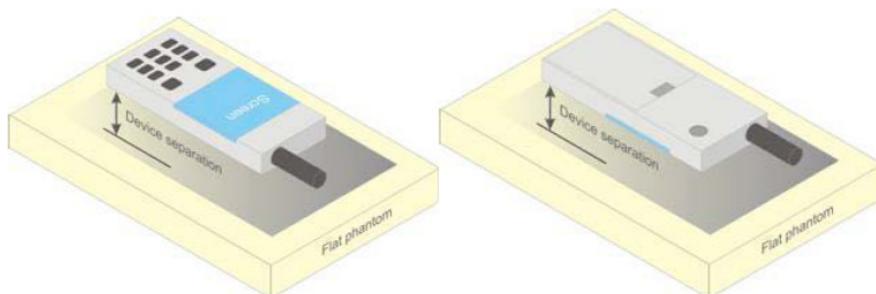
2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both “ear reference points” (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset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

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and right side of the head phantom in the “Cheek/Touch” and “Ear/Tilt” positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

**Ear /Tilt 15° Position****Test positions for body-worn and other configurations**

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.



**Figure 5 – Test positions for body-worn devices**

**Test Distance for SAR Evaluation**

In this case the EUT (Equipment Under Test) is set 10mm away from the phantom, the test distance is 10mm.

## SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.

Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

- 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
- 2) The maximum Measured value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were Measured to calculate the averages.

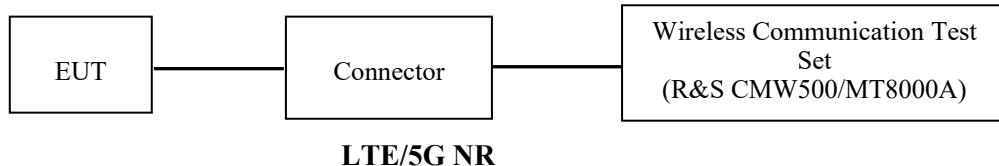
All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

## CONDUCTED OUTPUT POWER MEASUREMENT

### Test Procedure

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



## Description of Test Configuration

### EUT Operation Condition:

<b>EUT Operation Mode:</b>	The system was configured for testing in each operation mode.
<b>Equipment Modifications:</b>	No
<b>EUT Exercise Software:</b>	No

### TDD-LTE

PT 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

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

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

Table 4.2-2: Uplink-downlink configurations.

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

### Calculated Duty Cycle

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

We used configuration 0 for LTE Band 42 SAR test, that is 63.33%(1:1.58)for duty cycle.

## LTE Up-Link Carrier Aggregation

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

For inter-band carrier aggregation with uplink assigned to one E-UTRA band (Table 5.6A-1), the requirements in subclause 6.2.3 apply.

For inter-band carrier aggregation with one component carrier per operating band and the uplink active in two EUTRA bands, the requirements in subclause 6.2.3 apply for each uplink component carrier.

For intra-band contiguous carrier aggregation the allowed Maximum Power Reduction (MPR) for the maximum output power applicable to the DUT in table below. In case the modulation format is different on different component carriers then the MPR is determined by the rules applied to higher order of those modulations.

<b>Modulation</b>	<b>CA bandwidth Class B and C / Smallest Component Carrier Transmission Bandwidth Configuration</b>				<b>MPR (dB)</b>
	<b>25 RB</b>	<b>50 RB</b>	<b>75 RB</b>	<b>100 RB</b>	
QPSK	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 1
QPSK	> 25	> 50	> 75	> 100	≤ 2
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 2
16 QAM	> 25	> 50	> 75	> 100	≤ 3
64 QAM	≤ 8 and allocation wholly contained within a single CC	≤ 12 and allocation wholly contained within a single CC	≤ 16 and allocation wholly contained within a single CC	≤ 18 and allocation wholly contained within a single CC	≤ 2
64 QAM	> 8 or allocation extends across two CC's	> 12 or allocation extends across two CC's	> 16 or allocation extends across two CC's	> 18 or allocation extends across two CC's	≤ 3
256 QAM	≥ 1				≤ 5

For PUCCH and SRS transmissions, the allowed MPR is according to that specified for PUSCH WPDK modulation for the corresponding transmission bandwidth.

For intra-band contiguous carrier aggregation bandwidth class C with non-contiguous resource allocation, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2A-1 is specified as follows

$$\text{MPR} = \text{CEIL} \{ \min(\text{MA}, \text{MIM5}), 0.5 \}$$

Where  $\text{M}_A$  is defined as follows

$$\begin{aligned}
 M_A = & \quad 8.2 & ; 0 \leq A < 0.025 \\
 & \quad 9.2 - 40A & ; 0.025 \leq A < 0.05 \\
 & \quad 8 - 16A & ; 0.05 \leq A < 0.25 \\
 & \quad 4.83 - 3.33A & ; 0.25 \leq A \leq 0.4, \\
 & \quad 3.83 - 0.83A & ; 0.4 \leq A \leq 1,
 \end{aligned}$$

and  $M_{IM5}$  is defined as follows

$$\begin{aligned}
 M_{IM5} = & \quad 4.5 & ; \Delta_{IM5} < 1.5 * BW_{Channel\_CA} \\
 & \quad 6.0 & ; 1.5 * BW_{Channel\_CA} \leq \Delta_{IM5} < BW_{Channel\_CA}/2 + F_{OOB} \\
 M_A & \quad ; \Delta_{IM5} \geq BW_{Channel\_CA}/2 + F_{OOB}
 \end{aligned}$$

Where

$$A = N_{RB\_alloc} / N_{RB\_agg}.$$

$$\Delta_{IM5} = \max(|F_{C\_agg} - (3*F_{agg\_alloc\_low} - 2*F_{agg\_alloc\_high})|, |F_{C\_agg} - (3*F_{agg\_alloc\_high} - 2*F_{agg\_alloc\_low})|)$$

$\text{CEIL}\{M_A, 0.5\}$  means rounding upwards to closest 0.5dB, i.e.  $MPR \in [3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5]$ .

For intra-band carrier aggregation, the MPR is evaluated per slot and given by the maximum value taken over the transmission(s) on all component carriers within the slot; the maximum MPR over the two slots is then applied for the entire subframe.

For intra-band non-contiguous carrier aggregation with one uplink carrier on the PCC, the requirements in the subclause 6.2.3 apply. For intra-band non-contiguous aggregation with two uplink carriers the MPR is defined for those E-UTRA bands where maximum possible  $W_{GAP} \leq 42.2$  MHz as follows

$$MPR = \text{CEIL}\{M_A, 0.5\}$$

Where  $M_N$  is defined as follows

$$\begin{aligned}
 M_N = & \quad -0.125N + 18.25 & ; 2 \leq N \leq 50 \\
 & \quad -0.0333 N + 13.67 & ; 50 < N \leq 200
 \end{aligned}$$

Where  $N = N_{RB\_alloc}$  is the number of allocated resource blocks.

For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5A apply.

## 5G NR

The general information supported by the NR band is as following table:

Band		TDD	FDD
NR mode		SA	Yes
Modulation	DFT-s-OFDM	NSA	Yes
		PI/2 BPSK	Yes
		QPSK	Yes
		16QAM	Yes
		64QAM	Yes
	CP-OFDM	256QAM	Yes
		QPSK	Yes
		16QAM	Yes
		64QAM	Yes
		256QAM	Yes
Duty Cycle		63.33%	100%

For 5G NR test procedure was following step similar FCC KDB 941225 D05:

- a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not  $\frac{1}{2}$  dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is  $\leq 1.45$  W/kg; CP-OFDM testing is not required.
- b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth.
- c. SAR testing start with the largest SCS and 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.
- d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure e. 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  $\leq 0.8$  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.
- e. 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  $\leq 0.8$  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.
- f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not  $\frac{1}{2}$  dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device
- h. For 5G FR1 n77/n78 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

**Maximum Target Output Power**

Mode/Band	Max Target Power(dBm)		
	Low	Middle	High
LTE Band 42	18.0	18.0	18.0
5G NR n5	22.5	22.5	22.5
5G NR n7	18.0	18.0	18.0
5G NR n12	26.0	26.0	26.0
5G NR n38	21.0	21.0	21.0
5G NR n41	22.5	22.5	22.5
5G NR n66	16.7	16.7	16.7
5G NR n77 Lower	17.0	17.0	17.0
5G NR n77 Middle	17.8	17.8	17.8
5G NR n77 Upper	18.5	18.5	18.5
5G NR n78 Lower	16.8	16.8	16.8
5G NR n78 Middle	16.8	16.8	16.8
5G NR n78 Upper	16.5	16.5	16.5

Note: The Maximum Target Power for LTE and 5G NR bands corresponds to their maximum power in QPSK modes with maximum bandwidth. Specifically for 5G NR, this refers to the DFT-s-OFDM QPSK mode.

## Test Results

### LTE Intra-Band Contiguous Carrier Aggregation:

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC Uplink output power for UL CA is the total power measured across the PCC and SCC.

UL CA power measurements were performed for each antennas at with QPSK modulation based on the worst-case standalone SAR.

The UL CA mode power measurements represent the total power across both carriers. Measurements were made for all supported PCC bandwidths using the channel/RB combination resulting in the highest standalone output power at the least MPR (0 dB). SCCs were set to use configurations similar to the PCC to establish conservative or worst case equivalent SAR test conditions (highest maximum output power with MPR of 0 dB and RB allocation setting).

The standalone power measurement is the power for the PCC in the non-CA mode (i.e. single carrier power). In all cases the UL CA power is less than or equal to the standalone power, which is in accordance with the tune-up limits in table below.

According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping LTE bands as follows.

- a) The maximum output power, including tolerance, for the smaller band must be  $\leq$  the larger band to qualify for the SAR test exclusion.
- b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

According to November 2017 TCB workshop, Uplink CA SAR Test Guidance as follows:

- a) When the maximum output power for UL CA is  $\leq$  standalone LTE mode (without CA)
  - 1) PCC is configured according to the highest standalone SAR configuration tested
  - 2) SCC and subsequent ees are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- b) When the Reported SAR for UL CA configuration, described above, is  $> 1.2 \text{ W/kg}$ , UL CA SAR is also required for all required test channels (PCC based)
- c) UL CA SAR is also required for standalone SAR configurations  $> 1.2 \text{ W/kg}$  when they are scaled to the UL CA power level

LTE UL Carrier Aggregation Mode Max Target Power (dBm)		LTE Mode (without CA) Max Target Power (dBm)	
CA_5B	19.0	LTE Band 5	19.4
CA_7C	10.0	LTE Band 7	10.8
CA_38C	15.0	LTE Band 38	15.2
CA_41C	15.0	LTE Band 41	15.2
CA_66C	15.5	LTE Band 66	16.2

*Note: The data of GSM/WCDMA/LTE Band (expected LTE band 42), NFC, WLAN/Bluetooth and SAR simultaneous transmission description, please refer to FCC ID: 2ADYY-KL8H, SAR report of 2403V87404E-20, issued by China Certification ICT Co., Ltd (Dongguan) on 2024-08-29.*

Band	PCC BW (MHz)	SCC BW (MHz)	PCC ARFCN	PCC Freq.	PCC RB	SCC ARFCN	SCC Freq.	SCC RB	Modulation	PCC Power (dBm)	SCC Power (dBm)	Total Power (dBm)
CA_5B	10.0	10.0	20476	831.6	1@49	20575	841.5	1@0	QPSK	15.87	15.62	18.76
CA_7C	20.0	20.0	21001	2525.1	1@99	21199	2544.9	1@0	QPSK	6.62	6.57	9.61
CA_38C	20.0	20.0	37901	2585.1	1@99	38099	2604.9	1@0	QPSK	11.90	11.70	14.81
CA_41C	20.0	20.0	40521	2583.1	1@99	40719	2602.9	1@0	QPSK	11.69	11.70	14.71
CA_66C	20.0	20.0	132323	1745.1	1@99	132521	1764.9	1@0	QPSK	12.28	12.23	15.27

**Note:**

PCC RB allocation setting for UL CA has been adjusted based on the worst-case SAR test.

**LTE Inter-Band Carrier Aggregation:**

According to October 2018 TCB workshop, Uplink CA SAR Test Guidance as follows:

Provide the single uplink SAR values you have obtained for the relevant SAR configurations and frequency bands that employ inter-band uplink carrier aggregation.

- a) If the single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg no additional measurements need to be performed.
- b) If one of the single uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB Publication 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04.
- c) If the algebraic sum of the 1-g SAR values is > 1.45 W/kg additional measurements may have to be made.

Submit a KDB inquiry for additional guidance.

**Maximum Output Power (Tune-up Limit) and SAR test exemption for LTE UL Carrier Aggregation:**

The maximum UL CA transmit power is reduced by 3dB from the standalone values for both carriers therefore SAR will be reduced accordingly.

Mode	Position	Reported SAR(W/kg)		$\Sigma\text{SAR} = \text{SAR}_1 + \text{SAR}_2$
		SAR <sub>1</sub>	SAR <sub>2</sub>	
CA_B2A-B4A	Head	0.30	0.25	0.55
	Body	0.79	0.37	1.16
CA_B2A-B7A	Head	0.30	0.49	0.79
	Body	0.79	0.58	1.37
CA_B4A-B5A	Head	0.25	0.41	0.66
	Body	0.37	0.10	0.47
CA_B4A-B7A	Head	0.25	0.49	0.74
	Body	0.37	0.58	0.95
CA_B4A-B17A	Head	0.25	0.31	0.56
	Body	0.37	0.04	0.41
CA_B7A-B5A	Head	0.49	0.41	0.90
	Body	0.58	0.10	0.68

The single uplink 1g SAR value for each of the above frequency bands is less than 0.8 W/kg, and the algebraic sum of the 1g SAR values is less than 1.45 W/kg. According to the Uplink CA SAR Test Guidance from the October 2018 TCB workshop, LTE Inter-Band Carrier Aggregation does not require testing in this case.

The combined SAR contribution cannot exceed the highest standalone SAR:

$$(\text{SAR}_{\text{LTE1}}/2 + \text{SAR}_{\text{LTE2}}/2 \leq \text{Max} (\text{SAR}_{\text{LTE1}}, \text{SAR}_{\text{LTE2}}))$$

Therefore simultaneous transmission analysis of UL-CA and WLAN/BT transmitters can be done using either of the standalone LTE SAR values alone.

#### LTE Band 42:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	RB1#0	17.79	17.64	17.27
		RB1#49	17.69	<b>17.79</b>	17.33
		RB1#99	17.53	17.46	17.26
		RB50#0	16.63	16.60	16.31
		RB50#24	16.71	16.64	16.32
		RB50#50	16.60	16.60	16.32
		RB100#0	16.60	16.59	16.35
	16-QAM	RB1#0	16.87	16.68	16.49
		RB1#50	16.86	16.67	16.42
		RB1#99	16.79	16.50	16.49
		RB50#0	15.60	15.44	15.28
		RB50#24	15.65	15.46	15.25
		RB50#50	15.67	15.49	15.32
		RB100#0	15.66	15.37	15.35

**5G NR n5:**

Mode	Conducted Average Power(dBm)
n5_20MHz_15kHz_834MHz_DFT-s-OFDM π/2 BPSK_RB100@0	21.65
n5_20MHz_15kHz_834MHz_DFT-s-OFDM π/2 BPSK_RB1@1	22.21
n5_20MHz_15kHz_834MHz_DFT-s-OFDM π/2 BPSK_RB1@104	22.07
n5_20MHz_15kHz_834MHz_DFT-s-OFDM π/2 BPSK_RB50@25	22.27
n5_20MHz_15kHz_834MHz_DFT-s-OFDM QPSK_RB100@0	21.17
n5_20MHz_15kHz_834MHz_DFT-s-OFDM QPSK_RB1@1	<b>22.30</b>
n5_20MHz_15kHz_834MHz_DFT-s-OFDM QPSK_RB1@104	22.20
n5_20MHz_15kHz_834MHz_DFT-s-OFDM QPSK_RB50@25	22.20
n5_20MHz_15kHz_834MHz_DFT-s-OFDM 16 QAM_RB100@0	20.18
n5_20MHz_15kHz_834MHz_DFT-s-OFDM 64 QAM_RB100@0	19.68
n5_20MHz_15kHz_834MHz_DFT-s-OFDM 256 QAM_RB100@0	17.71
n5_20MHz_15kHz_834MHz_CP-OFDM QPSK_RB106@0	19.27
n5_20MHz_15kHz_834MHz_CP-OFDM QPSK_RB1@1	20.64
n5_20MHz_15kHz_834MHz_CP-OFDM QPSK_RB1@104	20.49
n5_20MHz_15kHz_834MHz_CP-OFDM QPSK_RB53@26	20.72
n5_20MHz_15kHz_834MHz_CP-OFDM 16 QAM_RB106@0	19.21
n5_20MHz_15kHz_834MHz_CP-OFDM 64 QAM_RB106@0	18.67
n5_20MHz_15kHz_834MHz_CP-OFDM 256 QAM_RB106@0	15.64
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM π/2 BPSK_RB100@0	21.18
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM π/2 BPSK_RB1@1	22.18
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM π/2 BPSK_RB1@104	22.10
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM π/2 BPSK_RB50@25	22.16
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM QPSK_RB100@0	21.70
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM QPSK_RB1@1	22.13
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM QPSK_RB1@104	22.12
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM QPSK_RB50@25	22.21
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM 16 QAM_RB100@0	20.22
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM 64 QAM_RB100@0	19.64
n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM 256 QAM_RB100@0	17.68
n5_20MHz_15kHz_836.5MHz_CP-OFDM QPSK_RB106@0	19.17

Mode	Conducted Average Power(dBm)
n5_20MHz_15kHz_836.5MHz_CP-OFDM QPSK_RB1@1	20.55
n5_20MHz_15kHz_836.5MHz_CP-OFDM QPSK_RB1@104	20.50
n5_20MHz_15kHz_836.5MHz_CP-OFDM QPSK_RB53@26	20.75
n5_20MHz_15kHz_836.5MHz_CP-OFDM 16 QAM_RB106@0	19.22
n5_20MHz_15kHz_836.5MHz_CP-OFDM 64 QAM_RB106@0	18.71
n5_20MHz_15kHz_836.5MHz_CP-OFDM 256 QAM_RB106@0	15.72
n5_20MHz_15kHz_839MHz_DFT-s-OFDM π/2 BPSK_RB100@0	21.70
n5_20MHz_15kHz_839MHz_DFT-s-OFDM π/2 BPSK_RB1@1	22.20
n5_20MHz_15kHz_839MHz_DFT-s-OFDM π/2 BPSK_RB1@104	22.05
n5_20MHz_15kHz_839MHz_DFT-s-OFDM π/2 BPSK_RB50@25	22.15
n5_20MHz_15kHz_839MHz_DFT-s-OFDM QPSK_RB100@0	21.13
n5_20MHz_15kHz_839MHz_DFT-s-OFDM QPSK_RB1@1	22.24
n5_20MHz_15kHz_839MHz_DFT-s-OFDM QPSK_RB1@104	22.11
n5_20MHz_15kHz_839MHz_DFT-s-OFDM QPSK_RB50@25	22.12
n5_20MHz_15kHz_839MHz_DFT-s-OFDM 16 QAM_RB100@0	20.13
n5_20MHz_15kHz_839MHz_DFT-s-OFDM 64 QAM_RB100@0	19.65
n5_20MHz_15kHz_839MHz_DFT-s-OFDM 256 QAM_RB100@0	17.68
n5_20MHz_15kHz_839MHz_CP-OFDM QPSK_RB106@0	19.24
n5_20MHz_15kHz_839MHz_CP-OFDM QPSK_RB1@1	20.60
n5_20MHz_15kHz_839MHz_CP-OFDM QPSK_RB1@104	20.52
n5_20MHz_15kHz_839MHz_CP-OFDM QPSK_RB53@26	20.65
n5_20MHz_15kHz_839MHz_CP-OFDM 16 QAM_RB106@0	19.20
n5_20MHz_15kHz_839MHz_CP-OFDM 64 QAM_RB106@0	18.73
n5_20MHz_15kHz_839MHz_CP-OFDM 256 QAM_RB106@0	15.73

**5G NR n7:**

Mode	Conducted Average Power(dBm)
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM π/2 BPSK_RB100@0	17.39
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM π/2 BPSK_RB1@1	17.70
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM π/2 BPSK_RB1@104	17.69
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM π/2 BPSK_RB50@25	17.75
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM QPSK_RB100@0	16.88
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM QPSK_RB1@1	17.74
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM QPSK_RB1@104	17.73
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM QPSK_RB50@25	17.84
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM 16 QAM_RB100@0	15.77
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM 64 QAM_RB100@0	15.29
n7_20MHz_15kHz_2510MHz_DFT-s-OFDM 256 QAM_RB100@0	13.32
n7_20MHz_15kHz_2510MHz_CP-OFDM QPSK_RB106@0	14.85
n7_20MHz_15kHz_2510MHz_CP-OFDM QPSK_RB1@1	16.24
n7_20MHz_15kHz_2510MHz_CP-OFDM QPSK_RB1@104	16.13
n7_20MHz_15kHz_2510MHz_CP-OFDM QPSK_RB53@26	16.41
n7_20MHz_15kHz_2510MHz_CP-OFDM 16 QAM_RB106@0	14.80
n7_20MHz_15kHz_2510MHz_CP-OFDM 64 QAM_RB106@0	14.31
n7_20MHz_15kHz_2510MHz_CP-OFDM 256 QAM_RB106@0	11.30
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM π/2 BPSK_RB100@0	17.29
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM π/2 BPSK_RB1@1	17.69
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM π/2 BPSK_RB1@104	17.71
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM π/2 BPSK_RB50@25	17.76
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM QPSK_RB100@0	16.80
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM QPSK_RB1@1	17.65
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM QPSK_RB1@104	17.71
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM QPSK_RB50@25	<b>17.88</b>
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM 16 QAM_RB100@0	15.81
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM 64 QAM_RB100@0	15.32
n7_20MHz_15kHz_2535MHz_DFT-s-OFDM 256 QAM_RB100@0	13.27
n7_20MHz_15kHz_2535MHz_CP-OFDM QPSK_RB106@0	14.85

<b>Mode</b>	<b>Conducted Average Power(dBm)</b>
n7_20MHz_15kHz_2535MHz_CP-OFDM QPSK_RB1@1	16.07
n7_20MHz_15kHz_2535MHz_CP-OFDM QPSK_RB1@104	16.16
n7_20MHz_15kHz_2535MHz_CP-OFDM QPSK_RB53@26	16.32
n7_20MHz_15kHz_2535MHz_CP-OFDM 16 QAM_RB106@0	14.82
n7_20MHz_15kHz_2535MHz_CP-OFDM 64 QAM_RB106@0	14.33
n7_20MHz_15kHz_2535MHz_CP-OFDM 256 QAM_RB106@0	11.37
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM π/2 BPSK_RB100@0	17.39
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM π/2 BPSK_RB1@1	17.70
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM π/2 BPSK_RB1@104	17.77
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM π/2 BPSK_RB50@25	17.80
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM QPSK_RB100@0	16.90
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM QPSK_RB1@1	17.68
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM QPSK_RB1@104	17.79
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM QPSK_RB50@25	17.86
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM 16 QAM_RB100@0	15.79
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM 64 QAM_RB100@0	15.30
n7_20MHz_15kHz_2560MHz_DFT-s-OFDM 256 QAM_RB100@0	13.37
n7_20MHz_15kHz_2560MHz_CP-OFDM QPSK_RB106@0	14.96
n7_20MHz_15kHz_2560MHz_CP-OFDM QPSK_RB1@1	16.15
n7_20MHz_15kHz_2560MHz_CP-OFDM QPSK_RB1@104	16.17
n7_20MHz_15kHz_2560MHz_CP-OFDM QPSK_RB53@26	16.40
n7_20MHz_15kHz_2560MHz_CP-OFDM 16 QAM_RB106@0	14.86
n7_20MHz_15kHz_2560MHz_CP-OFDM 64 QAM_RB106@0	14.33
n7_20MHz_15kHz_2560MHz_CP-OFDM 256 QAM_RB106@0	11.31

**5G NR n12:**

Mode	Conducted Average Power(dBm)
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM π/2 BPSK_RB1@1	25.64
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM π/2 BPSK_RB1@77	25.64
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM π/2 BPSK_RB36@18	25.72
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM π/2 BPSK_RB75@0	25.23
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM QPSK_RB1@1	25.60
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM QPSK_RB1@77	25.58
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM QPSK_RB36@18	25.74
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM QPSK_RB75@0	24.74
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM 16 QAM_RB75@0	23.74
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM 64 QAM_RB75@0	23.23
n12_15MHz_15kHz_706.5MHz_DFT-s-OFDM 256 QAM_RB75@0	21.12
n12_15MHz_15kHz_706.5MHz_CP-OFDM QPSK_RB1@1	24.10
n12_15MHz_15kHz_706.5MHz_CP-OFDM QPSK_RB1@77	23.86
n12_15MHz_15kHz_706.5MHz_CP-OFDM QPSK_RB39@19	24.24
n12_15MHz_15kHz_706.5MHz_CP-OFDM QPSK_RB79@0	22.74
n12_15MHz_15kHz_706.5MHz_CP-OFDM 16 QAM_RB79@0	22.69
n12_15MHz_15kHz_706.5MHz_CP-OFDM 64 QAM_RB79@0	22.27
n12_15MHz_15kHz_706.5MHz_CP-OFDM 256 QAM_RB79@0	19.16
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM π/2 BPSK_RB1@1	25.62
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM π/2 BPSK_RB1@77	25.73
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM π/2 BPSK_RB36@18	25.69
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM π/2 BPSK_RB75@0	25.23
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM QPSK_RB1@1	25.59
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM QPSK_RB1@77	25.73
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM QPSK_RB36@18	<b>25.83</b>
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM QPSK_RB75@0	24.75
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM 16 QAM_RB75@0	23.69
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM 64 QAM_RB75@0	23.25
n12_15MHz_15kHz_707.5MHz_DFT-s-OFDM 256 QAM_RB75@0	21.16
n12_15MHz_15kHz_707.5MHz_CP-OFDM QPSK_RB1@1	24.02

<b>Mode</b>	<b>Conducted Average Power(dBm)</b>
n12_15MHz_15kHz_707.5MHz_CP-OFDM QPSK_RB1@77	24.05
n12_15MHz_15kHz_707.5MHz_CP-OFDM QPSK_RB39@19	24.21
n12_15MHz_15kHz_707.5MHz_CP-OFDM QPSK_RB79@0	22.77
n12_15MHz_15kHz_707.5MHz_CP-OFDM 16 QAM_RB79@0	22.72
n12_15MHz_15kHz_707.5MHz_CP-OFDM 64 QAM_RB79@0	22.25
n12_15MHz_15kHz_707.5MHz_CP-OFDM 256 QAM_RB79@0	19.18
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM π/2 BPSK_RB1@1	25.61
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM π/2 BPSK_RB1@77	25.69
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM π/2 BPSK_RB36@18	25.73
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM π/2 BPSK_RB75@0	25.19
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM QPSK_RB1@1	25.71
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM QPSK_RB1@77	25.62
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM QPSK_RB36@18	25.81
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM QPSK_RB75@0	24.73
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM 16 QAM_RB75@0	23.71
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM 64 QAM_RB75@0	23.22
n12_15MHz_15kHz_708.5MHz_DFT-s-OFDM 256 QAM_RB75@0	21.15
n12_15MHz_15kHz_708.5MHz_CP-OFDM QPSK_RB1@1	23.99
n12_15MHz_15kHz_708.5MHz_CP-OFDM QPSK_RB1@77	24.06
n12_15MHz_15kHz_708.5MHz_CP-OFDM QPSK_RB39@19	24.26
n12_15MHz_15kHz_708.5MHz_CP-OFDM QPSK_RB79@0	22.72
n12_15MHz_15kHz_708.5MHz_CP-OFDM 16 QAM_RB79@0	22.72
n12_15MHz_15kHz_708.5MHz_CP-OFDM 64 QAM_RB79@0	22.21
n12_15MHz_15kHz_708.5MHz_CP-OFDM 256 QAM_RB79@0	19.20

**5G NR n38:**

<b>Mode</b>	<b>Conducted Average Power(dBm)</b>
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM π/2 BPSK_RB100@0	20.15
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM π/2 BPSK_RB1@1	20.49
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM π/2 BPSK_RB1@104	20.70
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM π/2 BPSK_RB50@25	20.54
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM QPSK_RB100@0	19.75
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM QPSK_RB1@1	20.37
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM QPSK_RB1@104	20.60
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM QPSK_RB50@25	20.60
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM 16 QAM_RB100@0	18.60
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM 64 QAM_RB100@0	18.18
n38_40MHz_30kHz_2590MHz_DFT-s-OFDM 256 QAM_RB100@0	16.07
n38_40MHz_30kHz_2590MHz_CP-OFDM QPSK_RB106@0	17.63
n38_40MHz_30kHz_2590MHz_CP-OFDM QPSK_RB1@1	18.81
n38_40MHz_30kHz_2590MHz_CP-OFDM QPSK_RB1@104	19.26
n38_40MHz_30kHz_2590MHz_CP-OFDM QPSK_RB53@26	19.14
n38_40MHz_30kHz_2590MHz_CP-OFDM 16 QAM_RB106@0	17.65
n38_40MHz_30kHz_2590MHz_CP-OFDM 64 QAM_RB106@0	17.17
n38_40MHz_30kHz_2590MHz_CP-OFDM 256 QAM_RB106@0	14.10
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM π/2 BPSK_RB100@0	20.19
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM π/2 BPSK_RB1@1	12.22
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM π/2 BPSK_RB1@104	20.70
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM π/2 BPSK_RB50@25	20.60
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM QPSK_RB100@0	19.73
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM QPSK_RB1@1	20.46
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM QPSK_RB1@104	<b>20.82</b>
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM QPSK_RB50@25	20.57
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM 16 QAM_RB100@0	18.62
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM 64 QAM_RB100@0	18.16
n38_40MHz_30kHz_2595MHz_DFT-s-OFDM 256 QAM_RB100@0	16.11
n38_40MHz_30kHz_2595MHz_CP-OFDM QPSK_RB106@0	17.70

Mode	Conducted Average Power(dBm)
n38_40MHz_30kHz_2595MHz_CP-OFDM QPSK_RB1@1	18.87
n38_40MHz_30kHz_2595MHz_CP-OFDM QPSK_RB1@104	19.37
n38_40MHz_30kHz_2595MHz_CP-OFDM QPSK_RB53@26	19.14
n38_40MHz_30kHz_2595MHz_CP-OFDM 16 QAM_RB106@0	17.60
n38_40MHz_30kHz_2595MHz_CP-OFDM 64 QAM_RB106@0	17.11
n38_40MHz_30kHz_2595MHz_CP-OFDM 256 QAM_RB106@0	14.21
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM π/2 BPSK_RB100@0	20.17
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM π/2 BPSK_RB1@1	20.45
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM π/2 BPSK_RB1@104	20.73
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM π/2 BPSK_RB50@25	20.69
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM QPSK_RB100@0	19.66
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM QPSK_RB1@1	20.43
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM QPSK_RB1@104	20.68
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM QPSK_RB50@25	20.60
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM 16 QAM_RB100@0	18.64
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM 64 QAM_RB100@0	18.18
n38_40MHz_30kHz_2600MHz_DFT-s-OFDM 256 QAM_RB100@0	16.06
n38_40MHz_30kHz_2600MHz_CP-OFDM QPSK_RB106@0	17.68
n38_40MHz_30kHz_2600MHz_CP-OFDM QPSK_RB1@1	19.10
n38_40MHz_30kHz_2600MHz_CP-OFDM QPSK_RB1@104	19.18
n38_40MHz_30kHz_2600MHz_CP-OFDM QPSK_RB53@26	19.18
n38_40MHz_30kHz_2600MHz_CP-OFDM 16 QAM_RB106@0	17.58
n38_40MHz_30kHz_2600MHz_CP-OFDM 64 QAM_RB106@0	17.15
n38_40MHz_30kHz_2600MHz_CP-OFDM 256 QAM_RB106@0	14.17

**5G NR n41:**

Mode	Conducted Average Power(dBm)
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM π/2 BPSK_RB135@67	22.05
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM π/2 BPSK_RB1@1	21.87
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM π/2 BPSK_RB1@271	22.15
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM π/2 BPSK_RB270@0	21.52
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM QPSK_RB135@67	21.93
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM QPSK_RB1@1	21.92
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM QPSK_RB1@271	22.15
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM QPSK_RB270@0	20.95
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM 16 QAM_RB270@0	20.09
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM 64 QAM_RB270@0	19.47
n41_100MHz_30kHz_2546.01MHz_DFT-s-OFDM 256 QAM_RB270@0	17.50
n41_100MHz_30kHz_2546.01MHz_CP-OFDM QPSK_RB137@68	20.55
n41_100MHz_30kHz_2546.01MHz_CP-OFDM QPSK_RB1@1	20.50
n41_100MHz_30kHz_2546.01MHz_CP-OFDM QPSK_RB1@271	20.45
n41_100MHz_30kHz_2546.01MHz_CP-OFDM QPSK_RB273@0	19.03
n41_100MHz_30kHz_2546.01MHz_CP-OFDM 16 QAM_RB273@0	18.95
n41_100MHz_30kHz_2546.01MHz_CP-OFDM 64 QAM_RB273@0	18.54
n41_100MHz_30kHz_2546.01MHz_CP-OFDM 256 QAM_RB273@0	15.55
n41_100MHz_30kHz_2569.5MHz_DFT-s-OFDM QPSK_RB135@67	22.01
n41_100MHz_30kHz_2569.5MHz_DFT-s-OFDM QPSK_RB1@1	21.59
n41_100MHz_30kHz_2569.5MHz_DFT-s-OFDM QPSK_RB1@271	22.16
n41_100MHz_30kHz_2569.5MHz_DFT-s-OFDM QPSK_RB270@0	20.98
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM π/2 BPSK_RB135@67	22.13
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM π/2 BPSK_RB1@1	21.58
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM π/2 BPSK_RB1@271	22.08
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM π/2 BPSK_RB270@0	21.46
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM QPSK_RB135@67	22.02
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM QPSK_RB1@1	21.64
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM QPSK_RB1@271	<b>22.17</b>
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM QPSK_RB270@0	20.97
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM 16 QAM_RB270@0	19.88
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM 64 QAM_RB270@0	19.43
n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM 256 QAM_RB270@0	17.44
n41_100MHz_30kHz_2592.99MHz_CP-OFDM QPSK_RB137@68	20.57

<b>Mode</b>	<b>Conducted Average Power(dBm)</b>
n41_100MHz_30kHz_2592.99MHz_CP-OFDM QPSK_RB1@1	19.94
n41_100MHz_30kHz_2592.99MHz_CP-OFDM QPSK_RB1@271	20.52
n41_100MHz_30kHz_2592.99MHz_CP-OFDM QPSK_RB273@0	18.93
n41_100MHz_30kHz_2592.99MHz_CP-OFDM 16 QAM_RB273@0	18.92
n41_100MHz_30kHz_2592.99MHz_CP-OFDM 64 QAM_RB273@0	18.40
n41_100MHz_30kHz_2592.99MHz_CP-OFDM 256 QAM_RB273@0	15.41
n41_100MHz_30kHz_2616.5MHz_DFT-s-OFDM QPSK_RB135@67	21.78
n41_100MHz_30kHz_2616.5MHz_DFT-s-OFDM QPSK_RB1@1	21.75
n41_100MHz_30kHz_2616.5MHz_DFT-s-OFDM QPSK_RB1@271	21.72
n41_100MHz_30kHz_2616.5MHz_DFT-s-OFDM QPSK_RB270@0	20.85
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM π/2 BPSK_RB135@67	21.87
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM π/2 BPSK_RB1@1	21.65
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM π/2 BPSK_RB1@271	21.80
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM π/2 BPSK_RB270@0	21.38
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM QPSK_RB135@67	21.81
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM QPSK_RB1@1	21.77
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM QPSK_RB1@271	21.80
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM QPSK_RB270@0	20.83
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM 16 QAM_RB270@0	19.89
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM 64 QAM_RB270@0	19.46
n41_100MHz_30kHz_2640MHz_DFT-s-OFDM 256 QAM_RB270@0	17.35
n41_100MHz_30kHz_2640MHz_CP-OFDM QPSK_RB137@68	20.31
n41_100MHz_30kHz_2640MHz_CP-OFDM QPSK_RB1@1	20.08
n41_100MHz_30kHz_2640MHz_CP-OFDM QPSK_RB1@271	20.33
n41_100MHz_30kHz_2640MHz_CP-OFDM QPSK_RB273@0	18.84
n41_100MHz_30kHz_2640MHz_CP-OFDM 16 QAM_RB273@0	18.76
n41_100MHz_30kHz_2640MHz_CP-OFDM 64 QAM_RB273@0	18.31
n41_100MHz_30kHz_2640MHz_CP-OFDM 256 QAM_RB273@0	15.29

**5G NR n66:**

Mode	Conducted Average Power(dBm)
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM π/2 BPSK_RB108@54	16.46
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM π/2 BPSK_RB1@1	16.32
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM π/2 BPSK_RB1@214	16.52
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM π/2 BPSK_RB216@0	15.92
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM QPSK_RB108@54	16.46
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM QPSK_RB1@1	16.35
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM QPSK_RB1@214	<b>16.53</b>
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM QPSK_RB216@0	15.52
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM 16 QAM_RB216@0	14.40
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM 64 QAM_RB216@0	13.88
n66_40MHz_15kHz_1730MHz_DFT-s-OFDM 256 QAM_RB216@0	11.92
n66_40MHz_15kHz_1730MHz_CP-OFDM QPSK_RB108@54	14.97
n66_40MHz_15kHz_1730MHz_CP-OFDM QPSK_RB1@1	14.80
n66_40MHz_15kHz_1730MHz_CP-OFDM QPSK_RB1@214	14.96
n66_40MHz_15kHz_1730MHz_CP-OFDM QPSK_RB216@0	13.41
n66_40MHz_15kHz_1730MHz_CP-OFDM 16 QAM_RB216@0	13.42
n66_40MHz_15kHz_1730MHz_CP-OFDM 64 QAM_RB216@0	12.94
n66_40MHz_15kHz_1730MHz_CP-OFDM 256 QAM_RB216@0	9.92
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM π/2 BPSK_RB108@54	16.44
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM π/2 BPSK_RB1@1	16.24
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM π/2 BPSK_RB1@214	16.50
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM π/2 BPSK_RB216@0	15.82
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB108@54	16.44
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB1@1	16.22
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB1@214	16.42
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB216@0	15.42
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM 16 QAM_RB216@0	14.41
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM 64 QAM_RB216@0	13.87
n66_40MHz_15kHz_1745MHz_DFT-s-OFDM 256 QAM_RB216@0	11.86
n66_40MHz_15kHz_1745MHz_CP-OFDM QPSK_RB108@54	14.95

<b>Mode</b>	<b>Conducted Average Power(dBm)</b>
n66_40MHz_15kHz_1745MHz_CP-OFDM QPSK_RB1@1	14.74
n66_40MHz_15kHz_1745MHz_CP-OFDM QPSK_RB1@214	14.89
n66_40MHz_15kHz_1745MHz_CP-OFDM QPSK_RB216@0	13.37
n66_40MHz_15kHz_1745MHz_CP-OFDM 16 QAM_RB216@0	13.38
n66_40MHz_15kHz_1745MHz_CP-OFDM 64 QAM_RB216@0	12.87
n66_40MHz_15kHz_1745MHz_CP-OFDM 256 QAM_RB216@0	9.88
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM π/2 BPSK_RB108@54	16.39
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM π/2 BPSK_RB1@1	16.27
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM π/2 BPSK_RB1@214	16.32
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM π/2 BPSK_RB216@0	15.89
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM QPSK_RB108@54	16.40
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM QPSK_RB1@1	16.37
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM QPSK_RB1@214	16.33
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM QPSK_RB216@0	15.46
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM 16 QAM_RB216@0	14.46
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM 64 QAM_RB216@0	13.97
n66_40MHz_15kHz_1760MHz_DFT-s-OFDM 256 QAM_RB216@0	11.93
n66_40MHz_15kHz_1760MHz_CP-OFDM QPSK_RB108@54	14.90
n66_40MHz_15kHz_1760MHz_CP-OFDM QPSK_RB1@1	14.72
n66_40MHz_15kHz_1760MHz_CP-OFDM QPSK_RB1@214	14.77
n66_40MHz_15kHz_1760MHz_CP-OFDM QPSK_RB216@0	13.42
n66_40MHz_15kHz_1760MHz_CP-OFDM 16 QAM_RB216@0	13.51
n66_40MHz_15kHz_1760MHz_CP-OFDM 64 QAM_RB216@0	13.02
n66_40MHz_15kHz_1760MHz_CP-OFDM 256 QAM_RB216@0	9.91

**5G NR n77 Lower:**

Mode	Conducted Average Power(dBm)
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM π/2 BPSK_RB135@67	16.62
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM π/2 BPSK_RB1@1	16.34
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM π/2 BPSK_RB1@271	16.49
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM π/2 BPSK_RB270@0	16.05
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM QPSK_RB135@67	<b>16.75</b>
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM QPSK_RB1@1	16.43
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM QPSK_RB1@271	16.62
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM QPSK_RB270@0	15.56
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM 16 QAM_RB270@0	14.55
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM 64 QAM_RB270@0	14.08
n77_1_100MHz_30kHz_3500MHz_DFT-s-OFDM 256 QAM_RB270@0	12.05
n77_1_100MHz_30kHz_3500MHz_CP-OFDM QPSK_RB137@68	15.16
n77_1_100MHz_30kHz_3500MHz_CP-OFDM QPSK_RB1@1	14.65
n77_1_100MHz_30kHz_3500MHz_CP-OFDM QPSK_RB1@271	14.92
n77_1_100MHz_30kHz_3500MHz_CP-OFDM QPSK_RB273@0	13.68
n77_1_100MHz_30kHz_3500MHz_CP-OFDM 16 QAM_RB273@0	13.54
n77_1_100MHz_30kHz_3500MHz_CP-OFDM 64 QAM_RB273@0	13.04
n77_1_100MHz_30kHz_3500MHz_CP-OFDM 256 QAM_RB273@0	10.12

**5G NR n77 Middle:**

Mode	Conducted Average Power(dBm)
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM π/2 BPSK_RB135@67	17.57
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM π/2 BPSK_RB1@1	17.51
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM π/2 BPSK_RB1@271	17.35
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM π/2 BPSK_RB270@0	17.07
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM QPSK_RB135@67	17.54
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM QPSK_RB1@1	17.60
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM QPSK_RB1@271	17.38
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM QPSK_RB270@0	16.52
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM 16 QAM_RB270@0	15.56
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM 64 QAM_RB270@0	15.01
n77_2_100MHz_30kHz_3600MHz_DFT-s-OFDM 256 QAM_RB270@0	13.09
n77_2_100MHz_30kHz_3600MHz_CP-OFDM QPSK_RB137@68	15.99
n77_2_100MHz_30kHz_3600MHz_CP-OFDM QPSK_RB1@1	16.06
n77_2_100MHz_30kHz_3600MHz_CP-OFDM QPSK_RB1@271	15.77
n77_2_100MHz_30kHz_3600MHz_CP-OFDM QPSK_RB273@0	14.58
n77_2_100MHz_30kHz_3600MHz_CP-OFDM 16 QAM_RB273@0	14.57
n77_2_100MHz_30kHz_3600MHz_CP-OFDM 64 QAM_RB273@0	14.05
n77_2_100MHz_30kHz_3600MHz_CP-OFDM 256 QAM_RB273@0	10.87
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM π/2 BPSK_RB135@67	17.49
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM π/2 BPSK_RB1@1	17.53
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM π/2 BPSK_RB1@271	17.33
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM π/2 BPSK_RB270@0	17.05
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB135@67	<b>17.61</b>
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB1@1	17.52
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB1@271	17.40
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB270@0	16.49
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM 16 QAM_RB270@0	15.50
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM 64 QAM_RB270@0	14.99
n77_2_100MHz_30kHz_3625MHz_DFT-s-OFDM 256 QAM_RB270@0	13.12
n77_2_100MHz_30kHz_3625MHz_CP-OFDM QPSK_RB137@68	15.99

<b>Mode</b>	<b>Conducted Average Power(dBm)</b>
n77_2_100MHz_30kHz_3625MHz_CP-OFDM QPSK_RB1@1	15.94
n77_2_100MHz_30kHz_3625MHz_CP-OFDM QPSK_RB1@271	15.71
n77_2_100MHz_30kHz_3625MHz_CP-OFDM QPSK_RB273@0	14.54
n77_2_100MHz_30kHz_3625MHz_CP-OFDM 16 QAM_RB273@0	14.50
n77_2_100MHz_30kHz_3625MHz_CP-OFDM 64 QAM_RB273@0	14.14
n77_2_100MHz_30kHz_3625MHz_CP-OFDM 256 QAM_RB273@0	10.86
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM π/2 BPSK_RB135@67	17.57
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM π/2 BPSK_RB1@1	17.58
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM π/2 BPSK_RB1@271	17.34
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM π/2 BPSK_RB270@0	17.07
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM QPSK_RB135@67	17.56
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM QPSK_RB1@1	17.57
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM QPSK_RB1@271	17.35
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM QPSK_RB270@0	16.58
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM 16 QAM_RB270@0	15.58
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM 64 QAM_RB270@0	15.08
n77_2_100MHz_30kHz_3650MHz_DFT-s-OFDM 256 QAM_RB270@0	13.09
n77_2_100MHz_30kHz_3650MHz_CP-OFDM QPSK_RB137@68	16.14
n77_2_100MHz_30kHz_3650MHz_CP-OFDM QPSK_RB1@1	16.04
n77_2_100MHz_30kHz_3650MHz_CP-OFDM QPSK_RB1@271	15.88
n77_2_100MHz_30kHz_3650MHz_CP-OFDM QPSK_RB273@0	14.58
n77_2_100MHz_30kHz_3650MHz_CP-OFDM 16 QAM_RB273@0	14.60
n77_2_100MHz_30kHz_3650MHz_CP-OFDM 64 QAM_RB273@0	14.17
n77_2_100MHz_30kHz_3650MHz_CP-OFDM 256 QAM_RB273@0	10.88

**5G NR n77 Upper:**

Mode	Conducted Average Power(dBm)
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM π/2 BPSK_RB135@67	17.78
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM π/2 BPSK_RB1@1	17.39
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM π/2 BPSK_RB1@271	17.78
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM π/2 BPSK_RB270@0	17.18
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM QPSK_RB135@67	18.09
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM QPSK_RB1@1	17.85
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM QPSK_RB1@271	18.04
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM QPSK_RB270@0	17.01
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM 16 QAM_RB270@0	15.66
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM 64 QAM_RB270@0	15.26
n77_3_100MHz_30kHz_3750MHz_DFT-s-OFDM 256 QAM_RB270@0	13.19
n77_3_100MHz_30kHz_3750MHz_CP-OFDM QPSK_RB137@68	16.22
n77_3_100MHz_30kHz_3750MHz_CP-OFDM QPSK_RB1@1	15.79
n77_3_100MHz_30kHz_3750MHz_CP-OFDM QPSK_RB1@271	16.14
n77_3_100MHz_30kHz_3750MHz_CP-OFDM QPSK_RB273@0	14.68
n77_3_100MHz_30kHz_3750MHz_CP-OFDM 16 QAM_RB273@0	14.72
n77_3_100MHz_30kHz_3750MHz_CP-OFDM 64 QAM_RB273@0	14.26
n77_3_100MHz_30kHz_3750MHz_CP-OFDM 256 QAM_RB273@0	11.16
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM π/2 BPSK_RB135@67	17.70
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM π/2 BPSK_RB1@1	17.70
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM π/2 BPSK_RB1@271	17.80
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM π/2 BPSK_RB270@0	17.28
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM QPSK_RB135@67	18.18
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM QPSK_RB1@1	18.06
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM QPSK_RB1@271	<b>18.26</b>
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM QPSK_RB270@0	17.16
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM 16 QAM_RB270@0	15.72
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM 64 QAM_RB270@0	15.23
n77_3_100MHz_30kHz_3840MHz_DFT-s-OFDM 256 QAM_RB270@0	13.24
n77_3_100MHz_30kHz_3840MHz_CP-OFDM QPSK_RB137@68	16.28

<b>Mode</b>	<b>Conducted Average Power(dBm)</b>
n77_3_100MHz_30kHz_3840MHz_CP-OFDM QPSK_RB1@1	16.20
n77_3_100MHz_30kHz_3840MHz_CP-OFDM QPSK_RB1@271	16.20
n77_3_100MHz_30kHz_3840MHz_CP-OFDM QPSK_RB273@0	14.87
n77_3_100MHz_30kHz_3840MHz_CP-OFDM 16 QAM_RB273@0	14.68
n77_3_100MHz_30kHz_3840MHz_CP-OFDM 64 QAM_RB273@0	14.25
n77_3_100MHz_30kHz_3840MHz_CP-OFDM 256 QAM_RB273@0	11.20
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM π/2 BPSK_RB135@67	17.99
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM π/2 BPSK_RB1@1	17.54
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM π/2 BPSK_RB1@271	18.22
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM π/2 BPSK_RB270@0	17.43
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM QPSK_RB135@67	17.97
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM QPSK_RB1@1	17.67
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM QPSK_RB1@271	18.13
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM QPSK_RB270@0	16.99
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM 16 QAM_RB270@0	15.99
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM 64 QAM_RB270@0	15.43
n77_3_100MHz_30kHz_3930MHz_DFT-s-OFDM 256 QAM_RB270@0	13.55
n77_3_100MHz_30kHz_3930MHz_CP-OFDM QPSK_RB137@68	16.44
n77_3_100MHz_30kHz_3930MHz_CP-OFDM QPSK_RB1@1	15.96
n77_3_100MHz_30kHz_3930MHz_CP-OFDM QPSK_RB1@271	16.73
n77_3_100MHz_30kHz_3930MHz_CP-OFDM QPSK_RB273@0	14.91
n77_3_100MHz_30kHz_3930MHz_CP-OFDM 16 QAM_RB273@0	14.93
n77_3_100MHz_30kHz_3930MHz_CP-OFDM 64 QAM_RB273@0	14.55
n77_3_100MHz_30kHz_3930MHz_CP-OFDM 256 QAM_RB273@0	11.43

**5G NR n78 Lower:**

Mode	Conducted Average Power(dBm)
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM π/2 BPSK_RB135@67	16.17
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM π/2 BPSK_RB1@1	16.37
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM π/2 BPSK_RB1@271	16.28
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM π/2 BPSK_RB270@0	15.73
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM QPSK_RB135@67	16.14
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM QPSK_RB1@1	16.30
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM QPSK_RB1@271	<b>16.38</b>
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM QPSK_RB270@0	15.20
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM 16 QAM_RB270@0	14.28
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM 64 QAM_RB270@0	13.75
n78_1_100MHz_30kHz_3500MHz_DFT-s-OFDM 256 QAM_RB270@0	11.82
n78_1_100MHz_30kHz_3500MHz_CP-OFDM QPSK_RB137@68	14.65
n78_1_100MHz_30kHz_3500MHz_CP-OFDM QPSK_RB1@1	14.83
n78_1_100MHz_30kHz_3500MHz_CP-OFDM QPSK_RB1@271	14.69
n78_1_100MHz_30kHz_3500MHz_CP-OFDM QPSK_RB273@0	13.16
n78_1_100MHz_30kHz_3500MHz_CP-OFDM 16 QAM_RB273@0	13.25
n78_1_100MHz_30kHz_3500MHz_CP-OFDM 64 QAM_RB273@0	12.70
n78_1_100MHz_30kHz_3500MHz_CP-OFDM 256 QAM_RB273@0	9.85

**5G NR n78 Middle:**

Mode	Conducted Average Power(dBm)
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM π/2 BPSK_RB135@67	15.51
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM π/2 BPSK_RB1@1	16.41
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM π/2 BPSK_RB1@271	14.59
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM π/2 BPSK_RB270@0	15.11
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM QPSK_RB135@67	15.51
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM QPSK_RB1@1	<b>16.50</b>
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM QPSK_RB1@271	14.98
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM QPSK_RB270@0	14.92
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM 16 QAM_RB270@0	13.58
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM 64 QAM_RB270@0	13.05
n78_2_100MHz_30kHz_3600MHz_DFT-s-OFDM 256 QAM_RB270@0	11.01
n78_2_100MHz_30kHz_3600MHz_CP-OFDM QPSK_RB137@68	13.95
n78_2_100MHz_30kHz_3600MHz_CP-OFDM QPSK_RB1@1	14.80
n78_2_100MHz_30kHz_3600MHz_CP-OFDM QPSK_RB1@271	12.91
n78_2_100MHz_30kHz_3600MHz_CP-OFDM QPSK_RB273@0	12.51
n78_2_100MHz_30kHz_3600MHz_CP-OFDM 16 QAM_RB273@0	12.57
n78_2_100MHz_30kHz_3600MHz_CP-OFDM 64 QAM_RB273@0	12.05
n78_2_100MHz_30kHz_3600MHz_CP-OFDM 256 QAM_RB273@0	9.00
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM π/2 BPSK_RB135@67	14.98
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM π/2 BPSK_RB1@1	15.98
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM π/2 BPSK_RB1@271	14.45
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM π/2 BPSK_RB270@0	14.58
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB135@67	15.00
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB1@1	15.95
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB1@271	14.94
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM QPSK_RB270@0	14.98
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM 16 QAM_RB270@0	13.08
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM 64 QAM_RB270@0	12.59
n78_2_100MHz_30kHz_3625MHz_DFT-s-OFDM 256 QAM_RB270@0	10.51
n78_2_100MHz_30kHz_3625MHz_CP-OFDM QPSK_RB137@68	13.49

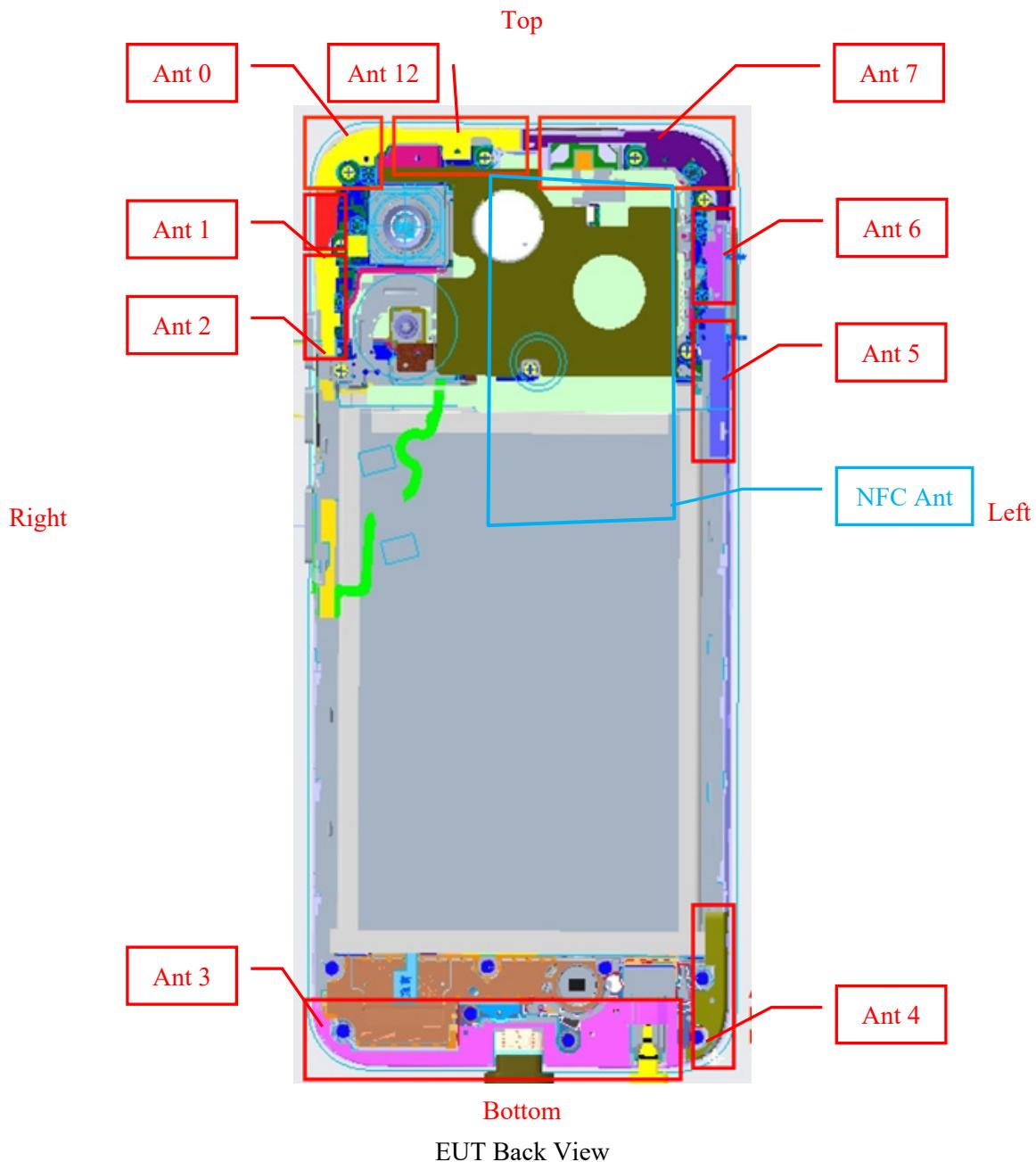
<b>Mode</b>	<b>Conducted Average Power(dBm)</b>
n78_2_100MHz_30kHz_3625MHz_CP-OFDM QPSK_RB1@1	14.29
n78_2_100MHz_30kHz_3625MHz_CP-OFDM QPSK_RB1@271	12.78
n78_2_100MHz_30kHz_3625MHz_CP-OFDM QPSK_RB273@0	12.03
n78_2_100MHz_30kHz_3625MHz_CP-OFDM 16 QAM_RB273@0	12.03
n78_2_100MHz_30kHz_3625MHz_CP-OFDM 64 QAM_RB273@0	11.55
n78_2_100MHz_30kHz_3625MHz_CP-OFDM 256 QAM_RB273@0	8.45
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM π/2 BPSK_RB135@67	14.82
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM π/2 BPSK_RB1@1	15.44
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM π/2 BPSK_RB1@271	13.96
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM π/2 BPSK_RB270@0	14.22
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM QPSK_RB135@67	14.89
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM QPSK_RB1@1	15.40
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM QPSK_RB1@271	14.90
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM QPSK_RB270@0	14.81
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM 16 QAM_RB270@0	12.79
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM 64 QAM_RB270@0	12.28
n78_2_100MHz_30kHz_3650MHz_DFT-s-OFDM 256 QAM_RB270@0	10.29
n78_2_100MHz_30kHz_3650MHz_CP-OFDM QPSK_RB137@68	13.31
n78_2_100MHz_30kHz_3650MHz_CP-OFDM QPSK_RB1@1	13.78
n78_2_100MHz_30kHz_3650MHz_CP-OFDM QPSK_RB1@271	12.41
n78_2_100MHz_30kHz_3650MHz_CP-OFDM QPSK_RB273@0	11.75
n78_2_100MHz_30kHz_3650MHz_CP-OFDM 16 QAM_RB273@0	11.73
n78_2_100MHz_30kHz_3650MHz_CP-OFDM 64 QAM_RB273@0	11.28
n78_2_100MHz_30kHz_3650MHz_CP-OFDM 256 QAM_RB273@0	8.20

**5G NR n78 Upper:**

Mode	Conducted Average Power(dBm)
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM π/2 BPSK_RB135@67	14.28
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM π/2 BPSK_RB1@1	15.77
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM π/2 BPSK_RB1@271	16.18
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM π/2 BPSK_RB270@0	14.25
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM QPSK_RB135@67	14.63
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM QPSK_RB1@1	15.81
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM QPSK_RB1@271	<b>16.19</b>
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM QPSK_RB270@0	14.55
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM 16 QAM_RB270@0	12.75
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM 64 QAM_RB270@0	12.35
n78_3_100MHz_30kHz_3750MHz_DFT-s-OFDM 256 QAM_RB270@0	10.33
n78_3_100MHz_30kHz_3750MHz_CP-OFDM QPSK_RB137@68	12.80
n78_3_100MHz_30kHz_3750MHz_CP-OFDM QPSK_RB1@1	14.32
n78_3_100MHz_30kHz_3750MHz_CP-OFDM QPSK_RB1@271	14.65
n78_3_100MHz_30kHz_3750MHz_CP-OFDM QPSK_RB273@0	11.85
n78_3_100MHz_30kHz_3750MHz_CP-OFDM 16 QAM_RB273@0	11.75
n78_3_100MHz_30kHz_3750MHz_CP-OFDM 64 QAM_RB273@0	11.36
n78_3_100MHz_30kHz_3750MHz_CP-OFDM 256 QAM_RB273@0	9.37

Note: The data of GSM/WCDMA/LTE Band (expected LTE band 42), NFC, WLAN/Bluetooth and SAR simultaneous transmission description, please refer to FCC ID: 2ADYY-KL8H, SAR report of 2403V87404E-20, issued by China Certification ICT Co., Ltd (Dongguan) on 2024-08-29.

## STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

**Antennas Location:**

Antenna	Description
Ant 0	LTE B42, 5G NR n77/78
Ant 2	WIFI 2.4G(chain1); Bluetooth (chain 1) LTE B42, 5G NR n77/78
Ant 3	GSM 850/1900, WCDMA B2/4/5 LTE B2/4/5/7/12/13/17/38/41/66, 5G NR n5/7/12/38/41/66
Ant 4	LTE B42, 5G NR n77/78
Ant 5	WCDMA B2, LTE B2/4/7/38/41/66, 5G NR n7/38/41/66
Ant 6	LTE B42, 5G NR n77/78
Ant 7	GSM 850/1900, WCDMA B4/5 LTE B4/5/7/12/13/17/38/41/66, 5G NR n5/7/12/38/41/66
Ant 12	WIFI 2.4G & 5G(chain0), Bluetooth (chain 0)

Note: The above statistics only include antennas with transmitting

#### Antenna Distance To Edge (TRX)

Antenna Distance To Edge(mm)						
Antenna	Back	Front	Left	Right	Top	Bottom
Ant 0	< 5	< 5	61	< 5	< 5	155
Ant 2	< 5	< 5	70	< 5	22	135
Ant 3	< 5	< 5	8	< 5	152	< 5
Ant 4	< 5	< 5	< 5	70	144	< 5
Ant 5	< 5	< 5	< 5	70	31	104
Ant 6	< 5	< 5	< 5	72	11	134
Ant 7	< 5	< 5	< 5	38	< 5	158
Ant 12	<5	<5	39	16	<5	160

**SAR test exclusion for the EUT edge considerations Result****Expand Use Mode:**

Mode	Back	Front	Left	Right	Top	Bottom
Ant 0	Required	Required	Exclusion	Required	Required	Exclusion
Ant 2	Required	Required	Exclusion	Required	Required	Exclusion
Ant 3	Required	Required	Required	Required	Exclusion	Required
Ant 4	Required	Required	Required	Exclusion	Exclusion	Required
Ant 5	Required	Required	Required	Exclusion	Exclusion	Exclusion
Ant 6	Required	Required	Required	Exclusion	Required	Exclusion
Ant 7	Required	Required	Required	Exclusion	Required	Exclusion
Ant 12	Required	Required	Exclusion	Required	Required	Exclusion

**Note:**

**Required** : The distance to Edge is less than 25mm, testing is required.

**Exclusion**: The distance to Edge is more than 25 mm, testing is not required.

**Extremity Exposure Considerations**

Per KDB 648474 D04 D04v01r03, this device is considered a “Phablet” since the diagonal dimension is >160mm and < 200mm, when hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance is 1g SAR > 1.2W/kg)

Extremity Exposure Condition		
Worst Mode	Hotspot SAR value	Extremity Condition Test
LTE Band 2	0.79 W/kg@1g	Exclusion

*Note: The data of GSM/WCDMA/LTE Band (expected LTE band 42), NFC, WLAN/Bluetooth and SAR simultaneous transmission description, please refer to FCC ID: 2ADYY-KL8H, SAR report of 2403V87404E-20, issued by China Certification ICT Co., Ltd (Dongguan) on 2024-08-29.*

## SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetry evaluation.

### Test Results:

#### Environmental Conditions:

<b>Temperature:</b>	21.9 ~ 22.8°C	22.3 ~ 23.4°C	22.1 ~ 23.2°C	21.5 ~ 22.7°C	22.1 ~ 23.9°C	21.9 ~ 23.1°C
<b>Relative Humidity:</b>	46 ~ 63%	55 ~ 64%	53 ~ 59%	51 ~ 58%	51 ~ 67%	51 ~ 61%
<b>ATM Pressure:</b>	101.3 kPa					
<b>Test Date:</b>	2024/08/09	2024/08/10	2024/08/11	2024/08/12	2024/08/13	2024/08/15

<b>Temperature:</b>	21.5 ~ 22.8°C	21.6 ~ 23.4°C	21.7 ~ 22.9°C	21.5 ~ 22.7°C	21.5 ~ 22.8°C	21.5 ~ 23.3°C
<b>Relative Humidity:</b>	52 ~ 62%	51 ~ 64%	51 ~ 66%	51 ~ 65%	49 ~ 66%	50 ~ 62%
<b>ATM Pressure:</b>	101.3 kPa					
<b>Test Date:</b>	2024/08/16	2024/08/17	2024/08/18	2024/08/19	2024/08/20	2024/08/21

<b>Temperature:</b>	22 ~ 22.8°C	21.5 ~ 22.9°C	21.9 ~ 23.7°C	21.6 ~ 22.5°C
<b>Relative Humidity:</b>	45 ~ 59%	51 ~ 65%	50 ~ 61%	52 ~ 59%
<b>ATM Pressure:</b>	101.3 kPa	101.3 kPa	101.3 kPa	101.3 kPa
<b>Test Date:</b>	2024/08/22	2024/08/23	2024/08/24	2024/08/25

\* Testing was performed by Bob Lu, Calvin Li and Sid Luo.

**LTE Band 42 (Ant 0):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.377	0.40	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.371	<b>0.51</b>	1#
Head Left Tilt	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.327	0.35	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.319	0.44	/
Head Right Cheek	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.153	0.17	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.142	0.20	/
Head Right Tilt	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.116	0.13	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.079	0.11	/
Body Front (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.063	0.07	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.048	0.07	/
Body Back (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.102	0.11	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.102	<b>0.14</b>	2#
Body Right (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.089	0.10	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.088	0.13	/
Body Top (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.051	0.06	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.032	0.05	/

*The data above was performed on 2024/08/09.*

**LTE Band 42 (Ant 2):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.390	0.41	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.379	<b>0.52</b>	<b>3#</b>
Head Left Tilt	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.094	0.10	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.061	0.09	/
Head Right Cheek	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.111	0.12	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.111	0.16	/
Head Right Tilt	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.049	0.06	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.046	0.07	/
Body Front (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.076	0.08	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.058	0.08	/
Body Back (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.412	0.44	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.364	<b>0.50</b>	<b>4#</b>
Body Right (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.261	0.28	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.260	0.36	/
Body Top (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.038	0.04	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.036	0.05	/

*The data above was performed on 2024/08/09.*

**LTE Band 42 (Ant 4):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.029	<b>0.04</b>	<b>5#</b>
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.025	0.04	/
Head Left Tilt	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.027	0.03	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.022	0.04	/
Head Right Cheek	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.024	0.03	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.024	0.04	/
Head Right Tilt	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.025	0.03	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.022	0.03	/
Body Front (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.044	0.05	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.037	<b>0.06</b>	<b>6#</b>
Body Back (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.031	0.04	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.030	0.05	/
Body Left (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.030	0.04	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.027	0.04	/
Body Bottom (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.032	0.04	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.029	0.04	/

*The data above was performed on 2024/08/10.*

**LTE Band 42 (Ant 6):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.038	0.05	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.023	0.04	/
Head Left Tilt	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.042	0.05	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.018	0.03	/
Head Right Cheek	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.084	<b>0.09</b>	7#
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.062	0.09	/
Head Right Tilt	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.074	0.08	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.060	0.09	/
Body Front (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.039	0.05	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.034	0.05	/
Body Back (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.096	<b>0.11</b>	8#
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.062	0.09	/
Body Left (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.044	0.05	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.040	0.06	/
Body Top (10 mm)	3460	20	1RB	/	/	/	/	/	/
	3500	20	1RB	17.79	18.0	1.050	0.041	0.05	/
	3540	20	1RB	/	/	/	/	/	/
	3500	20	50%RB	16.64	18.0	1.368	0.029	0.04	/

*The data above was performed on 2024/08/10.*

**UL CA\_5B:**

Antenna	EUT Position	Mode	PCC UL			SCC UL			Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
			Channel	Freq. (MHz)	RB	Channel	Freq. (MHz)	RB			Scaled Factor	Meas. SAR	Scaled SAR	Plot
Ant 7	Head Right Tilt	QPSK	20476	831.6	1@49	20575	841.5	1@0	18.76	19.0	1.057	0.195	0.21	/
	Body Back (10 mm)	QPSK	20476	831.6	1@49	20575	841.5	1@0	18.76	19.0	1.057	0.036	0.04	/
Ant 3	Head Right Cheek	QPSK	20476	831.6	1@49	20575	841.5	1@0	18.76	19.0	1.057	0.022	0.03	/
	Body Back (10 mm)	QPSK	20476	831.6	1@49	20575	841.5	1@0	18.76	19.0	1.057	0.046	0.05	/

*The data above was performed on 2024/08/11.***UL CA\_7C:**

Antenna	EUT Position	Mode	PCC UL			SCC UL			Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
			Channel	Freq. (MHz)	RB	Channel	Freq. (MHz)	RB			Scaled Factor	Meas. SAR	Scaled SAR	Plot
Ant 7	Head Right Tilt	QPSK	21001	2525.1	1@99	21199	2544.9	1@0	9.61	10.0	1.094	0.076	0.09	/
	Body Top (10 mm)	QPSK	21001	2525.1	1@99	21199	2544.9	1@0	9.61	10.0	1.094	0.064	0.07	/
Ant 5	Head Right Cheek	QPSK	21001	2525.1	1@99	21199	2544.9	1@0	9.61	10.0	1.094	0.143	0.16	/
	Body Back (10 mm)	QPSK	21001	2525.1	1@99	21199	2544.9	1@0	9.61	10.0	1.094	0.106	0.12	/
Ant 3	Head Left Cheek	QPSK	21001	2525.1	1@99	21199	2544.9	1@0	9.61	10.0	1.094	0.008	0.01	/
	Body Back (10 mm)	QPSK	21001	2525.1	1@99	21199	2544.9	1@0	9.61	10.0	1.094	0.291	0.32	/

*The data above was performed on 2024/08/13.***UL CA\_38C:**

Antenna	EUT Position	Mode	PCC UL			SCC UL			Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
			Channel	Freq. (MHz)	RB	Channel	Freq. (MHz)	RB			Scaled Factor	Meas. SAR	Scaled SAR	Plot
Ant 7	Head Right Cheek	QPSK	37901	2585.1	1@99	38099	2604.9	1@0	14.81	15.0	1.045	0.054	0.06	/
	Body Back (10 mm)	QPSK	37901	2585.1	1@99	38099	2604.9	1@0	14.81	15.0	1.045	0.065	0.07	/
Ant 5	Head Right Cheek	QPSK	37901	2585.1	1@99	38099	2604.9	1@0	14.81	15.0	1.045	0.081	0.09	/
	Body Back (10 mm)	QPSK	37901	2585.1	1@99	38099	2604.9	1@0	14.81	15.0	1.045	0.052	0.06	/
Ant 3	Head Left Cheek	QPSK	37901	2585.1	1@99	38099	2604.9	1@0	14.81	15.0	1.045	<0.001	0.01	/
	Body Back (10 mm)	QPSK	37901	2585.1	1@99	38099	2604.9	1@0	14.81	15.0	1.045	0.217	0.23	/

*The data above was performed on 2024/08/16.*

**UL CA\_41C:**

Antenna	EUT Position	Mode	PCC UL			SCC UL			Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
			Channel	Freq. (MHz)	RB	Channel	Freq. (MHz)	RB			Scaled Factor	Meas. SAR	Scaled SAR	Plot
Ant 7	Head Right Check	QPSK	40521	2583.1	1@99	40719	2602.9	1@0	14.71	15.0	1.069	0.051	0.06	/
	Body Back (10 mm)	QPSK	40521	2583.1	1@99	40719	2602.9	1@0	14.71	15.0	1.069	0.061	0.07	/
Ant 5	Head Right Check	QPSK	40521	2583.1	1@99	40719	2602.9	1@0	14.71	15.0	1.069	0.077	0.09	/
	Body Back (10 mm)	QPSK	40521	2583.1	1@99	40719	2602.9	1@0	14.71	15.0	1.069	0.049	0.06	/
Ant 3	Head Left Cheek	QPSK	40521	2583.1	1@99	40719	2602.9	1@0	14.71	15.0	1.069	<0.001	0.01	/
	Body Back (10 mm)	QPSK	40521	2583.1	1@99	40719	2602.9	1@0	14.71	15.0	1.069	0.206	0.23	/

The data above was performed on 2024/08/17.

**UL CA\_66C:**

Antenna	EUT Position	Mode	PCC UL			SCC UL			Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
			Channel	Freq. (MHz)	RB	Channel	Freq. (MHz)	RB			Scaled Factor	Meas. SAR	Scaled SAR	Plot
Ant 7	Head Right Tilt	QPSK	132323	1745.1	1@99	132521	1764.9	1@0	15.27	15.5	1.054	0.137	0.15	/
	Body Top (10 mm)	QPSK	132323	1745.1	1@99	132521	1764.9	1@0	15.27	15.5	1.054	0.044	0.05	/
Ant 5	Head Right Cheek	QPSK	132323	1745.1	1@99	132521	1764.9	1@0	15.27	15.5	1.054	0.023	0.03	/
	Body Back (10 mm)	QPSK	132323	1745.1	1@99	132521	1764.9	1@0	15.27	15.5	1.054	0.020	0.03	/
Ant 3	Head Right Cheek	QPSK	132323	1745.1	1@99	132521	1764.9	1@0	15.27	15.5	1.054	0.012	0.02	/
	Body Bottom (10 mm)	QPSK	132323	1745.1	1@99	132521	1764.9	1@0	15.27	15.5	1.054	0.293	0.31	/

The data above was performed on 2024/08/18.

**Note:**

1. When the 1-g SAR is  $\leq 0.8\text{W/Kg}$ , testing for other channels are optional.
2. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
3. KDB 941225 D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is  $> 0.5\text{ dB}$  higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is  $> 1.45\text{ W/kg}$
4. KDB 941225 D05-For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is  $< 1.45\text{ W/kg}$ , tests for the remaining required test channels are optional.
5. KDB 941225 D05- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8\text{ W/kg}$ .
6. KDB 941225 D05- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offset the upper edge, middle and lower edge of each required test channel.
7. KDB 941225 D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is  $> 0.5\text{ dB}$  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  $> 1.45\text{ W/kg}$ .
8. PCC RB allocation setting for UL CA has been adjusted based on the worst-case SAR test.

**5G NR n5 (Ant 7):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.354	0.39	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.369	0.40	/
Head Left Tilt	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.329	0.36	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.342	0.37	/
Head Right Cheek	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.427	0.47	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.448	<b>0.48</b>	<b>9#</b>
Head Right Tilt	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.314	0.35	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.371	0.40	/
Body Front (10 mm)	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.069	0.08	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.073	0.08	/
Body Back (10 mm)	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.096	0.11	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.103	<b>0.12</b>	<b>10#</b>
Body Left (10 mm)	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.042	0.05	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.044	0.05	/
Body Top (10 mm)	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.073	0.08	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.078	0.09	/

*The data above was performed on 2024/08/11.*

**5G NR n5 (Ant 3):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.047	0.06	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.057	<b>0.07</b>	<b>11#</b>
Head Left Tilt	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.028	0.04	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.030	0.04	/
Head Right Cheek	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.052	0.06	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.055	0.06	/
Head Right Tilt	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.029	0.04	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.031	0.04	/
Body Front (10 mm)	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.052	0.06	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.052	0.06	/
Body Back (10 mm)	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.066	0.08	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.070	<b>0.08</b>	<b>12#</b>
Body Left (10 mm)	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.032	0.04	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.032	0.04	/
Body Right (10 mm)	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.057	0.07	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.058	0.07	/
Body Bottom (10 mm)	834	20	1RB	/	/	/	/	/	/
	836.5	20	1RB	22.13	22.5	1.089	0.058	0.07	/
	839	20	1RB	/	/	/	/	/	/
	836.5	20	50%RB	22.21	22.5	1.069	0.060	0.07	/

*The data above was performed on 2024/08/11.*

**5G NR n7 (Ant 7):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.071	0.08	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.071	0.08	/
Head Left Tilt	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.096	0.11	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.097	0.10	/
Head Right Cheek	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.178	0.20	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.184	0.19	/
Head Right Tilt	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.195	0.21	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.202	<b>0.21</b>	<b>13#</b>
Body Front (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.044	0.05	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.045	0.05	/
Body Back (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.085	0.10	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.087	0.09	/
Body Left (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.041	0.05	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.043	0.05	/
Body Top (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.101	0.11	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.103	<b>0.11</b>	<b>14#</b>

*The data above was performed on 2024/08/12.*

**5G NR n7 (Ant 3):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.016	0.02	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.017	0.02	/
Head Left Tilt	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.015	0.02	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.016	0.02	/
Head Right Cheek	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.015	0.02	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.016	0.02	/
Head Right Tilt	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.012	0.02	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.037	<b>0.04</b>	<b>15#</b>
Body Front (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.199	0.22	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.208	0.22	/
Body Back (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.354	0.38	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.414	<b>0.43</b>	<b>16#</b>
Body Left (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.065	0.07	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.077	0.08	/
Body Right (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.076	0.09	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.080	0.09	/
Body Bottom (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.273	0.30	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.284	0.30	/

*The data above was performed on 2024/08/12.*

**5G NR n7 (Ant 5):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.034	0.04	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.035	0.04	/
Head Left Tilt	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.012	0.02	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.014	0.02	/
Head Right Cheek	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.035	0.04	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.036	<b>0.04</b>	<b>17#</b>
Head Right Tilt	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.012	0.02	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.014	0.02	/
Body Front (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.124	0.14	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.126	0.13	/
Body Back (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.195	0.21	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.199	0.21	/
Body Left (10 mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	17.71	18.0	1.069	0.266	<b>0.29</b>	<b>18#</b>
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	17.88	18.0	1.028	0.266	0.28	/

*The data above was performed on 2024/08/13.*

**5G NR n12 (Ant 7):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.126	0.14	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.131	0.14	/
Head Left Tilt	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.078	0.09	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.084	0.09	/
Head Right Cheek	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.133	0.15	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.141	<b>0.15</b>	<b>19#</b>
Head Right Tilt	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.115	0.13	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.128	0.14	/
Body Front (10 mm)	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.030	0.04	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.035	0.04	/
Body Back (10 mm)	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.040	0.05	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.043	0.05	/
Body Left (10 mm)	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.043	0.05	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.048	<b>0.06</b>	<b>20#</b>
Body Top (10 mm)	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.022	0.03	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.023	0.03	/

*The data above was performed on 2024/08/15.*

**5G NR n12 (Ant 3):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.017	0.02	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.018	<b>0.02</b>	<b>21#</b>
Head Left Tilt	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.011	0.02	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.012	0.02	/
Head Right Cheek	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.016	0.02	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.016	0.02	/
Head Right Tilt	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.009	0.01	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.010	0.02	/
Body Front (10 mm)	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.023	0.03	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.024	0.03	/
Body Back (10 mm)	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.030	0.04	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.031	0.04	/
Body Left (10 mm)	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.022	0.03	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.022	0.03	/
Body Right (10 mm)	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.046	0.05	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.049	<b>0.06</b>	<b>22#</b>
Body Bottom (10 mm)	706.5	15	1RB	/	/	/	/	/	/
	707.5	15	1RB	25.73	26.0	1.064	0.014	0.02	/
	708.5	15	1RB	/	/	/	/	/	/
	707.5	15	50%RB	25.83	26.0	1.040	0.014	0.02	/

*The data above was performed on 2024/08/15.*

**5G NR n38 (Ant 7):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.142	0.15	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.142	0.16	/
Head Left Tilt	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.160	0.17	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.167	0.19	/
Head Right Cheek	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.315	0.33	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.321	0.36	/
Head Right Tilt	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.332	0.35	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.332	<b>0.37</b>	<b>23#</b>
Body Front (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.072	0.08	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.073	0.09	/
Body Back (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.130	0.14	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.132	0.15	/
Body Left (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.097	0.11	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.104	0.12	/
Body Top (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.115	0.12	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.135	<b>0.15</b>	<b>24#</b>

*The data above was performed on 2024/08/16.*

**5G NR n38 (Ant 3):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.061	0.07	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.066	0.08	/
Head Left Tilt	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.015	0.02	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.017	0.02	/
Head Right Cheek	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.087	0.10	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.091	<b>0.11</b>	<b>25#</b>
Head Right Tilt	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.013	0.02	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.016	0.02	/
Body Front (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.066	0.07	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.069	0.08	/
Body Back (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.162	0.17	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.180	<b>0.20</b>	<b>26#</b>
Body Left (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.028	0.03	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.028	0.04	/
Body Right (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.027	0.03	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.028	0.04	/
Body Bottom (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.129	0.14	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.134	0.15	/

*The data above was performed on 2024/08/16.*

**5G NR n38 (Ant 5):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.060	0.07	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.060	0.07	/
Head Left Tilt	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.016	0.02	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.019	0.03	/
Head Right Cheek	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.130	0.14	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.131	<b>0.15</b>	<b>27#</b>
Head Right Tilt	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.011	0.02	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.026	0.03	/
Body Front (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.022	0.03	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.026	0.03	/
Body Back (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.042	0.05	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.043	0.05	/
Body Left (10 mm)	2590	40	1RB	/	/	/	/	/	/
	2595	40	1RB	20.82	21.0	1.042	0.054	0.06	/
	2600	40	1RB	/	/	/	/	/	/
	2595	40	50%RB	20.57	21.0	1.104	0.056	<b>0.07</b>	<b>28#</b>

*The data above was performed on 2024/08/13.*

**5G NR n41 (Ant 7):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.185	0.20	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.190	0.22	/
Head Left Tilt	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.211	0.23	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.211	0.24	/
Head Right Cheek	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.348	0.38	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.341	0.39	/
Head Right Tilt	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.364	0.40	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.370	<b>0.42</b>	<b>29#</b>
Body Front (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.072	0.08	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.074	0.09	/
Body Back (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.150	0.17	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.154	0.18	/
Body Left (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.106	0.12	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.107	0.12	/

Body Top (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.156	0.17	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.158	<b>0.18</b>	<b>30#</b>

*The data above was performed on 2024/08/17.*

Note:

1. The frequency range of 5G NR n41 is 2496~2690MHz. Per KDB 447498 D01, according to the following formula Calculate Nc is 5.

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

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

where

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

**5G NR n41 (Ant 3):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.015	0.02	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.016	0.02	/
Head Left Tilt	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.010	0.02	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.014	0.02	/
Head Right Cheek	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.011	0.02	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.013	<b>0.02</b>	<b>31#</b>
Head Right Tilt	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.009	0.01	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.009	0.02	/
Body Front (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.066	0.08	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.071	0.08	/
Body Back (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.142	0.16	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.166	<b>0.19</b>	<b>32#</b>
Body Left (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.021	0.03	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.025	0.03	/

Body Right (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.019	0.03	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.025	0.03	/
Body Bottom (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.108	0.12	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.122	0.14	/

The data above was performed on 2024/08/17.

Note:

1. The frequency range of 5G NR n41 is 2496~ 2690MHz. Per KDB 447498 D01, according to the following formula Calculate Nc is 5.

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

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

where

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

**5G NR n41 (Ant 5):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.066	0.08	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.067	0.08	/
Head Left Tilt	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.025	0.03	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.025	0.03	/
Head Right Cheek	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.136	0.15	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.158	<b>0.18</b>	<b>33#</b>
Head Right Tilt	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.026	0.03	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.029	0.04	/
Body Front (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.020	0.03	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.021	0.03	/
Body Back (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.052	0.06	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.056	0.07	/
Body Left (10 mm)	2546	100	1RB	/	/	/	/	/	/
	2569.5	100	1RB	/	/	/	/	/	/
	2593	100	1RB	22.17	22.5	1.079	0.075	0.09	/
	2616.5	100	1RB	/	/	/	/	/	/
	2640	100	1RB	/	/	/	/	/	/
	2593	100	50%RB	22.02	22.5	1.117	0.079	<b>0.09</b>	<b>34#</b>

*The data above was performed on 2024/08/19.*

Note:

1. The frequency range of 5G NR n41 is 2496~2690MHz. Per KDB 447498 D01, according to the following formula Calculate Nc is 5.

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

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

where

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

**5G NR n66 (Ant 7):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.238	0.26	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.253	0.27	/
Head Left Tilt	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.247	0.27	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.265	0.29	/
Head Right Cheek	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.284	0.31	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.300	0.32	/
Head Right Tilt	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.367	0.40	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.419	<b>0.45</b>	<b>35#</b>
Body Front (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.066	0.08	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.071	0.08	/
Body Back (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.070	0.08	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.078	0.09	/
Body Left (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.021	0.03	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.025	0.03	/
Body Top (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.084	0.09	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.090	<b>0.10</b>	<b>36#</b>

*The data above was performed on 2024/08/18.*

**5G NR n66 (Ant 3):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.007	0.01	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.007	0.01	/
Head Left Tilt	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.007	0.01	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.008	0.01	/
Head Right Cheek	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.008	0.01	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.010	<b>0.02</b>	<b>37#</b>
Head Right Tilt	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.006	0.01	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.009	0.01	/
Body Front (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.022	0.03	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.031	0.04	/
Body Back (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.029	0.04	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.040	0.05	/
Body Left (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.006	0.01	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.006	0.01	/
Body Right (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.012	0.02	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.014	0.02	/
Body Bottom (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.038	0.05	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.053	<b>0.06</b>	<b>38#</b>

*The data above was performed on 2024/08/18.*

**5G NR n66 (Ant 5):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.123	0.14	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.162	0.18	/
Head Left Tilt	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.057	0.07	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.060	0.07	/
Head Right Cheek	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.432	0.47	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.448	<b>0.48</b>	<b>39#</b>
Head Right Tilt	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.077	0.09	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.081	0.09	/
Body Front (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.064	0.07	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.067	0.08	/
Body Back (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.145	0.16	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.149	0.16	/
Body Left (10 mm)	1730	40	1RB	/	/	/	/	/	/
	1745	40	1RB	16.42	16.7	1.067	0.193	0.21	/
	1760	40	1RB	/	/	/	/	/	/
	1745	40	50%RB	16.44	16.7	1.062	0.204	<b>0.22</b>	<b>40#</b>

The data above was performed on 2024/08/19.

**5G NR n77&78 Lower (Ant 0):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3500	100	1RB	16.62	17.0	1.091	0.151	0.17	/
	3500	100	50%RB	16.75	17.0	1.059	0.194	<b>0.21</b>	<b>41#</b>
Head Left Tilt	3500	100	1RB	16.62	17.0	1.091	0.090	0.10	/
	3500	100	50%RB	16.75	17.0	1.059	0.149	0.16	/
Head Right Cheek	3500	100	1RB	16.62	17.0	1.091	0.037	0.05	/
	3500	100	50%RB	16.75	17.0	1.059	0.063	0.07	/
Head Right Tilt	3500	100	1RB	16.62	17.0	1.091	0.037	0.05	/
	3500	100	50%RB	16.75	17.0	1.059	0.063	0.07	/
Body Front (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.021	0.03	/
	3500	100	50%RB	16.75	17.0	1.059	0.038	0.05	/
Body Back (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.036	0.04	/
	3500	100	50%RB	16.75	17.0	1.059	0.058	<b>0.07</b>	<b>42#</b>
Body Right (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.030	0.04	/
	3500	100	50%RB	16.75	17.0	1.059	0.058	0.07	/
Body Top (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.029	0.04	/
	3500	100	50%RB	16.75	17.0	1.059	0.046	0.05	/

The data above was performed on 2024/08/20.

Note: The 5G NR n78 Lower is a subset of n77 Lower, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Lower (Ant 2):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3500	100	1RB	16.62	17.0	1.091	0.116	0.13	/
	3500	100	50%RB	16.75	17.0	1.059	0.169	<b>0.18</b>	<b>43#</b>
Head Left Tilt	3500	100	1RB	16.62	17.0	1.091	0.024	0.03	/
	3500	100	50%RB	16.75	17.0	1.059	0.030	0.04	/
Head Right Cheek	3500	100	1RB	16.62	17.0	1.091	0.044	0.05	/
	3500	100	50%RB	16.75	17.0	1.059	0.070	0.08	/
Head Right Tilt	3500	100	1RB	16.62	17.0	1.091	0.035	0.04	/
	3500	100	50%RB	16.75	17.0	1.059	0.095	0.11	/
Body Front (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.021	0.03	/
	3500	100	50%RB	16.75	17.0	1.059	0.024	0.03	/
Body Back (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.091	0.10	/
	3500	100	50%RB	16.75	17.0	1.059	0.210	0.23	/
Body Right (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.090	0.10	/
	3500	100	50%RB	16.75	17.0	1.059	0.218	<b>0.24</b>	<b>44#</b>
Body Top (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.046	0.05	/
	3500	100	50%RB	16.75	17.0	1.059	0.081	0.09	/

The data above was performed on 2024/08/20.

Note: The 5G NR n78 Lower is a subset of n77 Lower, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Lower (Ant 4):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3500	100	1RB	16.62	17.0	1.091	0.021	0.03	/
	3500	100	50%RB	16.75	17.0	1.059	0.033	<b>0.04</b>	<b>45#</b>
Head Left Tilt	3500	100	1RB	16.62	17.0	1.091	0.023	0.03	/
	3500	100	50%RB	16.75	17.0	1.059	0.029	0.04	/
Head Right Cheek	3500	100	1RB	16.62	17.0	1.091	0.016	0.02	/
	3500	100	50%RB	16.75	17.0	1.059	0.017	0.02	/
Head Right Tilt	3500	100	1RB	16.62	17.0	1.091	0.018	0.02	/
	3500	100	50%RB	16.75	17.0	1.059	0.023	0.03	/
Body Front (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.058	0.07	/
	3500	100	50%RB	16.75	17.0	1.059	0.058	<b>0.07</b>	<b>46#</b>
Body Back (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.048	0.06	/
	3500	100	50%RB	16.75	17.0	1.059	0.048	0.06	/
Body Left (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.041	0.05	/
	3500	100	50%RB	16.75	17.0	1.059	0.047	0.05	/
Body Bottom (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.022	0.03	/
	3500	100	50%RB	16.75	17.0	1.059	0.049	0.06	/

The data above was performed on 2024/08/21.

Note: The 5G NR n78 Lower is a subset of n77 Lower, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Lower (Ant 6):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3500	100	1RB	16.62	17.0	1.091	0.065	0.08	/
	3500	100	50%RB	16.75	17.0	1.059	0.085	0.09	/
Head Left Tilt	3500	100	1RB	16.62	17.0	1.091	0.057	0.07	/
	3500	100	50%RB	16.75	17.0	1.059	0.077	0.09	/
Head Right Cheek	3500	100	1RB	16.62	17.0	1.091	0.162	0.18	/
	3500	100	50%RB	16.75	17.0	1.059	0.181	<b>0.20</b>	<b>47#</b>
Head Right Tilt	3500	100	1RB	16.62	17.0	1.091	0.112	0.13	/
	3500	100	50%RB	16.75	17.0	1.059	0.148	0.16	/
Body Front (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.052	0.06	/
	3500	100	50%RB	16.75	17.0	1.059	0.063	0.07	/
Body Back (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.051	0.06	/
	3500	100	50%RB	16.75	17.0	1.059	0.069	0.08	/
Body Left (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.071	0.08	/
	3500	100	50%RB	16.75	17.0	1.059	0.083	<b>0.09</b>	<b>48#</b>
Body Top (10 mm)	3500	100	1RB	16.62	17.0	1.091	0.052	0.06	/
	3500	100	50%RB	16.75	17.0	1.059	0.071	0.08	/

The data above was performed on 2024/08/21.

Note: The 5G NR n78 Lower is a subset of n77 Lower, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Middle (Ant 0):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.303	0.33	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.320	<b>0.34</b>	<b>49#</b>
Head Left Tilt	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.164	0.18	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.224	0.24	/
Head Right Cheek	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.118	0.13	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.124	0.13	/
Head Right Tilt	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.083	0.09	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.108	0.12	/
Body Front (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.049	0.06	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.057	0.06	/
Body Back (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.058	0.07	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.062	0.07	/
Body Right (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.062	0.07	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.066	<b>0.07</b>	<b>50#</b>
Body Top (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.061	0.07	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.062	0.07	/

*The data above was performed on 2024/08/22.*

Note: The 5G NR n78 Middle is a subset of n77 Middle, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Middle (Ant 2):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.387	0.42	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.408	<b>0.43</b>	<b>51#</b>
Head Left Tilt	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.116	0.13	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.119	0.13	/
Head Right Cheek	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.115	0.13	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.137	0.15	/
Head Right Tilt	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.067	0.08	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.068	0.08	/
Body Front (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.087	0.10	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.093	0.10	/
Body Back (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.202	0.22	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.362	<b>0.38</b>	<b>52#</b>
Body Right (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.266	0.29	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.326	0.35	/
Body Top (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.044	0.05	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.082	0.09	/

*The data above was performed on 2024/08/22.*

Note: The 5G NR n78 Middle is a subset of n77 Middle, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Middle (Ant 4):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.026	0.03	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.027	0.03	/
Head Left Tilt	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.003	0.01	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.003	0.01	/
Head Right Cheek	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.008	0.01	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.012	0.02	/
Head Right Tilt	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.021	0.03	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.028	<b>0.03</b>	<b>53#</b>
Body Front (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.047	0.06	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.067	<b>0.08</b>	<b>54#</b>
Body Back (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.044	0.05	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.049	0.06	/
Body Left (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.048	0.06	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.048	0.06	/
Body Bottom (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.042	0.05	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.045	0.05	/

*The data above was performed on 2024/08/23.*

Note: The 5G NR n78 Middle is a subset of n77 Middle, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Middle (Ant 6):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.087	0.10	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.098	0.11	/
Head Left Tilt	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.079	0.09	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.082	0.09	/
Head Right Cheek	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.162	0.18	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.206	<b>0.22</b>	<b>55#</b>
Head Right Tilt	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.145	0.16	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.154	0.17	/
Body Front (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.069	0.08	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.074	0.08	/
Body Back (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.149	0.16	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.158	<b>0.17</b>	<b>56#</b>
Body Left (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.100	0.11	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.105	0.11	/
Body Top (10 mm)	3600	100	1RB	/	/	/	/	/	/
	3625	100	1RB	17.52	17.8	1.067	0.070	0.08	/
	3650	100	1RB	/	/	/	/	/	/
	3625	100	50%RB	17.61	17.8	1.045	0.076	0.08	/

*The data above was performed on 2024/08/23.*

Note: The 5G NR n78 Middle is a subset of n77 Middle, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Upper (Ant 0):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.186	0.20	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.264	<b>0.29</b>	<b>57#</b>
Head Left Tilt	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.214	0.23	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.254	0.28	/
Head Right Cheek	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.120	0.13	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.128	0.14	/
Head Right Tilt	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.119	0.13	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.126	0.14	/
Body Front (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.062	0.07	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.065	0.08	/
Body Back (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.068	0.08	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.069	<b>0.08</b>	<b>58#</b>
Body Right (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.063	0.07	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.066	0.08	/
Body Top (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.059	0.07	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.062	0.07	/

*The data above was performed on 2024/08/24.*

Note: The 5G NR n78 Upper is a subset of n77 Upper, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Upper (Ant 2):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.091	0.10	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.093	<b>0.10</b>	<b>59#</b>
Head Left Tilt	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.048	0.06	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.048	0.06	/
Head Right Cheek	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.031	0.04	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.056	0.06	/
Head Right Tilt	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.012	0.02	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.030	0.04	/
Body Front (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.034	0.04	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.037	0.04	/
Body Back (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.091	0.10	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.098	<b>0.11</b>	<b>60#</b>
Body Right (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.084	0.09	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.089	0.10	/
Body Top (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.033	0.04	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.036	0.04	/

*The data above was performed on 2024/08/24.*

Note: The 5G NR n78 Upper is a subset of n77 Upper, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Upper (Ant 4):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.037	0.04	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.039	0.05	/
Head Left Tilt	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.036	0.04	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.041	<b>0.05</b>	<b>61#</b>
Head Right Cheek	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.035	0.04	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.040	0.05	/
Head Right Tilt	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.031	0.04	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.037	0.04	/
Body Front (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.058	0.07	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.059	0.07	/
Body Back (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.075	0.08	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.076	<b>0.09</b>	<b>62#</b>
Body Left (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.046	0.05	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.061	0.07	/
Body Bottom (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.061	0.07	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.062	0.07	/

*The data above was performed on 2024/08/25.*

Note: The 5G NR n78 Upper is a subset of n77 Upper, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**5G NR n77&78 Upper (Ant 6):**

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.086	0.10	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.092	0.10	/
Head Left Tilt	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.023	0.03	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.047	0.06	/
Head Right Cheek	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.126	0.14	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.178	<b>0.20</b>	<b>63#</b>
Head Right Tilt	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.117	0.13	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.124	0.14	/
Body Front (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.063	0.07	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.071	0.08	/
Body Back (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.139	0.15	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.167	<b>0.18</b>	<b>64#</b>
Body Left (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.093	0.10	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.146	0.16	/
Body Top (10 mm)	3750	100	1RB	/	/	/	/	/	/
	3840	100	1RB	18.26	18.5	1.057	0.078	0.09	/
	3930	100	1RB	/	/	/	/	/	/
	3840	100	50%RB	18.18	18.5	1.076	0.083	0.09	/

*The data above was performed on 2024/08/25.*

Note: The 5G NR n78 Upper is a subset of n77 Upper, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

**Note:**

1. SAR test for NR bands and LTE anchor Bands were performed separately due to limitations in SAR probe calibration factors. And, due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
2. FR1 supported standalone.
3. KDB941225D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > 0.5 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg
4. KDB941225D05-For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is <1.45 W/kg, tests for the remaining required test channels are optional.
5. KDB941225D05- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq$  0.8 W/kg.
6. KDB941225D05- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offset the upper edge, middle and lower edge of each required test channel.
7. KDB941225D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > 0.5 dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

## SAR Measurement Variability

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

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

### The Highest Measured SAR Configuration in Each Frequency Band

#### Head

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

#### Body

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

#### Note:

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not  $> 1.20$ .
2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
3. SAR measurement variability must be assessed for each frequency band, which is determined by the **SAR probe calibration point and tissue-equivalent medium** used for the device measurements.

## SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

*Note: The data of GSM/WCDMA/LTE Band (expected LTE band 42), NFC, WLAN/Bluetooth and SAR simultaneous transmission description, please refer to FCC ID: 2ADYY-KL8H, SAR report of 2403V87404E-20, issued by China Certification ICT Co., Ltd (Dongguan) on 2024-08-29.*

## SAR Plots

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**Please Refer to the Attachment.**

## APPENDIX A MEASUREMENT UNCERTAINTY

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

**Measurement uncertainty evaluation for IEEE1528-2013 SAR test**

Source of uncertainty	Tolerance/uncertainty $\pm \%$	Probability distribution	Divisor	$ci$ (1 g)	$ci$ (10 g)	Standard uncertainty $\pm \%, (1 g)$	Standard uncertainty $\pm \%, (10 g)$
<b>Measurement system</b>							
Probe calibration	13.9	N	1	1	1	13.9	13.9
Axial Isotropy	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	$\sqrt{3}$	0	0	0.0	0.0
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Modulation response	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
RF ambient conditions–reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	3.9	R	$\sqrt{3}$	1	1	2.3	2.3
<b>Test sample related</b>							
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	$\sqrt{3}$	1	1	2.9	2.9
SAR scaling	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
<b>Phantom and tissue parameters</b>							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.9	1.6
Liquid conductivity measurement	5.5	N	1	0.78	0.71	4.3	3.9
Liquid permittivity measurement	2.9	N	1	0.23	0.26	0.7	0.8
Liquid conductivity—temperature uncertainty	1.7	R	$\sqrt{3}$	0.78	0.71	0.8	0.7
Liquid permittivity—temperature uncertainty	2.7	R	$\sqrt{3}$	0.23	0.26	0.4	0.4
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.3	23.9

## APPENDIX B EUT TEST POSITION PHOTOS

**Please Refer to the Attachment.**

## APPENDIX C CALIBRATION CERTIFICATES

**Please Refer to the Attachment.**

## APPENDIX D RETURN LOSS&IMPEDANCE MEASUREMENT

Please Refer to the Attachment.

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