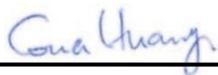


FCC SAR Spot Check Evaluation

FCC ID : A4RGLU0G
Equipment : Phone
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2 (2.1093)

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



Sporton International Inc. EMC & Wireless Communications Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan

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History of this test report

Report No.	Version	Description	Issued Date
FA121931-25B	01	Initial issue of report	Nov. 29, 2022



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Google LLC, Phone, are as follows.

Equipment Class	Frequency Band		Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)	Highest Simultaneous Transmission 10g SAR (W/kg)
			Head (Separation 0mm)	Body-worn (Separation 10mm)	Hotspot (Separation 10mm)	Product Specific (Separation 0mm)		
			1g SAR (W/kg)			10g SAR (W/kg)		
NII	WLAN	5GHz WLAN	0.96	1.13	0.54	2.04	1.56	2.97
Date of Testing:			2022/11/12					

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang

Report Producer: Paula Chen

2. Data Reuse Approach

FCC ID: A4RG8V0U (parent model) and FCC ID: A4RGLU0G (variant model)

- **PCB:** The PCB layout is identical with parent model.
- **Component Positions:** The position of the components is identical with parent model.
- **Enclosure, Materials, and From Factor:** the Enclosure, Materials, and From Factor are exactly the same
- **Antenna Structures:** the FR2 antenna modules are depopulated on the Variant Model, but all of the other antennas are physically the same as the reference model.

Due to the same design are identical between parent model and variant model, SAR data reuse is requested and spot check data in this report is used to justify the SAR data reuse.

For variant model 1g SAR and 10g spot check SAR result does not exceed 30% and 1g SAR < 1.2W/kg, 10g SAR < 3.0W/kg of the reference model, the WWAN max SAR summary are identical with parent model.

The applicant should take full responsibility that the test data as referenced in this report represent compliance for this FCC ID: A4RGLU0G.

2.1 Model Difference Information

The difference between FCC ID: A4RG8V0U and FCC ID: A4RGLU0G is as below:

- 5G FR2 antenna modules are depopulated.

The details of similarity and difference can be found in the confidential documents.



2.2 Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Test on the variant
Part 2.1093 SAR	NII	Wi-Fi	5850 ~ 5895	A4RG8V0U	Original Grant	FA121931-24B	A4RGLU0G	Spot Check

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02



4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Phone
FCC ID	A4RGLU0G
SN	1810FDEE000QR
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77 : 3450MHz ~ 3550MHz, 3700 MHz ~ 3980 MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 5.8G UNII4 Band: 5850 MHz ~ 5895 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC : 13.56 MHz WPT: 110KHz ~ 148.5KHz UWB: 6489.6 MHz, 7987.2 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC:ASK WPT ASK UWB: BPM-BPSK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
Remark:	
1. Variant report to enable WiFi 5.8G UNII4 operation, in this report, only evaluate WiFi 5.8G UNII4 RF Exposure.	

5. RF Exposure Limits

5.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

5.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

6. Specific Absorption Rate (SAR)

6.1 Introduction

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

6.2 SAR Definition

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

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

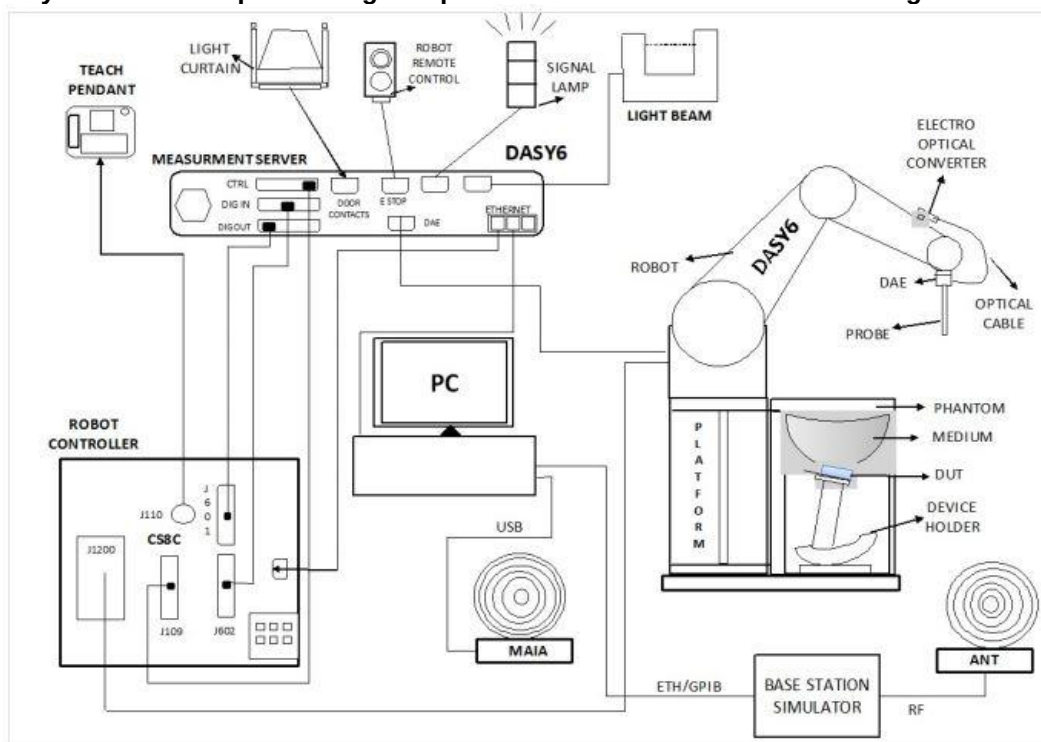
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

7. System Description and Setup

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



- The DASY system in DASY6/DASY5 V5.2 SAR Configuration is shown above
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, 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 windows software and the DASY5/DASY6 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.

7.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. In system validation list test site number, if the test site number is include in the Wensan Laboratory, that's mean the test data are subcontracted to Sporton International Inc. Wensan Laboratory.

Test Site	EMC & Wireless Communications Laboratory		Wensan Laboratory		
	TW1190		TW3786		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan		
Test Site No.	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY	SAR15-HY
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY

7.2 E-Field Probe

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

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – >100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – >6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically <1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

7.3 Data Acquisition Electronics (DAE)

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

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

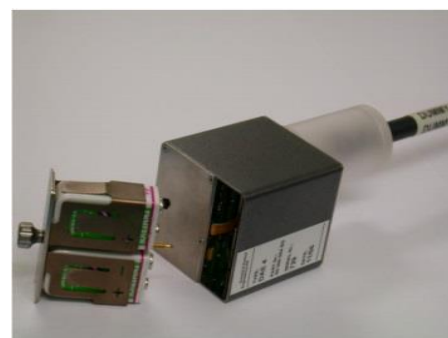


Fig 5.1 Photo of DAE

7.4 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

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

7.5 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

8.1 Spatial Peak SAR Evaluation

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

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

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

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

8.2 Power Reference Measurement

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

8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

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

8.4 Zoom Scan

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

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

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

8.5 Volume Scan Procedures

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

8.6 Power Drift Monitoring

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

9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1171	Apr. 20, 2021	Apr. 18, 2023
SPEAG	Data Acquisition Electronics	DAE4	854	Aug. 24, 2022	Aug. 23, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	3642	Apr. 28, 2022	Apr. 27, 2023
Testo	Hygro meter	608-H1	45196600	Nov. 02, 2022	Nov. 01, 2023
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Oct. 12, 2022	Oct. 11, 2023
Keysight	ENA Network Analyzer	E5071C	MY46104758	Sep. 22, 2022	Sep. 21, 2023
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 28, 2022	Sep. 27, 2023
LINE SEIKI	Digital Thermometer	DTM3000-spezial	2942	Oct. 31, 2022	Oct. 30, 2023
Anritsu	Power Meter	ML2495A	1419002	Aug. 16, 2022	Aug. 15, 2023
Anritsu	Power Sensor	MA2411B	1911176	Aug. 16, 2022	Aug. 15, 2023
Anritsu	Power Meter	ML2495A	1804003	Oct. 17, 2022	Oct. 16, 2023
Anritsu	Power Sensor	MA2411B	1726150	Oct. 17, 2022	Oct. 16, 2023
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 21, 2022	Jul. 20, 2023
Agilent	Spectrum Analyzer	E4408B	MY44211028	Aug. 19, 2021	Aug. 17, 2023
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 14, 2022	Oct. 13, 2023
Mini-Circuits	Power Amplifier	ZVE-8G+	479102029	Sep. 15, 2022	Sep. 14, 2023
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005- 3	N/A	Note 1	

General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

10. System Verification

10.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The liquid tissue depth was at least 15cm in the phantom for all SAR testing

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
5850	22.8	5.174	35.273	5.32	35.25	-2.74	0.07	±5	2022/11/12

10.2 System Performance Check Results

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

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR06	2022/11/12	5850	100	D5GHzV2-1171-5850	EX3DV4 - SN3642	DAE4 Sn854	7.510	82.300	75.1	-8.75	2.090	23.100	20.9	-9.52

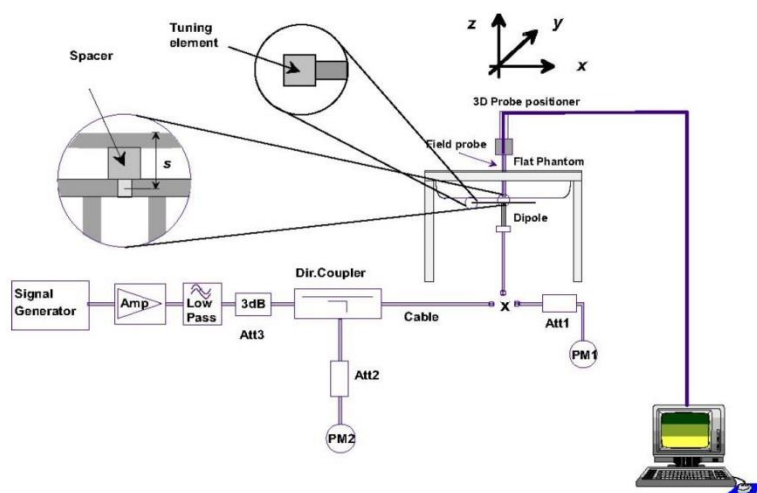


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo



11. Spot Check Verification Data Section

General Note:

1. SAR spot check verification on the worst cases from the original model was performed to demonstrate the test data from original model remains representative for the variant model.
2. If the 1-g SAR spot check result "does not exceed 30%, but larger than 1.2 W/kg", more spot check on the next-higher exposure position until the spot check result does not exceed 1.2 W/kg.
3. The spot check results don't show the SAR increase more than 30%, therefore referring to the guidance in the KDB inquiry, SAR data reuse is justified.

1st as parent model

2nd as variant model

11.1 Head SAR

<WLAN SAR>

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (%)
01	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+7(7)	1/2	171	5855	20.40	21.00	1.148	92.1	1.086	-0.08	0.304	0.379	-1%
		WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+7(3)	1/2	171	5855	20.95	21.00	1.012	92.1	1.086	-0.08	0.460	0.505	
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+7(7)	1/2	171	5855	20.35	21.00	1.161	92.1	1.086	-0.05	0.295	0.372	
		WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+7(3)	1/2	171	5855	20.91	21.00	1.021	92.1	1.086	-0.05	0.453	0.502	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+7(3)	3/4	171	5855	19.45	19.50	1.012	92.1	1.086	0.17	0.405	0.445	-4%
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+7(3)	3/4	171	5855	19.38	19.50	1.028	92.1	1.086	0.18	0.383	0.428	

11.2 Body-Worn SAR

<WLAN SAR>

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (%)
02	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+7(7)	5	171	5855	18.10	19.00	1.230	92.1	1.086	-0.16	0.832	1.112	0%
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+7(7)	5	171	5855	18.00	19.00	1.259	92.1	1.086	0.16	0.810	1.107	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+7(7)	6	171	5855	17.50	18.50	1.259	92.1	1.086	0.08	0.730	0.998	0%
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+7(7)	6	171	5855	17.45	18.50	1.274	92.1	1.086	0	0.719	0.994	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+7(7)	7	171	5855	15.80	16.50	1.175	92.1	1.086	-0.19	0.346	0.441	-1%
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+7(7)	7	171	5855	15.70	16.50	1.202	92.1	1.086	-0.09	0.334	0.436	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+7(7)	8/9	171	5855	14.80	15.50	1.175	92.1	1.086	0.19	0.334	0.426	0%
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+7(7)	8/9	171	5855	14.65	15.50	1.216	92.1	1.086	-0.08	0.321	0.424	



11.3 Product Specific SAR

<WLAN SAR>

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (%)
03	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+7(7)	5	171	5855	18.10	19.00	1.230	92.1	1.086	-0.16	1.530	2.044	-14%
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+7(7)	5	171	5855	18.00	19.00	1.259	92.1	1.086	0.18	1.290	1.764	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+7(7)	6	171	5855	17.50	18.50	1.259	92.1	1.086	-0.13	1.310	1.791	-8%
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+7(7)	6	171	5855	17.45	18.50	1.274	92.1	1.086	-0.09	1.190	1.646	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+7(7)	7	171	5855	15.80	16.50	1.175	92.1	1.086	-0.1	0.778	0.993	-24%
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+7(7)	7	171	5855	15.70	16.50	1.202	92.1	1.086	-0.03	0.577	0.753	
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+7(7)	8/9	171	5855	14.80	15.50	1.175	92.1	1.086	-0.09	0.633	0.808	-25%
	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+7(7)	8/9	171	5855	14.65	15.50	1.216	92.1	1.086	-0.04	0.459	0.606	

Conclusion:

The spot check results don't show the SAR increase more than 30%, and all below 1.2W/kg for 1-g SAR, below 3W/kg for 10-g SAR. Referring to the guidance in the KDB inquiry, SAR data reuse is justified.

12. Simultaneous Transmission Analysis

Portable Condition	Tx mode	Capable TX Configurations	WWAN Power	WiFi	BT
				Power	Power
Head	WWAN standalone	WWAN	Index 2		
	WiFi standalone	WiFi 2.4G MIMO/CDD (Ant4+3)		Index 1	
		WiFi 5G MIMO (Ant7+3)			
		WiFi 6E MIMO (Ant7+3)			
		WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant7+3)		Index 2 (RSDB)	
		WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant7+3)			
	BT standalone	Bluetooth (Ant4) (BDR/EDR Only)			Index 1
		Bluetooth (Ant3) (BDR/EDR Only)			
		Bluetooth (Ant4+3) (BDR/EDR Only)			
	WiFi +BT	WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant4)		Index 1	Index 1
		WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant3)			
		WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant4+3)			
		WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant4)			
		WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant3)			
		WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant4+3)			
	WWAN + WiFi	WWAN + WiFi 2.4G MIMO/CDD (Ant4+3)	Index 3 / Index 7 (Hostpot on)	Index 3	
		WWAN + WiFi 5G MIMO (Ant7+3)			
		WWAN + WiFi 6E MIMO (Ant7+3)		Index 4 (RSDB)	
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant7+3)			
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant7+3)			
	WWAN + BT	WWAN + Bluetooth (Ant4) (BDR/EDR Only)	Index 3 / Index 7 (Hostpot on)		Index 1
		WWAN + Bluetooth (Ant3) (BDR/EDR Only)			
		WWAN + Bluetooth (Ant4+3) (BDR/EDR Only)			
	WWAN + WiFi + BT	WWAN + WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant4)	Index 3 / Index 7 (Hostpot on)	Index 3	Index 1
		WWAN + WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant3)			
		WWAN + WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant4+3)			
		WWAN + WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant4)			
		WWAN + WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant3)			
		WWAN + WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant4+3)			

Portable Condition	Tx mode	Capable TX Configurations	WWAN Power	WiFi	BT
				Power	Power
Body	WWAN standalone	WWAN	Index 5		
	WiFi standalone	WiFi 2.4G MIMO/CDD (Ant4+3)		Index 5	
		WiFi 5G MIMO (Ant7+3)			
		WiFi 6E MIMO (Ant7+3)			
		WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant7+3)		Index 6 (RSDB)	
		WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant7+3)			
	BT standalone	Bluetooth (Ant4) (BDR/EDR Only)			Index 2
		Bluetooth (Ant3) (BDR/EDR Only)			
		Bluetooth (Ant4+3) (BDR/EDR Only)			
	WiFi +BT	WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant4)		Index 5	Index 3
		WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant3)			
		WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant4+3)			
		WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant4)			
		WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant3)			
		WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant4+3)			
	WWAN + WiFi	WWAN + WiFi 2.4G MIMO/CDD (Ant4+3)	Index 6 / Index 4 (Hostpot on)	Index 7	
		WWAN + WiFi 5G MIMO (Ant7+3)			
		WWAN + WiFi 6E MIMO (Ant7+3)		Index 8 (RSDB)	
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant7+3)			
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant7+3)			
	WWAN + BT	WWAN + Bluetooth (Ant4) (BDR/EDR Only)	Index 6 / Index 4 (Hostpot on)		Index 3
		WWAN + Bluetooth (Ant3) (BDR/EDR Only)			
		WWAN + Bluetooth (Ant4+3) (BDR/EDR Only)			
	WWAN + WiFi +BT	WWAN + WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant4)	Index 6 / Index 4 (Hostpot on)	Index 9	Index 4
		WWAN + WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant3)			
		WWAN + WiFi 5G MIMO (Ant7+3) + Bluetooth (Ant4+3)			
		WWAN + WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant4)			
		WWAN + WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant3)			
		WWAN + WiFi 6E MIMO (Ant7+3) + Bluetooth (Ant4+3)			

General Note:

- Simultaneous operation at maximum power levels when the device is neither against the body nor the head (i.e. in a mobile RF exposure condition) is addressed in Sporton's RF Exposure report FA121931-25A.
- The Sim-Tx configuration combination include in operation description will be match the title in the below Sum-Tx evaluation table.
- This device only WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
- The worst case WLAN reported SAR for each configuration was used for SAR summation. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with WLAN.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

12.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

The power ratio factors are g_1 and g_2 for LTE and NR respectively. The main purpose of these power ratio factors is to split the available SAR budget among different RATs, so $g_1 + g_2 \leq 1$. The value of g_1 is computed based on the need of the anchor (LTE) and can be changed if the anchor changes its power request. Based on the SAR Budget portion allocated to the anchor, the value of g_2 will be computed. At steady state (where all RATs are being on for a while), the allocated power ratio factors will guarantee that the total exposure ratio never exceeds the highest exposure of either one.

$$g_1 * LTE_{exposure} + g_2 * NR_{exposure} \leq 1.0,$$
$$\text{then, } g_1 * LTE_{exposure} + g_2 * NR_{exposure} \leq \max (LTE_{exposure} , NR_{exposure})$$

Compliance of simultaneous transmission of LTE+5GNR+WiFi+BT can be justified from the compliance of LTE+WiFi +BT and 5GNR+WiFi+BT

12.2 Head Exposure Conditions

<WLAN Index 1, BT Index 1>

Exposure Position	1	2	3	4	5	2+3 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	2+5 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 4+3 1g SAR (W/kg)	5/6GHz WLAN Ant 7+3 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 3+4 1g SAR (W/kg)			
Right Cheek at 0mm	0.514	0.959	0.063	0.050	0.091	1.022	1.009	1.050
Right Tilted at 0mm	0.488	0.784	0.047	0.025	0.076	0.831	0.809	0.860
Left Cheek at 0mm	1.105	0.453	0.146	0.039	0.179	0.599	0.492	0.632
Left Tilted at 0mm	1.004	0.545	0.109	0.019	0.092	0.654	0.564	0.637

<WLAN Index 2>

Exposure Position	1	1	1+2 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 7+3	
	1g SAR (W/kg)	1g SAR (W/kg)	
Right Cheek at 0mm	0.458	0.959	1.417
Right Tilted at 0mm	0.435	0.784	1.219
Left Cheek at 0mm	0.985	0.453	1.438
Left Tilted at 0mm	0.895	0.545	1.440



<WWAN Index 3, WLAN Index 3, BT Index 1>

WWAN Band	Exposure Position	1	5	7	9	10	11	1+5 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+7+10 Summed 1g SAR (W/kg)	1+7+11 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 7+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
GSM850_Ant 0	Right Cheek	0.214	0.292	0.506	0.063	0.050	0.091	0.506	0.720	0.783	0.770	0.811
	Right Tilted	0.104	0.267	0.396	0.047	0.025	0.076	0.371	0.500	0.547	0.525	0.576
	Left Cheek	0.237	0.606	0.299	0.146	0.039	0.179	0.843	0.536	0.682	0.575	0.715
	Left Tilted	0.126	0.475	0.330	0.109	0.019	0.092	0.601	0.456	0.565	0.475	0.548
GSM1900_Ant 2	Right Cheek	0.187	0.292	0.506	0.063	0.050	0.091	0.479	0.693	0.756	0.743	0.784
	Right Tilted	0.074	0.267	0.396	0.047	0.025	0.076	0.341	0.470	0.517	0.495	0.546
	Left Cheek	0.091	0.606	0.299	0.146	0.039	0.179	0.697	0.390	0.536	0.429	0.569
	Left Tilted	0.005	0.475	0.330	0.109	0.019	0.092	0.480	0.335	0.444	0.354	0.427
WCDMA II_Ant 2	Right Cheek	0.225	0.292	0.506	0.063	0.050	0.091	0.517	0.731	0.794	0.781	0.822
	Right Tilted	0.078	0.267	0.396	0.047	0.025	0.076	0.345	0.474	0.521	0.499	0.550
	Left Cheek	0.105	0.606	0.299	0.146	0.039	0.179	0.711	0.404	0.550	0.443	0.583
	Left Tilted	0.101	0.475	0.330	0.109	0.019	0.092	0.576	0.431	0.540	0.450	0.523
WCDMA IV_Ant 2	Right Cheek	0.198	0.292	0.506	0.063	0.050	0.091	0.490	0.704	0.767	0.754	0.795
	Right Tilted	0.031	0.267	0.396	0.047	0.025	0.076	0.298	0.427	0.474	0.452	0.503
	Left Cheek	0.058	0.606	0.299	0.146	0.039	0.179	0.664	0.357	0.503	0.396	0.536
	Left Tilted	0.036	0.475	0.330	0.109	0.019	0.092	0.511	0.366	0.475	0.385	0.458
WCDMA V_Ant 0	Right Cheek	0.271	0.292	0.506	0.063	0.050	0.091	0.563	0.777	0.840	0.827	0.868
	Right Tilted	0.140	0.267	0.396	0.047	0.025	0.076	0.407	0.536	0.583	0.561	0.612
	Left Cheek	0.370	0.606	0.299	0.146	0.039	0.179	0.976	0.669	0.815	0.708	0.848
	Left Tilted	0.125	0.475	0.330	0.109	0.019	0.092	0.600	0.455	0.564	0.474	0.547
LTE Band 7_Ant 2	Right Cheek	0.279	0.292	0.506	0.063	0.050	0.091	0.571	0.785	0.848	0.835	0.876
	Right Tilted	0.181	0.267	0.396	0.047	0.025	0.076	0.448	0.577	0.624	0.602	0.653
	Left Cheek	0.238	0.606	0.299	0.146	0.039	0.179	0.844	0.537	0.683	0.576	0.716
	Left Tilted	0.203	0.475	0.330	0.109	0.019	0.092	0.678	0.533	0.642	0.552	0.625
LTE Band 12_Ant 0	Right Cheek	0.206	0.292	0.506	0.063	0.050	0.091	0.498	0.712	0.775	0.762	0.803
	Right Tilted	0.158	0.267	0.396	0.047	0.025	0.076	0.425	0.554	0.601	0.579	0.630
	Left Cheek	0.235	0.606	0.299	0.146	0.039	0.179	0.841	0.534	0.680	0.573	0.713
	Left Tilted	0.132	0.475	0.330	0.109	0.019	0.092	0.607	0.462	0.571	0.481	0.554
LTE Band 13_Ant 0	Right Cheek	0.208	0.292	0.506	0.063	0.050	0.091	0.500	0.714	0.777	0.764	0.805
	Right Tilted	0.172	0.267	0.396	0.047	0.025	0.076	0.439	0.568	0.615	0.593	0.644
	Left Cheek	0.322	0.606	0.299	0.146	0.039	0.179	0.928	0.621	0.767	0.660	0.800
	Left Tilted	0.139	0.475	0.330	0.109	0.019	0.092	0.614	0.469	0.578	0.488	0.561
LTE Band 14_Ant 0	Right Cheek	0.210	0.292	0.506	0.063	0.050	0.091	0.502	0.716	0.779	0.766	0.807
	Right Tilted	0.183	0.267	0.396	0.047	0.025	0.076	0.450	0.579	0.626	0.604	0.655
	Left Cheek	0.363	0.606	0.299	0.146	0.039	0.179	0.969	0.662	0.808	0.701	0.841
	Left Tilted	0.157	0.475	0.330	0.109	0.019	0.092	0.632	0.487	0.596	0.506	0.579
LTE Band 25_Ant 2	Right Cheek	0.306	0.292	0.506	0.063	0.050	0.091	0.598	0.812	0.875	0.862	0.903
	Right Tilted	0.059	0.267	0.396	0.047	0.025	0.076	0.326	0.455	0.502	0.480	0.531
	Left Cheek	0.121	0.606	0.299	0.146	0.039	0.179	0.727	0.420	0.566	0.459	0.599
	Left Tilted	0.098	0.475	0.330	0.109	0.019	0.092	0.573	0.428	0.537	0.447	0.520
LTE Band 26_Ant 0	Right Cheek	0.321	0.292	0.506	0.063	0.050	0.091	0.613	0.827	0.890	0.877	0.918
	Right Tilted	0.208	0.267	0.396	0.047	0.025	0.076	0.475	0.604	0.651	0.629	0.680
	Left Cheek	0.332	0.606	0.299	0.146	0.039	0.179	0.938	0.631	0.777	0.670	0.810
	Left Tilted	0.181	0.475	0.330	0.109	0.019	0.092	0.656	0.511	0.620	0.530	0.603
LTE Band 30_Ant 2	Right Cheek	0.136	0.292	0.506	0.063	0.050	0.091	0.428	0.642	0.705	0.692	0.733
	Right Tilted	0.051	0.267	0.396	0.047	0.025	0.076	0.318	0.447	0.494	0.472	0.523
	Left Cheek	0.091	0.606	0.299	0.146	0.039	0.179	0.697	0.390	0.536	0.429	0.569
	Left Tilted	0.065	0.475	0.330	0.109	0.019	0.092	0.540	0.395	0.504	0.414	0.487
LTE Band 41_Ant 2	Right Cheek	0.194	0.292	0.506	0.063	0.050	0.091	0.486	0.700	0.763	0.750	0.791
	Right Tilted	0.084	0.267	0.396	0.047	0.025	0.076	0.351	0.480	0.527	0.505	0.556
	Left Cheek	0.136	0.606	0.299	0.146	0.039	0.179	0.742	0.435	0.581	0.474	0.614



FCC SAR Spot Check Evaluation

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	Left Tilted	0.076	0.475	0.330	0.109	0.019	0.092	0.551	0.406	0.515	0.425	0.498
LTE Band 48_Ant 6	Right Cheek	0.187	0.292	0.506	0.063	0.050	0.091	0.479	0.693	0.756	0.743	0.784
	Right Tilted	0.182	0.267	0.396	0.047	0.025	0.076	0.449	0.578	0.625	0.603	0.654
	Left Cheek	0.347	0.606	0.299	0.146	0.039	0.179	0.953	0.646	0.792	0.685	0.825
	Left Tilted	0.101	0.475	0.330	0.109	0.019	0.092	0.576	0.431	0.540	0.450	0.523
LTE Band 66_Ant 2	Right Cheek	0.201	0.292	0.506	0.063	0.050	0.091	0.493	0.707	0.770	0.757	0.798
	Right Tilted	0.095	0.267	0.396	0.047	0.025	0.076	0.362	0.491	0.538	0.516	0.567
	Left Cheek	0.104	0.606	0.299	0.146	0.039	0.179	0.710	0.403	0.549	0.442	0.582
	Left Tilted	0.094	0.475	0.330	0.109	0.019	0.092	0.569	0.424	0.533	0.443	0.516
LTE Band 71_Ant 0	Right Cheek	0.112	0.292	0.506	0.063	0.050	0.091	0.404	0.618	0.681	0.668	0.709
	Right Tilted	0.089	0.267	0.396	0.047	0.025	0.076	0.356	0.485	0.532	0.510	0.561
	Left Cheek	0.230	0.606	0.299	0.146	0.039	0.179	0.836	0.529	0.675	0.568	0.708
	Left Tilted	0.150	0.475	0.330	0.109	0.019	0.092	0.625	0.480	0.589	0.499	0.572
FR1 n5_Ant 0	Right Cheek	0.224	0.292	0.506	0.063	0.050	0.091	0.516	0.730	0.793	0.780	0.821
	Right Tilted	0.142	0.267	0.396	0.047	0.025	0.076	0.409	0.538	0.585	0.563	0.614
	Left Cheek	0.305	0.606	0.299	0.146	0.039	0.179	0.911	0.604	0.750	0.643	0.783
	Left Tilted	0.186	0.475	0.330	0.109	0.019	0.092	0.661	0.516	0.625	0.535	0.608
FR1 n7_Ant 2	Right Cheek	0.301	0.292	0.506	0.063	0.050	0.091	0.593	0.807	0.870	0.857	0.898
	Right Tilted	0.117	0.267	0.396	0.047	0.025	0.076	0.384	0.513	0.560	0.538	0.589
	Left Cheek	0.173	0.606	0.299	0.146	0.039	0.179	0.779	0.472	0.618	0.511	0.651
	Left Tilted	0.146	0.475	0.330	0.109	0.019	0.092	0.621	0.476	0.585	0.495	0.568
FR1 n12_Ant 0	Right Cheek	0.219	0.292	0.506	0.063	0.050	0.091	0.511	0.725	0.788	0.775	0.816
	Right Tilted	0.134	0.267	0.396	0.047	0.025	0.076	0.401	0.530	0.577	0.555	0.606
	Left Cheek	0.254	0.606	0.299	0.146	0.039	0.179	0.860	0.553	0.699	0.592	0.732
	Left Tilted	0.148	0.475	0.330	0.109	0.019	0.092	0.623	0.478	0.587	0.497	0.570
FR1 n25_Ant 2	Right Cheek	0.295	0.292	0.506	0.063	0.050	0.091	0.587	0.801	0.864	0.851	0.892
	Right Tilted	0.134	0.267	0.396	0.047	0.025	0.076	0.401	0.530	0.577	0.555	0.606
	Left Cheek	0.124	0.606	0.299	0.146	0.039	0.179	0.730	0.423	0.569	0.462	0.602
	Left Tilted	0.133	0.475	0.330	0.109	0.019	0.092	0.608	0.463	0.572	0.482	0.555
FR1 n30_Ant 2	Right Cheek	0.228	0.292	0.506	0.063	0.050	0.091	0.520	0.734	0.797	0.784	0.825
	Right Tilted	0.144	0.267	0.396	0.047	0.025	0.076	0.411	0.540	0.587	0.565	0.616
	Left Cheek	0.159	0.606	0.299	0.146	0.039	0.179	0.765	0.458	0.604	0.497	0.637
	Left Tilted	0.101	0.475	0.330	0.109	0.019	0.092	0.576	0.431	0.540	0.450	0.523
FR1 n41_Ant 1	Right Cheek	0.780	0.292	0.506	0.063	0.050	0.091	1.072	1.286	1.349	1.336	1.377
	Right Tilted	0.897	0.267	0.396	0.047	0.025	0.076	1.164	1.293	1.340	1.318	1.369
	Left Cheek	0.301	0.606	0.299	0.146	0.039	0.179	0.907	0.600	0.746	0.639	0.779
	Left Tilted	0.334	0.475	0.330	0.109	0.019	0.092	0.809	0.664	0.773	0.683	0.756
FR1 n66_Ant 2	Right Cheek	0.210	0.292	0.506	0.063	0.050	0.091	0.502	0.716	0.779	0.766	0.807
	Right Tilted	0.097	0.267	0.396	0.047	0.025	0.076	0.364	0.493	0.540	0.518	0.569
	Left Cheek	0.108	0.606	0.299	0.146	0.039	0.179	0.714	0.407	0.553	0.446	0.586
	Left Tilted	0.110	0.475	0.330	0.109	0.019	0.092	0.585	0.440	0.549	0.459	0.532
FR1 n71_Ant 0	Right Cheek	0.192	0.292	0.506	0.063	0.050	0.091	0.484	0.698	0.761	0.748	0.789
	Right Tilted	0.112	0.267	0.396	0.047	0.025	0.076	0.379	0.508	0.555	0.533	0.584
	Left Cheek	0.151	0.606	0.299	0.146	0.039	0.179	0.757	0.450	0.596	0.489	0.629
	Left Tilted	0.114	0.475	0.330	0.109	0.019	0.092	0.589	0.444	0.553	0.463	0.536
FR1 n77_Ant 6	Right Cheek	0.347	0.292	0.506	0.063	0.050	0.091	0.639	0.853	0.916	0.903	0.944
	Right Tilted	0.311	0.267	0.396	0.047	0.025	0.076	0.578	0.707	0.754	0.732	0.783
	Left Cheek	0.615	0.606	0.299	0.146	0.039	0.179	1.221	0.914	1.060	0.953	1.093
	Left Tilted	0.225	0.475	0.330	0.109	0.019	0.092	0.700	0.555	0.664	0.574	0.647



<WWAN Index 3, WLAN Index 3, BT Index 1>

WWAN Band	Exposure Position	1	5	7	9	10	11	1+5 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+7+10 Summed 1g SAR (W/kg)	1+7+11 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 7+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
GSM850_Ant 1	Right Cheek	0.892	0.292	0.506	0.063	0.050	0.091	1.184	1.398	1.461	1.448	1.489
	Right Tilted	0.831	0.267	0.396	0.047	0.025	0.076	1.098	1.227	1.274	1.252	1.303
	Left Cheek	0.743	0.606	0.299	0.146	0.039	0.179	1.349	1.042	1.188	1.081	1.221
	Left Tilted	0.718	0.475	0.330	0.109	0.019	0.092	1.193	1.048	1.157	1.067	1.140
GSM1900_Ant 0	Right Cheek	0.078	0.292	0.506	0.063	0.050	0.091	0.370	0.584	0.647	0.634	0.675
	Right Tilted	0.054	0.267	0.396	0.047	0.025	0.076	0.321	0.450	0.497	0.475	0.526
	Left Cheek	0.216	0.606	0.299	0.146	0.039	0.179	0.822	0.515	0.661	0.554	0.694
	Left Tilted	0.065	0.475	0.330	0.109	0.019	0.092	0.540	0.395	0.504	0.414	0.487
WCDMA II_Ant 0	Right Cheek	0.129	0.292	0.506	0.063	0.050	0.091	0.421	0.635	0.698	0.685	0.726
	Right Tilted	0.113	0.267	0.396	0.047	0.025	0.076	0.380	0.509	0.556	0.534	0.585
	Left Cheek	0.303	0.606	0.299	0.146	0.039	0.179	0.909	0.602	0.748	0.641	0.781
	Left Tilted	0.127	0.475	0.330	0.109	0.019	0.092	0.602	0.457	0.566	0.476	0.549
WCDMA IV_Ant 0	Right Cheek	0.152	0.292	0.506	0.063	0.050	0.091	0.444	0.658	0.721	0.708	0.749
	Right Tilted	0.149	0.267	0.396	0.047	0.025	0.076	0.416	0.545	0.592	0.570	0.621
	Left Cheek	0.316	0.606	0.299	0.146	0.039	0.179	0.922	0.615	0.761	0.654	0.794
	Left Tilted	0.134	0.475	0.330	0.109	0.019	0.092	0.609	0.464	0.573	0.483	0.556
WCDMA V_Ant 1	Right Cheek	0.892	0.292	0.506	0.063	0.050	0.091	1.184	1.398	1.461	1.448	1.489
	Right Tilted	0.709	0.267	0.396	0.047	0.025	0.076	0.976	1.105	1.152	1.130	1.181
	Left Cheek	0.392	0.606	0.299	0.146	0.039	0.179	0.998	0.691	0.837	0.730	0.870
	Left Tilted	0.298	0.475	0.330	0.109	0.019	0.092	0.773	0.628	0.737	0.647	0.720
LTE Band 7_Ant 0	Right Cheek	0.178	0.292	0.506	0.063	0.050	0.091	0.470	0.684	0.747	0.734	0.775
	Right Tilted	0.212	0.267	0.396	0.047	0.025	0.076	0.479	0.608	0.655	0.633	0.684
	Left Cheek	0.366	0.606	0.299	0.146	0.039	0.179	0.972	0.665	0.811	0.704	0.844
	Left Tilted	0.133	0.475	0.330	0.109	0.019	0.092	0.608	0.463	0.572	0.482	0.555
LTE Band 12_Ant 1	Right Cheek	0.344	0.292	0.506	0.063	0.050	0.091	0.636	0.850	0.913	0.900	0.941
	Right Tilted	0.316	0.267	0.396	0.047	0.025	0.076	0.583	0.712	0.759	0.737	0.788
	Left Cheek	0.200	0.606	0.299	0.146	0.039	0.179	0.806	0.499	0.645	0.538	0.678
	Left Tilted	0.174	0.475	0.330	0.109	0.019	0.092	0.649	0.504	0.613	0.523	0.596
LTE Band 13_Ant 1	Right Cheek	0.430	0.292	0.506	0.063	0.050	0.091	0.722	0.936	0.999	0.986	1.027
	Right Tilted	0.349	0.267	0.396	0.047	0.025	0.076	0.616	0.745	0.792	0.770	0.821
	Left Cheek	0.282	0.606	0.299	0.146	0.039	0.179	0.888	0.581	0.727	0.620	0.760
	Left Tilted	0.265	0.475	0.330	0.109	0.019	0.092	0.740	0.595	0.704	0.614	0.687
LTE Band 14_Ant 1	Right Cheek	0.674	0.292	0.506	0.063	0.050	0.091	0.966	1.180	1.243	1.230	1.271
	Right Tilted	0.532	0.267	0.396	0.047	0.025	0.076	0.799	0.928	0.975	0.953	1.004
	Left Cheek	0.428	0.606	0.299	0.146	0.039	0.179	1.034	0.727	0.873	0.766	0.906
	Left Tilted	0.398	0.475	0.330	0.109	0.019	0.092	0.873	0.728	0.837	0.747	0.820
LTE Band 25_Ant 0	Right Cheek	0.123	0.292	0.506	0.063	0.050	0.091	0.415	0.629	0.692	0.679	0.720
	Right Tilted	0.077	0.267	0.396	0.047	0.025	0.076	0.344	0.473	0.520	0.498	0.549
	Left Cheek	0.381	0.606	0.299	0.146	0.039	0.179	0.987	0.680	0.826	0.719	0.859
	Left Tilted	0.175	0.475	0.330	0.109	0.019	0.092	0.650	0.505	0.614	0.524	0.597
LTE Band 26_Ant 1	Right Cheek	0.463	0.292	0.506	0.063	0.050	0.091	0.755	0.969	1.032	1.019	1.060
	Right Tilted	0.534	0.267	0.396	0.047	0.025	0.076	0.801	0.930	0.977	0.955	1.006
	Left Cheek	0.346	0.606	0.299	0.146	0.039	0.179	0.952	0.645	0.791	0.684	0.824
	Left Tilted	0.436	0.475	0.330	0.109	0.019	0.092	0.911	0.766	0.875	0.785	0.858
LTE Band 30_Ant 0	Right Cheek	0.118	0.292	0.506	0.063	0.050	0.091	0.410	0.624	0.687	0.674	0.715
	Right Tilted	0.083	0.267	0.396	0.047	0.025	0.076	0.350	0.479	0.526	0.504	0.555
	Left Cheek	0.240	0.606	0.299	0.146	0.039	0.179	0.846	0.539	0.685	0.578	0.718
	Left Tilted	0.113	0.475	0.330	0.109	0.019	0.092	0.588	0.443	0.552	0.462	0.535
LTE Band 41_Ant 0	Right Cheek	0.077	0.292	0.506	0.063	0.050	0.091	0.369	0.583	0.646	0.633	0.674
	Right Tilted	0.090	0.267	0.396	0.047	0.025	0.076	0.357	0.486	0.533	0.511	0.562
	Left Cheek	0.208	0.606	0.299	0.146	0.039	0.179	0.814	0.507	0.653	0.546	0.686



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	Left Tilted	0.071	0.475	0.330	0.109	0.019	0.092	0.546	0.401	0.510	0.420	0.493
LTE Band 48_Ant 2	Right Cheek	0.117	0.292	0.506	0.063	0.050	0.091	0.409	0.623	0.686	0.673	0.714
	Right Tilted	0.001	0.267	0.396	0.047	0.025	0.076	0.268	0.397	0.444	0.422	0.473
	Left Cheek	0.048	0.606	0.299	0.146	0.039	0.179	0.654	0.347	0.493	0.386	0.526
	Left Tilted	0.049	0.475	0.330	0.109	0.019	0.092	0.524	0.379	0.488	0.398	0.471
LTE Band 66_Ant 0	Right Cheek	0.109	0.292	0.506	0.063	0.050	0.091	0.401	0.615	0.678	0.665	0.706
	Right Tilted	0.161	0.267	0.396	0.047	0.025	0.076	0.428	0.557	0.604	0.582	0.633
	Left Cheek	0.312	0.606	0.299	0.146	0.039	0.179	0.918	0.611	0.757	0.650	0.790
	Left Tilted	0.229	0.475	0.330	0.109	0.019	0.092	0.704	0.559	0.668	0.578	0.651
LTE Band 71_Ant 1	Right Cheek	0.310	0.292	0.506	0.063	0.050	0.091	0.602	0.816	0.879	0.866	0.907
	Right Tilted	0.200	0.267	0.396	0.047	0.025	0.076	0.467	0.596	0.643	0.621	0.672
	Left Cheek	0.189	0.606	0.299	0.146	0.039	0.179	0.795	0.488	0.634	0.527	0.667
	Left Tilted	0.136	0.475	0.330	0.109	0.019	0.092	0.611	0.466	0.575	0.485	0.558
FR1 n5_Ant 1	Right Cheek	0.718	0.292	0.506	0.063	0.050	0.091	1.010	1.224	1.287	1.274	1.315
	Right Tilted	0.709	0.267	0.396	0.047	0.025	0.076	0.976	1.105	1.152	1.130	1.181
	Left Cheek	0.497	0.606	0.299	0.146	0.039	0.179	1.103	0.796	0.942	0.835	0.975
	Left Tilted	0.512	0.475	0.330	0.109	0.019	0.092	0.987	0.842	0.951	0.861	0.934
FR1 n7_Ant 0	Right Cheek	0.185	0.292	0.506	0.063	0.050	0.091	0.477	0.691	0.754	0.741	0.782
	Right Tilted	0.220	0.267	0.396	0.047	0.025	0.076	0.487	0.616	0.663	0.641	0.692
	Left Cheek	0.557	0.606	0.299	0.146	0.039	0.179	1.163	0.856	1.002	0.895	1.035
	Left Tilted	0.131	0.475	0.330	0.109	0.019	0.092	0.606	0.461	0.570	0.480	0.553
FR1 n12_Ant 1	Right Cheek	0.526	0.292	0.506	0.063	0.050	0.091	0.818	1.032	1.095	1.082	1.123
	Right Tilted	0.443	0.267	0.396	0.047	0.025	0.076	0.710	0.839	0.886	0.864	0.915
	Left Cheek	0.255	0.606	0.299	0.146	0.039	0.179	0.861	0.554	0.700	0.593	0.733
	Left Tilted	0.294	0.475	0.330	0.109	0.019	0.092	0.769	0.624	0.733	0.643	0.716
FR1 n25_Ant 0	Right Cheek	0.222	0.292	0.506	0.063	0.050	0.091	0.514	0.728	0.791	0.778	0.819
	Right Tilted	0.174	0.267	0.396	0.047	0.025	0.076	0.441	0.570	0.617	0.595	0.646
	Left Cheek	0.438	0.606	0.299	0.146	0.039	0.179	1.044	0.737	0.883	0.776	0.916
	Left Tilted	0.188	0.475	0.330	0.109	0.019	0.092	0.663	0.518	0.627	0.537	0.610
FR1 n30_Ant 0	Right Cheek	0.172	0.292	0.506	0.063	0.050	0.091	0.464	0.678	0.741	0.728	0.769
	Right Tilted	0.134	0.267	0.396	0.047	0.025	0.076	0.401	0.530	0.577	0.555	0.606
	Left Cheek	0.353	0.606	0.299	0.146	0.039	0.179	0.959	0.652	0.798	0.691	0.831
	Left Tilted	0.180	0.475	0.330	0.109	0.019	0.092	0.655	0.510	0.619	0.529	0.602
FR1 n41_Ant 5	Right Cheek	0.253	0.292	0.506	0.063	0.050	0.091	0.545	0.759	0.822	0.809	0.850
	Right Tilted	0.108	0.267	0.396	0.047	0.025	0.076	0.375	0.504	0.551	0.529	0.580
	Left Cheek	0.888	0.606	0.299	0.146	0.039	0.179	1.494	1.187	1.333	1.226	1.366
	Left Tilted	0.221	0.475	0.330	0.109	0.019	0.092	0.696	0.551	0.660	0.570	0.643
FR1 n66_Ant 0	Right Cheek	0.108	0.292	0.506	0.063	0.050	0.091	0.400	0.614	0.677	0.664	0.705
	Right Tilted	0.114	0.267	0.396	0.047	0.025	0.076	0.381	0.510	0.557	0.535	0.586
	Left Cheek	0.311	0.606	0.299	0.146	0.039	0.179	0.917	0.610	0.756	0.649	0.789
	Left Tilted	0.102	0.475	0.330	0.109	0.019	0.092	0.577	0.432	0.541	0.451	0.524
FR1 n71_Ant 1	Right Cheek	0.364	0.292	0.506	0.063	0.050	0.091	0.656	0.870	0.933	0.920	0.961
	Right Tilted	0.398	0.267	0.396	0.047	0.025	0.076	0.665	0.794	0.841	0.819	0.870
	Left Cheek	0.225	0.606	0.299	0.146	0.039	0.179	0.831	0.524	0.670	0.563	0.703
	Left Tilted	0.239	0.475	0.330	0.109	0.019	0.092	0.714	0.569	0.678	0.588	0.661
FR1 n77_Ant 2	Right Cheek	0.055	0.292	0.506	0.063	0.050	0.091	0.347	0.561	0.624	0.611	0.652
	Right Tilted	0.044	0.267	0.396	0.047	0.025	0.076	0.311	0.44	0.487	0.465	0.516
	Left Cheek	0.049	0.606	0.299	0.146	0.039	0.179	0.655	0.348	0.494	0.387	0.527
	Left Tilted	0.048	0.475	0.330	0.109	0.019	0.092	0.523	0.378	0.487	0.397	0.470

**<WWAN Index 3, WLAN Index 4>**

WWAN Band	Exposure Position	1	5	7	1+5+7 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 7+3	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_Ant 0	Right Cheek	0.214	0.110	0.506	0.830
	Right Tilted	0.104	0.094	0.396	0.594
	Left Cheek	0.237	0.174	0.299	0.710
	Left Tilted	0.126	0.104	0.262	0.492
GSM1900_Ant 2	Right Cheek	0.187	0.110	0.506	0.803
	Right Tilted	0.074	0.094	0.396	0.564
	Left Cheek	0.091	0.174	0.299	0.564
	Left Tilted	0.005	0.104	0.330	0.439
WCDMA II_Ant 2	Right Cheek	0.225	0.110	0.506	0.841
	Right Tilted	0.078	0.094	0.396	0.568
	Left Cheek	0.105	0.174	0.299	0.578
	Left Tilted	0.101	0.104	0.330	0.535
WCDMA IV_Ant 2	Right Cheek	0.198	0.110	0.506	0.814
	Right Tilted	0.031	0.094	0.396	0.521
	Left Cheek	0.058	0.174	0.299	0.531
	Left Tilted	0.036	0.104	0.330	0.470
WCDMA V_Ant 0	Right Cheek	0.271	0.110	0.506	0.887
	Right Tilted	0.140	0.094	0.396	0.630
	Left Cheek	0.370	0.174	0.299	0.843
	Left Tilted	0.125	0.104	0.330	0.559
LTE Band 7_Ant 2	Right Cheek	0.279	0.110	0.506	0.895
	Right Tilted	0.181	0.094	0.396	0.671
	Left Cheek	0.238	0.174	0.299	0.711
	Left Tilted	0.203	0.104	0.330	0.637
LTE Band 12_Ant 0	Right Cheek	0.206	0.110	0.506	0.822
	Right Tilted	0.158	0.094	0.396	0.648
	Left Cheek	0.235	0.174	0.299	0.708
	Left Tilted	0.132	0.104	0.330	0.566
LTE Band 13_Ant 0	Right Cheek	0.208	0.110	0.506	0.824
	Right Tilted	0.172	0.094	0.396	0.662
	Left Cheek	0.322	0.174	0.299	0.795
	Left Tilted	0.139	0.104	0.330	0.573
LTE Band 14_Ant 0	Right Cheek	0.210	0.110	0.506	0.826
	Right Tilted	0.183	0.094	0.396	0.673
	Left Cheek	0.363	0.174	0.299	0.836
	Left Tilted	0.157	0.104	0.330	0.591
LTE Band 25_Ant 2	Right Cheek	0.306	0.110	0.506	0.922
	Right Tilted	0.059	0.094	0.396	0.549
	Left Cheek	0.121	0.174	0.299	0.594
	Left Tilted	0.098	0.104	0.330	0.532
LTE Band 26_Ant 0	Right Cheek	0.321	0.110	0.506	0.937
	Right Tilted	0.208	0.094	0.396	0.698
	Left Cheek	0.332	0.174	0.299	0.805
	Left Tilted	0.181	0.104	0.330	0.615
LTE Band 30_Ant 2	Right Cheek	0.136	0.110	0.506	0.752
	Right Tilted	0.051	0.094	0.396	0.541
	Left Cheek	0.091	0.174	0.299	0.564
	Left Tilted	0.065	0.104	0.330	0.499
LTE Band 41_Ant 2	Right Cheek	0.194	0.110	0.506	0.810
	Right Tilted	0.084	0.094	0.396	0.574
	Left Cheek	0.136	0.174	0.299	0.609



	Left Tilted	0.076	0.104	0.330	0.510
LTE Band 48_Ant 6	Right Cheek	0.187	0.110	0.506	0.803
	Right Tilted	0.182	0.094	0.396	0.672
	Left Cheek	0.347	0.174	0.299	0.820
	Left Tilted	0.101	0.104	0.330	0.535
LTE Band 66_Ant 2	Right Cheek	0.201	0.110	0.506	0.817
	Right Tilted	0.095	0.094	0.396	0.585
	Left Cheek	0.104	0.174	0.299	0.577
	Left Tilted	0.094	0.104	0.330	0.528
LTE Band 71_Ant 0	Right Cheek	0.112	0.110	0.506	0.728
	Right Tilted	0.089	0.094	0.396	0.579
	Left Cheek	0.230	0.174	0.299	0.703
	Left Tilted	0.150	0.104	0.330	0.584
FR1 n5_Ant 0	Right Cheek	0.224	0.110	0.506	0.840
	Right Tilted	0.142	0.094	0.396	0.632
	Left Cheek	0.305	0.174	0.299	0.778
	Left Tilted	0.186	0.104	0.330	0.620
FR1 n7_Ant 2	Right Cheek	0.301	0.110	0.506	0.917
	Right Tilted	0.117	0.094	0.396	0.607
	Left Cheek	0.173	0.174	0.299	0.646
	Left Tilted	0.146	0.104	0.330	0.580
FR1 n12_Ant 0	Right Cheek	0.219	0.110	0.506	0.835
	Right Tilted	0.134	0.094	0.396	0.624
	Left Cheek	0.254	0.174	0.299	0.727
	Left Tilted	0.148	0.104	0.330	0.582
FR1 n25_Ant 2	Right Cheek	0.295	0.110	0.506	0.911
	Right Tilted	0.134	0.094	0.396	0.624
	Left Cheek	0.124	0.174	0.299	0.597
	Left Tilted	0.133	0.104	0.330	0.567
FR1 n30_Ant 2	Right Cheek	0.228	0.110	0.506	0.844
	Right Tilted	0.144	0.094	0.396	0.634
	Left Cheek	0.159	0.174	0.299	0.632
	Left Tilted	0.101	0.104	0.330	0.535
FR1 n41_Ant 1	Right Cheek	0.780	0.110	0.506	1.396
	Right Tilted	0.897	0.094	0.396	1.387
	Left Cheek	0.301	0.174	0.299	0.774
	Left Tilted	0.334	0.104	0.330	0.768
FR1 n66_Ant 2	Right Cheek	0.210	0.110	0.506	0.826
	Right Tilted	0.097	0.094	0.396	0.587
	Left Cheek	0.108	0.174	0.299	0.581
	Left Tilted	0.110	0.104	0.330	0.544
FR1 n71_Ant 0	Right Cheek	0.192	0.110	0.506	0.808
	Right Tilted	0.112	0.094	0.396	0.602
	Left Cheek	0.151	0.174	0.299	0.624
	Left Tilted	0.114	0.104	0.330	0.548
FR1 n77_Ant 6	Right Cheek	0.347	0.110	0.506	0.963
	Right Tilted	0.311	0.094	0.396	0.801
	Left Cheek	0.615	0.174	0.299	1.088
	Left Tilted	0.225	0.104	0.330	0.659



<WWAN Index 3, WLAN Index 4>

WWAN Band	Exposure Position	1	5	7	1+5+7 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 7+3	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_Ant 1	Right Cheek	0.892	0.110	0.506	1.508
	Right Tilted	0.831	0.094	0.396	1.321
	Left Cheek	0.743	0.174	0.299	1.216
	Left Tilted	0.718	0.104	0.262	1.084
GSM1900_Ant 0	Right Cheek	0.078	0.110	0.506	0.694
	Right Tilted	0.054	0.094	0.396	0.544
	Left Cheek	0.216	0.174	0.299	0.689
	Left Tilted	0.065	0.104	0.262	0.431
WCDMA II_Ant 0	Right Cheek	0.129	0.110	0.506	0.745
	Right Tilted	0.113	0.094	0.396	0.603
	Left Cheek	0.303	0.174	0.299	0.776
	Left Tilted	0.127	0.104	0.262	0.493
WCDMA IV_Ant 0	Right Cheek	0.152	0.110	0.506	0.768
	Right Tilted	0.149	0.094	0.396	0.639
	Left Cheek	0.316	0.174	0.299	0.789
	Left Tilted	0.134	0.104	0.262	0.500
WCDMA V_Ant 1	Right Cheek	0.892	0.110	0.506	1.508
	Right Tilted	0.709	0.094	0.396	1.199
	Left Cheek	0.392	0.174	0.299	0.865
	Left Tilted	0.298	0.104	0.262	0.664
LTE Band 7_Ant 0	Right Cheek	0.178	0.110	0.506	0.794
	Right Tilted	0.212	0.094	0.396	0.702
	Left Cheek	0.366	0.174	0.299	0.839
	Left Tilted	0.133	0.104	0.262	0.499
LTE Band 12_Ant 1	Right Cheek	0.344	0.110	0.506	0.960
	Right Tilted	0.316	0.094	0.396	0.806
	Left Cheek	0.200	0.174	0.299	0.673
	Left Tilted	0.174	0.104	0.262	0.540
LTE Band 13_Ant 1	Right Cheek	0.430	0.110	0.506	1.046
	Right Tilted	0.349	0.094	0.396	0.839
	Left Cheek	0.282	0.174	0.299	0.755
	Left Tilted	0.265	0.104	0.262	0.631
LTE Band 14_Ant 1	Right Cheek	0.674	0.110	0.506	1.290
	Right Tilted	0.532	0.094	0.396	1.022
	Left Cheek	0.428	0.174	0.299	0.901
	Left Tilted	0.398	0.104	0.262	0.764
LTE Band 25_Ant 0	Right Cheek	0.123	0.110	0.506	0.739
	Right Tilted	0.077	0.094	0.396	0.567
	Left Cheek	0.381	0.174	0.299	0.854
	Left Tilted	0.175	0.104	0.262	0.541
LTE Band 26_Ant 1	Right Cheek	0.463	0.110	0.506	1.079
	Right Tilted	0.534	0.094	0.396	1.024
	Left Cheek	0.346	0.174	0.299	0.819
	Left Tilted	0.436	0.104	0.262	0.802
LTE Band 30_Ant 0	Right Cheek	0.118	0.110	0.506	0.734
	Right Tilted	0.083	0.094	0.396	0.573
	Left Cheek	0.240	0.174	0.299	0.713
	Left Tilted	0.113	0.104	0.262	0.479
LTE Band 41_Ant 0	Right Cheek	0.077	0.110	0.506	0.693
	Right Tilted	0.090	0.094	0.396	0.580
	Left Cheek	0.208	0.174	0.299	0.681



	Left Tilted	0.071	0.104	0.262	0.437
LTE Band 48_Ant 2	Right Cheek	0.117	0.110	0.506	0.733
	Right Tilted	0.001	0.094	0.396	0.491
	Left Cheek	0.048	0.174	0.299	0.521
	Left Tilted	0.049	0.104	0.262	0.415
LTE Band 66_Ant 0	Right Cheek	0.109	0.110	0.506	0.725
	Right Tilted	0.161	0.094	0.396	0.651
	Left Cheek	0.312	0.174	0.299	0.785
	Left Tilted	0.229	0.104	0.262	0.595
LTE Band 71_Ant 1	Right Cheek	0.310	0.110	0.506	0.926
	Right Tilted	0.200	0.094	0.396	0.690
	Left Cheek	0.189	0.174	0.299	0.662
	Left Tilted	0.136	0.104	0.262	0.502
FR1 n5_Ant 1	Right Cheek	0.718	0.110	0.506	1.334
	Right Tilted	0.709	0.094	0.396	1.199
	Left Cheek	0.497	0.174	0.299	0.970
	Left Tilted	0.512	0.104	0.262	0.878
FR1 n7_Ant 0	Right Cheek	0.185	0.110	0.506	0.801
	Right Tilted	0.220	0.094	0.396	0.710
	Left Cheek	0.557	0.174	0.299	1.030
	Left Tilted	0.131	0.104	0.262	0.497
FR1 n12_Ant 1	Right Cheek	0.526	0.110	0.506	1.142
	Right Tilted	0.443	0.094	0.396	0.933
	Left Cheek	0.255	0.174	0.299	0.728
	Left Tilted	0.294	0.104	0.262	0.660
FR1 n25_Ant 0	Right Cheek	0.222	0.110	0.506	0.838
	Right Tilted	0.174	0.094	0.396	0.664
	Left Cheek	0.438	0.174	0.299	0.911
	Left Tilted	0.188	0.104	0.262	0.554
FR1 n30_Ant 0	Right Cheek	0.172	0.110	0.506	0.788
	Right Tilted	0.134	0.094	0.396	0.624
	Left Cheek	0.353	0.174	0.299	0.826
	Left Tilted	0.180	0.104	0.262	0.546
FR1 n41_Ant 5	Right Cheek	0.253	0.110	0.506	0.869
	Right Tilted	0.108	0.094	0.396	0.598
	Left Cheek	0.888	0.174	0.299	1.361
	Left Tilted	0.221	0.104	0.262	0.587
FR1 n66_Ant 0	Right Cheek	0.108	0.110	0.506	0.724
	Right Tilted	0.114	0.094	0.396	0.604
	Left Cheek	0.311	0.174	0.299	0.784
	Left Tilted	0.102	0.104	0.262	0.468
FR1 n71_Ant 1	Right Cheek	0.364	0.110	0.506	0.980
	Right Tilted	0.398	0.094	0.396	0.888
	Left Cheek	0.225	0.174	0.299	0.698
	Left Tilted	0.239	0.104	0.262	0.605
FR1 n77_Ant 2	Right Cheek	0.055	0.110	0.506	0.671
	Right Tilted	0.044	0.094	0.396	0.534
	Left Cheek	0.049	0.174	0.299	0.522
	Left Tilted	0.048	0.104	0.262	0.414

12.3 Body-Worn Accessory Exposure Conditions

<WLAN Index 5, BT Index 3>

Exposure Position	1	2	3	4	5	2+3 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	2+5 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 4+3 1g SAR (W/kg)	5/6GHz WLAN Ant 7+3 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 3+4 1g SAR (W/kg)			
Front at 10mm	0.532	0.202	0.008	0.109	0.108	0.211	0.333	0.332
Back at 10mm	0.823	1.127	0.241	0.200	0.131	1.433	1.367	1.284

<WLAN Index 6>

Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 7+3	
	1g SAR (W/kg)	1g SAR (W/kg)	
Front at 10mm -	0.374	0.161	0.535
Back at 10mm -	0.546	0.999	1.545



<WWAN Index 6, WLAN Index 7>

WWAN Band	Exposure Position	1	5	7	1+5 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 7+3		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850_Ant 0	Front	0.151	0.269	0.109	0.420	0.260
	Back	0.494	0.369	0.492	0.863	0.986
GSM1900_Ant 2	Front	0.409	0.269	0.109	0.678	0.518
	Back	0.607	0.369	0.492	0.976	1.099
WCDMA II_Ant 2	Front	0.588	0.269	0.109	0.857	0.697
	Back	0.898	0.369	0.492	1.267	1.390
WCDMA IV_Ant 2	Front	0.573	0.269	0.109	0.842	0.682
	Back	0.887	0.369	0.492	1.256	1.379
WCDMA V_Ant 0	Front	0.261	0.269	0.109	0.530	0.370
	Back	0.363	0.369	0.492	0.732	0.855
LTE Band 7_Ant 2	Front	0.619	0.269	0.109	0.888	0.728
	Back	0.903	0.369	0.492	1.272	1.395
LTE Band 12_Ant 0	Front	0.199	0.269	0.109	0.468	0.308
	Back	0.313	0.369	0.492	0.682	0.805
LTE Band 13_Ant 0	Front	0.318	0.269	0.109	0.587	0.427
	Back	0.341	0.369	0.492	0.710	0.833
LTE Band 14_Ant 0	Front	0.256	0.269	0.109	0.525	0.365
	Back	0.328	0.369	0.492	0.697	0.820
LTE Band 25_Ant 2	Front	0.641	0.269	0.109	0.910	0.750
	Back	0.746	0.369	0.492	1.115	1.238
LTE Band 26_Ant 0	Front	0.299	0.269	0.109	0.568	0.408
	Back	0.375	0.369	0.492	0.744	0.867
LTE Band 30_Ant 2	Front	0.591	0.269	0.109	0.860	0.700
	Back	0.900	0.369	0.492	1.269	1.392
LTE Band 41_Ant 2	Front	0.560	0.269	0.109	0.829	0.669
	Back	0.898	0.369	0.492	1.267	1.390
LTE Band 48_Ant 6	Front	0.434	0.269	0.109	0.703	0.543
	Back	0.891	0.369	0.492	1.260	1.383
LTE Band 66_Ant 2	Front	0.646	0.269	0.109	0.915	0.755
	Back	0.821	0.369	0.492	1.190	1.313
LTE Band 71_Ant 0	Front	0.245	0.269	0.109	0.514	0.354
	Back	0.324	0.369	0.492	0.693	0.816
FR1 n5_Ant 0	Front	0.229	0.269	0.109	0.498	0.338
	Back	0.404	0.369	0.492	0.773	0.896
FR1 n7_Ant 2	Front	0.491	0.269	0.109	0.760	0.600
	Back	0.895	0.369	0.492	1.264	1.387
FR1 n12_Ant 0	Front	0.230	0.269	0.109	0.499	0.339
	Back	0.249	0.369	0.492	0.618	0.741
FR1 n25_Ant 2	Front	0.689	0.269	0.109	0.958	0.798
	Back	0.717	0.369	0.492	1.086	1.209
FR1 n30_Ant 2	Front	0.579	0.269	0.109	0.848	0.688
	Back	0.898	0.369	0.492	1.267	1.390
FR1 n41_Ant 1	Front	0.471	0.269	0.109	0.740	0.580
	Back	0.891	0.369	0.492	1.260	1.383
FR1 n66_Ant 2	Front	0.584	0.269	0.109	0.853	0.693
	Back	0.860	0.369	0.492	1.229	1.352
FR1 n71_Ant 0	Front	0.268	0.269	0.109	0.537	0.377
	Back	0.288	0.369	0.492	0.657	0.780
FR1 n77_Ant 6	Front	0.445	0.269	0.109	0.714	0.554
	Back	0.797	0.369	0.492	1.166	1.289



<WWAN Index 6, WLAN Index 7>

WWAN Band	Exposure Position	1	5	7	1+5 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 7+3		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850_Ant 1	Front	0.234	0.269	0.109	0.503	0.343
	Back	0.502	0.369	0.492	0.871	0.994
GSM1900_Ant 0	Front	0.390	0.269	0.109	0.659	0.499
	Back	0.688	0.369	0.492	1.057	1.180
WCDMA II_Ant 0	Front	0.397	0.269	0.109	0.666	0.506
	Back	0.903	0.369	0.492	1.272	1.395
WCDMA IV_Ant 0	Front	0.320	0.269	0.109	0.589	0.429
	Back	0.606	0.369	0.492	0.975	1.098
WCDMA V_Ant 1	Front	0.185	0.269	0.109	0.454	0.294
	Back	0.366	0.369	0.492	0.735	0.858
LTE Band 7_Ant 0	Front	0.470	0.269	0.109	0.739	0.579
	Back	0.680	0.369	0.492	1.049	1.172
LTE Band 12_Ant 1	Front	0.164	0.269	0.109	0.433	0.273
	Back	0.283	0.369	0.492	0.652	0.775
LTE Band 13_Ant 1	Front	0.164	0.269	0.109	0.433	0.273
	Back	0.305	0.369	0.492	0.674	0.797
LTE Band 14_Ant 1	Front	0.150	0.269	0.109	0.419	0.259
	Back	0.286	0.369	0.492	0.655	0.778
LTE Band 25_Ant 0	Front	0.340	0.269	0.109	0.609	0.449
	Back	0.903	0.369	0.492	1.272	1.395
LTE Band 26_Ant 1	Front	0.195	0.269	0.109	0.464	0.304
	Back	0.358	0.369	0.492	0.727	0.850
LTE Band 30_Ant 0	Front	0.340	0.269	0.109	0.609	0.449
	Back	0.529	0.369	0.492	0.898	1.021
LTE Band 41_Ant 0	Front	0.319	0.269	0.109	0.588	0.428
	Back	0.429	0.369	0.492	0.798	0.921
LTE Band 48_Ant 2	Front	0.159	0.269	0.109	0.428	0.268
	Back	0.132	0.369	0.492	0.501	0.624
LTE Band 66_Ant 0	Front	0.315	0.269	0.109	0.584	0.424
	Back	0.891	0.369	0.492	1.260	1.383
LTE Band 71_Ant 1	Front	0.129	0.269	0.109	0.398	0.238
	Back	0.238	0.369	0.492	0.607	0.730
FR1 n5_Ant 1	Front	0.196	0.269	0.109	0.465	0.305
	Back	0.382	0.369	0.492	0.751	0.874
FR1 n7_Ant 0	Front	0.249	0.269	0.109	0.518	0.358
	Back	0.528	0.369	0.492	0.897	1.020
FR1 n12_Ant 1	Front	0.146	0.269	0.109	0.415	0.255
	Back	0.290	0.369	0.492	0.659	0.782
FR1 n25_Ant 0	Front	0.567	0.269	0.109	0.836	0.676
	Back	0.903	0.369	0.492	1.272	1.395
FR1 n30_Ant 0	Front	0.457	0.269	0.109	0.726	0.566
	Back	0.489	0.369	0.492	0.858	0.981
FR1 n41_Ant 5	Front	0.338	0.269	0.109	0.607	0.447
	Back	0.637	0.369	0.492	1.006	1.129
FR1 n66_Ant 0	Front	0.611	0.269	0.109	0.880	0.720
	Back	0.846	0.369	0.492	1.215	1.338
FR1 n71_Ant 1	Front	0.130	0.269	0.109	0.399	0.239
	Back	0.243	0.369	0.492	0.612	0.735
FR1 n77_Ant 2	Front	0.166	0.269	0.109	0.435	0.275
	Back	0.230	0.369	0.492	0.599	0.722



<WWAN Index 6, WLAN Index 9, BT Index 4>

WWAN Band	Exposure Position	1	7	9	10	11	1+7+9 Summed 1g SAR (W/kg)	1+7+10 Summed 1g SAR (W/kg)	1+7+11 Summed 1g SAR (W/kg)
		WWAN	5/6GHz WLAN Ant 7+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3			
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM850_Ant 0	Front	0.151	0.097	0.006	0.077	0.108	0.254	0.325	0.356
	Back	0.494	0.439	0.162	0.141	0.131	1.095	1.074	1.064
GSM1900_Ant 2	Front	0.409	0.097	0.006	0.077	0.108	0.512	0.583	0.614
	Back	0.607	0.439	0.162	0.141	0.131	1.208	1.187	1.177
WCDMA II_Ant 2	Front	0.588	0.097	0.006	0.077	0.108	0.691	0.762	0.793
	Back	0.898	0.439	0.162	0.141	0.131	1.499	1.478	1.468
WCDMA IV_Ant 2	Front	0.573	0.097	0.006	0.077	0.108	0.676	0.747	0.778
	Back	0.887	0.439	0.162	0.141	0.131	1.488	1.467	1.457
WCDMA V_Ant 0	Front	0.261	0.097	0.006	0.077	0.108	0.364	0.435	0.466
	Back	0.363	0.439	0.162	0.141	0.131	0.964	0.943	0.933
LTE Band 7_Ant 2	Front	0.619	0.097	0.006	0.077	0.108	0.722	0.793	0.824
	Back	0.903	0.439	0.162	0.141	0.131	1.504	1.483	1.473
LTE Band 12_Ant 0	Front	0.199	0.097	0.006	0.077	0.108	0.302	0.373	0.404
	Back	0.313	0.439	0.162	0.141	0.131	0.914	0.893	0.883
LTE Band 13_Ant 0	Front	0.318	0.097	0.006	0.077	0.108	0.421	0.492	0.523
	Back	0.341	0.439	0.162	0.141	0.131	0.942	0.921	0.911
LTE Band 14_Ant 0	Front	0.256	0.097	0.006	0.077	0.108	0.359	0.430	0.461
	Back	0.328	0.439	0.162	0.141	0.131	0.929	0.908	0.898
LTE Band 25_Ant 2	Front	0.641	0.097	0.006	0.077	0.108	0.744	0.815	0.846
	Back	0.746	0.439	0.162	0.141	0.131	1.347	1.326	1.316
LTE Band 26_Ant 0	Front	0.299	0.097	0.006	0.077	0.108	0.402	0.473	0.504
	Back	0.375	0.439	0.162	0.141	0.131	0.976	0.955	0.945
LTE Band 30_Ant 2	Front	0.591	0.097	0.006	0.077	0.108	0.694	0.765	0.796
	Back	0.900	0.439	0.162	0.141	0.131	1.501	1.480	1.470
LTE Band 41_Ant 2	Front	0.560	0.097	0.006	0.077	0.108	0.663	0.734	0.765
	Back	0.898	0.439	0.162	0.141	0.131	1.499	1.478	1.468
LTE Band 48_Ant 6	Front	0.434	0.097	0.006	0.077	0.108	0.537	0.608	0.639
	Back	0.891	0.439	0.162	0.141	0.131	1.492	1.471	1.461
LTE Band 66_Ant 2	Front	0.646	0.097	0.006	0.077	0.108	0.749	0.820	0.851
	Back	0.821	0.439	0.162	0.141	0.131	1.422	1.401	1.391
LTE Band 71_Ant 0	Front	0.245	0.097	0.006	0.077	0.108	0.348	0.419	0.450
	Back	0.324	0.439	0.162	0.141	0.131	0.925	0.904	0.894
FR1 n5_Ant 0	Front	0.229	0.097	0.006	0.077	0.108	0.332	0.403	0.434
	Back	0.404	0.439	0.162	0.141	0.131	1.005	0.984	0.974
FR1 n7_Ant 2	Front	0.491	0.097	0.006	0.077	0.108	0.594	0.665	0.696
	Back	0.895	0.439	0.162	0.141	0.131	1.496	1.475	1.465
FR1 n12_Ant 0	Front	0.230	0.097	0.006	0.077	0.108	0.333	0.404	0.435
	Back	0.249	0.439	0.162	0.141	0.131	0.850	0.829	0.819
FR1 n25_Ant 2	Front	0.689	0.097	0.006	0.077	0.108	0.792	0.863	0.894
	Back	0.717	0.439	0.162	0.141	0.131	1.318	1.297	1.287
FR1 n30_Ant 2	Front	0.579	0.097	0.006	0.077	0.108	0.682	0.753	0.784
	Back	0.898	0.439	0.162	0.141	0.131	1.499	1.478	1.468
FR1 n41_Ant 1	Front	0.471	0.097	0.006	0.077	0.108	0.574	0.645	0.676
	Back	0.891	0.439	0.162	0.141	0.131	1.492	1.471	1.461
FR1 n66_Ant 2	Front	0.584	0.097	0.006	0.077	0.108	0.687	0.758	0.789
	Back	0.860	0.439	0.162	0.141	0.131	1.461	1.440	1.430
FR1 n71_Ant 0	Front	0.268	0.097	0.006	0.077	0.108	0.371	0.442	0.473
	Back	0.288	0.439	0.162	0.141	0.131	0.889	0.868	0.858
FR1 n77_Ant 6	Front	0.445	0.097	0.006	0.077	0.108	0.548	0.619	0.650
	Back	0.797	0.439	0.162	0.141	0.131	1.398	1.377	1.367



<WWAN Index 6, WLAN Index 9, BT Index 4>

WWAN Band	Exposure Position	1	7	9	10	11	1+7+9 Summed 1g SAR (W/kg)	1+7+10 Summed 1g SAR (W/kg)	1+7+11 Summed 1g SAR (W/kg)
		WWAN	5/6GHz WLAN Ant 7+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3			
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM850_Ant 1	Front	0.234	0.109	0.006	0.077	0.108	0.349	0.420	0.451
	Back	0.502	0.492	0.162	0.141	0.131	1.156	1.135	1.125
GSM1900_Ant 0	Front	0.390	0.109	0.006	0.077	0.108	0.505	0.576	0.607
	Back	0.688	0.492	0.162	0.141	0.131	1.342	1.321	1.311
WCDMA II_Ant 0	Front	0.397	0.109	0.006	0.077	0.108	0.512	0.583	0.614
	Back	0.903	0.492	0.162	0.141	0.131	1.557	1.536	1.526
WCDMA IV_Ant 0	Front	0.320	0.109	0.006	0.077	0.108	0.435	0.506	0.537
	Back	0.606	0.492	0.162	0.141	0.131	1.260	1.239	1.229
WCDMA V_Ant 1	Front	0.185	0.109	0.006	0.077	0.108	0.300	0.371	0.402
	Back	0.366	0.492	0.162	0.141	0.131	1.020	0.999	0.989
LTE Band 7_Ant 0	Front	0.470	0.109	0.006	0.077	0.108	0.585	0.656	0.687
	Back	0.680	0.492	0.162	0.141	0.131	1.334	1.313	1.303
LTE Band 12_Ant 1	Front	0.164	0.109	0.006	0.077	0.108	0.279	0.350	0.381
	Back	0.283	0.492	0.162	0.141	0.131	0.937	0.916	0.906
LTE Band 13_Ant 1	Front	0.164	0.109	0.006	0.077	0.108	0.279	0.350	0.381
	Back	0.305	0.492	0.162	0.141	0.131	0.959	0.938	0.928
LTE Band 14_Ant 1	Front	0.150	0.109	0.006	0.077	0.108	0.265	0.336	0.367
	Back	0.286	0.492	0.162	0.141	0.131	0.940	0.919	0.909
LTE Band 25_Ant 0	Front	0.340	0.109	0.006	0.077	0.108	0.455	0.526	0.557
	Back	0.903	0.492	0.162	0.141	0.131	1.557	1.536	1.526
LTE Band 26_Ant 1	Front	0.195	0.109	0.006	0.077	0.108	0.310	0.381	0.412
	Back	0.358	0.492	0.162	0.141	0.131	1.012	0.991	0.981
LTE Band 30_Ant 0	Front	0.340	0.109	0.006	0.077	0.108	0.455	0.526	0.557
	Back	0.529	0.492	0.162	0.141	0.131	1.183	1.162	1.152
LTE Band 41_Ant 0	Front	0.319	0.109	0.006	0.077	0.108	0.434	0.505	0.536
	Back	0.429	0.492	0.162	0.141	0.131	1.083	1.062	1.052
LTE Band 48_Ant 2	Front	0.159	0.109	0.006	0.077	0.108	0.274	0.345	0.376
	Back	0.132	0.492	0.162	0.141	0.131	0.786	0.765	0.755
LTE Band 66_Ant 0	Front	0.315	0.109	0.006	0.077	0.108	0.430	0.501	0.532
	Back	0.891	0.492	0.162	0.141	0.131	1.545	1.524	1.514
LTE Band 71_Ant 1	Front	0.129	0.109	0.006	0.077	0.108	0.244	0.315	0.346
	Back	0.238	0.492	0.162	0.141	0.131	0.892	0.871	0.861
FR1 n5_Ant 1	Front	0.196	0.109	0.006	0.077	0.108	0.311	0.382	0.413
	Back	0.382	0.492	0.162	0.141	0.131	1.036	1.015	1.005
FR1 n7_Ant 0	Front	0.249	0.109	0.006	0.077	0.108	0.364	0.435	0.466
	Back	0.528	0.492	0.162	0.141	0.131	1.182	1.161	1.151
FR1 n12_Ant 1	Front	0.146	0.109	0.006	0.077	0.108	0.261	0.332	0.363
	Back	0.290	0.492	0.162	0.141	0.131	0.944	0.923	0.913
FR1 n25_Ant 0	Front	0.567	0.109	0.006	0.077	0.108	0.682	0.753	0.784
	Back	0.903	0.492	0.162	0.141	0.131	1.557	1.536	1.526
FR1 n30_Ant 0	Front	0.457	0.109	0.006	0.077	0.108	0.572	0.643	0.674
	Back	0.489	0.492	0.162	0.141	0.131	1.143	1.122	1.112
FR1 n41_Ant 5	Front	0.338	0.109	0.006	0.077	0.108	0.453	0.524	0.555
	Back	0.637	0.492	0.162	0.141	0.131	1.291	1.270	1.260
FR1 n66_Ant 0	Front	0.611	0.109	0.006	0.077	0.108	0.726	0.797	0.828
	Back	0.846	0.492	0.162	0.141	0.131	1.500	1.479	1.469
FR1 n71_Ant 1	Front	0.130	0.109	0.006	0.077	0.108	0.245	0.316	0.347
	Back	0.243	0.492	0.162	0.141	0.131	0.897	0.876	0.866
FR1 n77_Ant 2	Front	0.166	0.109	0.006	0.077	0.108	0.281	0.352	0.353
	Back	0.241	0.492	0.162	0.141	0.131	0.884	0.863	0.853



<WWAN Index 6, WLAN Index 8>

WWAN Band	Exposure Position	1	5	7	1+5+7 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 7+3	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_Ant 0	Front	0.151	0.133	0.097	0.381
	Back	0.494	0.196	0.439	1.129
GSM1900_Ant 2	Front	0.409	0.133	0.097	0.639
	Back	0.607	0.196	0.439	1.242
WCDMA II_Ant 2	Front	0.588	0.133	0.097	0.818
	Back	0.898	0.196	0.439	1.533
WCDMA IV_Ant 2	Front	0.573	0.133	0.097	0.803
	Back	0.887	0.196	0.439	1.522
WCDMA V_Ant 0	Front	0.261	0.133	0.097	0.491
	Back	0.363	0.196	0.439	0.998
LTE Band 7_Ant 2	Front	0.619	0.133	0.097	0.849
	Back	0.903	0.196	0.439	1.538
LTE Band 12_Ant 0	Front	0.199	0.133	0.097	0.429
	Back	0.313	0.196	0.439	0.948
LTE Band 13_Ant 0	Front	0.318	0.133	0.097	0.548
	Back	0.341	0.196	0.439	0.976
LTE Band 14_Ant 0	Front	0.256	0.133	0.097	0.486
	Back	0.328	0.196	0.439	0.963
LTE Band 25_Ant 2	Front	0.641	0.133	0.097	0.871
	Back	0.746	0.196	0.439	1.381
LTE Band 26_Ant 0	Front	0.299	0.133	0.097	0.529
	Back	0.375	0.196	0.439	1.010
LTE Band 30_Ant 2	Front	0.591	0.133	0.097	0.821
	Back	0.900	0.196	0.439	1.535
LTE Band 41_Ant 2	Front	0.560	0.133	0.097	0.790
	Back	0.898	0.196	0.439	1.533
LTE Band 48_Ant 6	Front	0.434	0.133	0.097	0.664
	Back	0.891	0.196	0.439	1.526
LTE Band 66_Ant 2	Front	0.646	0.133	0.097	0.876
	Back	0.821	0.196	0.439	1.456
LTE Band 71_Ant 0	Front	0.245	0.133	0.097	0.475
	Back	0.324	0.196	0.439	0.959
FR1 n5_Ant 0	Front	0.229	0.133	0.097	0.459
	Back	0.404	0.196	0.439	1.039
FR1 n7_Ant 2	Front	0.491	0.133	0.097	0.721
	Back	0.895	0.196	0.439	1.530
FR1 n12_Ant 0	Front	0.230	0.133	0.097	0.460
	Back	0.249	0.196	0.439	0.884
FR1 n25_Ant 2	Front	0.689	0.133	0.097	0.919
	Back	0.717	0.196	0.439	1.352
FR1 n30_Ant 2	Front	0.579	0.133	0.097	0.809
	Back	0.898	0.196	0.439	1.533
FR1 n41_Ant 1	Front	0.471	0.133	0.097	0.701
	Back	0.891	0.196	0.439	1.526
FR1 n66_Ant 2	Front	0.584	0.133	0.097	0.814
	Back	0.860	0.196	0.439	1.495
FR1 n71_Ant 0	Front	0.268	0.133	0.097	0.498
	Back	0.288	0.196	0.439	0.923
FR1 n77_Ant 6	Front	0.445	0.133	0.097	0.675
	Back	0.797	0.196	0.439	1.432



<WWAN Index 6, WLAN Index 8>

WWAN Band	Exposure Position	1	5	7	1+5+7 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 7+3	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_Ant 1	Front	0.234	0.133	0.097	0.464
	Back	0.502	0.196	0.439	1.137
GSM1900_Ant 0	Front	0.390	0.133	0.097	0.620
	Back	0.688	0.196	0.439	1.323
WCDMA II_Ant 0	Front	0.397	0.133	0.097	0.627
	Back	0.903	0.196	0.439	1.538
WCDMA IV_Ant 0	Front	0.320	0.133	0.097	0.550
	Back	0.606	0.196	0.439	1.241
WCDMA V_Ant 1	Front	0.185	0.133	0.097	0.415
	Back	0.366	0.196	0.439	1.001
LTE Band 7_Ant 0	Front	0.470	0.133	0.097	0.700
	Back	0.680	0.196	0.439	1.315
LTE Band 12_Ant 1	Front	0.164	0.133	0.097	0.394
	Back	0.283	0.196	0.439	0.918
LTE Band 13_Ant 1	Front	0.164	0.133	0.097	0.394
	Back	0.305	0.196	0.439	0.940
LTE Band 14_Ant 1	Front	0.150	0.133	0.097	0.380
	Back	0.286	0.196	0.439	0.921
LTE Band 25_Ant 0	Front	0.340	0.133	0.097	0.570
	Back	0.903	0.196	0.439	1.538
LTE Band 26_Ant 1	Front	0.195	0.133	0.097	0.425
	Back	0.358	0.196	0.439	0.993
LTE Band 30_Ant 0	Front	0.340	0.133	0.097	0.570
	Back	0.529	0.196	0.439	1.164
LTE Band 41_Ant 0	Front	0.319	0.133	0.097	0.549
	Back	0.429	0.196	0.439	1.064
LTE Band 48_Ant 2	Front	0.159	0.133	0.097	0.389
	Back	0.132	0.196	0.439	0.767
LTE Band 66_Ant 0	Front	0.315	0.133	0.097	0.545
	Back	0.891	0.196	0.439	1.526
LTE Band 71_Ant 1	Front	0.129	0.133	0.097	0.359
	Back	0.238	0.196	0.439	0.873
FR1 n5_Ant 1	Front	0.196	0.133	0.097	0.426
	Back	0.382	0.196	0.439	1.017
FR1 n7_Ant 0	Front	0.249	0.133	0.097	0.479
	Back	0.528	0.196	0.439	1.163
FR1 n12_Ant 1	Front	0.146	0.133	0.097	0.376
	Back	0.290	0.196	0.439	0.925
FR1 n25_Ant 0	Front	0.567	0.133	0.097	0.797
	Back	0.903	0.196	0.439	1.538
FR1 n30_Ant 0	Front	0.457	0.133	0.097	0.687
	Back	0.489	0.196	0.439	1.124
FR1 n41_Ant 5	Front	0.338	0.133	0.097	0.568
	Back	0.637	0.196	0.439	1.272
FR1 n66_Ant 0	Front	0.611	0.133	0.097	0.841
	Back	0.846	0.196	0.439	1.481
FR1 n71_Ant 1	Front	0.130	0.133	0.097	0.360
	Back	0.243	0.196	0.439	0.878
FR1 n77_Ant 2	Front	0.166	0.133	0.097	0.386
	Back	0.230	0.196	0.439	0.865



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WWAN Band	Exposure Position	1	9	10	11	1+9 Summed 1g SAR (W/kg)	1+10 Summed 1g SAR (W/kg)	1+11 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 4+3 1g SAR (W/kg)			
GSM850_Ant 0	Front	0.151	0.008	0.109	0.108	0.159	0.260	0.259
	Back	0.494	0.255	0.200	0.131	0.749	0.694	0.625
GSM1900_Ant 2	Front	0.409	0.008	0.109	0.108	0.417	0.518	0.517
	Back	0.607	0.255	0.200	0.131	0.862	0.807	0.738
WCDMA II_Ant 2	Front	0.588	0.008	0.109	0.108	0.596	0.697	0.696
	Back	0.898	0.255	0.200	0.131	1.153	1.098	1.029
WCDMA IV_Ant 2	Front	0.573	0.008	0.109	0.108	0.581	0.682	0.681
	Back	0.887	0.255	0.200	0.131	1.142	1.087	1.018
WCDMA V_Ant 0	Front	0.261	0.008	0.109	0.108	0.269	0.370	0.369
	Back	0.363	0.255	0.200	0.131	0.618	0.563	0.494
LTE Band 7_Ant 2	Front	0.619	0.008	0.109	0.108	0.627	0.728	0.727
	Back	0.903	0.255	0.200	0.131	1.158	1.103	1.034
LTE Band 12_Ant 0	Front	0.199	0.008	0.109	0.108	0.207	0.308	0.307
	Back	0.313	0.255	0.200	0.131	0.568	0.513	0.444
LTE Band 13_Ant 0	Front	0.318	0.008	0.109	0.108	0.326	0.427	0.426
	Back	0.341	0.255	0.200	0.131	0.596	0.541	0.472
LTE Band 14_Ant 0	Front	0.256	0.008	0.109	0.108	0.264	0.365	0.364
	Back	0.328	0.255	0.200	0.131	0.583	0.528	0.459
LTE Band 25_Ant 2	Front	0.641	0.008	0.109	0.108	0.649	0.750	0.749
	Back	0.746	0.255	0.200	0.131	1.001	0.946	0.877
LTE Band 26_Ant 0	Front	0.299	0.008	0.109	0.108	0.307	0.408	0.407
	Back	0.375	0.255	0.200	0.131	0.630	0.575	0.506
LTE Band 30_Ant 2	Front	0.591	0.008	0.109	0.108	0.599	0.700	0.699
	Back	0.900	0.255	0.200	0.131	1.155	1.100	1.031
LTE Band 41_Ant 2	Front	0.560	0.008	0.109	0.108	0.568	0.669	0.668
	Back	0.898	0.255	0.200	0.131	1.153	1.098	1.029
LTE Band 48_Ant 6	Front	0.434	0.008	0.109	0.108	0.442	0.543	0.542
	Back	0.891	0.255	0.200	0.131	1.146	1.091	1.022
LTE Band 66_Ant 2	Front	0.646	0.008	0.109	0.108	0.654	0.755	0.754
	Back	0.821	0.255	0.200	0.131	1.076	1.021	0.952
LTE Band 71_Ant 0	Front	0.245	0.008	0.109	0.108	0.253	0.354	0.353
	Back	0.324	0.255	0.200	0.131	0.579	0.524	0.455
FR1 n5_Ant 0	Front	0.229	0.008	0.109	0.108	0.237	0.338	0.337
	Back	0.404	0.255	0.200	0.131	0.659	0.604	0.535
FR1 n7_Ant 2	Front	0.491	0.008	0.109	0.108	0.499	0.600	0.599
	Back	0.895	0.255	0.200	0.131	1.150	1.095	1.026
FR1 n12_Ant 0	Front	0.230	0.008	0.109	0.108	0.238	0.339	0.338
	Back	0.249	0.255	0.200	0.131	0.504	0.449	0.380
FR1 n25_Ant 2	Front	0.689	0.008	0.109	0.108	0.697	0.798	0.797
	Back	0.717	0.255	0.200	0.131	0.972	0.917	0.848
FR1 n30_Ant 2	Front	0.579	0.008	0.109	0.108	0.587	0.688	0.687
	Back	0.898	0.255	0.200	0.131	1.153	1.098	1.029
FR1 n41_Ant 1	Front	0.471	0.008	0.109	0.108	0.479	0.580	0.579
	Back	0.891	0.255	0.200	0.131	1.146	1.091	1.022
FR1 n66_Ant 2	Front	0.584	0.008	0.109	0.108	0.592	0.693	0.692
	Back	0.860	0.255	0.200	0.131	1.115	1.060	0.991
FR1 n71_Ant 0	Front	0.268	0.008	0.109	0.108	0.276	0.377	0.376
	Back	0.288	0.255	0.200	0.131	0.543	0.488	0.419
FR1 n77_Ant 6	Front	0.445	0.008	0.109	0.108	0.453	0.554	0.553
	Back	0.797	0.255	0.200	0.131	1.052	0.997	0.928



WWAN Band	Exposure Position	1	9	10	11	1+9 Summed 1g SAR (W/kg)	1+10 Summed 1g SAR (W/kg)	1+11 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3			
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM850_Ant 1	Front	0.234	0.008	0.109	0.108	0.242	0.343	0.342
	Back	0.502	0.255	0.200	0.131	0.757	0.702	0.633
GSM1900_Ant 0	Front	0.390	0.008	0.109	0.108	0.398	0.499	0.498
	Back	0.688	0.255	0.200	0.131	0.943	0.888	0.819
WCDMA II_Ant 0	Front	0.397	0.008	0.109	0.108	0.405	0.506	0.505
	Back	0.903	0.255	0.200	0.131	1.158	1.103	1.034
WCDMA IV_Ant 0	Front	0.320	0.008	0.109	0.108	0.328	0.429	0.428
	Back	0.606	0.255	0.200	0.131	0.861	0.806	0.737
WCDMA V_Ant 1	Front	0.185	0.008	0.109	0.108	0.193	0.294	0.293
	Back	0.366	0.255	0.200	0.131	0.621	0.566	0.497
LTE Band 7_Ant 0	Front	0.470	0.008	0.109	0.108	0.478	0.579	0.578
	Back	0.680	0.255	0.200	0.131	0.935	0.880	0.811
LTE Band 12_Ant 1	Front	0.164	0.008	0.109	0.108	0.172	0.273	0.272
	Back	0.283	0.255	0.200	0.131	0.538	0.483	0.414
LTE Band 13_Ant 1	Front	0.164	0.008	0.109	0.108	0.172	0.273	0.272
	Back	0.305	0.255	0.200	0.131	0.560	0.505	0.436
LTE Band 14_Ant 1	Front	0.150	0.008	0.109	0.108	0.158	0.259	0.258
	Back	0.286	0.255	0.200	0.131	0.541	0.486	0.417
LTE Band 25_Ant 0	Front	0.340	0.008	0.109	0.108	0.348	0.449	0.448
	Back	0.903	0.255	0.200	0.131	1.158	1.103	1.034
LTE Band 26_Ant 1	Front	0.195	0.008	0.109	0.108	0.203	0.304	0.303
	Back	0.358	0.255	0.200	0.131	0.613	0.558	0.489
LTE Band 30_Ant 0	Front	0.340	0.008	0.109	0.108	0.348	0.449	0.448
	Back	0.529	0.255	0.200	0.131	0.784	0.729	0.660
LTE Band 41_Ant 0	Front	0.319	0.008	0.109	0.108	0.327	0.428	0.427
	Back	0.429	0.255	0.200	0.131	0.684	0.629	0.560
LTE Band 48_Ant 2	Front	0.159	0.008	0.109	0.108	0.167	0.268	0.267
	Back	0.132	0.255	0.200	0.131	0.387	0.332	0.263
LTE Band 66_Ant 0	Front	0.315	0.008	0.109	0.108	0.323	0.424	0.423
	Back	0.891	0.255	0.200	0.131	1.146	1.091	1.022
LTE Band 71_Ant 1	Front	0.129	0.008	0.109	0.108	0.137	0.238	0.237
	Back	0.238	0.255	0.200	0.131	0.493	0.438	0.369
FR1 n5_Ant 1	Front	0.196	0.008	0.109	0.108	0.204	0.305	0.304
	Back	0.382	0.255	0.200	0.131	0.637	0.582	0.513
FR1 n7_Ant 0	Front	0.249	0.008	0.109	0.108	0.257	0.358	0.357
	Back	0.528	0.255	0.200	0.131	0.783	0.728	0.659
FR1 n12_Ant 1	Front	0.146	0.008	0.109	0.108	0.154	0.255	0.254
	Back	0.290	0.255	0.200	0.131	0.545	0.490	0.421
FR1 n25_Ant 0	Front	0.567	0.008	0.109	0.108	0.575	0.676	0.675
	Back	0.903	0.255	0.200	0.131	1.158	1.103	1.034
FR1 n30_Ant 0	Front	0.457	0.008	0.109	0.108	0.465	0.566	0.565
	Back	0.489	0.255	0.200	0.131	0.744	0.689	0.620
FR1 n41_Ant 5	Front	0.338	0.008	0.109	0.108	0.346	0.447	0.446
	Back	0.637	0.255	0.200	0.131	0.892	0.837	0.768
FR1 n66_Ant 0	Front	0.611	0.008	0.109	0.108	0.619	0.720	0.719
	Back	0.846	0.255	0.200	0.131	1.101	1.046	0.977
FR1 n71_Ant 1	Front	0.130	0.008	0.109	0.108	0.138	0.239	0.238
	Back	0.243	0.255	0.200	0.131	0.498	0.443	0.374
FR1 n77_Ant 2	Front	0.166	0.008	0.109	0.108	0.174	0.275	0.274
	Back	0.230	0.255	0.200	0.131	0.507	0.452	0.383

12.4 Product Specific Exposure Conditions

WWAN Band	Exposure Position	1	7	1+7 Summed 10g SAR (W/kg)
		WWAN	WLAN5GHz Ant 7+3	
		10g SAR (W/kg)	10g SAR (W/kg)	
LTE Band 66_Ant 2	Front		0.216	0.216
	Back		0.993	0.993
	Left side		0.399	0.399
	Right side		0.166	0.166
	Top side		0.219	0.219
	Bottom side	2.965		2.965
FR1 n41_Ant 1	Front		0.216	0.216
	Back		0.993	0.993
	Left side		0.399	0.399
	Right side		0.166	0.166
	Top side		0.219	0.219
	Bottom side	2.965		2.965

WWAN Band	Exposure Position	1	7	9	10	11	1+7+9 Summed 10g SAR (W/kg)	1+7+10 Summed 10g SAR (W/kg)	1+7+11 Summed 10g SAR (W/kg)
		WWAN	WLAN5GHz Ant 7+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)			
LTE Band 66_Ant 2	Front		0.193				0.193	0.193	0.193
	Back		0.808				0.808	0.808	0.808
	Left side		0.356				0.356	0.356	0.356
	Right side		0.148				0.148	0.148	0.148
	Top side		0.184				0.184	0.184	0.184
	Bottom side	2.965					2.965	2.965	2.965
FR1 n41_Ant 1	Front		0.193				0.193	0.193	0.193
	Back		0.808				0.808	0.808	0.808
	Left side		0.356				0.356	0.356	0.356
	Right side		0.148				0.148	0.148	0.148
	Top side		0.184				0.184	0.184	0.184
	Bottom side	2.965					2.965	2.965	2.965

WWAN Band	Exposure Position	1	5	7	1+5+7 Summed 10g SAR (W/kg)
		WWAN	WLAN2.4GHz Ant 4+3	WLAN5GHz Ant 7+3	
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
LTE Band 66_Ant 2	Front			0.193	0.193
	Back			0.808	0.808
	Left side			0.356	0.356
	Right side			0.148	0.148
	Top side			0.184	0.184
	Bottom side	2.965			2.965
FR1 n41_Ant 1	Front			0.193	0.193
	Back			0.808	0.808
	Left side			0.356	0.356
	Right side			0.148	0.148
	Top side			0.184	0.184
	Bottom side	2.965			2.965

Test Engineer : Mood Huang and Carter Jhuang

13. References

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