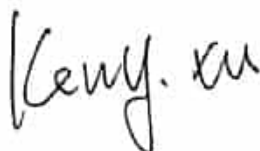


FCC SAR TEST REPORT

Application No.: SZCR2502000421WM
Applicant: Motorola Mobility LLC
Address of Applicant: 222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacturer: Motorola Mobility LLC
Address of Manufacturer: 222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
EUT Description: Mobile Cellular Phone
Model No.: XT2507-6(Retail), XT2507-3(Softbank) ♣
♣ Please refer to section 1.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Motorola
FCC ID: IHDT56AU4
Standards: FCC 47CFR §2.1093
Date of Receipt: 2025-02-18
Date of Test: 2025-02-19 to 2025-03-21
Date of Issue: 2025-03-25

Test Result :	PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-03-25		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.73	0.79	0.79	/
GSM1900	0.85	1.10	1.10	2.42
WCDMA Band II	0.77	1.20	0.91	2.98
WCDMA Band IV	0.74	1.10	1.10	2.94
WCDMA Band V	0.61	1.02	1.02	1.99
LTE Band 2	0.80	0.97	1.12	2.79
LTE Band 7	0.72	1.05	1.06	3.02
LTE Band 12/17	0.61	0.70	0.70	/
LTE Band 13	0.73	0.86	0.86	/
LTE Band 26/5	0.77	1.17	1.17	2.42
LTE Band 41/38	0.76	1.16	1.16	2.98
LTE Band 42	0.71	0.78	0.86	3.00
LTE Band 66/4	0.88	1.14	0.92	2.91
NR Band n5	0.85	1.15	1.15	/
NR Band n41	0.70	1.17	1.17	2.80
NR Band n66	0.72	1.22	1.18	2.10
NR Band n77/78	1.05	0.86	0.96	2.46
WI-FI (2.4GHz)	1.06	1.33	0.60	3.48
WI-FI (5GHz)	0.98	1.06	0.61	2.71
WI-FI 6E	0.74	0.53	/	0.16
BT	0.12	0.21	0.22	/
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.59	1.59	1.59	3.99
SPLSR	0.04	0.04	0.03	0.10
SPLSR Limited	0.04			0.1



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Note: The Simultaneous transmission SAR is the same test position of the WWAN Antenna + WiFi/BT Antenna.

According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 4 (frequency range: 1710-1755 MHz) is covered by LTE band 66 (frequency range: 1710-1780MHz). SAR in LTE band 5 (frequency range: 824-849 MHz) is covered by LTE band 26 (frequency range: 814-849 MHz). SAR in LTE band 17 (frequency range: 704-716 MHz) is covered by LTE band 12 (frequency range: 699-716 MHz). SAR in LTE band 38 (frequency range: 2570-2620 MHz) is covered by LTE band 41 (frequency range: 2496-2690 MHz). The SAR in NR Band n78 (frequency range: 3450-3550 & 3700-3800MHz) is covered by NR Band n77 (frequency range: 3450-3550 & 3700-3980MHz). Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.

Frequency Band	Report Power Density (W/m ²)
WIFI 6E	8.38
PD Limited(W/m ²)	10.0



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1 General Information

1.1 General Description of EUT

Product Name:	Mobile Cellular Phone		
Model No.:	XT2507-6(Retail), XT2507-3(Softbank)		
Trade Mark:	Motorola		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	351794940006979; 351794940006730; 351794940007035; 351794940007118; 351794940008694.		
Hardware Version:	DVT2		
Software Version:	V2VV35.69		
Antenna Type:	Fixed Internal Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM :GMSK,8PSK; WCDMA :QPSK, 16QAM LTE :QPSK,16QAM,64QAM,256QAM 5G NR :DFT-s-OFDM(PI/2 BPSK,QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI :DSSS,OFDM, OFDMA; BT :GFSK, $\pi/4$ DQPSK,8DPSK NFC :ASK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	24	HSUPA UE Category:	7
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(WCDMA Band)		
	3, tested with power control “max power”(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	Rx(MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155



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	WCDMA Band V	824~849	869~894
	LTE Band 2	1850 ~1910	1930 ~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869-894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704-716	734-746
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 42	3450~3550	3450~3550
	LTE Band 66	1710~1780	2110~2200
	NR Band n5	824~849	869-894
	NR Band n41 (Class 2/3)	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2200
	NR Band n77(Class 2/3)	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78(Class 2/3)	3450~3550	3450~3550
		3700~3800	3700~3800
	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
	WIFI 6E	5925~6425	5925~6425
		6425~6525	6425~6525
		6525~6875	6525~6875
		6875~7125	6875~7125
	BT	2402~2480	2402~2480
	NFC	13.56	13.56
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory		
Battery Information:	Model:	RE50	



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	Normal Voltage:	3.88V
	Rated capacity:	4850mAh
	Manufacturer:	Ningde Amperex Technology Limited

Note:

*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

Remark:

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♣ The two models named XT2507 - 6 and XT2507 - 3 are the same product except that their model names are different for different market segments.



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1.1.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Note:

1) The test device is a smart phone, as the diagonal distance of this device is $\geq 160\text{mm}$ and $\leq 200\text{mm}$. Per KDB 648474 D04 it is a phablet.

2) When the antenna-to-edge distance is greater than 25mm, such position does not need to be tested.

According to the distance between the antennas and the sides of the EUT we can draw the conclusion as below:

Distance of the Antenna to the EUT surface/edge						
Mode	Front	Back	Left	Right	Top	Bottom
Ant0	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant1	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant2	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant3	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant4	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant5	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant6	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant7	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant8	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant9	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant10	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$

Table 1 : Distance of the Antenna to the EUT surface/edge

1.1.2 Smart Transmit feature for RF Exposure compliance

The RF exposure limit is defined based on time-averaged RF exposure. The product implements MediaTek Time-averaged SAR (TA-SAR) feature which controls the instantaneous transmit power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR(transmit frequency $\leq 6\text{GHz}$). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

Please refer to part2 report for more details.



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1.1.3 Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation:

- 1) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.
- 2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions.
- 3) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance (Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).
- 4) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.

The detailed power reduction information can be referred to Appendix E Conducted RF Output Power.



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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices –Part 1528: Human models, instrumentation, and procedures(Frequency range of 4 MHz to 10 GHz)
IEC/IEEE 63195-1:2022	Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) – Part 1: Measurement procedure
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



1.3 RF exposure limits

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

Notes:

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

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

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

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

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



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1.4 RF exposure limits for above 6GHz

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

Note: 1.0 mW/cm² is equal to 10 W/m²

1.5 Test Location

All tests were performed at:

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No tests were sub-contracted.

1.6 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	



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3 SAR Measurements System Configuraion

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

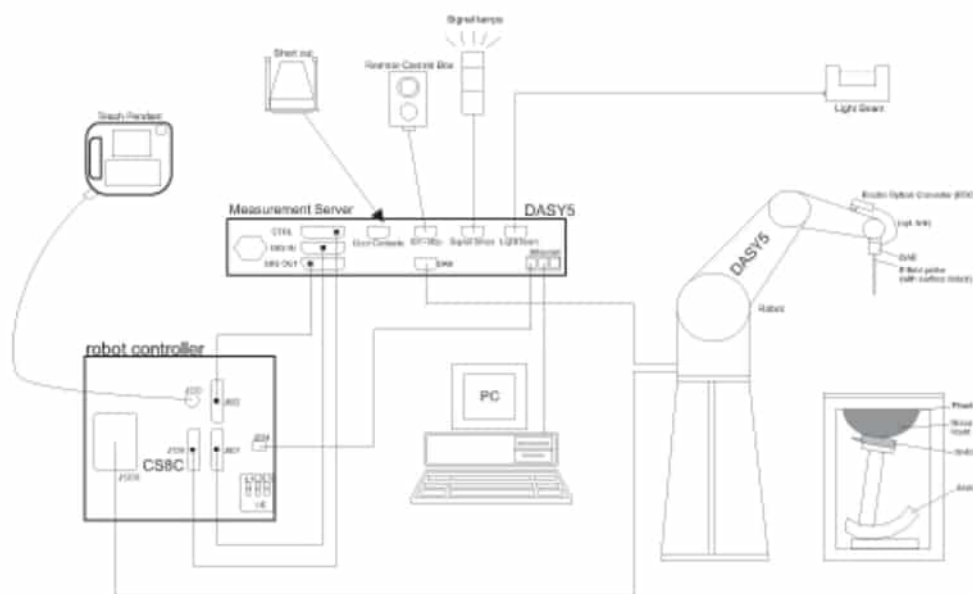
The DASY system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

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 between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration

- 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.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.



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SZSAR-TRF-01 Rev. A/0 May15,2023

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- A computer operating Windows system.
- DASY software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.



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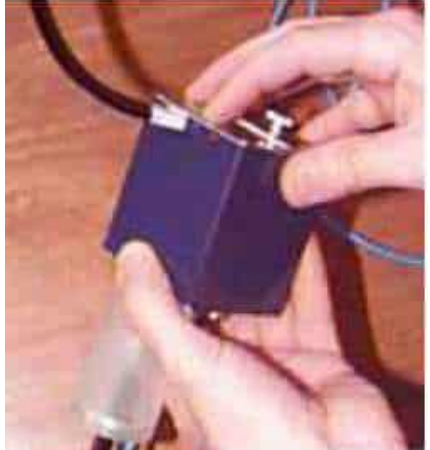
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3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 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 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/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
Application	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%.
Compatibility	DASY52 SAR and higher, EASY4/MRI

3.3 Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)	
Input Offset Voltage	< 5μV (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	

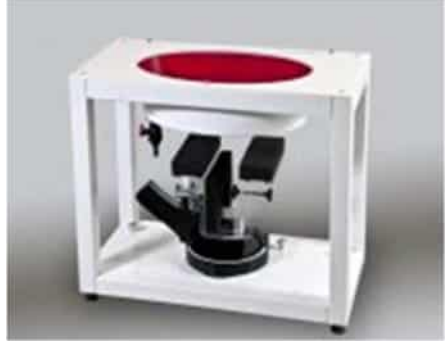
3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	pprox.. 25 liters	
Wooden Support	SPEAG standard phantom table	

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

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2.0 ± 0.2 mm(bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	pprox.. 30 liters	
Wooden Support	SPEAG standard phantom table	

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEEE 1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. 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 is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4 but has reinforced top structure.

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm. Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm ($f \leq 2\text{GHz}$), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points ($f \leq 2\text{GHz}$), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). 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. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

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



		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 12 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 12 \text{ mm}$ $4 - 6 \text{ GHz: } \leq 10 \text{ mm}$
		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.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz: } \leq 8 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz: } \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 4 \text{ mm}$ $4 - 5 \text{ GHz: } \leq 3 \text{ mm}$ $5 - 6 \text{ GHz: } \leq 2 \text{ mm}$
	graded grid $\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 3 \text{ mm}$ $4 - 5 \text{ GHz: } \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz: } \leq 2 \text{ mm}$
	$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz: } \geq 28 \text{ mm}$ $4 - 5 \text{ GHz: } \geq 25 \text{ mm}$ $5 - 6 \text{ GHz: } \geq 22 \text{ mm}$

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. $\pm 5 \%$

3.7.2 Data storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension "DAE". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

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

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression point	Dcpi	
Device parameters:	- Frequency	f
- Crest factor	cf	
Media parameters:	- Conductivity	ε
- Density	ρ	

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

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

With V_i = compensated signal of channel I (I = x, y, z)

U_i = input signal of channel I (I = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:
E-field probes:



$$E_i = (V_i / \text{Norm}_i \cdot \text{ConvF})^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2) / f$$

With V_i = compensated signal of channel I (I = x, y, z)

Norm_i = sensor sensitivity of channel I (I = x, y, z)

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel I in V/m

H_i = magnetic field strength of channel I in A/m

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

$$E_{\text{tot}} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

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

$$\text{SAR} = (E_{\text{tot}}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ϵ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{\text{pwe}} = E_{\text{tot}}^2 / 3770 \text{ or } P_{\text{pwe}} = H_{\text{tot}}^2 \cdot 37.7$$

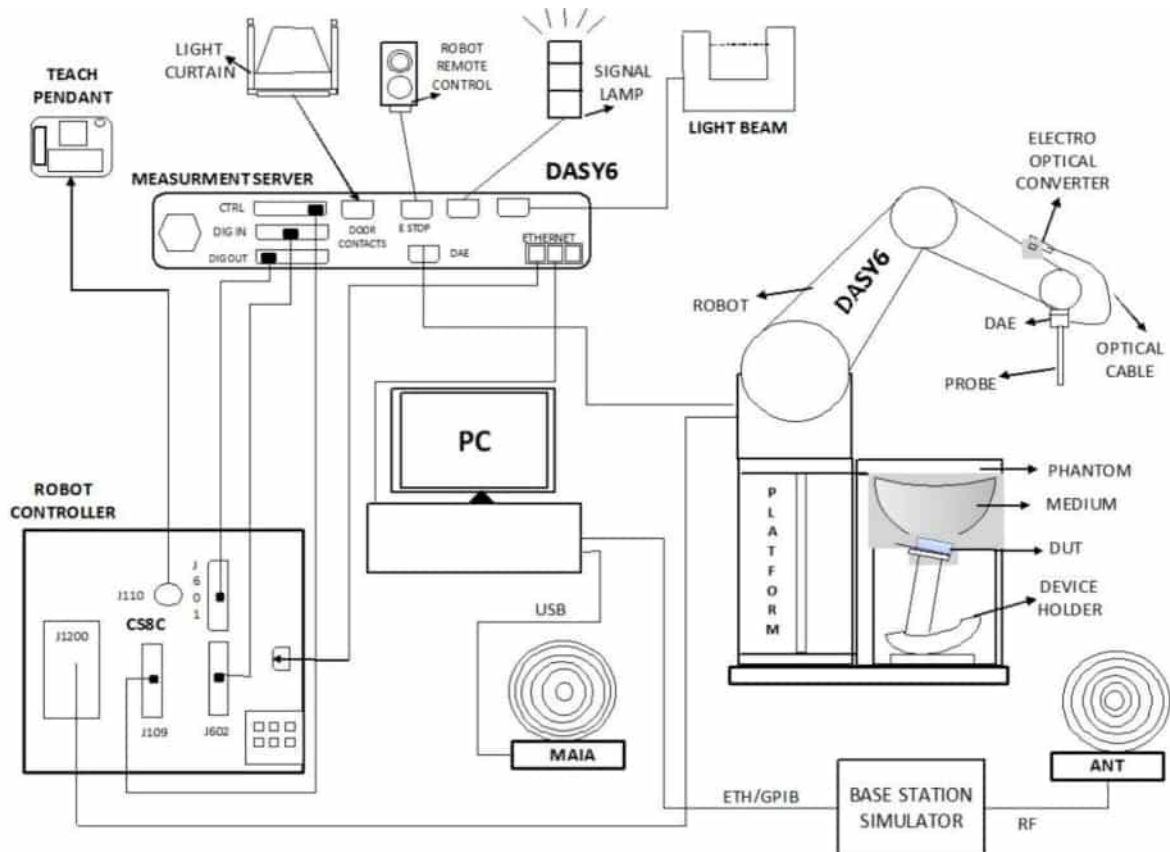
with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m

4 Power density measurement system

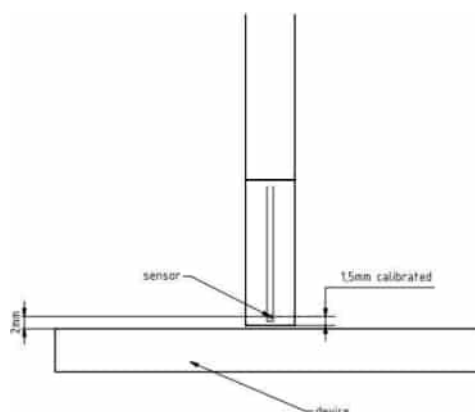
Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.



Measurement System Configuration

4.1 EUmmWaVe probe

Frequency	750 MHz – 110 GHz
Probe Overall Length	320 mm
Probe Body Diameter	8.0 mm
Tip Length	23.0 mm
Tip Diameter	8.0 mm
Probe's two dipoles length	0.9 mm – Diode loaded
Dynamic Range	< 20 V/m - 10000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm
Distance between diode sensors and probe's tip	1.5 mm
Minimum Mechanical separation between probe tip and a Surface	0.5 mm
Applications	E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space) Power density, H-field and far-field analysis using total field reconstruction.
Compatibility	cDASY6 + 5G-Module SW1.0 and higher



The EUmmWaVe probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse. The design entails two small 0.8mm dipole sensors mechanically protected by high-density foam, printed on both sides of a 0.9mm wide and 0.12mm thick glass substrate. The body of the probe is specifically constructed to minimize distortion by the scattered fields. The probe consists of two sensors with different angles (1 and 2) arranged in the same plane in the probe axis. Three or more measurements of the two sensors are taken for different probe rotational angles to derive the amplitude and polarization information. The probe design allows measurements at distances as small as 2mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm. The exact distance is calibrated.

5 SAR measurement variability and uncertainty

5.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.



5.2 SAR measurement uncertainty

Measurements and results are all in compliance with the standards listed. All measurements and results are recorded and maintained at the laboratory performing the tests and measurement uncertainties are taken into account when comparing measurements to pass/ fail criteria. The expanded uncertainty (95% CONFIDENCE INTERVAL) is 28.50%.

IEC/IEEE 62209-1528:2020 Input quantity X_i (source of uncertainty)	Unc. ($\pm$)	Prob. Dist. PDF _i	Unc. $a(x_i)$	C_i (1g)	C_i (10g)	U_i (1g) (%)	U_i (10g) (%)
Probe calibration	18.6	N ($k = 2$)	2	1	1	9.3	9.3
Probe calibration drift	1.7	R	$\sqrt{3}$	1	1	1.0	1.0
Probe linearity and detection limit	0.6	R	$\sqrt{3}$	1	1	0.3	0.3
Broadband signal	0.5	R	$\sqrt{3}$	1	1	0.3	0.3
Probe isotropy	2.6	R	$\sqrt{3}$	1	1	1.5	1.5
Other probe and data acquisition errors	0.6	N	1	1	1	0.6	0.6
RF ambient and noise	3.0	R	$\sqrt{3}$	1	1	1.7	1.7
Probe positioning errors	0.5	N	1	0.33	0.33	0.2	0.2
Data processing errors	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Measurement of phantom conductivity(σ)	2.5	N	1	0.78	0.71	2.0	1.8
Temperature effects (medium)	2.7	R	$\sqrt{3}$	0.78	0.71	1.2	1.1
Shell permittivity	14.0	R	$\sqrt{3}$	0.5	0.5	4.0	4.0
Distance between the radiating element of the DUT and the phantom medium	2.0	N	1	2	2	4.0	4.0
Repeatability of positioning the DUT or source against the phantom	2.9	N	1	1	1	2.9	2.9
Device holder effects	3.6	N	1	1	1	3.6	3.6
Effect of operating mode on probe sensitivity	2.4	R	$\sqrt{3}$	1	1	1.4	1.4
Time-average SAR	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Variation in SAR due to drift in output of DUT	2.5	N	1	1	1	2.5	2.5
Validation antenna uncertainty (validation measurement only)	0.0	N	1	1	1	0.0	0.0
Uncertainty in accepted power (validation measurement only)	0.0	N	1	1	1	0.0	0.0
Phantom deviation from target (ϵ' , σ)	1.9	N	1	1	0.84	1.9	1.6
SAR scaling	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Combined uncertainty			\			14.25	14.15
Expanded uncertainty and effective degrees of freedom ($k = 2$)			\			28.50	28.30



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5.3 PD measurement uncertainty

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multiplying Factor ^(a)	1/k ^(b)	1/√3	1/√6	1/√2

Standard Uncertainty for Assumed Distribution

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. The judgment of conformity in thereport is based on the measurement results excluding the measurement uncertainty.



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a	b	c	d	e	f=b*e/d	g
Error Description	Uncertainty Value (±dB)	Probability	Div.	Ci	Standard Uncertainty (±dB)	Vi (Veff)
Probe Calibration	0.49	N	1	1	0.49	∞
Probe correction	0.00	R	1.732	1	0.00	∞
Frequency response (BW ≤1 GHz)	0.20	R	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	1.732	1	0.00	∞
Isotropy	0.50	R	1.732	1	0.29	∞
Linearity	0.20	R	1.732	1	0.12	∞
Probe scattering	0.00	R	1.732	1	0.00	∞
Probe positioning offset	0.30	R	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	1.732	1	0.00	∞
Field impedance dependance	0.00	R	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	1.732	1	0.02	∞
Measurement area truncation	0.00	R	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.732	1	0.00	∞
Field reconstruction	2.00	R	1.732	1	1.15	∞
Forward transformation	0.00	R	1.732	1	0.00	∞
Power density scaling	0.00	R	1.732	1	0.00	∞
Spatial averaging	0.10	R	1.732	1	0.06	∞
System detection limit	0.04	R	1.732	1	0.02	∞
Probe coupling with DUT	0.00	R	1.732	1	0.00	∞
Modulation response	0.40	R	1.732	1	0.23	∞
Integration time	0.00	R	1.732	1	0.00	∞
Response time	0.00	R	1.732	1	0.00	∞
Device holder influence	0.10	R	1.732	1	0.06	∞
DUT alignment	0.00	R	1.732	1	0.00	∞
RF ambient conditions	0.04	R	1.732	1	0.02	∞
Ambient reflections	0.04	R	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	1.732	1	0.00	∞
Drift of the DUT		R	1.732	1	0.00	∞
Combined Std. Uncertainty					1.33	
Expanded STD Uncertainty (95%), K=2					2.67	



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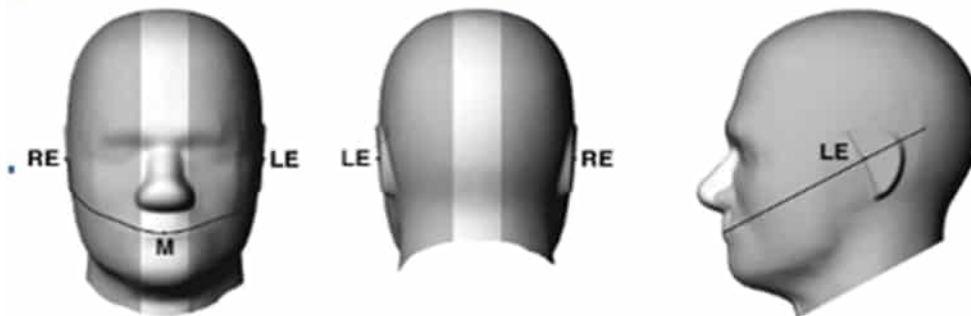
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6 Description of Test Position

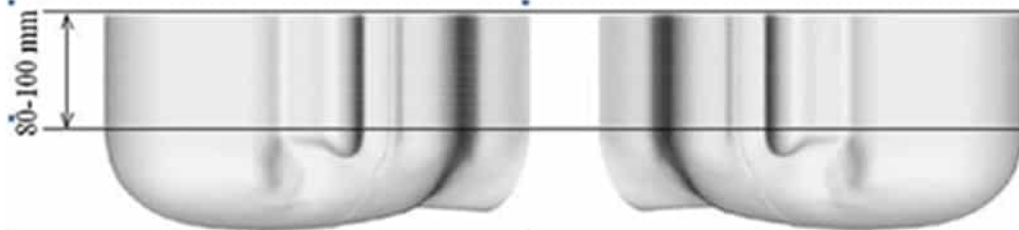
6.1 The Head Test Position

6.1.1 SAM Phantom Shape

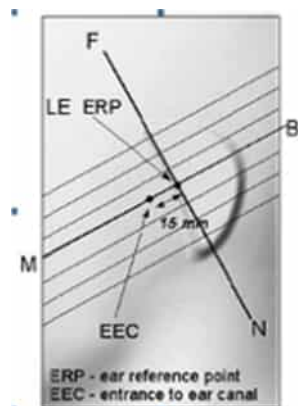


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

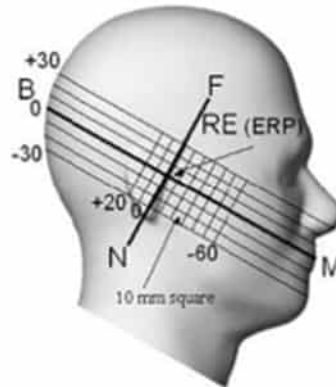
Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)

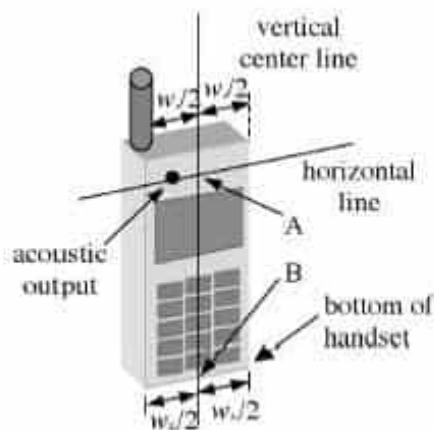


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

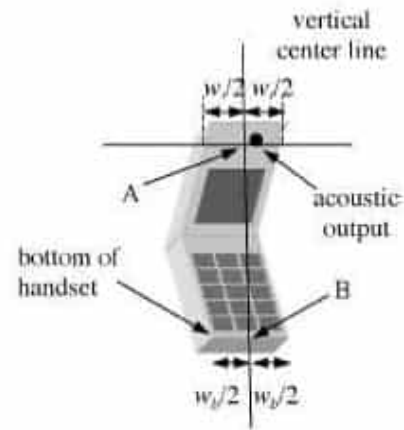


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

6.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-
“fixed case”



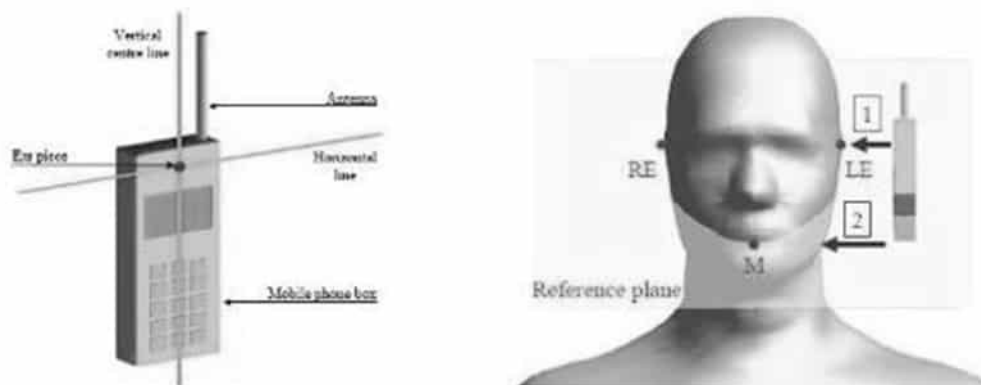
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

6.1.3 Definition of the “check” position

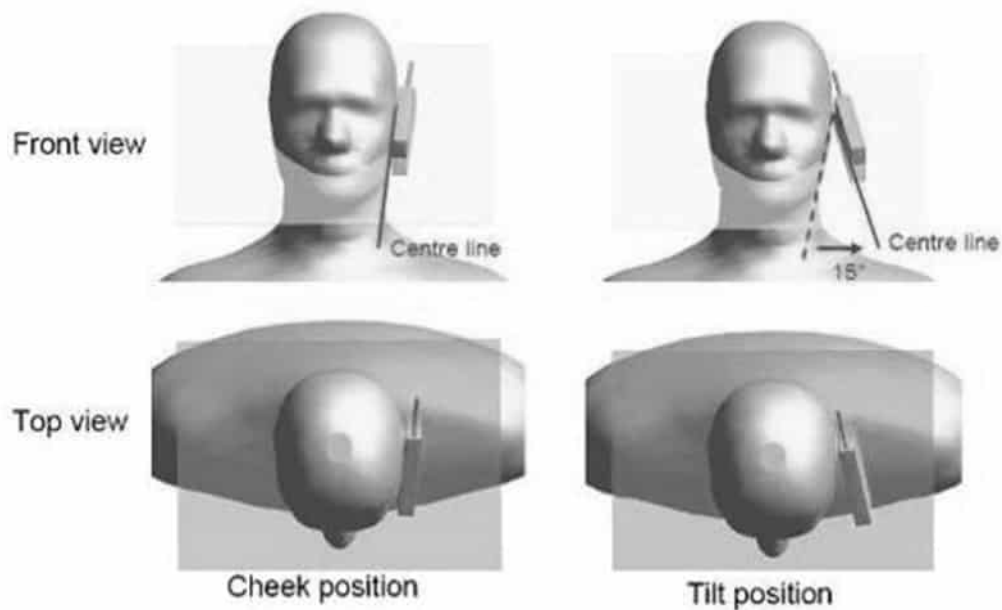
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

6.1.4 Definition of the “tilted” position

- a) Position the device in the “cheek” position described above.
- b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. "Cheek" and "tilt" positions of the mobile phone on the left side

6.2 The Body Test Position

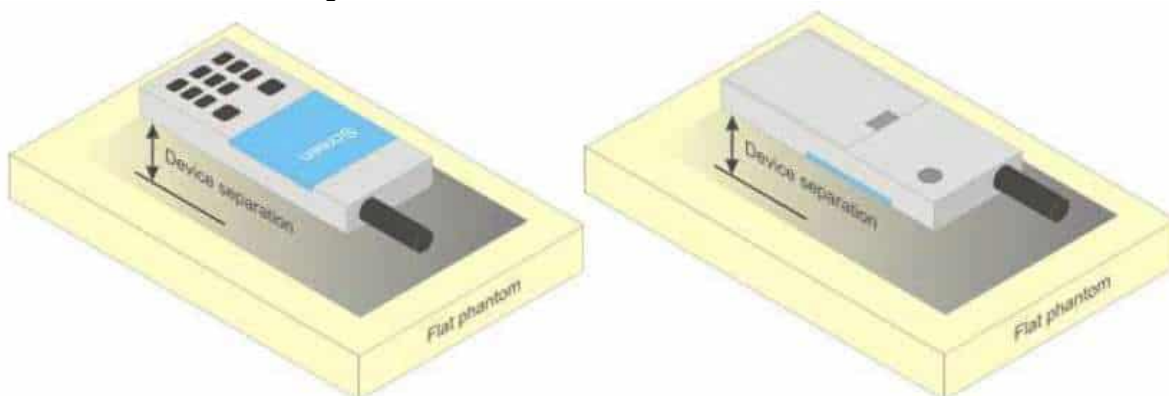
6.2.1 Body-worn accessory exposure conditions

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.

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

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. 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 is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices

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6.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed-use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

6.3 Extremity exposure conditions

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet".

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, only the following frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.

GSM1900 SAR Test Record												
Ant 0 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	GPRS 4TS	661/1880	1:2.075	0.483	0.220	0.13	20.94	23.00	1.607	0.776	22.1	Yes
Back side	GPRS 4TS	661/1880	1:2.075	0.795	0.357	0.07	20.94	23.00	1.607	1.278	22.1	No
Left side	GPRS 4TS	661/1880	1:2.075	0.450	0.173	-0.04	20.94	23.00	1.607	0.723	22.1	Yes
Bottom side	GPRS 4TS	661/1880	1:2.075	0.523	0.230	0.08	20.94	23.00	1.607	0.840	22.1	Yes
Back side	GPRS 4TS	512/1850.2	1:2.075	0.857	0.405	0.04	20.93	23.00	1.611	1.380	22.1	No
Back side-Repeated	GPRS 4TS	512/1850.2	1:2.075	0.842	0.397	0.07	20.93	23.00	1.611	1.356	22.1	No
Back side	GPRS 4TS	810/1909.8	1:2.075	0.425	0.202	0.11	20.94	23.00	1.607	0.683	22.1	Yes
Ant 1 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	GPRS 4TS	661/1880	1:2.075	0.198	0.096	-0.18	15.44	23.00	5.702	1.129	22.1	Yes
Back side	GPRS 4TS	661/1880	1:2.075	0.403	0.198	0.03	15.44	23.00	5.702	2.298	22.1	No
Left side	GPRS 4TS	661/1880	1:2.075	0.033	0.019	0.12	15.44	23.00	5.702	0.188	22.1	Yes



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Top side	GPRS 4TS	661/1880	1:2.075	0.446	0.203	-0.12	15.44	23.00	5.702	2.543	22.1	No
Ant 9 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	GPRS 4TS	661/1880	1:2.075	0.128	0.058	0.14	18.81	24.00	3.304	0.423	22.1	Yes
Back side	GPRS 4TS	661/1880	1:2.075	0.203	0.087	-0.13	18.81	24.00	3.304	0.671	22.1	Yes
Left side	GPRS 4TS	661/1880	1:2.075	0.475	0.178	0.15	18.81	24.00	3.304	1.569	22.1	No
Top side	GPRS 4TS	661/1880	1:2.075	0.011	0.006	-0.06	18.81	24.00	3.304	0.036	22.1	Yes

WB2 SAR Test Record												
Ant 0 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	9400/1880	1:1	0.461	0.224	0.12	15.78	22.50	4.699	2.166	22.1	No
Back side	RMC	9400/1880	1:1	0.762	0.365	-0.02	15.74	22.50	4.742	3.614	22.1	No
Left side	RMC	9400/1880	1:1	0.360	0.149	0.13	15.74	22.50	4.742	1.707	22.1	No
Bottom side	RMC	9400/1880	1:1	0.666	0.288	-0.08	15.74	22.50	4.742	3.158	22.1	No
Back side	RMC	9262/1852.4	1:1	0.630	0.314	0.03	15.69	22.50	4.797	3.022	22.1	No
Back side	RMC	9538/1907.6	1:1	0.445	0.223	-0.08	15.71	22.50	4.775	2.125	22.1	No
Ant 1 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	9538/1907.6	1:1	0.223	0.105	-0.02	12.64	22.50	9.683	2.159	22.1	No
Back side	RMC	9538/1907.6	1:1	0.322	0.151	-0.17	12.64	22.50	9.683	3.118	22.1	No
Left side	RMC	9538/1907.6	1:1	0.035	0.020	0.16	12.64	22.50	9.683	0.339	22.1	Yes
Top side	RMC	9538/1907.6	1:1	0.445	0.192	0.18	12.64	22.50	9.683	4.309	22.1	No
Ant 2 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	9538/1907.6	1:1	0.508	0.278	0.02	19.70	24.00	2.692	1.367	22.1	No
Back side	RMC	9538/1907.6	1:1	0.618	0.358	0.16	19.70	24.00	2.692	1.663	22.1	No
Right side	RMC	9538/1907.6	1:1	0.369	0.184	0.05	19.70	24.00	2.692	0.993	22.1	Yes
Bottom side	RMC	9538/1907.6	1:1	0.747	0.377	-0.05	19.70	24.00	2.692	2.011	22.1	No
Bottom side	RMC	9262/1852.4	1:1	0.526	0.260	0.07	19.69	24.00	2.698	1.419	22.1	No
Bottom side	RMC	9400/1880	1:1	0.738	0.383	-0.11	19.68	24.00	2.704	1.996	22.1	No
Ant 9 Test Record												



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Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	9538/1907.6	1:1	0.127	0.060	0.18	15.74	24.00	6.699	0.851	22.1	Yes
Back side	RMC	9538/1907.6	1:1	0.164	0.082	-0.04	15.74	24.00	6.699	1.099	22.1	Yes
Left side	RMC	9538/1907.6	1:1	0.414	0.174	-0.03	15.74	24.00	6.699	2.773	22.1	No
Top side	RMC	9538/1907.6	1:1	0.009	0.005	0.02	15.74	24.00	6.699	0.060	22.1	Yes

WB4 SAR Test Record												
Ant 0 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	1513/1752.6	1:1	0.408	0.214	0.16	18.54	22.50	2.489	1.015	22.1	Yes
Back side	RMC	1513/1752.6	1:1	0.886	0.420	0.02	17.57	22.50	3.112	2.757	22.1	No
Back side-Repeated	RMC	1513/1752.6	1:1	0.852	0.409	0.09	18.54	22.50	2.489	2.121	22.1	No
Left side	RMC	1513/1752.6	1:1	0.195	0.092	0.05	18.54	22.50	2.489	0.485	22.1	Yes
Bottom side	RMC	1513/1752.6	1:1	0.283	0.135	-0.08	18.54	22.50	2.489	0.704	22.1	Yes
Back side	RMC	1312/1712.4	1:1	0.623	0.261	0.05	18.52	22.50	2.500	1.558	22.1	No
Back side	RMC	1412/1732.4	1:1	0.682	0.326	-0.07	18.36	22.50	2.594	1.769	22.1	No
Ant 1 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	1312/1712.4	1:1	0.259	0.127	-0.04	13.28	22.50	8.356	2.164	22.1	No
Back side	RMC	1312/1712.4	1:1	0.381	0.184	-0.11	13.28	22.50	8.356	3.184	22.1	No
Left side	RMC	1312/1712.4	1:1	0.037	0.019	-0.08	13.28	22.50	8.356	0.309	22.1	Yes
Top side	RMC	1312/1712.4	1:1	0.483	0.222	0.13	13.28	22.50	8.356	4.036	22.1	No
Top side with Sample2	RMC	1312/1712.4	1:1	0.458	0.210	0.11	13.28	22.50	8.356	3.827	22.1	No
Ant 2 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	1312/1712.4	1:1	0.608	0.358	0.00	19.71	24.00	2.685	1.633	22.1	No
Back side	RMC	1312/1712.4	1:1	0.739	0.428	-0.15	19.71	24.00	2.685	1.984	22.1	No
Right side	RMC	1312/1712.4	1:1	0.333	0.178	0.19	19.71	24.00	2.685	0.894	22.1	Yes
Bottom side	RMC	1312/1712.4	1:1	0.856	0.457	0.05	19.71	24.00	2.685	2.299	22.1	No
Back side	RMC	1412/1732.4	1:1	0.650	0.379	-0.04	19.63	24.00	2.735	1.778	22.1	No
Back side	RMC	1513/1752.6	1:1	0.525	0.306	-0.14	19.55	24.00	2.786	1.463	22.1	No
Bottom side	RMC	1412/1732.4	1:1	0.753	0.405	0.14	19.63	24.00	2.735	2.060	22.1	No
Bottom side	RMC	1513/1752.6	1:1	0.608	0.327	-0.05	19.55	24.00	2.786	1.694	22.1	No



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WB5 SAR Test Record												
Ant 0 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	4132/826.4	1:1	0.319	0.201	0.05	21.98	24.00	1.592	0.508	22.1	Yes
Back side	RMC	4132/826.4	1:1	0.655	0.379	-0.03	21.98	24.00	1.592	1.043	22.1	Yes
Left side	RMC	4132/826.4	1:1	0.256	0.167	0.12	21.98	24.00	1.592	0.408	22.1	Yes
Bottom side	RMC	4132/826.4	1:1	0.438	0.236	0.14	21.98	24.00	1.592	0.697	22.1	Yes
Back side	RMC	4182/836.4	1:1	0.797	0.453	-0.04	21.92	24.00	1.614	1.287	22.1	No
Back side	RMC	4233/846.6	1:1	0.620	0.353	0.06	21.86	24.00	1.637	1.015	22.1	Yes

LTE Band 2 SAR Test Record													
Ant 0 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	18700/1860	1:1	0.529	0.276	-0.01	14.86	22.50	5.808	3.072	22.3	No
Back side	20	QPSK 1_0	18700/1860	1:1	0.747	0.362	0.05	14.86	22.50	5.808	4.338	22.3	No
Left side	20	QPSK 1_0	18700/1860	1:1	0.459	0.218	-0.07	14.86	22.50	5.808	2.666	22.3	No
Bottom side	20	QPSK 1_0	18700/1860	1:1	0.496	0.237	-0.07	14.86	22.50	5.808	2.881	22.3	No
Back side	20	QPSK 1_99	18900/1880	1:1	0.665	0.337	0.02	14.75	22.50	5.957	3.961	22.3	No
Back side	20	QPSK 1_0	19100/1900	1:1	0.601	0.304	-0.02	14.76	22.50	5.943	3.572	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_0	18700/1860	1:1	0.501	0.247	0.06	14.80	22.50	5.888	2.950	22.3	No
Back side	20	QPSK 50_0	18700/1860	1:1	0.727	0.329	0.04	14.80	22.50	5.888	4.281	22.3	No
Left side	20	QPSK 50_0	18700/1860	1:1	0.436	0.187	0.02	14.80	22.50	5.888	2.567	22.3	No
Bottom side	20	QPSK 50_0	18700/1860	1:1	0.485	0.213	0.13	14.80	22.50	5.888	2.856	22.3	No
Back side	20	QPSK 50_50	18900/1880	1:1	0.669	0.319	-0.13	14.78	22.50	5.916	3.958	22.3	No
Back side	20	QPSK 50_25	19100/1900	1:1	0.593	0.283	-0.09	14.72	22.50	5.998	3.557	22.3	No
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Back side	20	QPSK 100_0	18900/1880	1:1	0.621	0.307	0.02	14.68	22.50	6.053	3.759	22.3	No
Ant 1 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_99	18700/1860	1:1	0.214	0.100	0.10	10.35	22.50	16.406	3.511	22.3	No
Back side	20	QPSK 1_99	18700/1860	1:1	0.295	0.138	0.10	10.35	22.50	16.406	4.840	22.3	No
Left side	20	QPSK 1_99	18700/1860	1:1	0.039	0.021	-0.17	10.35	22.50	16.406	0.640	22.3	Yes
Top side	20	QPSK 1_99	18700/1860	1:1	0.351	0.153	0.06	10.35	22.50	16.406	5.758	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													



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Front side	20	QPSK 50_50	19100/1900	1:1	0.200	0.088	0.19	10.37	21.50	12.972	2.594	22.3	No
Back side	20	QPSK 50_50	19100/1900	1:1	0.319	0.139	-0.11	10.37	21.50	12.972	4.138	22.3	No
Left side	20	QPSK 50_50	19100/1900	1:1	0.036	0.019	0.09	10.37	21.50	12.972	0.467	22.3	Yes
Top side	20	QPSK 50_50	19100/1900	1:1	0.403	0.173	0.09	10.37	21.50	12.972	5.228	22.3	No
Ant 2 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_99	19100/1900	1:1	0.572	0.324	-0.08	20.21	23.50	2.133	1.220	22.3	No
Back side	20	QPSK 1_99	19100/1900	1:1	0.711	0.407	-0.13	20.21	23.50	2.133	1.517	22.3	No
Right side	20	QPSK 1_99	19100/1900	1:1	0.467	0.234	-0.04	20.21	23.50	2.133	0.996	22.3	Yes
Bottom side	20	QPSK 1_99	19100/1900	1:1	0.809	0.407	0.06	20.21	23.50	2.133	1.726	22.3	No
Back side	20	QPSK 1_99	18700/1860	1:1	0.753	0.438	-0.11	20.18	23.50	2.148	1.617	22.3	No
Back side	20	QPSK 1_50	18900/1880	1:1	0.751	0.434	0.10	20.10	23.50	2.188	1.643	22.3	No
Bottom side	20	QPSK 1_99	18700/1860	1:1	0.857	0.449	-0.05	20.18	23.50	2.148	1.841	22.3	No
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.894	0.464	0.10	19.03	23.50	2.799	2.502	22.3	No
Bottom side-Repeated	20	QPSK 1_50	18900/1880	1:1	0.855	0.442	-0.04	20.10	23.50	2.188	1.871	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_50	18700/1860	1:1	0.519	0.296	0.05	20.14	22.50	1.722	0.894	22.3	Yes
Back side	20	QPSK 50_50	18700/1860	1:1	0.650	0.373	0.00	20.14	22.50	1.722	1.119	22.3	Yes
Right side	20	QPSK 50_50	18700/1860	1:1	0.392	0.196	-0.08	20.14	22.50	1.722	0.675	22.3	Yes
Bottom side	20	QPSK 50_50	18700/1860	1:1	0.852	0.443	0.01	20.14	22.50	1.722	1.467	22.3	No
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.842	0.432	0.17	20.11	22.50	1.734	1.460	22.3	No
Bottom side	20	QPSK 50_50	19100/1900	1:1	0.770	0.380	0.15	20.10	22.50	1.738	1.338	22.3	No
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Back side	20	QPSK 100_0	18900/1880	1:1	0.721	0.401	-0.03	20.11	22.50	1.734	1.250	22.3	No
Bottom side	20	QPSK 100_0	18900/1880	1:1	0.820	0.412	0.01	20.11	22.50	1.734	1.422	22.3	No
Ant 9 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	18700/1860	1:1	0.162	0.074	-0.16	14.13	23.50	8.650	1.401	22.3	No
Back side	20	QPSK 1_0	18700/1860	1:1	0.232	0.107	0.07	14.13	23.50	8.650	2.007	22.3	No
Left side	20	QPSK 1_0	18700/1860	1:1	0.423	0.176	-0.08	14.13	23.50	8.650	3.659	22.3	No
Top side	20	QPSK 1_0	18700/1860	1:1	0.010	0.006	0.16	14.13	23.50	8.650	0.086	22.3	Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_50	18700/1860	1:1	0.144	0.068	0.00	14.09	22.50	6.934	0.999	22.3	Yes
Back side	20	QPSK 50_50	18700/1860	1:1	0.228	0.102	0.06	14.09	22.50	6.934	1.581	22.3	No
Left side	20	QPSK 50_50	18700/1860	1:1	0.405	0.171	-0.12	14.09	22.50	6.934	2.808	22.3	No
Top side	20	QPSK 50_50	18700/1860	1:1	0.010	0.005	0.19	14.09	22.50	6.934	0.069	22.3	Yes



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LTE Band 7 SAR Test Record													
Ant 0 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_50	20850/2510	1:1	0.316	0.176	-0.17	16.83	22.50	3.690	1.166	22.3	Yes
Back side	20	QPSK 1_50	20850/2510	1:1	0.798	0.334	0.03	16.83	22.50	3.690	2.944	22.3	No
Left side	20	QPSK 1_50	20850/2510	1:1	0.145	0.066	0.12	16.83	22.50	3.690	0.535	22.3	Yes
Bottom side	20	QPSK 1_50	20850/2510	1:1	0.526	0.230	0.15	16.83	22.50	3.690	1.941	22.3	No
Back side	20	QPSK 1_99	21100/2535	1:1	0.583	0.250	-0.14	16.73	22.50	3.776	2.201	22.3	No
Back side	20	QPSK 1_50	21350/2560	1:1	0.594	0.250	0.17	16.64	22.50	3.855	2.290	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_50	20850/2510	1:1	0.300	0.165	0.00	16.82	21.50	2.938	0.881	22.3	Yes
Back side	20	QPSK 50_50	20850/2510	1:1	0.795	0.339	-0.19	16.82	21.50	2.938	2.335	22.3	No
Left side	20	QPSK 50_50	20850/2510	1:1	0.136	0.059	0.17	16.82	21.50	2.938	0.400	22.3	Yes
Bottom side	20	QPSK 50_50	20850/2510	1:1	0.518	0.208	0.19	16.82	21.50	2.938	1.522	22.3	No
Back side	20	QPSK 50_25	21100/2535	1:1	0.518	0.231	0.17	16.72	21.50	3.006	1.557	22.3	No
Back side	20	QPSK 50_25	21350/2560	1:1	0.469	0.210	-0.09	16.65	21.50	3.055	1.433	22.3	No
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Back side	20	QPSK 100_0	21100/2535	1:1	0.537	0.245	0.02	16.69	21.50	3.027	1.625	22.3	No
Ant 1 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	20850/2510	1:1	0.151	0.074	-0.17	12.32	22.00	9.290	1.403	22.3	No
Back side	20	QPSK 1_0	20850/2510	1:1	0.307	0.123	-0.05	12.32	22.00	9.290	2.852	22.3	No
Left side	20	QPSK 1_0	20850/2510	1:1	0.129	0.067	-0.08	12.32	22.00	9.290	1.198	22.3	Yes
Top side	20	QPSK 1_0	20850/2510	1:1	0.340	0.129	-0.09	12.32	22.00	9.290	3.158	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_0	21100/2535	1:1	0.155	0.074	0.18	12.31	21.00	7.396	1.146	22.3	Yes
Back side	20	QPSK 50_0	21100/2535	1:1	0.252	0.112	0.02	12.31	21.00	7.396	1.864	22.3	No
Left side	20	QPSK 50_0	21100/2535	1:1	0.139	0.068	-0.08	12.31	21.00	7.396	1.028	22.3	Yes
Top side	20	QPSK 50_0	21100/2535	1:1	0.371	0.145	0.13	12.31	21.00	7.396	2.744	22.3	No
Ant 2 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	21100/2535	1:1	0.474	0.256	-0.04	20.74	23.50	1.888	0.895	22.3	Yes
Back side	20	QPSK 1_0	21100/2535	1:1	0.644	0.286	-0.18	20.74	23.50	1.888	1.216	22.3	No
Right side	20	QPSK 1_0	21100/2535	1:1	0.327	0.143	0.16	20.74	23.50	1.888	0.617	22.3	Yes
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.770	0.343	-0.19	20.74	23.50	1.888	1.454	22.3	No



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Bottom side	20	QPSK 1_99	20850/2510	1:1	0.814	0.361	-0.04	20.50	23.50	1.995	1.624	22.3	No
Bottom side	20	QPSK 1_0	21350/2560	1:1	0.835	0.387	0.02	20.48	23.50	2.004	1.674	22.3	No
Bottom side-Repeated	20	QPSK 1_0	21350/2560	1:1	0.823	0.381	0.06	20.48	23.50	2.004	1.650	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_0	21100/2535	1:1	0.485	0.250	-0.06	20.72	22.50	1.507	0.731	22.3	Yes
Back side	20	QPSK 50_0	21100/2535	1:1	0.633	0.288	0.14	20.72	22.50	1.507	0.954	22.3	Yes
Right side	20	QPSK 50_0	21100/2535	1:1	0.338	0.141	0.04	20.72	22.50	1.507	0.509	22.3	Yes
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.741	0.326	0.09	20.72	22.50	1.507	1.116	22.3	Yes
Bottom side	20	QPSK 50_25	20850/2510	1:1	0.783	0.342	-0.05	20.48	22.50	1.592	1.247	22.3	No
Bottom side	20	QPSK 50_25	21350/2560	1:1	0.803	0.367	0.02	20.47	22.50	1.596	1.281	22.3	No
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Bottom side	20	QPSK 100_0	21100/2535	1:1	0.732	0.337	0.13	20.70	22.50	1.514	1.108	22.3	Yes
Ant 9 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	21100/2535	1:1	0.128	0.054	-0.18	9.91	23.50	22.856	2.926	22.3	No
Back side	20	QPSK 1_0	21100/2535	1:1	0.184	0.068	-0.14	9.91	23.50	22.856	4.206	22.3	No
Left side	20	QPSK 1_99	21350/2560	1:1	0.429	0.140	0.02	9.91	23.50	22.856	9.805	22.3	No
Top side	20	QPSK 1_0	21100/2535	1:1	0.005	0.003	-0.04	9.91	23.50	22.856	0.114	22.3	Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_0	21100/2535	1:1	0.113	0.048	0.13	9.97	22.50	17.906	2.023	22.3	No
Back side	20	QPSK 50_0	21100/2535	1:1	0.166	0.067	-0.18	9.97	22.50	17.906	2.972	22.3	No
Left side	20	QPSK 50_0	21100/2535	1:1	0.369	0.135	-0.03	9.97	22.50	17.906	6.607	22.3	No
Top side	20	QPSK 50_0	21100/2535	1:1	0.005	0.002	0.12	9.97	22.50	17.906	0.090	22.3	Yes

LTE Band 26 SAR Test Record													
Ant 0 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	15	QPSK 1_0	26765/821.5	1:1	0.371	0.221	-0.16	20.77	23.50	1.875	0.696	22.3	Yes
Back side	15	QPSK 1_0	26765/821.5	1:1	0.814	0.437	-0.02	20.77	23.50	1.875	1.526	22.3	No
Left side	15	QPSK 1_0	26765/821.5	1:1	0.321	0.204	0.17	20.77	23.50	1.875	0.602	22.3	Yes
Bottom side	15	QPSK 1_0	26765/821.5	1:1	0.536	0.284	-0.05	20.77	23.50	1.875	1.005	22.3	Yes
Back side	15	QPSK 1_38	26865/831.5	1:1	0.864	0.482	-0.04	20.67	23.50	1.919	1.658	22.3	No
Back side-Repeated	15	QPSK 1_38	26865/831.5	1:1	0.838	0.465	0.18	20.67	23.50	1.919	1.608	22.3	No
Back side with Sample2	15	QPSK 1_38	26865/831.5	1:1	0.847	0.470	-0.02	20.67	23.50	1.919	1.625	22.3	No
Back side	15	QPSK 1_0	26965/841.5	1:1	0.850	0.473	-0.08	20.74	23.50	1.888	1.605	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	15	QPSK 36_0	26865/831.5	1:1	0.420	0.250	-0.18	20.93	22.50	1.435	0.603	22.3	Yes
Back side	15	QPSK 36_0	26865/831.5	1:1	0.849	0.476	-0.17	20.93	22.50	1.435	1.219	22.3	No
Left side	15	QPSK 36_0	26865/831.5	1:1	0.284	0.190	0.03	20.93	22.50	1.435	0.408	22.3	Yes



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Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.474	0.265	0.11	20.93	22.50	1.435	0.680	22.3	Yes
Back side	15	QPSK 36_0	26765/821.5	1:1	0.720	0.407	0.15	20.90	22.50	1.445	1.041	22.3	Yes
Back side	15	QPSK 36_0	26965/841.5	1:1	0.820	0.464	-0.03	20.63	22.50	1.538	1.261	22.3	No
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI1													
Back side	15	QPSK 75_0	26765/821.5	1:1	0.713	0.402		20.93	22.50	1.435	1.024	22.3	Yes

LTE Band 41 SAR Test Record													
Ant 0 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.170	0.073	-0.05	18.83	22.00	2.075	0.353	22.3	Yes
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.628	0.198	-0.08	18.83	22.00	2.075	1.303	22.3	No
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.085	0.033	0.18	18.83	22.00	2.075	0.176	22.3	Yes
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.369	0.116	-0.09	18.83	22.00	2.075	0.766	22.3	Yes
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.821	0.296	-0.06	18.76	22.00	2.109	1.731	22.3	No
Back side	20	QPSK 1_99	40185/2549.5	1:1.58	0.609	0.215	-0.13	18.77	22.00	2.104	1.281	22.3	No
Back side	20	QPSK 1_99	41055/2636.5	1:1.58	0.721	0.253	-0.04	18.61	22.00	2.183	1.574	22.3	No
Back side	20	QPSK 1_99	41490/2680	1:1.58	0.945	0.338	0.01	18.61	22.00	2.183	2.063	22.3	No
Back side with HPUE	20	QPSK 1_99	41490/2680	1:2.31	0.897	0.352	0.08	20.38	24.00	2.301	2.064	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.154	0.078	0.04	18.85	21.00	1.641	0.253	22.3	Yes
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.562	0.198	-0.11	18.85	21.00	1.641	0.922	22.3	Yes
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.076	0.033	-0.14	18.85	21.00	1.641	0.125	22.3	Yes
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.338	0.118	-0.10	18.85	21.00	1.641	0.555	22.3	Yes
Back side	20	QPSK 50_50	39750/2506	1:1.58	0.736	0.295	0.19	18.75	21.00	1.679	1.236	22.3	No
Back side	20	QPSK 50_25	40185/2549.5	1:1.58	0.583	0.229	0.12	18.80	21.00	1.660	0.968	22.3	Yes
Back side	20	QPSK 50_50	41055/2636.5	1:1.58	0.640	0.251	0.06	18.43	21.00	1.807	1.157	22.3	Yes
Back side	20	QPSK 50_25	41490/2680	1:1.58	0.864	0.341	0.10	18.51	21.00	1.774	1.533	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Back side	20	QPSK 100_0	40620/2593	1:1.58	0.547	0.183	-0.16	18.83	21.00	1.648	0.902	22.3	Yes
Ant 1 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.174	0.089	0.09	14.91	22.00	5.117	0.890	22.3	Yes
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.231	0.118	0.15	14.91	22.00	5.117	1.182	22.3	Yes
Left side	20	QPSK 1_99	39750/2506	1:1.58	0.185	0.094	-0.02	14.91	22.00	5.117	0.947	22.3	Yes
Top side	20	QPSK 1_99	39750/2506	1:1.58	0.454	0.174	-0.05	14.91	22.00	5.117	2.323	22.3	No
Top side with HPUE	20	QPSK 1_99	39750/2506	1:2.31	0.429	0.163	-0.19	16.68	24.00	5.395	2.315	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.132	0.070	0.13	14.92	21.00	4.055	0.535	22.3	Yes
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.259	0.122	0.02	14.92	21.00	4.055	1.050	22.3	Yes



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Left side	20	QPSK 50_0	40620/2593	1:1.58	0.149	0.074	0.05	14.92	21.00	4.055	0.604	22.3	Yes
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.369	0.138	0.04	14.92	21.00	4.055	1.496	22.3	No
Ant 2 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_50	40620/2593	1:1.58	0.414	0.224	0.06	22.36	23.50	1.300	0.538	22.3	Yes
Back side	20	QPSK 1_50	40620/2593	1:1.58	0.500	0.248	0.19	22.36	23.50	1.300	0.650	22.3	Yes
Right side	20	QPSK 1_50	40620/2593	1:1.58	0.094	0.048	0.09	22.36	23.50	1.300	0.122	22.3	Yes
Bottom side	20	QPSK 1_50	40620/2593	1:1.58	0.863	0.398	0.17	22.36	23.50	1.300	1.122	22.3	Yes
Bottom side	20	QPSK 1_99	39750/2506	1:1.58	0.616	0.291	0.00	22.27	23.50	1.327	0.818	22.3	Yes
Bottom side	20	QPSK 1_99	40185/2549.5	1:1.58	0.589	0.266	-0.06	22.23	23.50	1.340	0.789	22.3	Yes
Bottom side	20	QPSK 1_50	41055/2636.5	1:1.58	0.783	0.340	0.12	22.18	23.50	1.355	1.061	22.3	Yes
Bottom side	20	QPSK 1_99	41490/2680	1:1.58	0.958	0.420	0.12	22.18	23.50	1.355	1.298	22.3	No
Bottom side-Repeated	20	QPSK 1_99	41490/2680	1:1.58	0.939	0.411	0.16	22.18	23.50	1.355	1.273	22.3	No
Bottom side with HPUE	20	QPSK 1_99	41490/2680	1:2.31	0.897	0.391	-0.01	23.94	25.50	1.432	1.285	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.388	0.197	0.15	21.78	22.50	1.180	0.458	22.3	Yes
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.412	0.218	0.07	21.78	22.50	1.180	0.486	22.3	Yes
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.082	0.042	-0.03	21.78	22.50	1.180	0.097	22.3	Yes
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.766	0.353	0.18	21.78	22.50	1.180	0.904	22.3	Yes
Bottom side	20	QPSK 50_50	39750/2506	1:1.58	0.567	0.267	0.07	21.49	22.50	1.262	0.715	22.3	Yes
Bottom side	20	QPSK 50_50	40185/2549.5	1:1.58	0.548	0.247	0.03	21.55	22.50	1.245	0.682	22.3	Yes
Bottom side	20	QPSK 50_25	41055/2636.5	1:1.58	0.718	0.313	0.17	21.36	22.50	1.300	0.934	22.3	Yes
Bottom side	20	QPSK 50_25	41490/2680	1:1.58	0.795	0.338	-0.02	21.41	22.50	1.285	1.022	22.3	Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Bottom side	20	QPSK 100_0	40620/2593	1:1.58	0.751	0.347	0.04	21.74	22.50	1.191	0.895	22.3	Yes
Ant 9 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.132	0.055	0.08	13.24	23.50	10.617	1.401	22.3	No
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.134	0.057	0.04	13.24	23.50	10.617	1.423	22.3	No
Left side	20	QPSK 1_99	39750/2506	1:1.58	0.498	0.170	0.01	13.24	23.50	10.617	5.287	22.3	No
Top side	20	QPSK 1_99	39750/2506	1:1.58	0.011	0.006	0.03	13.24	23.50	10.617	0.117	22.3	Yes
Left side-HPUE	20	QPSK 1_99	39750/2506	1:2.31	0.435	0.161	0.07	14.74	25.50	11.912	5.182	22.3	No
Left side with Sample2	20	QPSK 1_99	39750/2506	1:1.58	0.469	0.161	0.02	13.24	23.50	10.617	4.979	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.121	0.049	-0.13	13.20	22.50	8.511	1.030	22.3	Yes
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.141	0.053	-0.17	13.20	22.50	8.511	1.200	22.3	No
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.447	0.153	0.00	13.20	22.50	8.511	3.805	22.3	No
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.013	0.005	-0.11	13.20	22.50	8.511	0.111	22.3	Yes



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LTE Band 42 SAR Test Record													
Ant 0 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_99	42990/3540	1:1.58	0.228	0.099	0.16	15.83	21.50	3.690	0.841	22.3	Yes
Back side	20	QPSK 1_99	42990/3540	1:1.58	0.420	0.187	0.19	15.83	21.50	3.690	1.550	22.3	No
Right side	20	QPSK 1_99	42990/3540	1:1.58	0.120	0.052	0.01	15.83	21.50	3.690	0.443	22.3	Yes
Top side	20	QPSK 1_99	42990/3540	1:1.58	0.324	0.113	0.18	15.83	21.50	3.690	1.195	22.3	Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_50	42990/3540	1:1.58	0.215	0.091	0.06	15.85	20.50	2.917	0.627	22.3	Yes
Back side	20	QPSK 50_50	42990/3540	1:1.58	0.451	0.184	-0.11	15.85	20.50	2.917	1.316	22.3	No
Right side	20	QPSK 50_50	42990/3540	1:1.58	0.122	0.054	-0.13	15.85	20.50	2.917	0.356	22.3	Yes
Top side	20	QPSK 50_50	42990/3540	1:1.58	0.323	0.110	0.10	15.85	20.50	2.917	0.942	22.3	Yes
Ant 7 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	42990/3540	1:1.58	0.220	0.089	0.09	14.57	24.00	8.770	1.929	22.3	No
Back side	20	QPSK 1_0	42990/3540	1:1.58	0.319	0.129	0.11	14.57	24.00	8.770	2.798	22.3	No
Left side	20	QPSK 1_0	42990/3540	1:1.58	0.432	0.164	-0.12	14.57	24.00	8.770	3.789	22.3	No
Top side	20	QPSK 1_0	42990/3540	1:1.58	0.069	0.031	-0.05	14.57	24.00	8.770	0.605	22.3	Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_25	42990/3540	1:1.58	0.201	0.087	0.10	14.48	23.00	7.112	1.430	22.3	No
Back side	20	QPSK 50_25	42990/3540	1:1.58	0.349	0.157	0.08	14.48	23.00	7.112	2.482	22.3	No
Left side	20	QPSK 50_25	42990/3540	1:1.58	0.456	0.160	-0.01	14.48	23.00	7.112	3.243	22.3	No
Left side with Sample2	20	QPSK 50_25	42990/3540	1:1.58	0.439	0.153	-0.06	14.48	23.00	7.112	3.122	22.3	No
Top side	20	QPSK 50_25	42990/3540	1:1.58	0.063	0.030	-0.11	14.48	23.00	7.112	0.448	22.3	Yes
Ant 8 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	42590/3500	1:1.58	0.195	0.074	0.16	19.93	23.00	2.028	0.395	22.3	Yes
Back side	20	QPSK 1_0	42590/3500	1:1.58	0.320	0.109	0.16	19.93	23.00	2.028	0.649	22.3	Yes
Right side	20	QPSK 1_0	42590/3500	1:1.58	0.673	0.200	-0.04	19.93	23.00	2.028	1.365	22.3	No
Bottom side	20	QPSK 1_0	42590/3500	1:1.58	0.112	0.047	-0.18	19.93	23.00	2.028	0.227	22.3	Yes
Right side	20	QPSK 1_99	42190/3460	1:1.58	0.376	0.120	-0.02	19.89	23.00	2.046	0.769	22.3	Yes
Right side	20	QPSK 1_99	42990/3540	1:1.58	0.423	0.130	0.19	19.91	23.00	2.037	0.862	22.3	Yes



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Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_0	42590/3500	1:1.58	0.198	0.078	-0.12	19.91	22.00	1.618	0.320	22.3	Yes
Back side	20	QPSK 50_0	42590/3500	1:1.58	0.357	0.114	0.04	19.91	22.00	1.618	0.578	22.3	Yes
Right side	20	QPSK 50_0	42590/3500	1:1.58	0.636	0.179	-0.10	19.91	22.00	1.618	1.029	22.3	Yes
Bottom side	20	QPSK 50_0	42590/3500	1:1.58	0.109	0.048	0.11	19.91	22.00	1.618	0.176	22.3	Yes
Ant 10 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_99	42990/3540	1:1.58	0.011	0.005	-0.15	10.73	21.50	11.940	0.131	22.3	Yes
Back side	20	QPSK 1_99	42990/3540	1:1.58	0.366	0.149	0.13	10.73	21.50	11.940	4.370	22.3	No
Right side	20	QPSK 1_99	42990/3540	1:1.58	0.059	0.025	0.00	10.73	21.50	11.940	0.704	22.3	Yes
Top side	20	QPSK 1_99	42990/3540	1:1.58	0.054	0.027	-0.13	10.73	21.50	11.940	0.645	22.3	Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_50	42990/3540	1:1.58	0.010	0.005	-0.12	10.79	20.50	9.354	0.094	22.3	Yes
Back side	20	QPSK 50_50	42990/3540	1:1.58	0.363	0.144	-0.09	10.79	20.50	9.354	3.396	22.3	No
Right side	20	QPSK 50_50	42990/3540	1:1.58	0.058	0.024	-0.02	10.79	20.50	9.354	0.543	22.3	Yes
Top side	20	QPSK 50_50	42990/3540	1:1.58	0.051	0.025	-0.14	10.79	20.50	9.354	0.477	22.3	Yes

LTE Band 66 SAR Test Record													
Ant 0 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_99	132572/1770	1:1	0.380	0.180	0.12	15.09	22.00	4.909	1.865	22.3	No
Back side	20	QPSK 1_99	132572/1770	1:1	0.651	0.320	0.00	15.09	22.00	4.909	3.196	22.3	No
Left side	20	QPSK 1_99	132572/1770	1:1	0.327	0.138	0.15	15.09	22.00	4.909	1.605	22.3	No
Bottom side	20	QPSK 1_99	132572/1770	1:1	0.525	0.227	-0.02	15.09	22.00	4.909	2.577	22.3	No
Back side	20	QPSK 1_99	132072/1720	1:1	0.745	0.362	-0.05	15.08	22.00	4.920	3.666	22.3	No
Back side	20	QPSK 1_99	132322/1745	1:1	0.680	0.330	0.12	14.96	22.00	5.058	3.440	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_50	132572/1770	1:1	0.358	0.168	-0.14	15.08	21.00	3.908	1.399	22.3	No
Back side	20	QPSK 50_50	132572/1770	1:1	0.630	0.312	0.11	15.08	21.00	3.908	2.462	22.3	No
Left side	20	QPSK 50_50	132572/1770	1:1	0.282	0.121	0.05	15.08	21.00	3.908	1.102	22.3	Yes
Bottom side	20	QPSK 50_50	132572/1770	1:1	0.466	0.201	-0.04	15.08	21.00	3.908	1.821	22.3	No
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Back side	20	QPSK 100_0	132072/1720	1:1	0.718	0.348	-0.11	15.02	21.00	3.963	2.845	22.3	No
Ant 1 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													



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Front side	20	QPSK 1_50	132572/1770	1:1	0.204	0.111	0.15	12.03	22.50	11.143	2.273	22.3	No
Back side	20	QPSK 1_50	132572/1770	1:1	0.227	0.121	-0.02	12.03	22.50	11.143	2.529	22.3	No
Left side	20	QPSK 1_50	132572/1770	1:1	0.037	0.021	-0.14	12.03	22.50	11.143	0.412	22.3	Yes
Top side	20	QPSK 1_50	132572/1770	1:1	0.397	0.184	-0.11	12.03	22.50	11.143	4.424	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_50	132322/1745	1:1	0.175	0.087	-0.15	11.97	21.50	8.974	1.571	22.3	No
Back side	20	QPSK 50_50	132322/1745	1:1	0.244	0.116	-0.05	11.97	21.50	8.974	2.190	22.3	No
Left side	20	QPSK 50_50	132322/1745	1:1	0.034	0.018	0.15	11.97	21.50	8.974	0.305	22.3	Yes
Top side	20	QPSK 50_50	132322/1745	1:1	0.346	0.146	-0.07	11.97	21.50	8.974	3.105	22.3	No
Ant 2 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_50	132072/1720	1:1	0.434	0.258	-0.04	19.73	23.50	2.382	1.034	22.3	Yes
Back side	20	QPSK 1_50	132072/1720	1:1	0.533	0.319	-0.03	19.73	23.50	2.382	1.270	22.3	No
Right side	20	QPSK 1_50	132072/1720	1:1	0.079	0.048	0.02	19.73	23.50	2.382	0.188	22.3	Yes
Bottom side	20	QPSK 1_50	132072/1720	1:1	0.719	0.396	-0.12	19.73	23.50	2.382	1.713	22.3	No
Bottom side	20	QPSK 1_99	132322/1745	1:1	0.673	0.342	-0.16	19.71	23.50	2.393	1.611	22.3	No
Bottom side	20	QPSK 1_99	132572/1770	1:1	0.557	0.283	0.06	19.68	23.50	2.410	1.342	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_50	132322/1745	1:1	0.415	0.234	0.16	19.78	22.50	1.871	0.776	22.3	Yes
Back side	20	QPSK 50_50	132322/1745	1:1	0.516	0.282	-0.03	19.78	22.50	1.871	0.965	22.3	Yes
Right side	20	QPSK 50_50	132322/1745	1:1	0.072	0.042	-0.01	19.78	22.50	1.871	0.135	22.3	Yes
Bottom side	20	QPSK 50_50	132322/1745	1:1	0.645	0.324	0.07	19.78	22.50	1.871	1.207	22.3	No
Bottom side	20	QPSK 50_50	132072/1720	1:1	0.686	0.349	0.01	19.72	22.50	1.897	1.301	22.3	No
Bottom side	20	QPSK 50_25	132572/1770	1:1	0.494	0.252	-0.11	19.68	22.50	1.914	0.946	22.3	Yes
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Bottom side	20	QPSK 100_0	132322/1745	1:1	0.629	0.314	0.06	19.68	22.50	1.914	1.204	22.3	No
Ant 9 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_99	132572/1770	1:1	0.155	0.068	-0.05	14.96	23.50	7.145	1.107	22.3	Yes
Back side	20	QPSK 1_99	132572/1770	1:1	0.238	0.098	0.16	14.96	23.50	7.145	1.701	22.3	No
Left side	20	QPSK 1_99	132572/1770	1:1	0.402	0.166	-0.05	14.96	23.50	7.145	2.872	22.3	No
Top side	20	QPSK 1_99	132572/1770	1:1	0.016	0.083	0.10	14.96	23.50	7.145	0.114	22.3	Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_25	132572/1770	1:1	0.145	0.068	0.10	15.01	22.50	5.610	0.814	22.3	Yes
Back side	20	QPSK 50_25	132572/1770	1:1	0.225	0.103	0.13	15.01	22.50	5.610	1.262	22.3	No
Left side	20	QPSK 50_25	132572/1770	1:1	0.359	0.154	-0.06	15.01	22.50	5.610	2.014	22.3	No
Top side	20	QPSK 50_25	132572/1770	1:1	0.013	0.008	-0.01	15.01	22.50	5.610	0.073	22.3	Yes



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SA N41 SAR Test Record													
Ant 0 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_1	513900/2569.5	100%	0.397	0.188	-0.08	16.51	23.00	4.457	1.769	22.3	No
Back side	100	QPSK 1_1	513900/2569.5	100%	0.716	0.324	0.06	16.51	23.00	4.457	3.191	22.3	No
Left side	100	QPSK 1_1	513900/2569.5	100%	0.051	0.027	0.10	16.51	23.00	4.457	0.227	22.3	Yes
Bottom side	100	QPSK 1_1	513900/2569.5	100%	0.469	0.230	-0.10	16.51	23.00	4.457	2.090	22.3	No
Back side	100	QPSK 1_137	509202/2546.01	100%	0.803	0.303	0.10	16.38	23.00	4.592	3.687	22.3	No
Back side	100	QPSK 1_137	518598/2592.99	100%	0.719	0.309	-0.07	16.40	23.00	4.571	3.286	22.3	No
Back side	100	QPSK 1_137	523302/2616.51	100%	0.652	0.268	0.13	16.32	23.00	4.656	3.036	22.3	No
Back side	100	QPSK 1_271	528000/2640	100%	0.676	0.270	0.14	16.40	23.00	4.571	3.090	22.3	No
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	513900/2569.5	100%	0.363	0.179	-0.16	16.63	23.00	4.335	1.574	22.3	No
Back side	100	QPSK 135_69	513900/2569.5	100%	0.894	0.338	-0.02	16.63	23.00	4.335	3.876	22.3	No
Left side	100	QPSK 135_69	513900/2569.5	100%	0.146	0.064	-0.02	16.63	23.00	4.335	0.633	22.3	Yes
Bottom side	100	QPSK 135_69	513900/2569.5	100%	0.485	0.194	0.07	16.63	23.00	4.335	2.103	22.3	No
Back side	100	QPSK 135_69	509202/2546.01	100%	0.834	0.323	-0.15	16.57	23.00	4.395	3.666	22.3	No
Back side	100	QPSK 135_69	518598/2592.99	100%	0.766	0.318	-0.05	16.45	23.00	4.519	3.461	22.3	No
Back side	100	QPSK 135_69	523302/2616.51	100%	0.686	0.285	0.04	16.47	23.00	4.498	3.085	22.3	No
Back side	100	QPSK 135_69	528000/2640	100%	0.921	0.335	-0.09	16.48	23.00	4.487	4.133	22.3	No
Back side-Repeated	100	QPSK 135_69	528000/2640	100%	0.903	0.323	-0.04	16.48	23.00	4.487	4.052	22.3	No
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Back side	100	QPSK 270_0	513900/2569.5	100%	0.464	0.209	0.04	15.29	22.00	4.688	2.175	22.3	No
Ant 1 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_137	518598/2592.99	100%	0.167	0.087	0.12	14.10	23.00	7.762	1.296	22.3	No
Back side	100	QPSK 1_137	518598/2592.99	100%	0.313	0.134	-0.06	14.10	23.00	7.762	2.430	22.3	No
Left side	100	QPSK 1_137	518598/2592.99	100%	0.174	0.088	-0.05	14.10	23.00	7.762	1.351	22.3	No
Top side	100	QPSK 1_137	518598/2592.99	100%	0.423	0.159	-0.06	14.10	23.00	7.762	3.284	22.3	No
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	513900/2569.5	100%	0.165	0.087	-0.03	14.21	23.00	7.568	1.249	22.3	No
Back side	100	QPSK 135_69	513900/2569.5	100%	0.280	0.130	-0.18	14.21	23.00	7.568	2.119	22.3	No
Left side	100	QPSK 135_69	513900/2569.5	100%	0.159	0.081	-0.08	14.21	23.00	7.568	1.203	22.3	No
Top side	100	QPSK 135_69	513900/2569.5	100%	0.379	0.150	-0.14	14.21	23.00	7.568	2.868	22.3	No
Ant 2 Test Record													



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Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_1	513900/2569.5	100%	0.601	0.321	-0.06	20.29	23.50	2.094	1.259	22.3	No
Back side	100	QPSK 1_1	513900/2569.5	100%	0.488	0.238	-0.11	20.29	23.50	2.094	1.022	22.3	Yes
Right side	100	QPSK 1_1	513900/2569.5	100%	0.191	0.093	-0.08	20.29	23.50	2.094	0.400	22.3	Yes
Bottom side	100	QPSK 1_1	513900/2569.5	100%	0.753	0.352	-0.10	20.29	23.50	2.094	1.577	22.3	No
Front side	100	QPSK 1_271	509202/2546.01	100%	0.587	0.275	-0.01	20.10	23.50	2.188	1.284	22.3	No
Front side	100	QPSK 1_137	518598/2592.99	100%	0.703	0.335	-0.10	20.19	23.50	2.143	1.506	22.3	No
Front side	100	QPSK 1_1	523302/2616.51	100%	0.579	0.270	-0.01	20.10	23.50	2.188	1.267	22.3	No
Front side	100	QPSK 1_1	528000/2640	100%	0.634	0.295	-0.15	20.17	23.50	2.153	1.365	22.3	No
Bottom side	100	QPSK 1_271	509202/2546.01	100%	0.735	0.344	-0.10	20.10	23.50	2.188	1.608	22.3	No
Bottom side	100	QPSK 1_137	518598/2592.99	100%	0.915	0.420	0.03	20.19	23.50	2.143	1.961	22.3	No
Bottom side	100	QPSK 1_1	523302/2616.51	100%	0.726	0.338	-0.03	20.10	23.50	2.188	1.588	22.3	No
Bottom side	100	QPSK 1_1	528000/2640	100%	0.794	0.370	0.11	20.17	23.50	2.153	1.709	22.3	No
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	513900/2569.5	100%	0.549	0.303	-0.01	20.24	23.50	2.118	1.163	22.3	Yes
Back side	100	QPSK 135_69	513900/2569.5	100%	0.469	0.210	-0.01	20.24	23.50	2.118	0.994	22.3	Yes
Right side	100	QPSK 135_69	513900/2569.5	100%	0.158	0.076	-0.09	20.24	23.50	2.118	0.335	22.3	Yes
Bottom side	100	QPSK 135_69	513900/2569.5	100%	0.823	0.376	-0.02	20.24	23.50	2.118	1.743	22.3	No
Front side	100	QPSK 135_69	509202/2546.01	100%	0.526	0.298	0.04	20.22	23.50	2.128	1.119	22.3	Yes
Front side	100	QPSK 135_69	518598/2592.99	100%	0.572	0.317	0.04	20.22	23.50	2.128	1.217	22.3	No
Front side	100	QPSK 135_69	523302/2616.51	100%	0.594	0.336	0.12	20.15	23.50	2.163	1.285	22.3	No
Front side	100	QPSK 135_69	528000/2640	100%	0.587	0.325	-0.09	20.05	23.50	2.213	1.299	22.3	No
Bottom side	100	QPSK 135_69	509202/2546.01	100%	0.789	0.370	0.14	20.22	23.50	2.128	1.679	22.3	No
Bottom side	100	QPSK 135_69	518598/2592.99	100%	0.857	0.393	0.10	20.22	23.50	2.128	1.824	22.3	No
Bottom side	100	QPSK 135_69	523302/2616.51	100%	0.891	0.417	-0.13	20.15	23.50	2.163	1.927	22.3	No
Bottom side	100	QPSK 135_69	528000/2640	100%	0.880	0.403	0.07	20.05	23.50	2.213	1.948	22.3	No
Hotspot Test data (Separate 10mm 100%RB) ECI 7													
Front side	100	QPSK 270_0	518598/2592.99	100%	0.504	0.324	-0.13	19.08	22.50	2.198	1.108	22.3	Yes
Bottom side	100	QPSK 270_0	518598/2592.99	100%	0.632	0.355	-0.03	19.08	22.50	2.198	1.389	22.3	No
Ant 9 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_1	513900/2569.5	100%	0.084	0.036	0.19	10.58	23.50	19.588	1.645	22.3	No
Back side	100	QPSK 1_1	513900/2569.5	100%	0.143	0.053	0.17	10.58	23.50	19.588	2.801	22.3	No
Left side	100	QPSK 1_1	513900/2569.5	100%	0.354	0.128	0.06	10.58	23.50	19.588	6.934	22.3	No
Top side	100	QPSK 1_1	513900/2569.5	100%	0.004	0.002	0.17	10.58	23.50	19.588	0.078	22.3	Yes
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	513900/2569.5	100%	0.101	0.030	-0.12	10.57	23.50	19.634	1.983	22.3	No
Back side	100	QPSK 135_69	513900/2569.5	100%	0.153	0.058	-0.05	10.57	23.50	19.634	3.004	22.3	No
Left side	100	QPSK 135_69	513900/2569.5	100%	0.401	0.135	0.03	10.57	23.50	19.634	7.873	22.3	No



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Top side	100	QPSK 135_69	513900/2569.5	100%	0.006	0.003	0.18	10.57	23.50	19.634	0.118	22.3	Yes

SA N66 SAR Test Record													
Ant 1 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	45	QPSK 1_121	349000/1745	100%	0.191	0.093	-0.08	12.26	22.00	9.419	1.799	22.3	No
Back side	45	QPSK 1_121	349000/1745	100%	0.297	0.142	0.09	12.26	22.00	9.419	2.797	22.3	No
Left side	45	QPSK 1_121	349000/1745	100%	0.030	0.016	0.17	12.26	22.00	9.419	0.283	22.3	Yes
Top side	45	QPSK 1_121	349000/1745	100%	0.402	0.180	-0.14	12.26	22.00	9.419	3.786	22.3	No
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	45	QPSK 120_60	346500/1732.5	100%	0.154	0.073	-0.14	12.33	22.00	9.268	1.427	22.3	No
Back side	45	QPSK 120_60	346500/1732.5	100%	0.239	0.117	0.14	12.33	22.00	9.268	2.215	22.3	No
Left side	45	QPSK 120_60	346500/1732.5	100%	0.021	0.011	-0.06	12.33	22.00	9.268	0.195	22.3	Yes
Top side	45	QPSK 120_60	346500/1732.5	100%	0.338	0.145	0.00	12.33	22.00	9.268	3.133	22.3	No
Ant 2 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	45	QPSK 1_1	346500/1732.5	100%	0.640	0.329	0.08	21.08	23.50	1.746	1.117	22.3	Yes
Back side	45	QPSK 1_1	346500/1732.5	100%	0.722	0.396	-0.04	21.08	23.50	1.746	1.260	22.3	No
Right side	45	QPSK 1_1	346500/1732.5	100%	0.378	0.190	-0.08	21.08	23.50	1.746	0.660	22.3	Yes
Bottom side	45	QPSK 1_1	346500/1732.5	100%	0.954	0.487	-0.05	21.08	23.50	1.746	1.666	22.3	No
Bottom side-Repeated	45	QPSK 1_1	346500/1732.5	100%	0.931	0.473	0.16	21.08	23.50	1.746	1.625	22.3	No
Bottom side with Sample2	45	QPSK 1_1	346500/1732.5	100%	0.711	0.380	-0.02	21.08	23.50	1.746	1.241	22.3	No
Back side	45	QPSK 1_121	349000/1745	100%	0.670	0.369	-0.09	21.06	23.50	1.754	1.175	22.3	Yes
Back side	45	QPSK 1_121	351500/1757.5	100%	0.571	0.298	0.13	20.96	23.50	1.795	1.025	22.3	Yes
Bottom side	45	QPSK 1_121	349000/1745	100%	0.906	0.469	-0.04	21.06	23.50	1.754	1.589	22.3	No
Bottom side	45	QPSK 1_121	351500/1757.5	100%	0.772	0.379	-0.11	20.96	23.50	1.795	1.386	22.3	No
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	45	QPSK 120_60	346500/1732.5	100%	0.625	0.367	-0.13	21.16	23.50	1.714	1.071	22.3	Yes
Back side	45	QPSK 120_60	346500/1732.5	100%	0.653	0.355	-0.08	21.16	23.50	1.714	1.119	22.3	Yes
Right side	45	QPSK 120_60	346500/1732.5	100%	0.309	0.154	-0.12	21.16	23.50	1.714	0.530	22.3	Yes
Bottom side	45	QPSK 120_60	346500/1732.5	100%	0.807	0.411	-0.17	21.16	23.50	1.714	1.383	22.3	No
Bottom side	45	QPSK 120_60	349000/1745	100%	0.885	0.450	-0.14	21.06	23.50	1.754	1.552	22.3	No
Bottom side	45	QPSK 120_60	351500/1757.5	100%	0.772	0.394	-0.18	21.13	23.50	1.726	1.332	22.3	No
Hotspot Test data (Separate 10mm 100%RB) ECI 7													
Back side	45	QPSK 120_60	346500/1732.5	100%	0.490	0.268	0.07	20.07	22.50	1.750	0.857	22.3	Yes
Bottom side	45	QPSK 120_60	346500/1732.5	100%	0.509	0.234	0.03	20.07	22.50	1.750	0.891	22.3	Yes



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SA N77(3450-3550) SAR Test Record													
Ant 4 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_271	633334/3500	100%	0.164	0.069	-0.18	12.17	22.00	9.616	1.577	22.3	No
Back side	100	QPSK 1_271	633334/3500	100%	0.305	0.125	-0.19	12.17	22.00	9.616	2.933	22.3	No
Right side	100	QPSK 1_271	633334/3500	100%	0.066	0.031	0.05	12.17	22.00	9.616	0.635	22.3	Yes
Top side	100	QPSK 1_271	633334/3500	100%	0.203	0.078	0.04	12.17	22.00	9.616	1.952	22.3	No
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	633334/3500	100%	0.139	0.061	0.10	12.01	22.00	9.977	1.387	22.3	No
Back side	100	QPSK 135_69	633334/3500	100%	0.272	0.111	0.18	12.01	22.00	9.977	2.714	22.3	No
Right side	100	QPSK 135_69	633334/3500	100%	0.071	0.032	0.01	12.01	22.00	9.977	0.708	22.3	Yes
Top side	100	QPSK 135_69	633334/3500	100%	0.181	0.071	0.14	12.01	22.00	9.977	1.806	22.3	No
Ant 7 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_1	633334/3500	100%	0.133	0.057	-0.17	11.89	23.50	14.488	1.927	22.3	No
Back side	100	QPSK 1_1	633334/3500	100%	0.240	0.106	0.12	11.89	23.50	14.488	3.477	22.3	No
Left side	100	QPSK 1_1	633334/3500	100%	0.310	0.122	0.16	11.89	23.50	14.488	4.491	22.3	No
Top side	100	QPSK 1_1	633334/3500	100%	0.048	0.021	0.04	11.89	23.50	14.488	0.695	22.3	Yes
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	633334/3500	100%	0.126	0.051	0.02	11.53	23.50	15.740	1.983	22.3	No
Back side	100	QPSK 135_69	633334/3500	100%	0.255	0.104	-0.13	11.53	23.50	15.740	4.014	22.3	No
Left side	100	QPSK 135_69	633334/3500	100%	0.286	0.108	-0.05	11.53	23.50	15.740	4.502	22.3	No
Top side	100	QPSK 135_69	633334/3500	100%	0.044	0.020	-0.17	11.53	23.50	15.740	0.693	22.3	Yes
Ant 8 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_271	633334/3500	100%	0.126	0.043	0.10	16.30	23.50	5.248	0.661	22.3	Yes
Back side	100	QPSK 1_271	633334/3500	100%	0.185	0.063	0.06	16.30	23.50	5.248	0.971	22.3	Yes
Right side	100	QPSK 1_271	633334/3500	100%	0.407	0.110	-0.04	16.30	23.50	5.248	2.136	22.3	No
Bottom side	100	QPSK 1_271	633334/3500	100%	0.042	0.020	-0.10	16.30	23.50	5.248	0.220	22.3	Yes
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	633334/3500	100%	0.109	0.038	0.03	16.22	23.50	5.346	0.583	22.3	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.161	0.057	0.14	16.22	23.50	5.346	0.861	22.3	Yes
Right side	100	QPSK 135_69	633334/3500	100%	0.251	0.084	-0.18	16.22	23.50	5.346	1.342	22.3	No
Bottom side	100	QPSK 135_69	633334/3500	100%	0.041	0.017	-0.07	16.22	23.50	5.346	0.219	22.3	Yes



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Ant 10 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_271	633334/3500	100%	0.007	0.003	0.15	8.68	19.50	12.078	0.085	22.3	Yes
Back side	100	QPSK 1_271	633334/3500	100%	0.220	0.091	0.18	8.68	19.50	12.078	2.657	22.3	No
Right side	100	QPSK 1_271	633334/3500	100%	0.042	0.018	0.13	8.68	19.50	12.078	0.507	22.3	Yes
Top side	100	QPSK 1_271	633334/3500	100%	0.035	0.018	0.19	8.68	19.50	12.078	0.423	22.3	Yes
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	633334/3500	100%	0.007	0.003	0.14	8.39	19.50	12.912	0.090	22.3	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.220	0.092	-0.03	8.39	19.50	12.912	2.841	22.3	No
Right side	100	QPSK 135_69	633334/3500	100%	0.043	0.017	-0.18	8.39	19.50	12.912	0.555	22.3	Yes
Top side	100	QPSK 135_69	633334/3500	100%	0.036	0.018	-0.03	8.39	19.50	12.912	0.465	22.3	Yes

SA N77(3700-3980) SAR Test Record													
Ant 4 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_1	650000/3750	100%	0.212	0.085	-0.12	11.76	22.00	10.568	2.240	22.3	No
Back side	100	QPSK 1_1	650000/3750	100%	0.357	0.147	0.00	11.76	22.00	10.568	3.773	22.3	No
Right side	100	QPSK 1_1	650000/3750	100%	0.080	0.037	-0.06	11.76	22.00	10.568	0.845	22.3	Yes
Top side	100	QPSK 1_1	650000/3750	100%	0.282	0.104	0.05	11.76	22.00	10.568	2.980	22.3	No
Back side	100	QPSK 1_1	652400/3786	100%	0.356	0.150	0.03	11.39	22.00	11.508	4.097	22.3	No
Back side	100	QPSK 1_1	654800/3822	100%	0.366	0.153	-0.16	11.33	22.00	11.668	4.271	22.3	No
Back side	100	QPSK 1_1	657200/3858	100%	0.383	0.157	-0.09	11.19	22.00	12.050	4.615	22.3	No
Back side	100	QPSK 1_1	659600/3894	100%	0.381	0.154	0.12	11.08	22.00	12.359	4.709	22.3	No
Back side	100	QPSK 1_1	662000/3930	100%	0.369	0.151	0.04	10.84	22.00	13.062	4.820	22.3	No
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	650000/3750	100%	0.194	0.078	-0.06	11.40	22.00	11.482	2.227	22.3	No
Back side	100	QPSK 135_69	650000/3750	100%	0.332	0.146	0.12	11.40	22.00	11.482	3.812	22.3	No
Right side	100	QPSK 135_69	650000/3750	100%	0.062	0.029	-0.12	11.40	22.00	11.482	0.712	22.3	Yes
Top side	100	QPSK 135_69	650000/3750	100%	0.306	0.116	0.15	11.40	22.00	11.482	3.513	22.3	No
Back side	100	QPSK 135_69	652400/3786	100%	0.376	0.157	-0.07	11.29	22.00	11.776	4.428	22.3	No
Back side	100	QPSK 135_69	654800/3822	100%	0.398	0.163	0.01	11.23	22.00	11.940	4.752	22.3	No
Back side	100	QPSK 135_69	657200/3858	100%	0.385	0.156	-0.02	11.07	22.00	12.388	4.769	22.3	No
Back side	100	QPSK 135_69	659600/3894	100%	0.377	0.155	-0.08	10.83	22.00	13.092	4.936	22.3	No
Back side	100	QPSK 135_69	662000/3930	100%	0.372	0.159	0.00	10.72	22.00	13.428	4.995	22.3	No
Back side with Sample2	100	QPSK 135_69	662000/3930	100%	0.354	0.147	0.07	10.72	22.00	13.428	4.753	22.3	No
Ant 7 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion



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Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_1	650000/3750	100%	0.163	0.067	0.15	11.73	23.50	15.031	2.450	22.3	No
Back side	100	QPSK 1_1	650000/3750	100%	0.275	0.112	0.05	11.73	23.50	15.031	4.134	22.3	No
Left side	100	QPSK 1_1	650000/3750	100%	0.362	0.128	-0.10	11.73	23.50	15.031	5.441	22.3	No
Top side	100	QPSK 1_1	650000/3750	100%	0.042	0.017	-0.02	11.73	23.50	15.031	0.631	22.3	Yes
Left side	100	QPSK 1_1	652400/3786	100%	0.344	0.117	-0.06	11.52	23.50	15.776	5.427	22.3	No
Left side	100	QPSK 1_271	654800/3822	100%	0.346	0.115	0.04	11.35	23.50	16.406	5.676	22.3	No
Left side	100	QPSK 1_271	657200/3858	100%	0.350	0.116	0.14	11.32	23.50	16.520	5.782	22.3	No
Left side	100	QPSK 1_271	659600/3894	100%	0.350	0.117	0.09	11.37	23.50	16.331	5.716	22.3	No
Left side	100	QPSK 1_271	662000/3930	100%	0.363	0.119	-0.14	11.46	23.50	15.996	5.806	22.3	No
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	662000/3930	100%	0.117	0.048	-0.06	11.43	23.50	16.106	1.884	22.3	No
Back side	100	QPSK 135_69	662000/3930	100%	0.247	0.096	-0.08	11.43	23.50	16.106	3.978	22.3	No
Left side	100	QPSK 135_69	662000/3930	100%	0.339	0.132	-0.04	11.43	23.50	16.106	5.460	22.3	No
Top side	100	QPSK 135_69	662000/3930	100%	0.042	0.019	0.15	11.43	23.50	16.106	0.676	22.3	Yes
Left side	100	QPSK 135_69	650000/3750	100%	0.351	0.119	-0.03	11.38	23.50	16.293	5.719	22.3	No
Left side	100	QPSK 135_69	652400/3786	100%	0.352	0.119	0.11	11.20	23.50	16.982	5.978	22.3	No
Left side	100	QPSK 135_69	654800/3822	100%	0.353	0.119	-0.09	11.03	23.50	17.660	6.234	22.3	No
Left side	100	QPSK 135_69	657200/3858	100%	0.363	0.119	-0.06	11.28	23.50	16.672	6.052	22.3	No
Left side	100	QPSK 135_69	659600/3894	100%	0.372	0.123	0.05	11.45	23.50	16.032	5.964	22.3	No
Ant 8 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_1	652400/3786	100%	0.210	0.071	0.14	16.65	23.50	4.842	1.017	22.3	Yes
Back side	100	QPSK 1_1	652400/3786	100%	0.224	0.085	-0.16	16.65	23.50	4.842	1.085	22.3	Yes
Right side	100	QPSK 1_1	652400/3786	100%	0.560	0.184	0.02	16.65	23.50	4.842	2.711	22.3	No
Bottom side	100	QPSK 1_1	652400/3786	100%	0.059	0.026	0.09	16.65	23.50	4.842	0.286	22.3	Yes
Right side	100	QPSK 1_1	650000/3750	100%	0.641	0.208	0.13	16.59	23.50	4.909	3.147	22.3	No
Right side	100	QPSK 1_1	654800/3822	100%	0.580	0.187	0.00	16.26	23.50	5.297	3.072	22.3	No
Right side	100	QPSK 1_1	657200/3858	100%	0.555	0.178	0.02	16.63	23.50	4.864	2.700	22.3	No
Right side	100	QPSK 1_1	659600/3894	100%	0.549	0.176	0.14	16.13	23.50	5.458	2.996	22.3	No
Right side	100	QPSK 1_1	662000/3930	100%	0.546	0.175	0.05	15.89	23.50	5.768	3.149	22.3	No
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	650000/3750	100%	0.181	0.069	-0.16	16.65	23.50	4.842	0.876	22.3	Yes
Back side	100	QPSK 135_69	650000/3750	100%	0.237	0.089	-0.02	16.65	23.50	4.842	1.147	22.3	Yes
Right side	100	QPSK 135_69	650000/3750	100%	0.597	0.177	-0.03	16.65	23.50	4.842	2.891	22.3	No
Bottom side	100	QPSK 135_69	650000/3750	100%	0.060	0.028	0.11	16.65	23.50	4.842	0.291	22.3	Yes
Right side	100	QPSK 135_69	652400/3786	100%	0.601	0.192	-0.02	16.41	23.50	5.117	3.075	22.3	No
Right side	100	QPSK 135_69	654800/3822	100%	0.574	0.183	0.18	16.30	23.50	5.248	3.012	22.3	No
Right side	100	QPSK 135_69	657200/3858	100%	0.565	0.181	0.08	16.64	23.50	4.853	2.742	22.3	No
Right side	100	QPSK 135_69	659600/3894	100%	0.579	0.184	0.09	15.89	23.50	5.768	3.339	22.3	No
Right side	100	QPSK 135_69	662000/3930	100%	0.689	0.193	0.06	16.05	23.50	5.559	3.830	22.3	No
Right side with Sample2	100	QPSK 135_69	662000/3930	100%	0.668	0.182	0.01	16.05	23.50	5.559	3.713	22.3	No



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Hotspot Test data (Separate 10mm 100%RB) ECI 7													
Right side	100	QPSK 270_0	657200/3858	100%	0.394	0.129	0.03	15.65	22.50	4.842	1.908	22.3	No
Ant 10 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) ECI 7													
Front side	100	QPSK 1_1	650000/3750	100%	0.035	0.010	-0.08	8.76	19.50	11.858	0.415	22.3	Yes
Back side	100	QPSK 1_1	650000/3750	100%	0.334	0.125	-0.12	8.76	19.50	11.858	3.960	22.3	No
Right side	100	QPSK 1_1	650000/3750	100%	0.039	0.017	-0.08	8.76	19.50	11.858	0.462	22.3	Yes
Top side	100	QPSK 1_1	650000/3750	100%	0.046	0.011	-0.17	8.76	19.50	11.858	0.545	22.3	Yes
Hotspot Test data (Separate 10mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	650000/3750	100%	0.045	0.011	-0.02	8.50	19.50	12.589	0.567	22.3	Yes
Back side	100	QPSK 135_69	650000/3750	100%	0.389	0.140	-0.09	8.50	19.50	12.589	4.897	22.3	No
Right side	100	QPSK 135_69	650000/3750	100%	0.049	0.021	-0.17	8.50	19.50	12.589	0.617	22.3	Yes
Top side	100	QPSK 135_69	650000/3750	100%	0.053	0.024	-0.05	8.50	19.50	12.589	0.667	22.3	Yes
Back side	100	QPSK 135_69	652400/3786	100%	0.345	0.132	-0.16	8.24	19.50	13.366	4.611	22.3	No
Back side	100	QPSK 135_69	654800/3822	100%	0.362	0.138	-0.17	7.95	19.50	14.289	5.173	22.3	No
Back side	100	QPSK 135_69	657200/3858	100%	0.362	0.138	-0.17	7.93	19.50	14.355	5.196	22.3	No
Back side	100	QPSK 135_69	659600/3894	100%	0.364	0.139	0.10	7.80	19.50	14.791	5.384	22.3	No
Back side with Sample2	100	QPSK 135_69	659600/3894	100%	0.351	0.132	0.15	7.80	19.50	14.791	5.192	22.3	No
Back side	100	QPSK 135_69	662000/3930	100%	0.360	0.137	-0.19	7.89	19.50	14.488	5.216	22.3	No

Wi-Fi 2.4G SAR Test Record													
MIMO Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm)													
Front side	802.11b	6/2437	100.00%	1.000	0.151	0.080	0.14	17.47	27.00	8.974	1.355	22.3	No
Back side	802.11b	6/2437	100.00%	1.000	0.321	0.156	-0.06	17.47	27.00	8.974	2.881	22.3	No
Right side	802.11b	6/2437	100.00%	1.000	0.469	0.192	0.04	17.47	27.00	8.974	4.209	22.3	No
Top side	802.11b	6/2437	100.00%	1.000	0.145	0.068	0.18	17.47	27.00	8.974	1.301	22.3	No



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Wi-Fi 5G SAR Test Record													
MIMO Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Hotspot Test data of U-NII-1 (Separate 5mm)													
Front side	802.11n-HT40	46/5230	100.00%	1.000	0.189	0.066	0.18	15.27	22.80	5.662	1.070	22.3	Yes
Back side	802.11n-HT40	46/5230	100.00%	1.000	0.264	0.089	0.05	15.27	22.80	5.662	1.495	22.3	No
Right side	802.11n-HT40	46/5230	100.00%	1.000	0.177	0.058	-0.12	15.27	22.80	5.662	1.002	22.3	Yes
Top side	802.11n-HT40	46/5230	100.00%	1.000	0.518	0.139	-0.08	15.27	22.80	5.662	2.933	22.3	No
Top side with Sample2	802.11n-HT40	46/5230	100.00%	1.000	0.509	0.134	-0.02	15.27	22.80	5.662	2.882	22.3	No
Hotspot Test data of U-NII-3 (Separate 5mm)													
Front side	802.11a	165/5825	100.00%	1.000	0.266	0.095	0.03	15.59	22.80	5.260	1.399	22.3	No
Back side	802.11a	165/5825	100.00%	1.000	0.348	0.127	0.03	15.59	22.80	5.260	1.831	22.3	No
Right side	802.11a	165/5825	100.00%	1.000	0.284	0.086	0.10	15.59	22.80	5.260	1.494	22.3	No
Top side	802.11a	165/5825	100.00%	1.000	0.529	0.162	0.17	15.59	22.80	5.260	2.783	22.3	No



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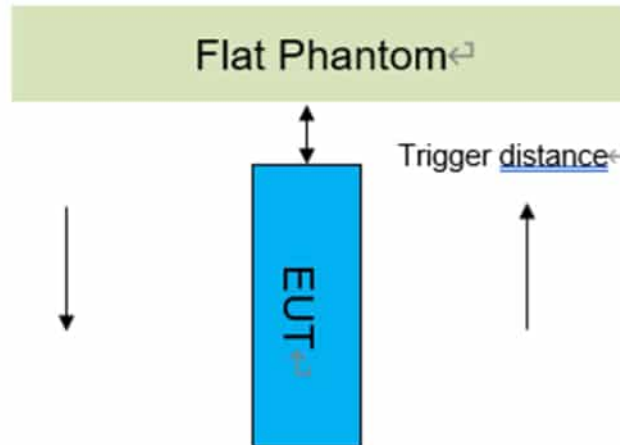
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6.4 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

The Proximity sensor triggering was applied to WWAN antenna. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm) for body worn									
Ant	Ant0	Ant1	Ant2	Ant4	Ant7	Ant8	Ant9	Ant10	MIMO
Band	GSM: 1900 WCDMA: B2/4/5 LTE: B2/4/7/26/41/66	GSM: 1900 WCDMA: B2/4/5 LTE: B2/4/7/26/41/66 NR: N41/66	LTE: B2/4/7/66	LTE: B42 NR: N77/78	LTE: B42 NR: N77/78	NR: N77/78	LTE: B2/4/7/41/66 NR: N41	LTE: B42 NR: N77/78	WIFI 2.4G WIFI5G
Position	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm

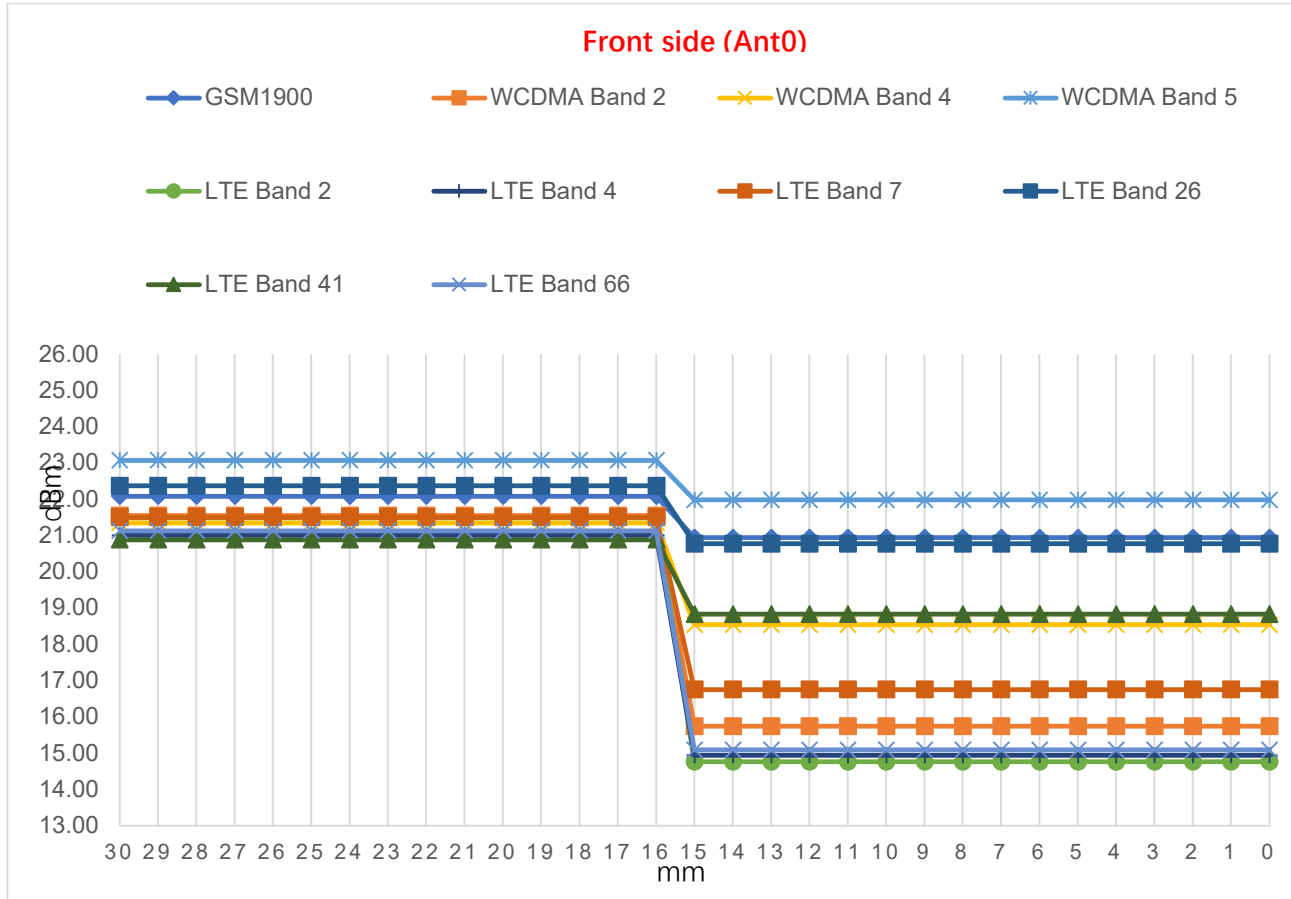
Proximity Sensor Triggering Distance(mm) for product specific 0mm								
Ant	Ant0	Ant1	Ant2	Ant4	Ant7	Ant9	Ant10	MIMO
Band	WCDMA: B2/4 LTE: B2/4/7/26/66 NR: N41	GSM: 1900 WCDMA: B2/4 LTE: B2/4/7/38/41/66 NR: N41/66	LTE: B2/4/7/66	NR: N77/78	LTE: B42 NR: N77/78	LTE: B2/4/7/38/41/66 NR: /41	LTE: B42 NR: N77/78	WIFI 2.4G WIFI 6E
Position	Front Side 6m Back Side 15mm Bottom Side 8mm Left Side 10mm	Front Side 12m Back Side 8mm Top Side 13mm	Front Side 6m Back Side 13mm Bottom Side 10mm	Front Side 8mm Right Side 8mm Back Side 13mm Top Side 13mm	Front Side 12mm Back Side 8mm Left Side 8mm Top Side13mm	Front Side 12mm Back Side 8mm Left Side 8mm Top Side 13mm	Front Side 8mm Right Side 8mm Back Side 13mm Top Side 13mm	Front Side 8mm Right Side 8mm Back Side 13mm Top Side 13mm

Note:

SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.

for body worn:

- DUT Moving Toward(Trigger)the Phantom

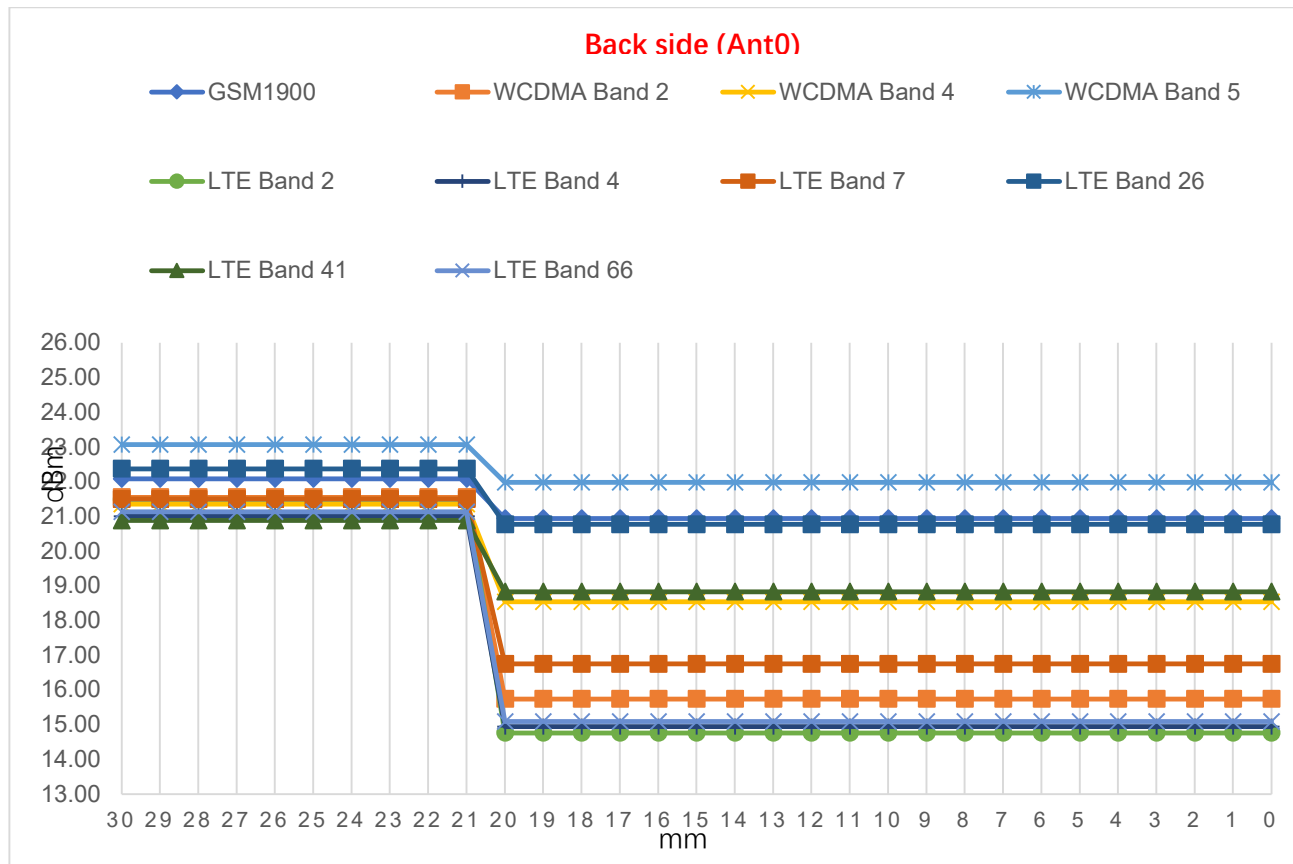


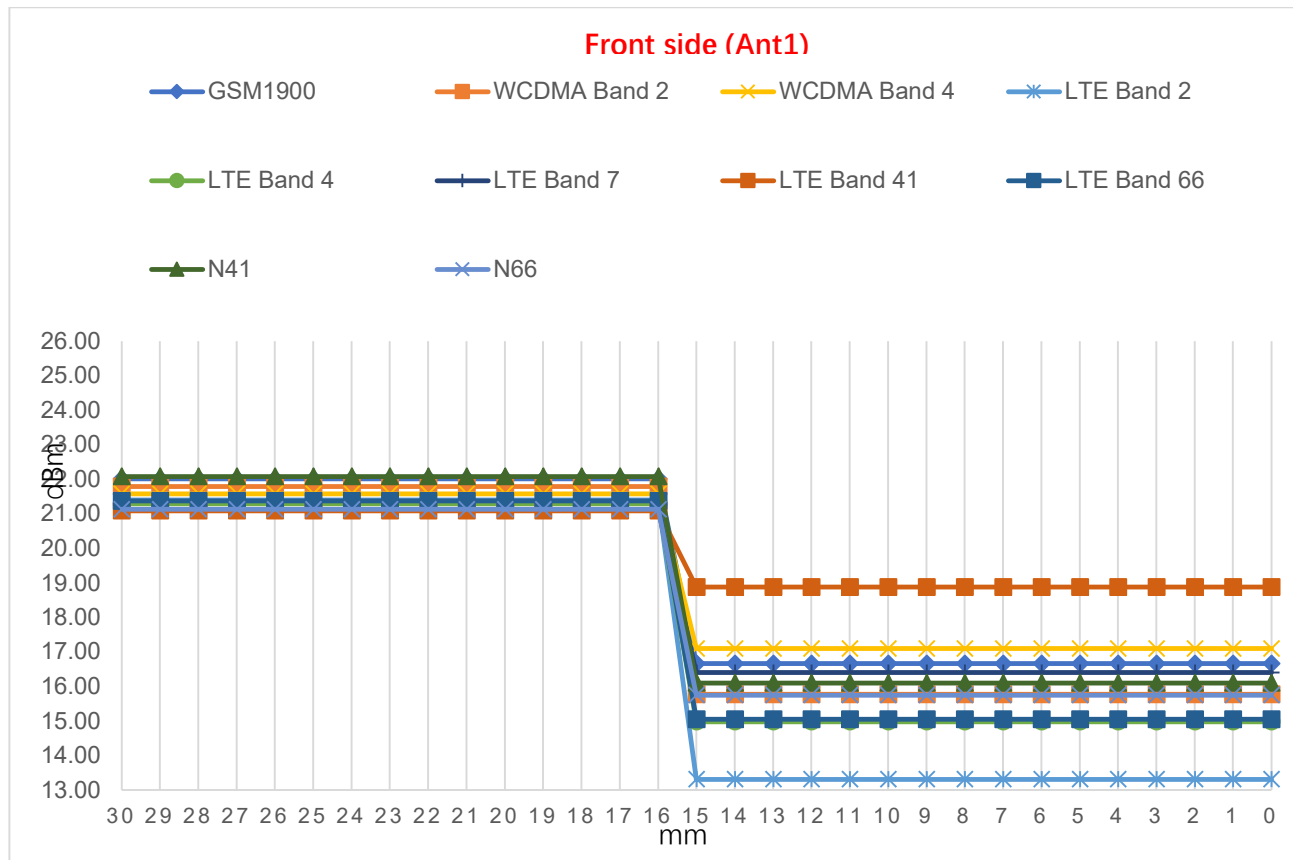
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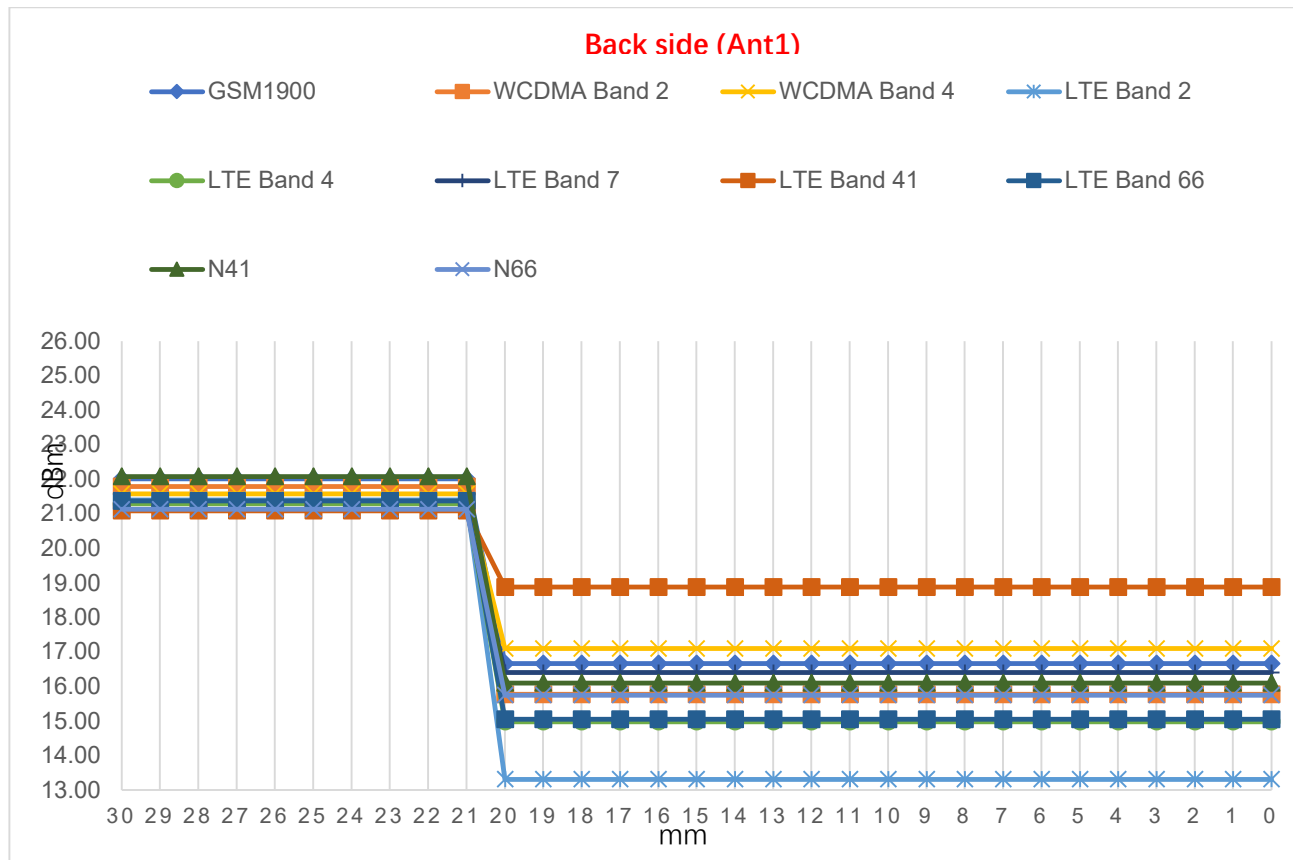
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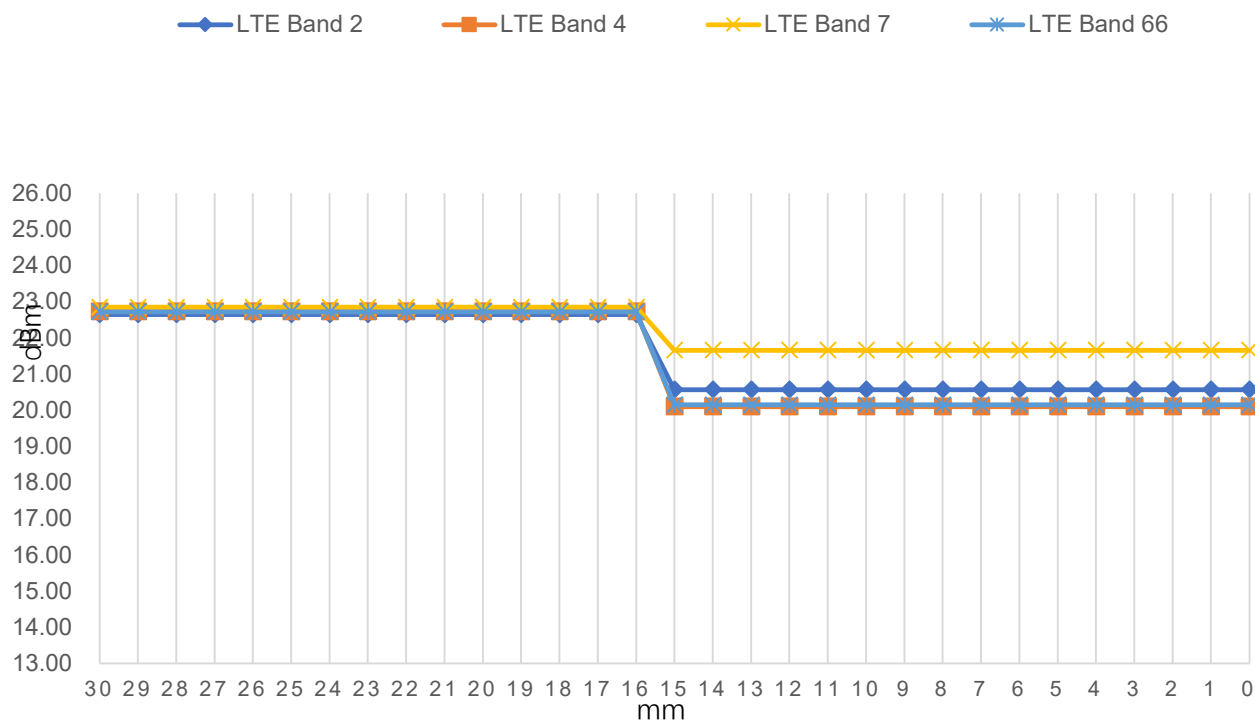
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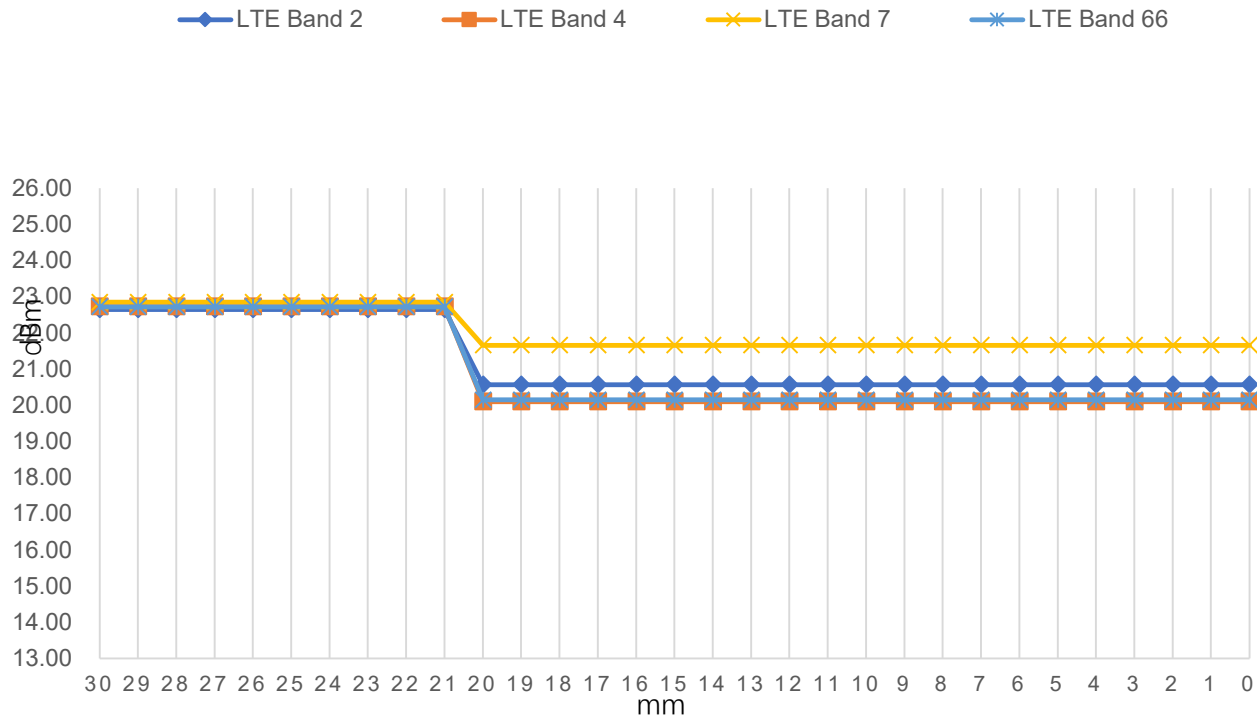


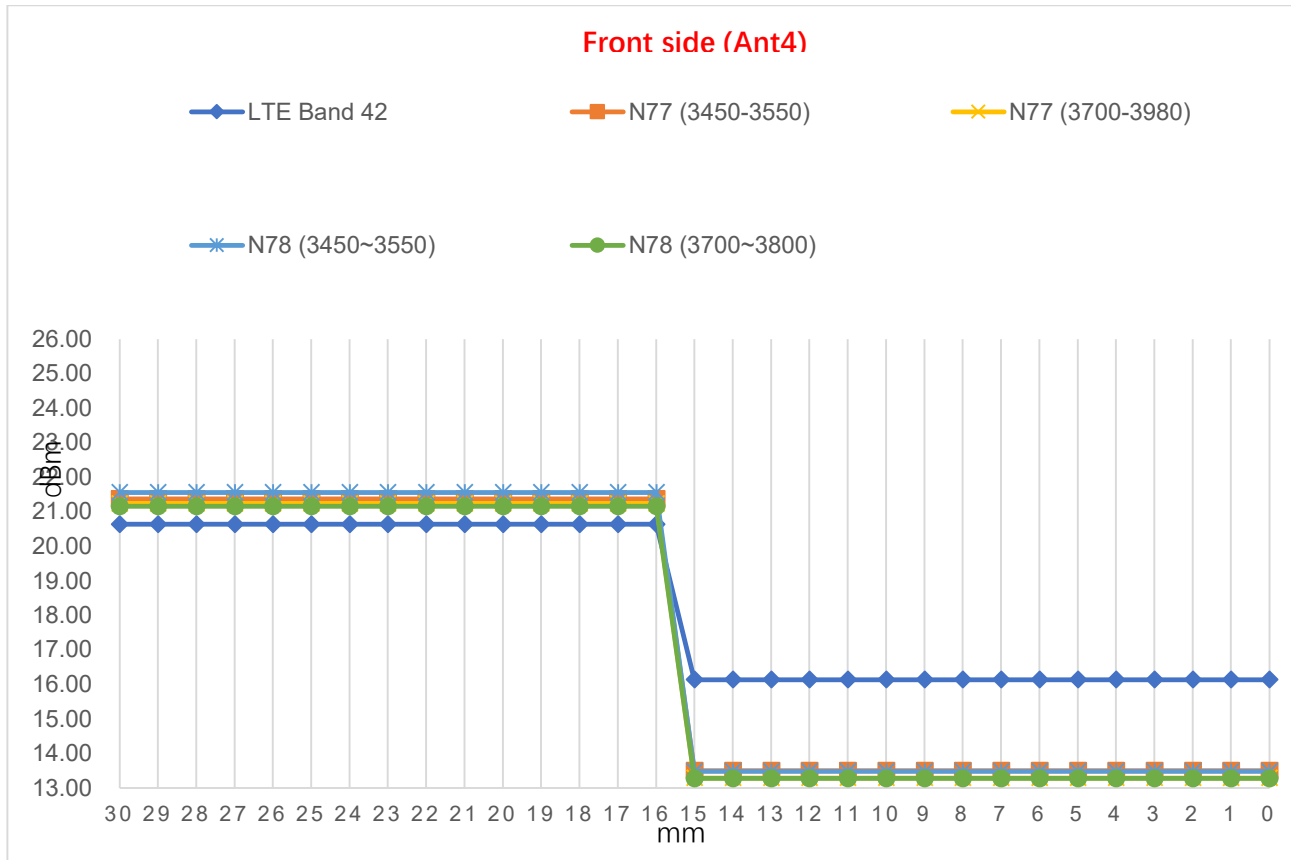


Front side (Ant2)



Back side (Ant2)

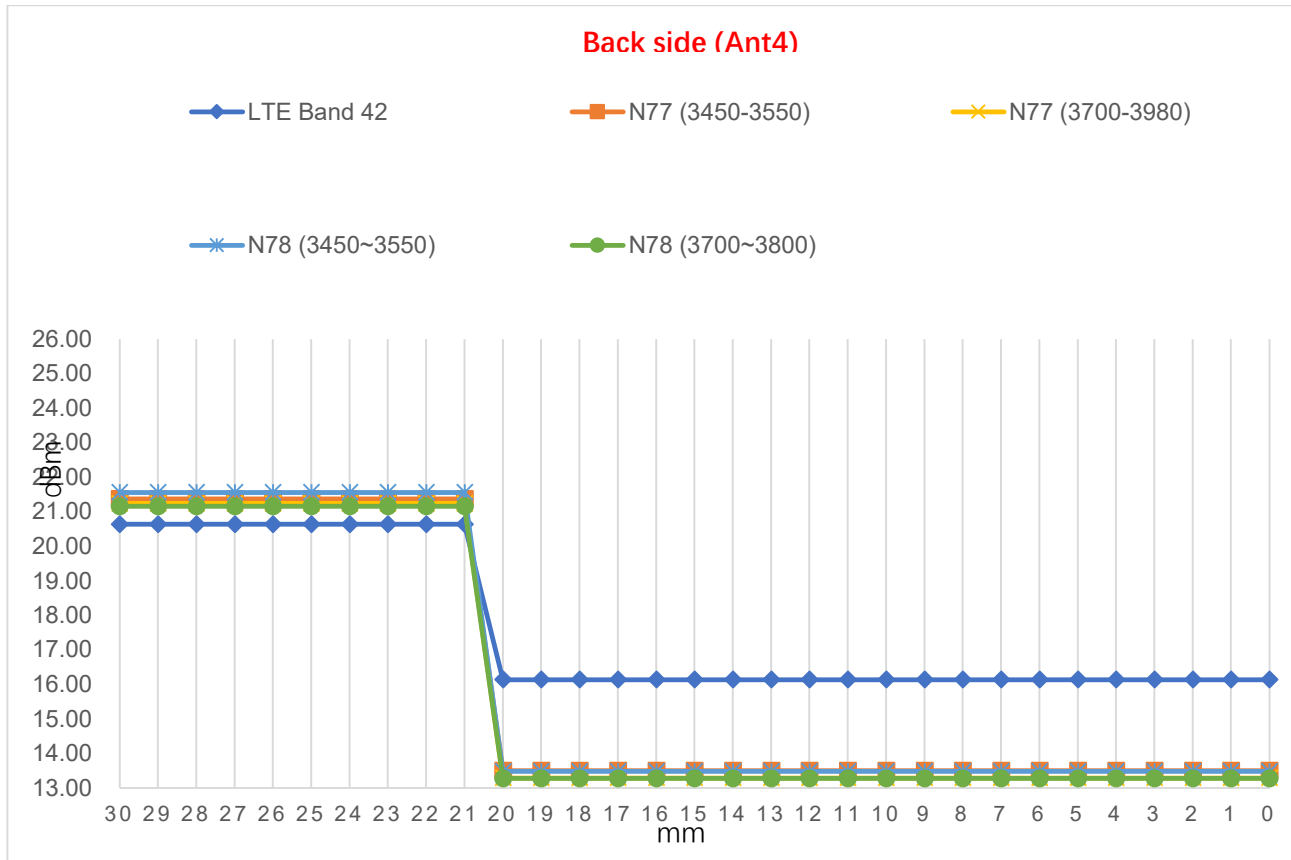




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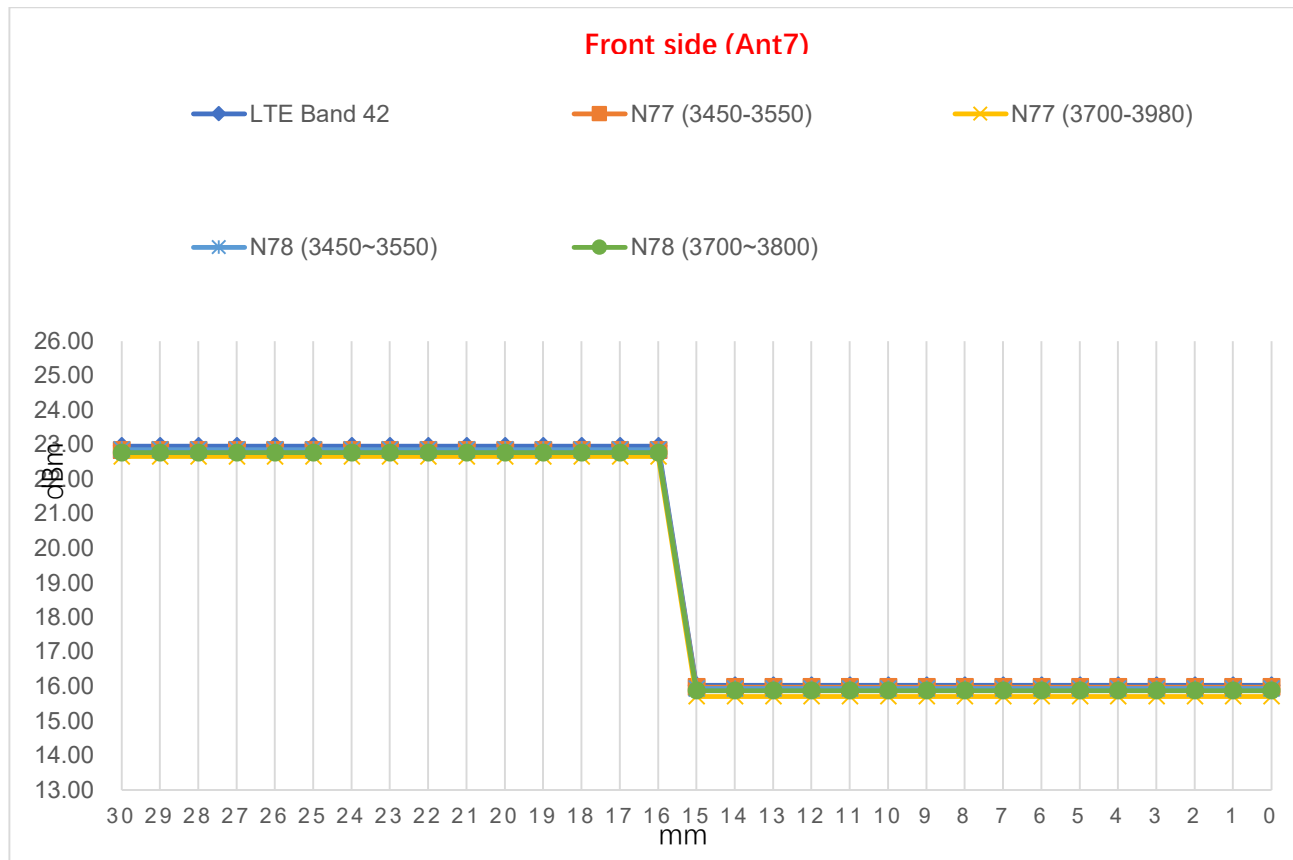


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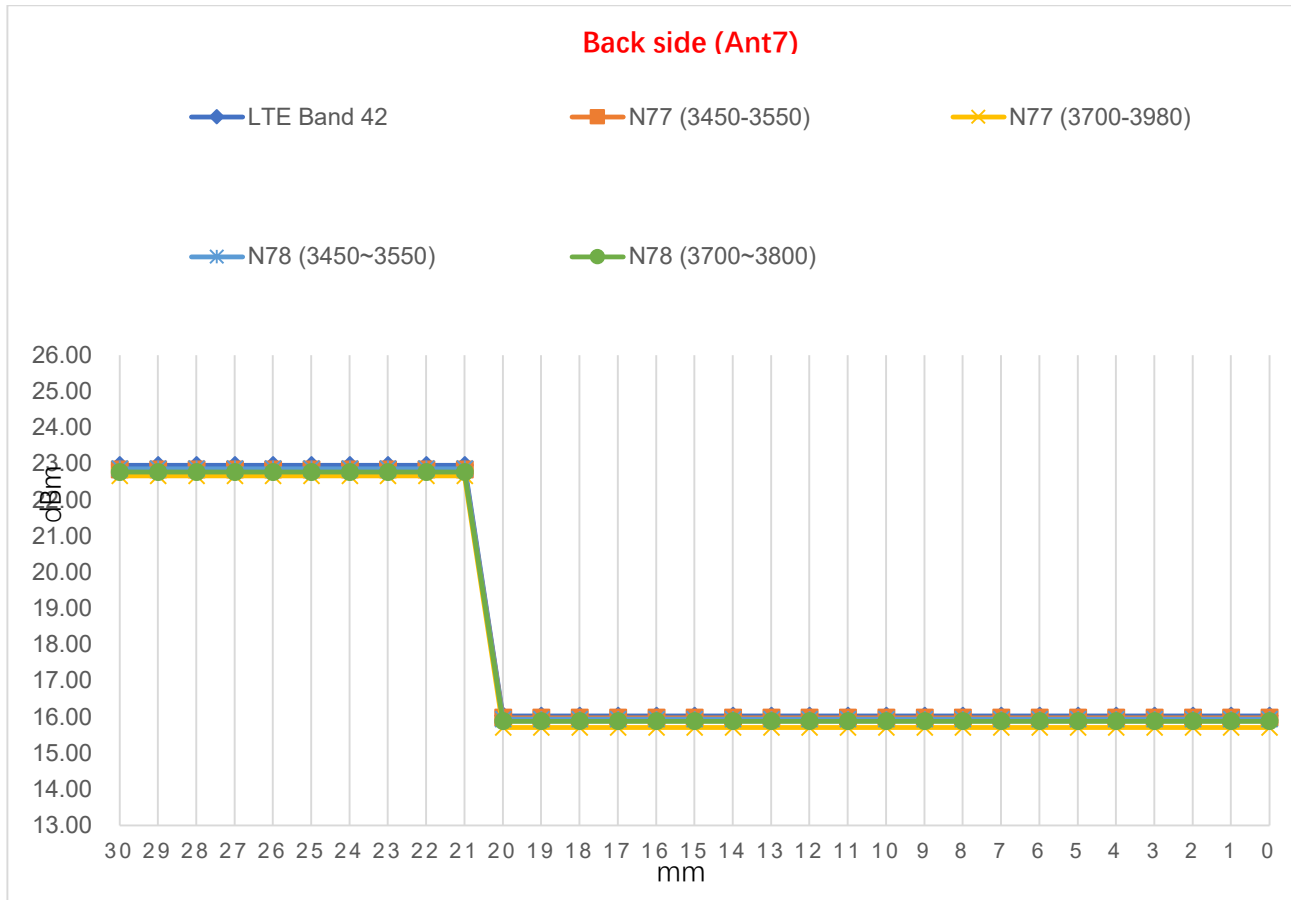


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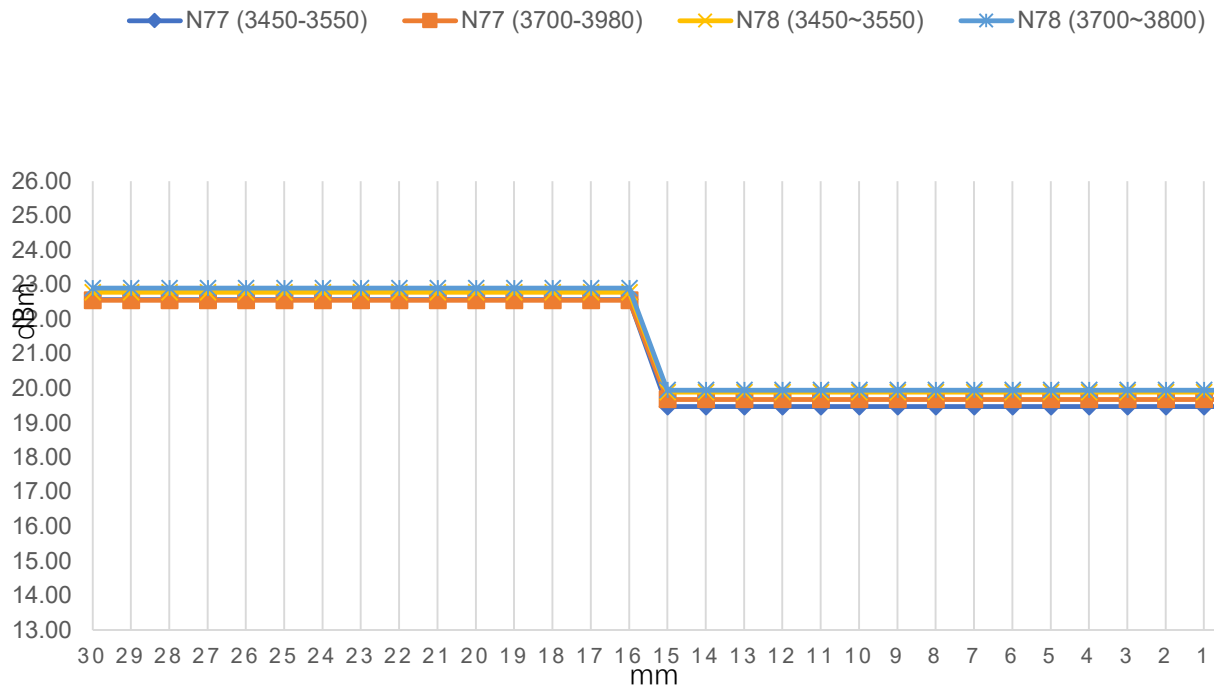
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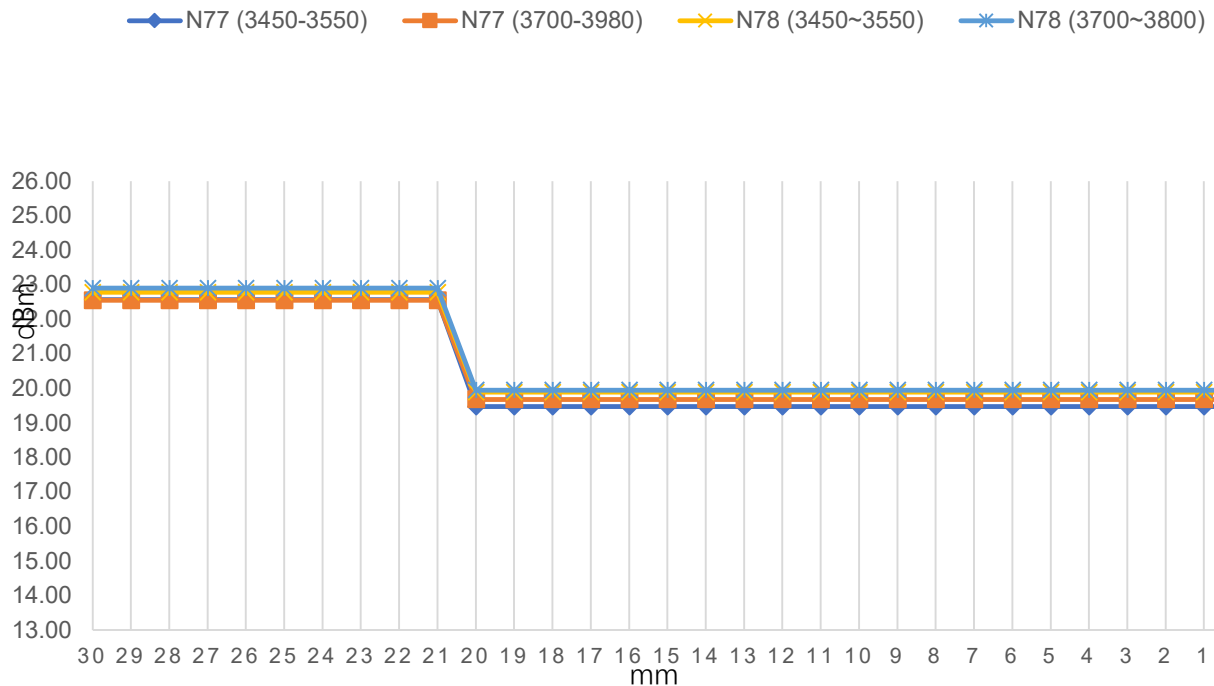
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Front side (Ant8)



Back side (Ant8)



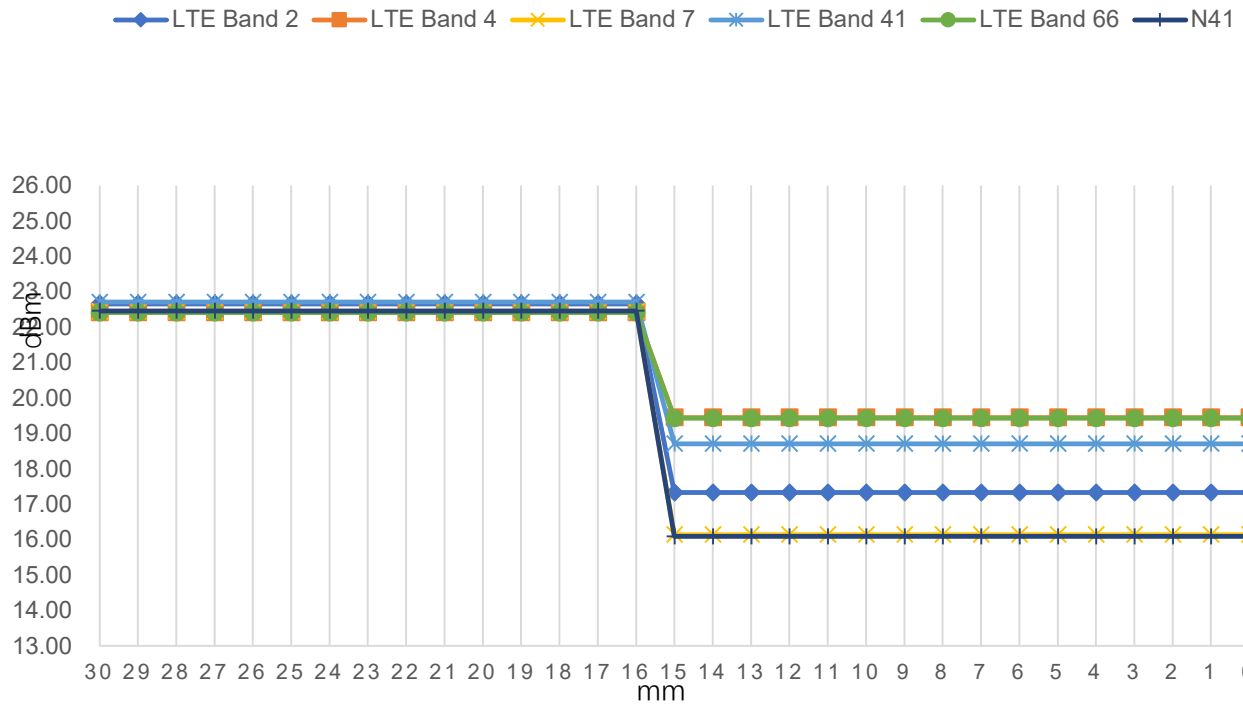
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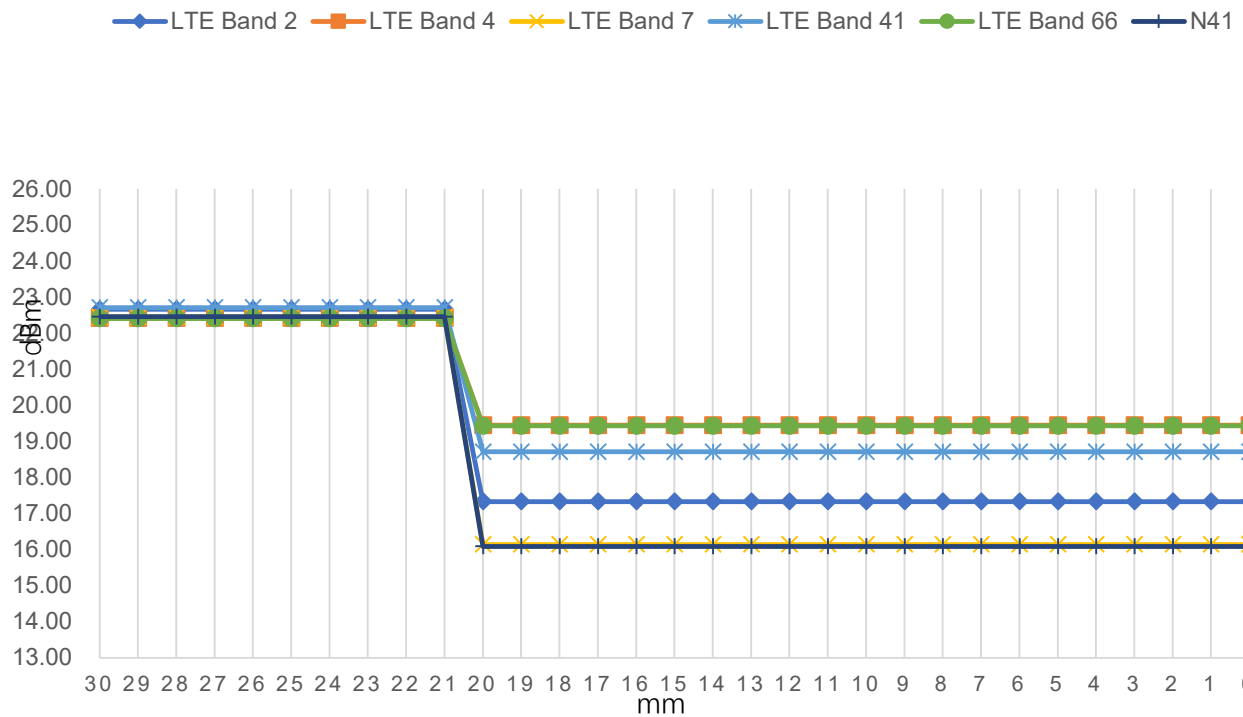
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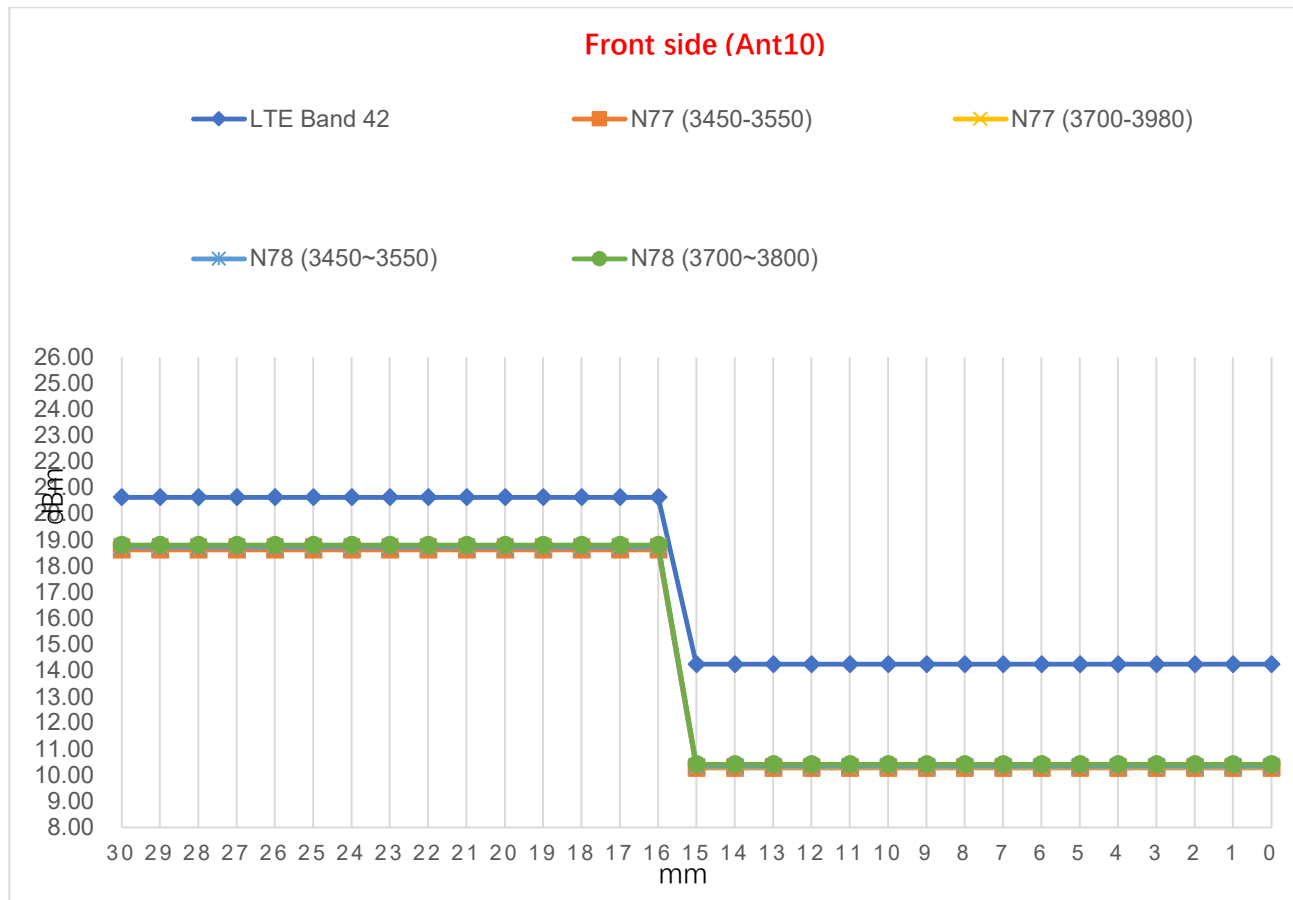
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Front side (Ant9)



Back side (Ant9)



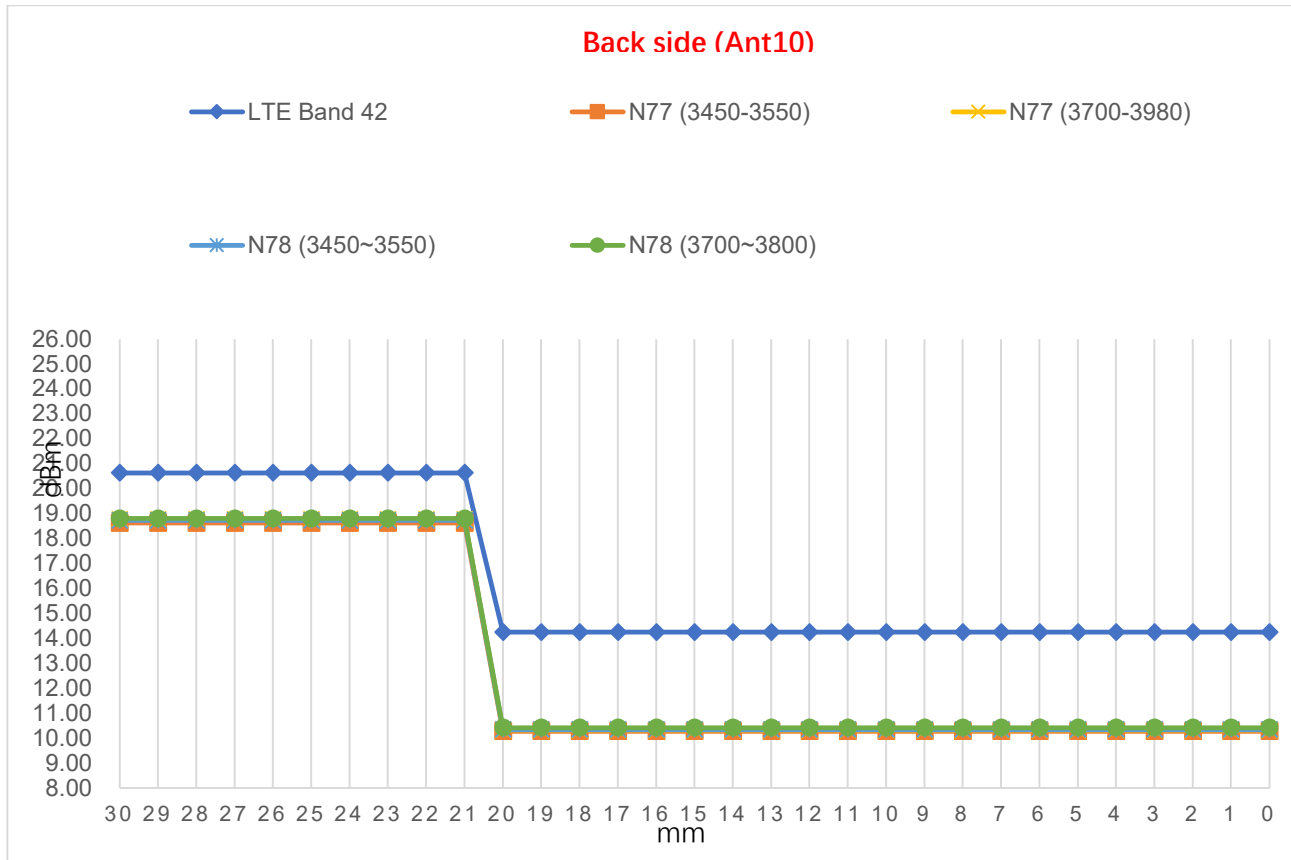


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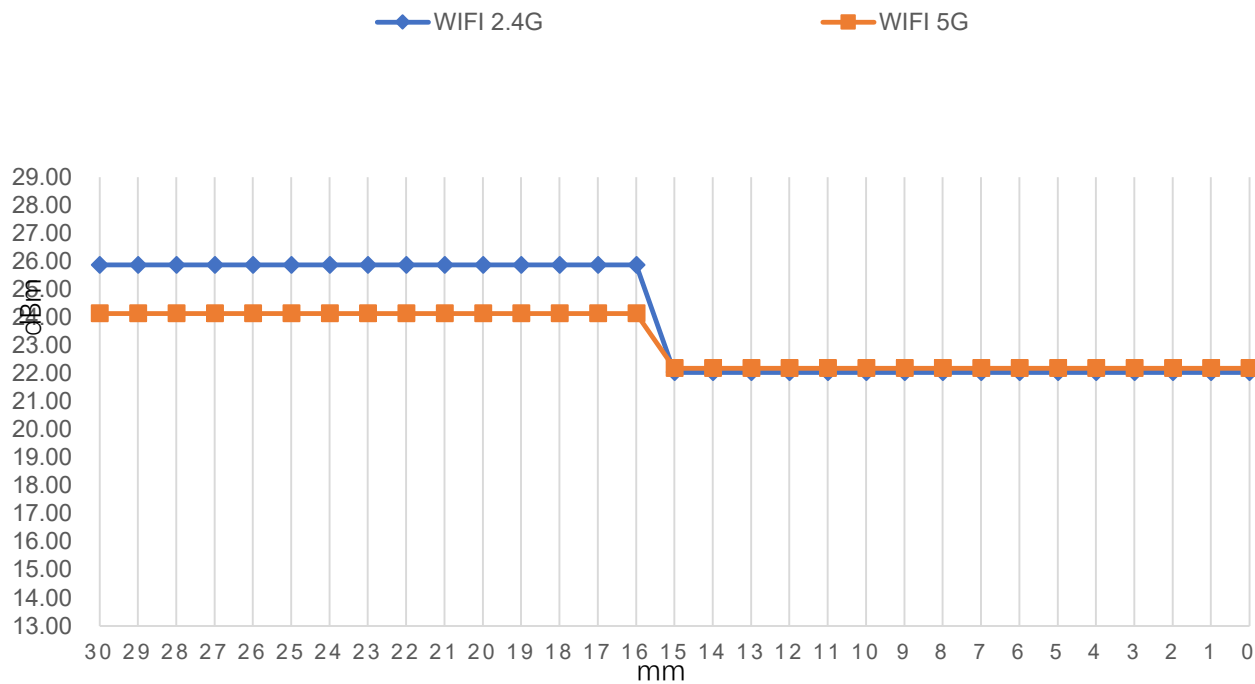


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Front side (MIMO)



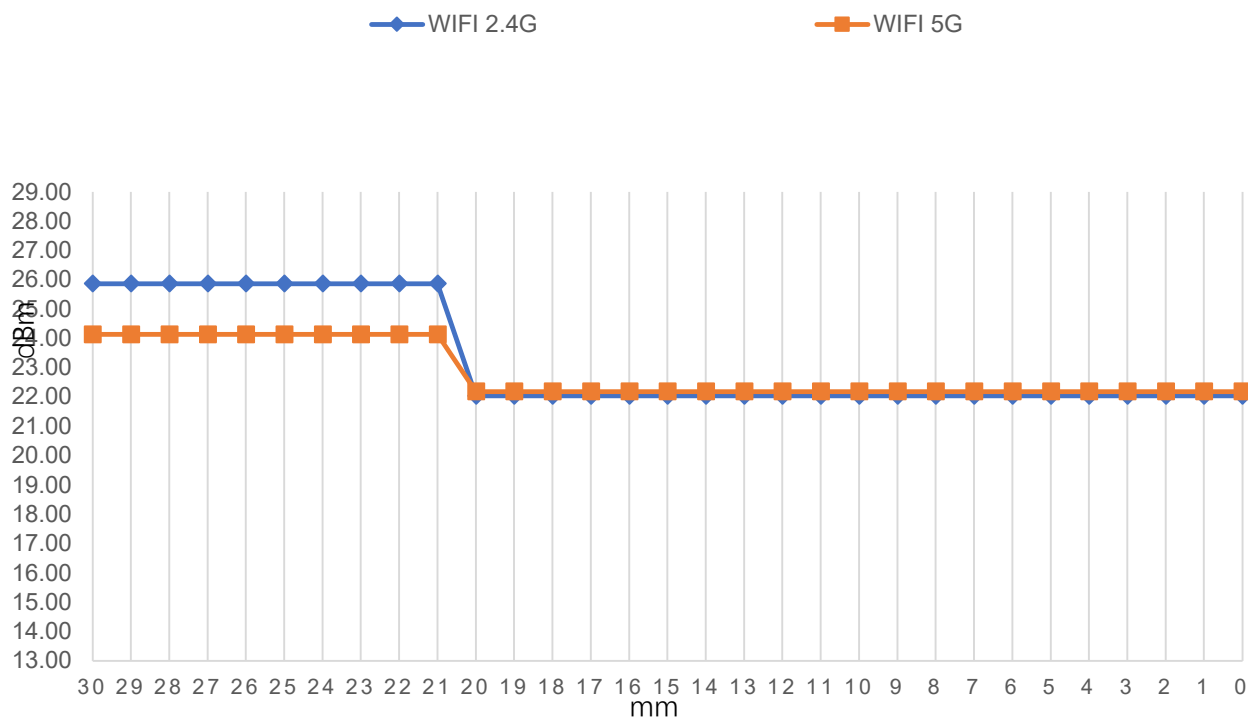
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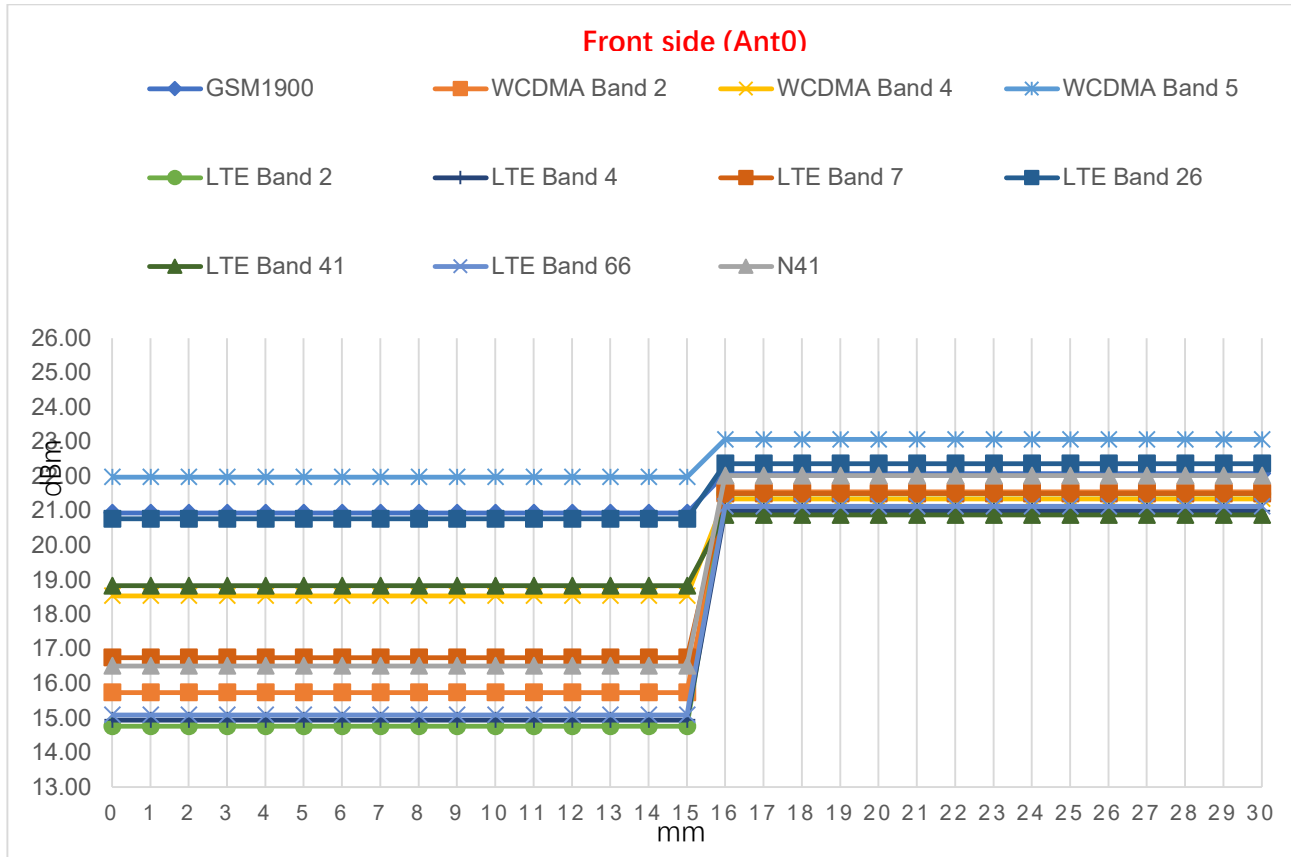
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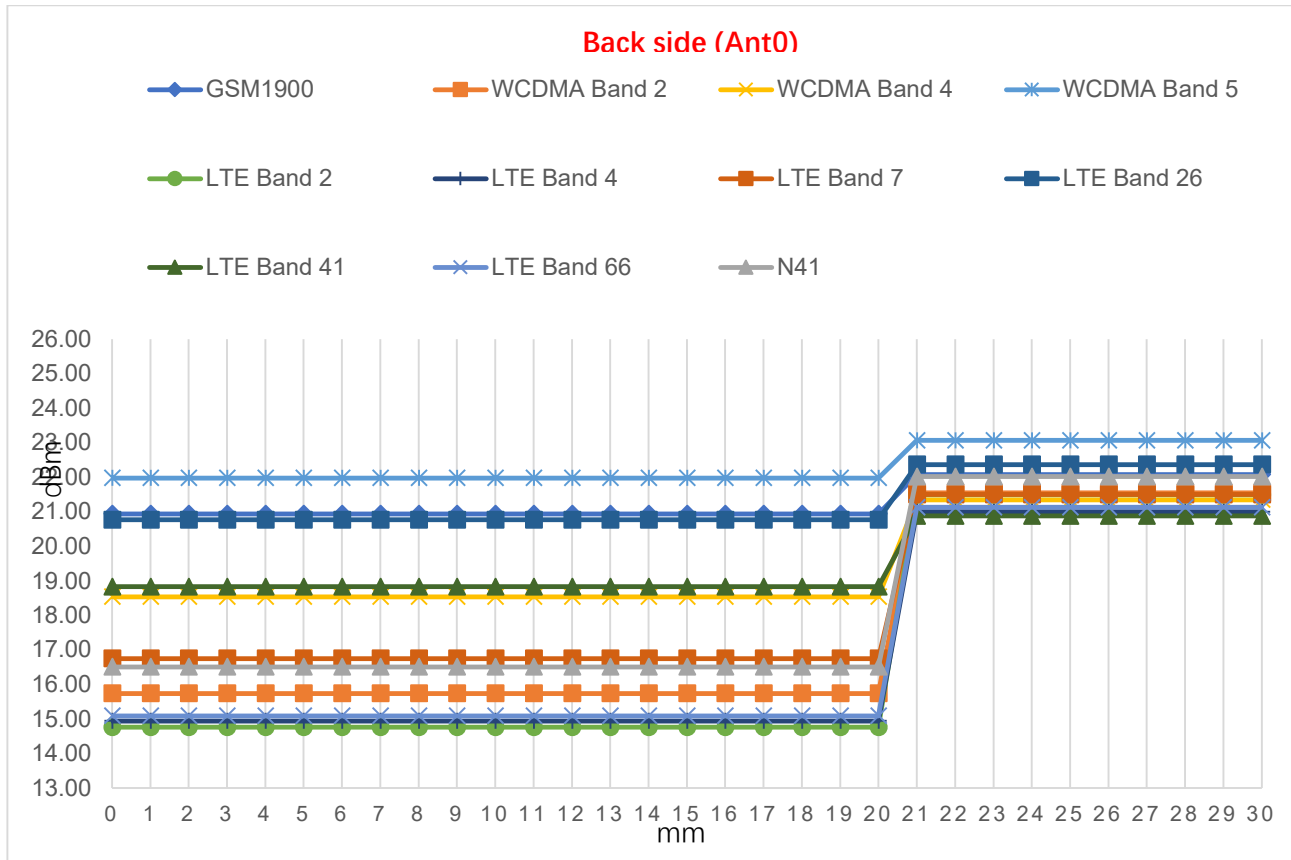
Back side (MIMO)



for body worn:

- DUT Moving Away(Release) from the Phantom



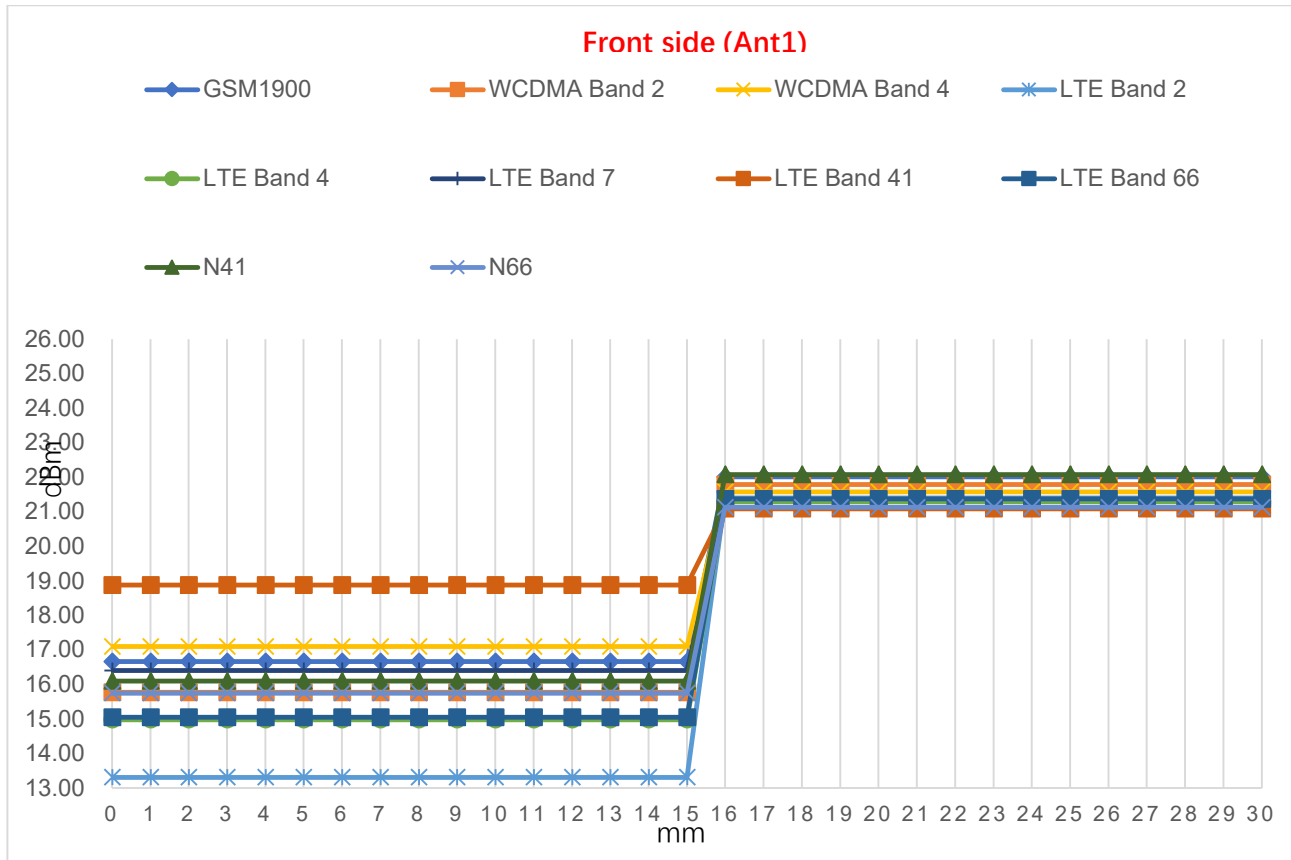


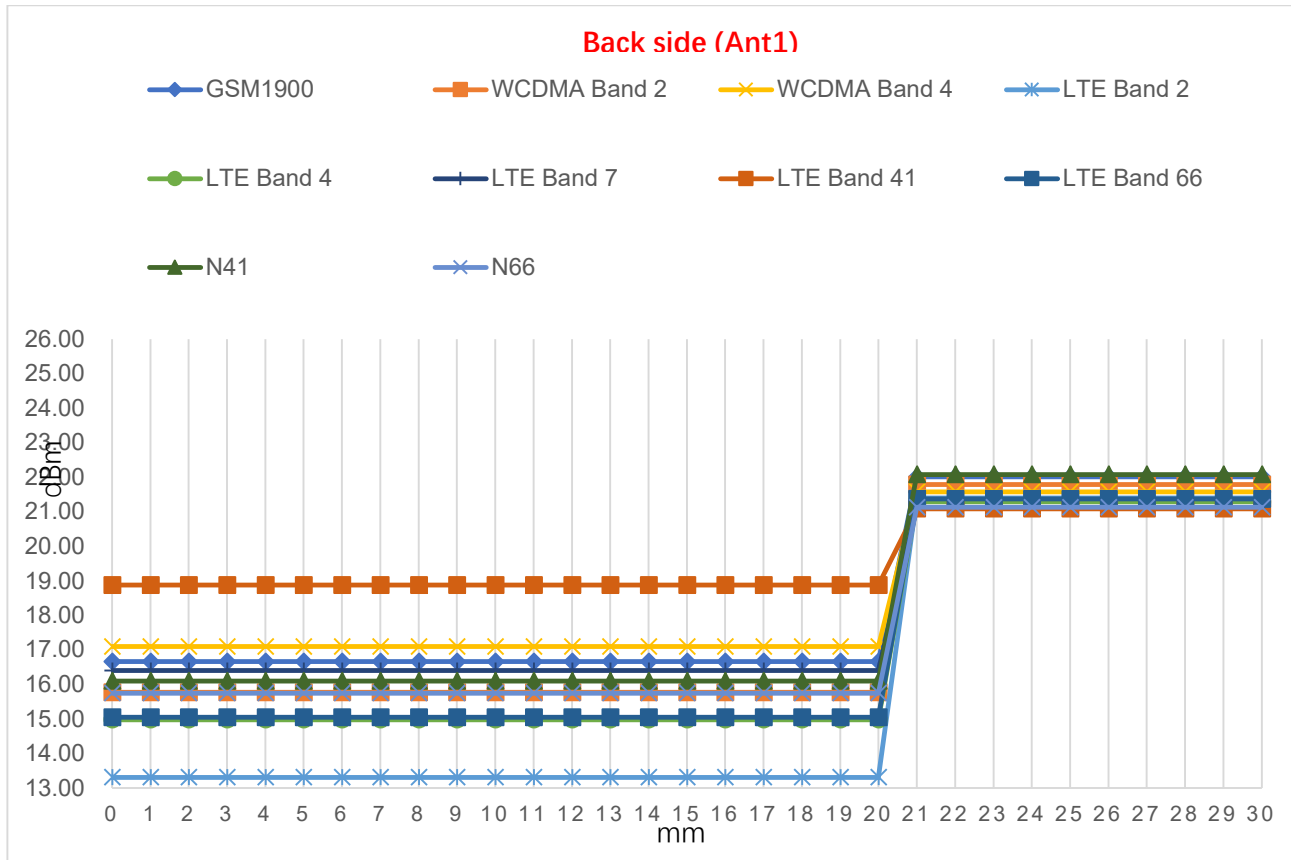
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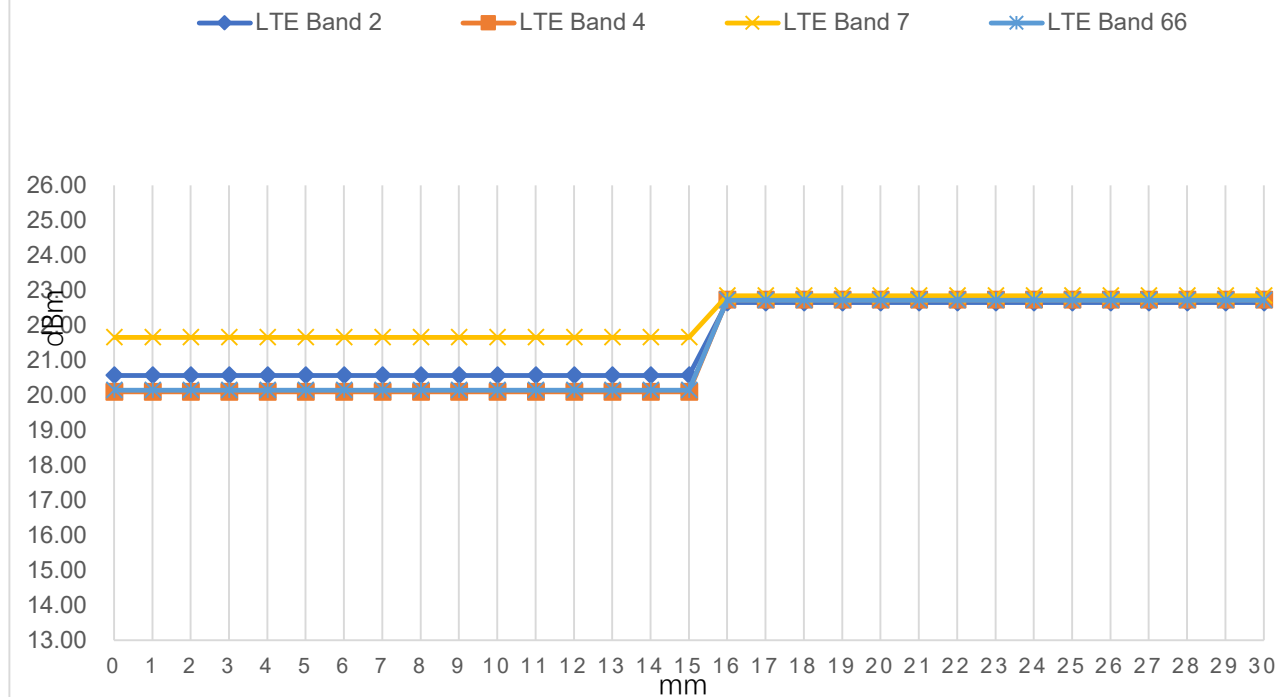
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Front side (Ant2)



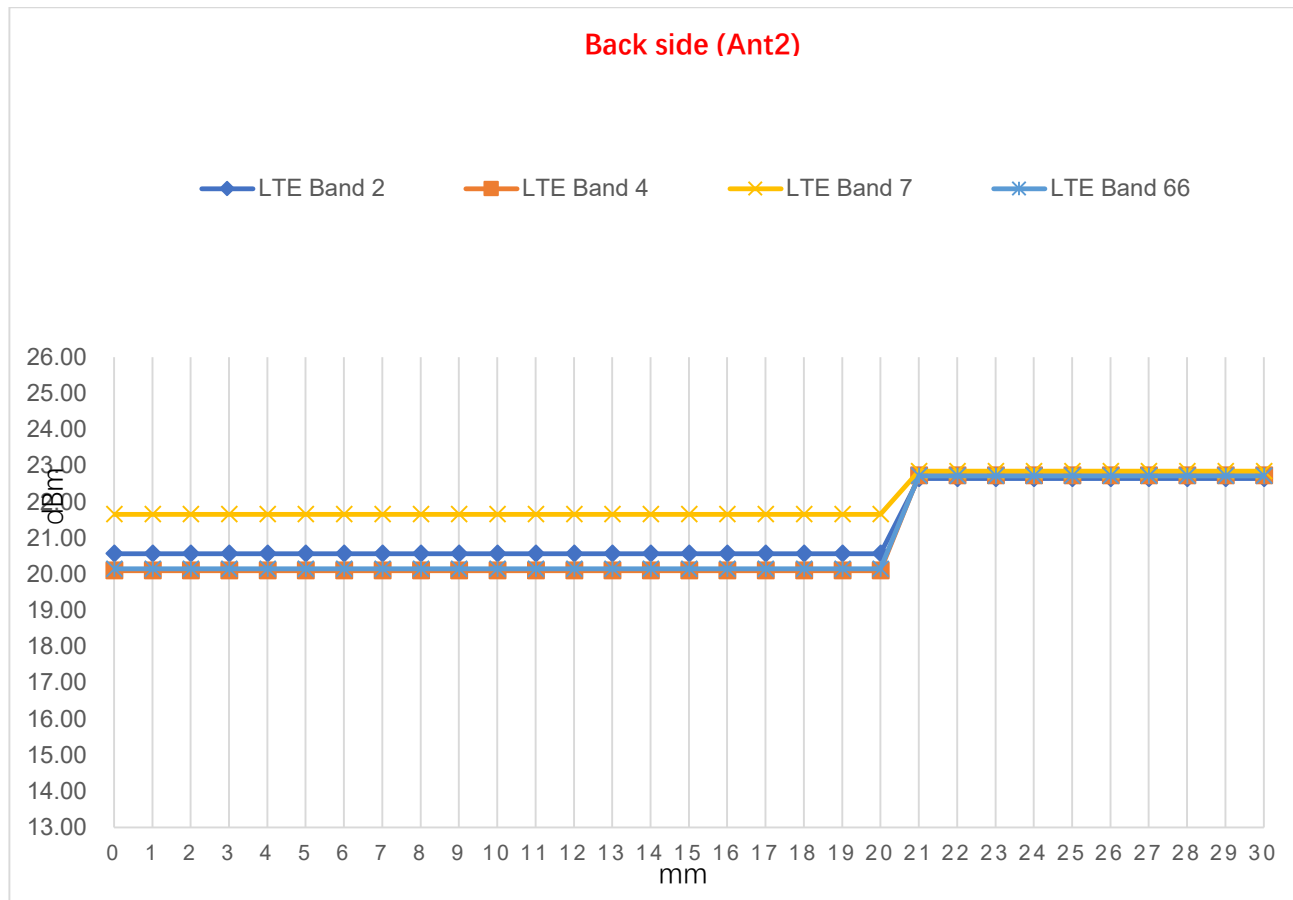
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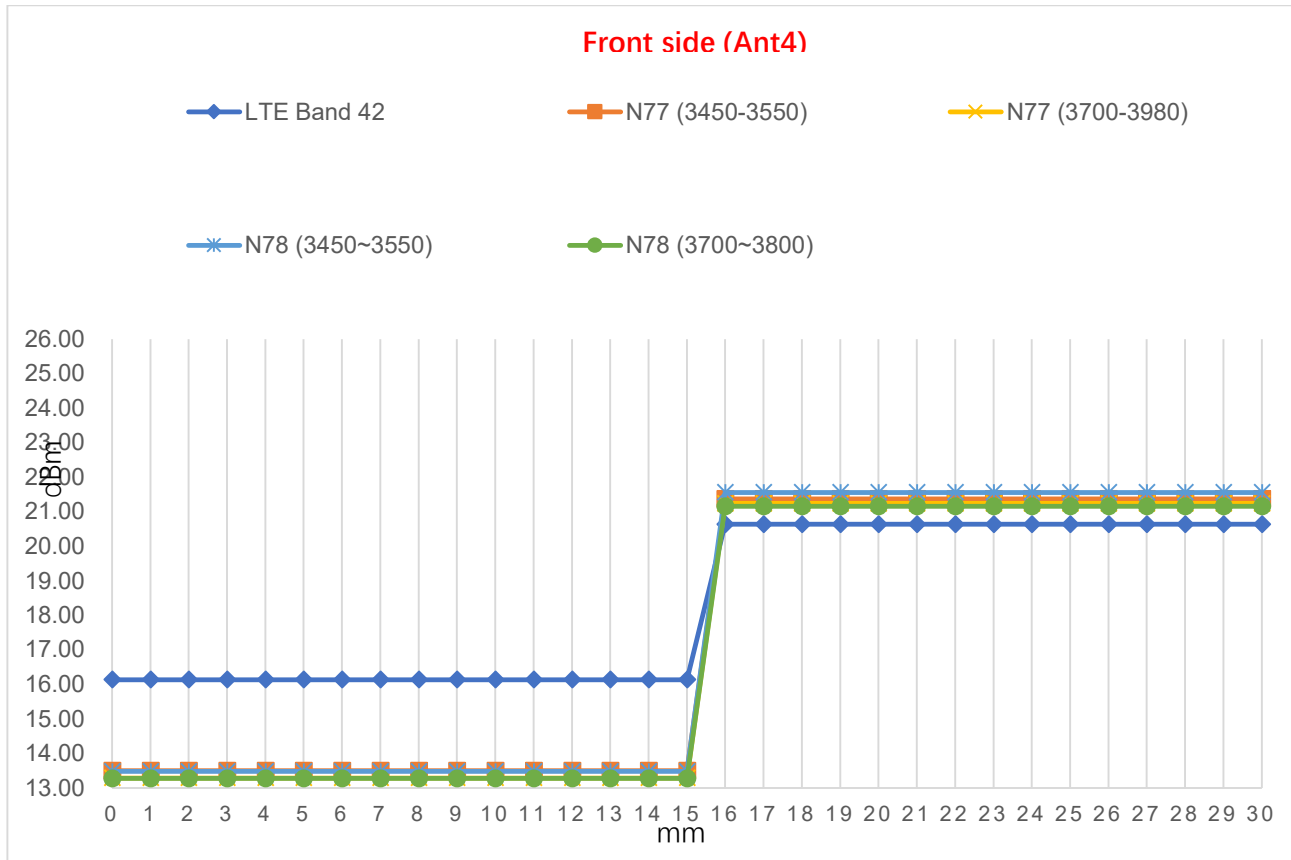
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Back side (Ant2)



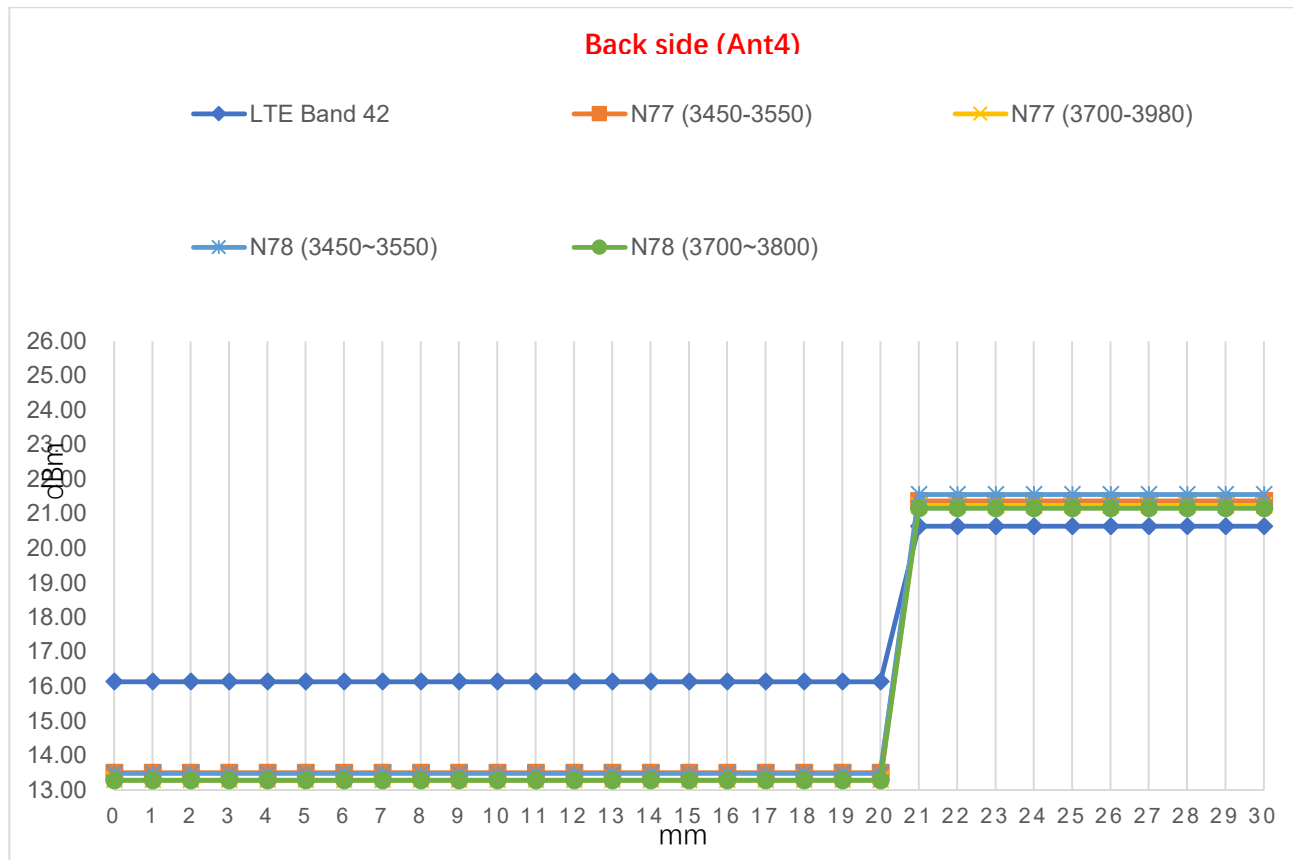


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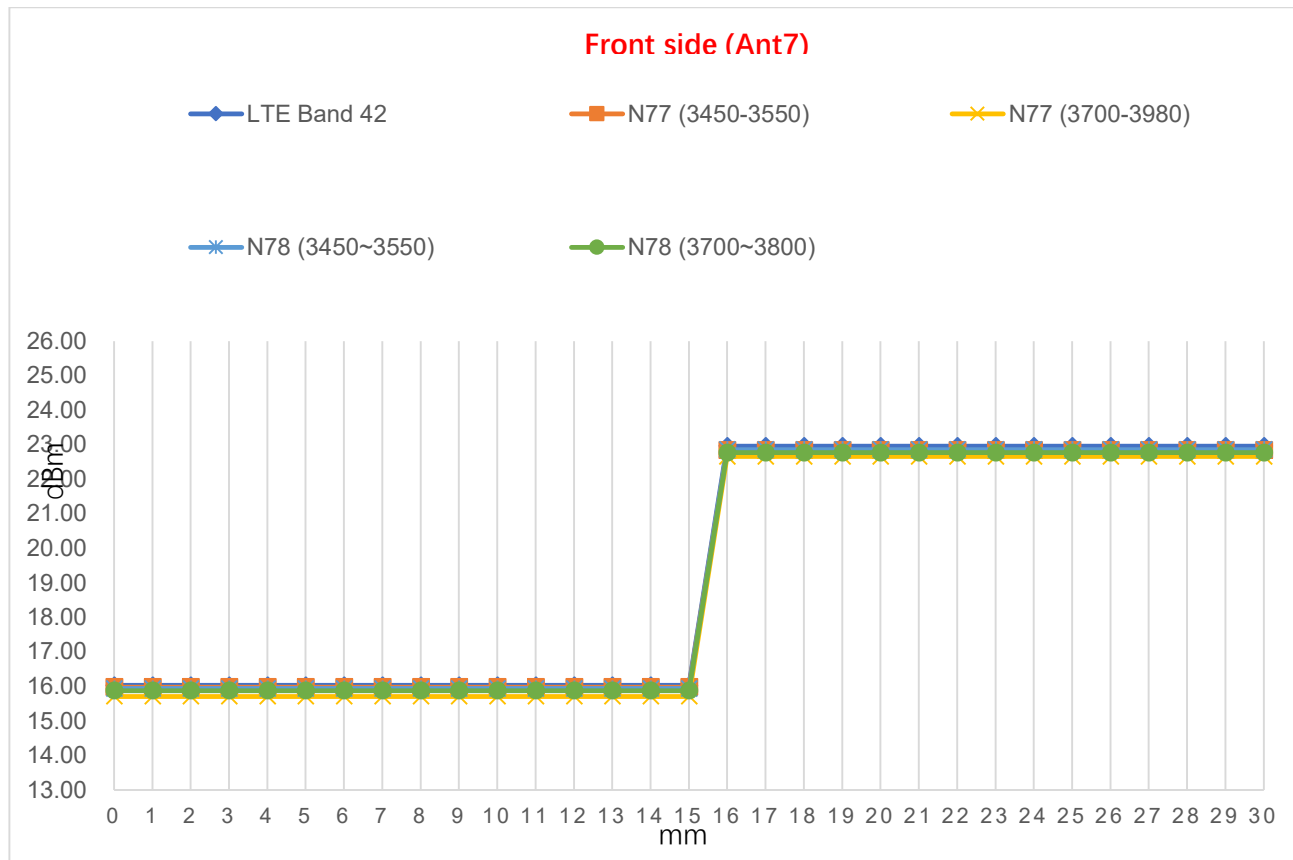


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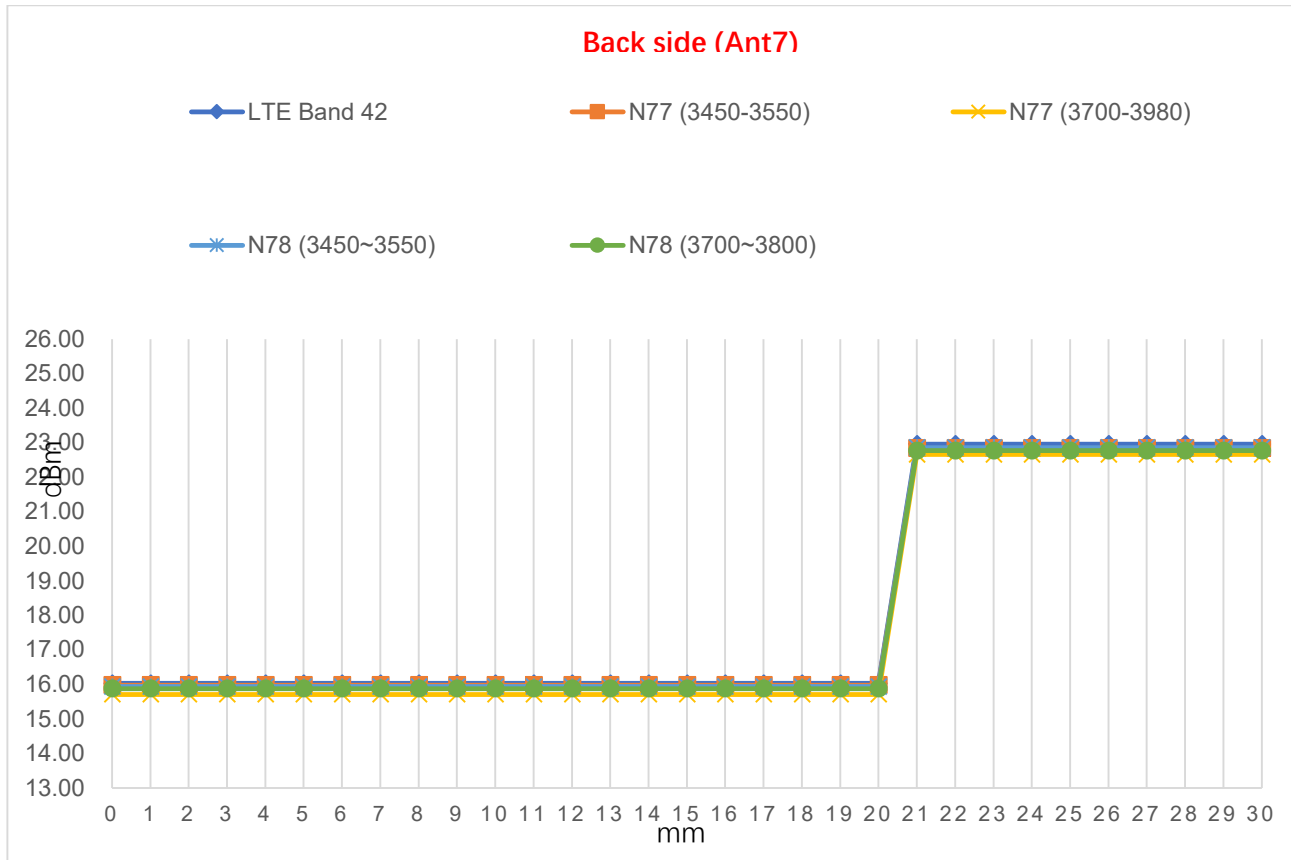


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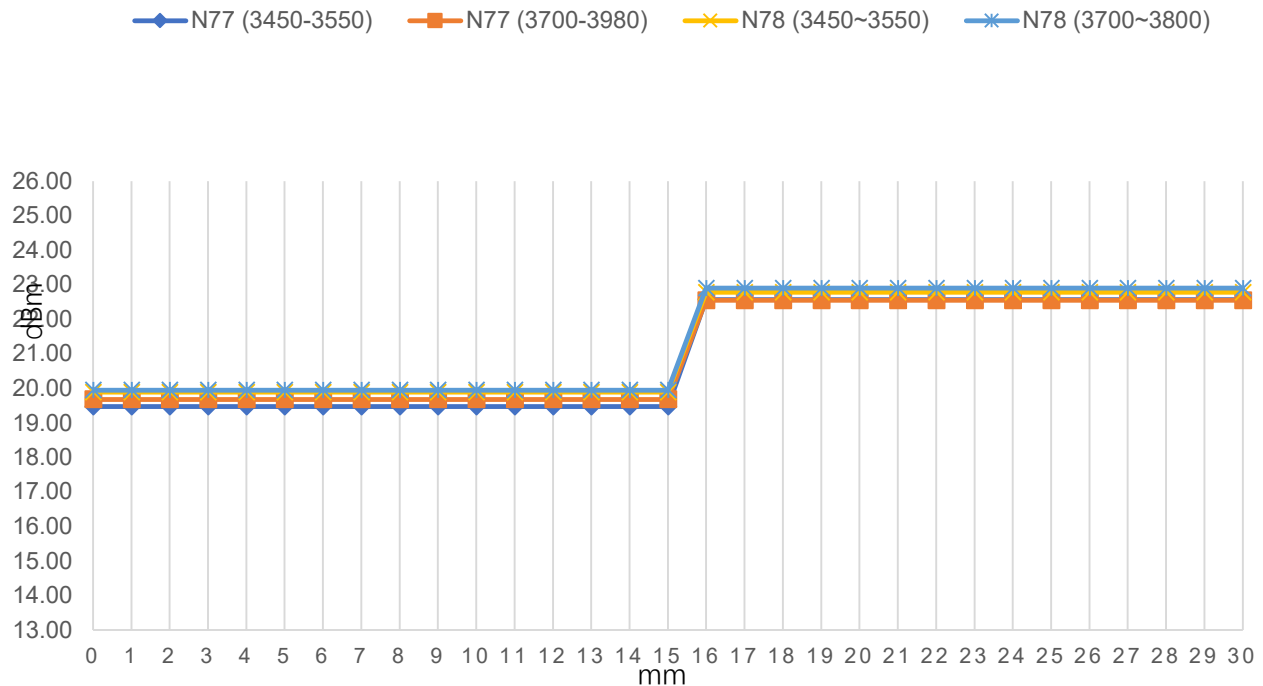
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Front side (Ant8)

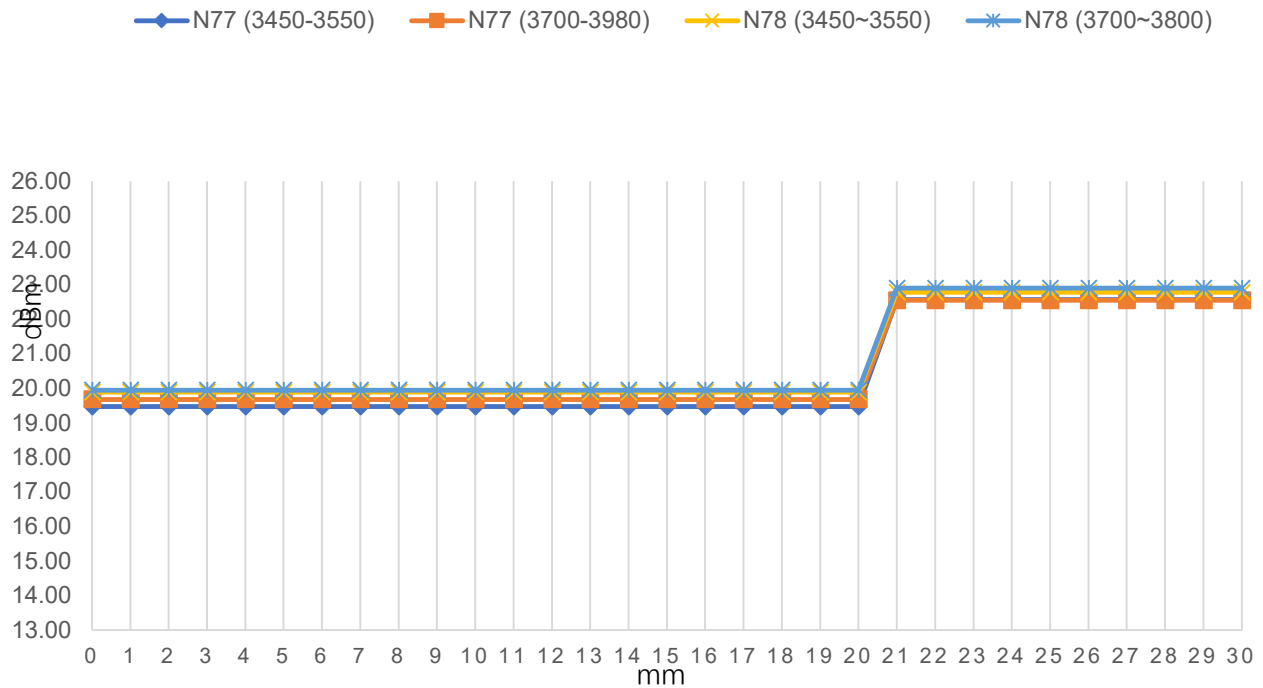


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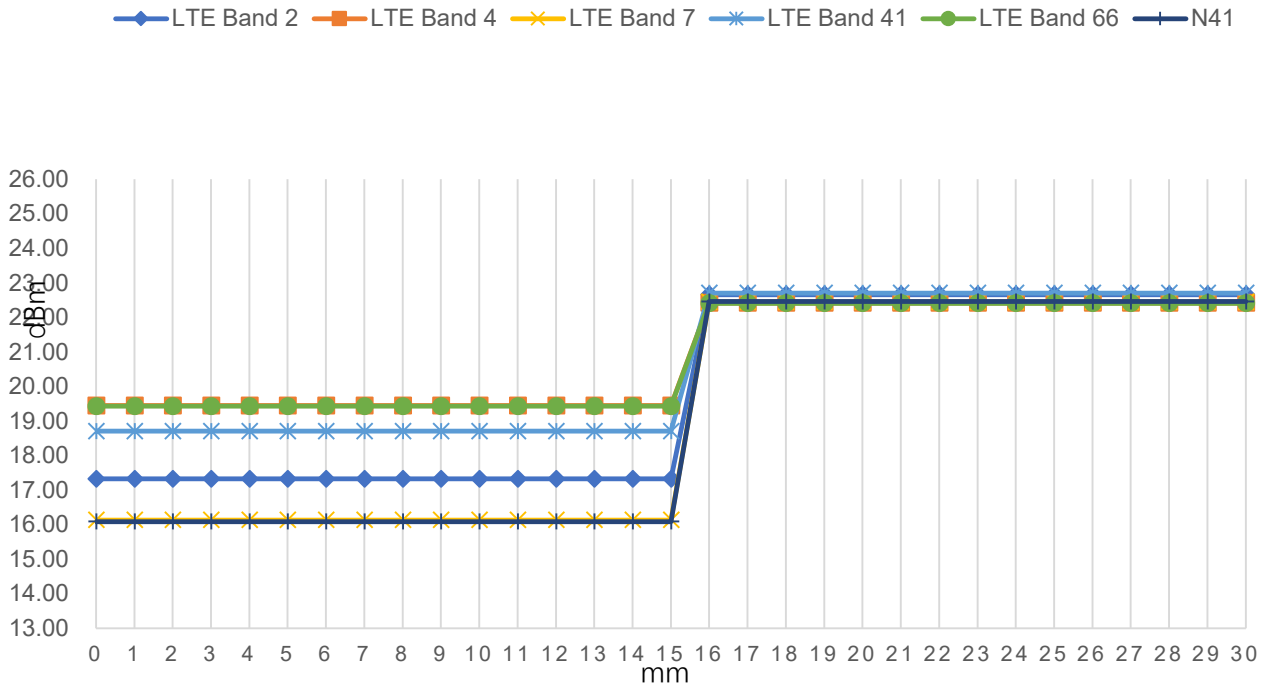


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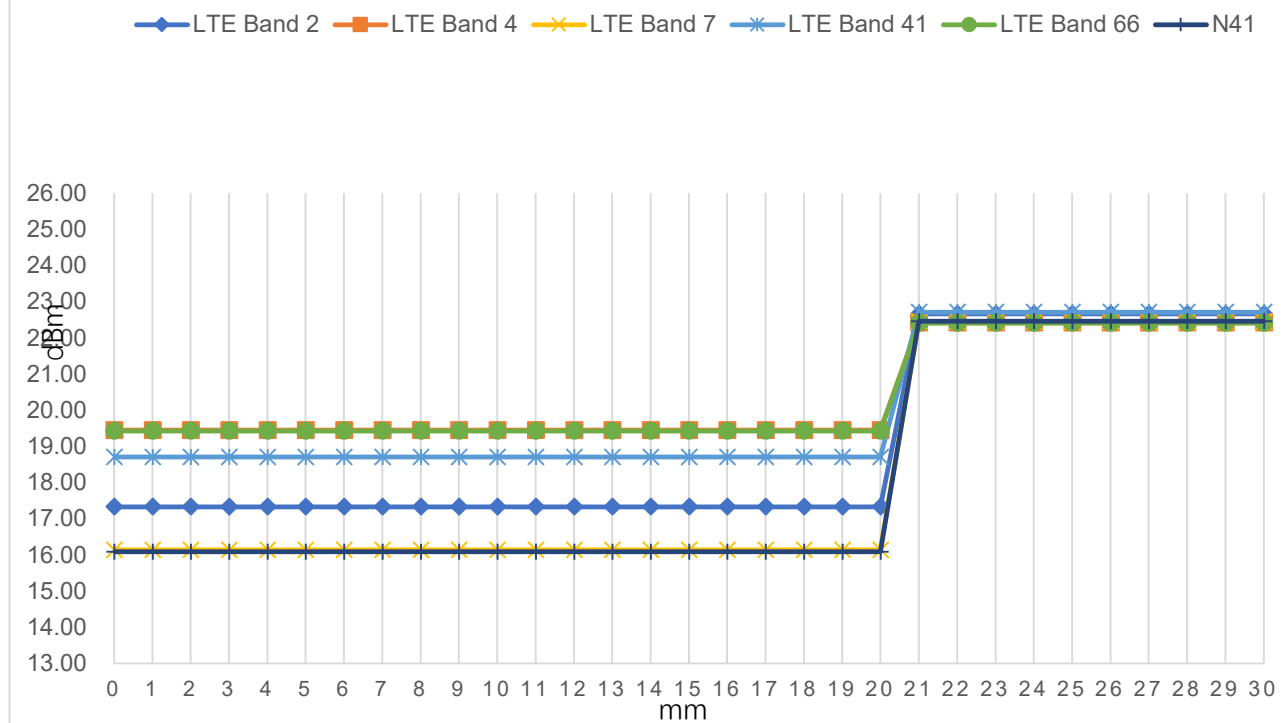
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Front side (Ant9)



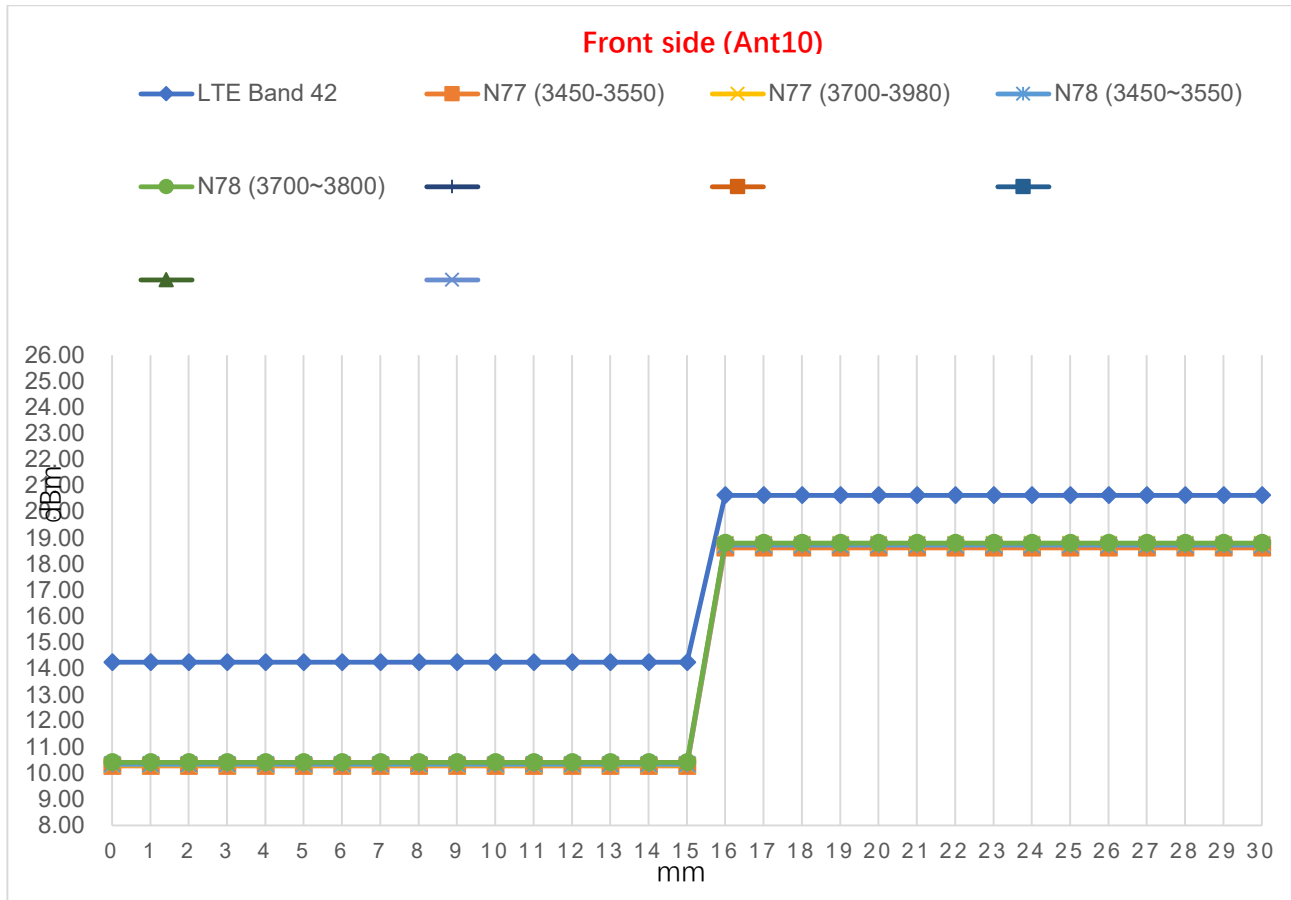
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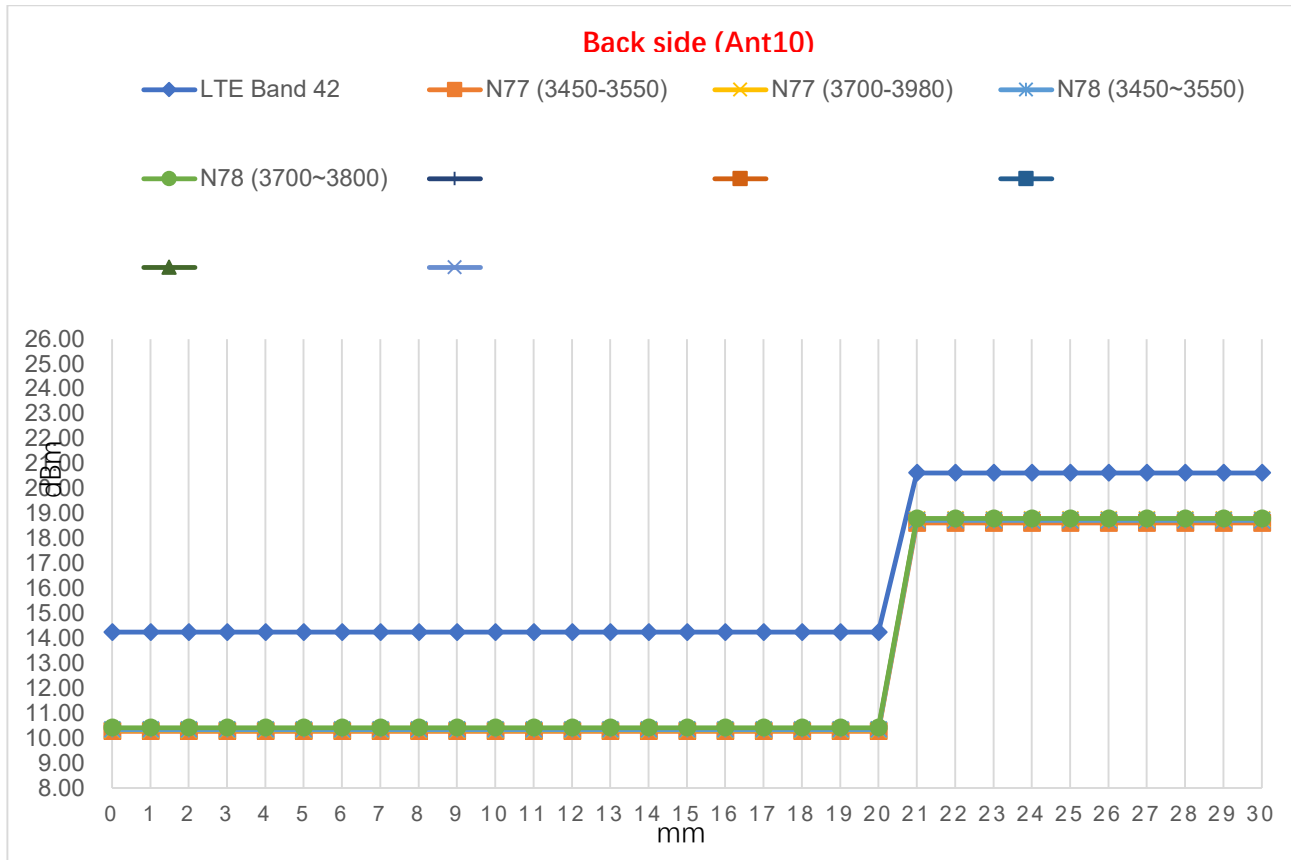
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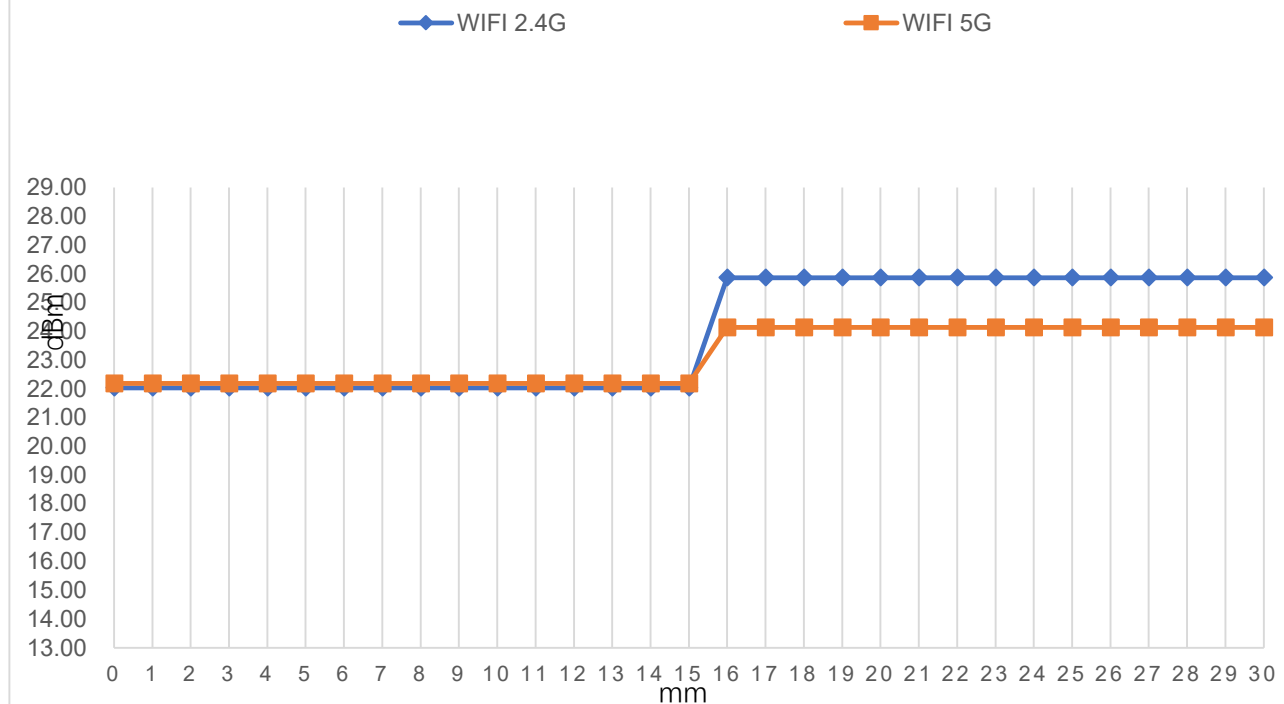


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Front side (MIMO)



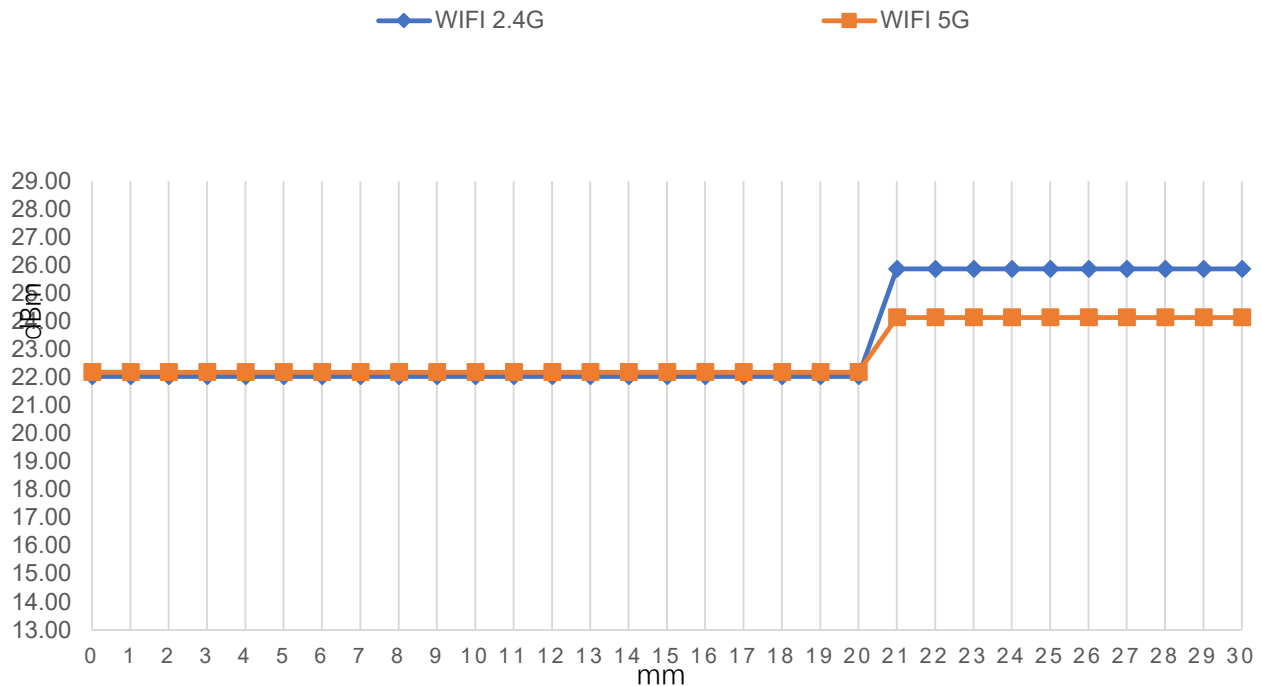
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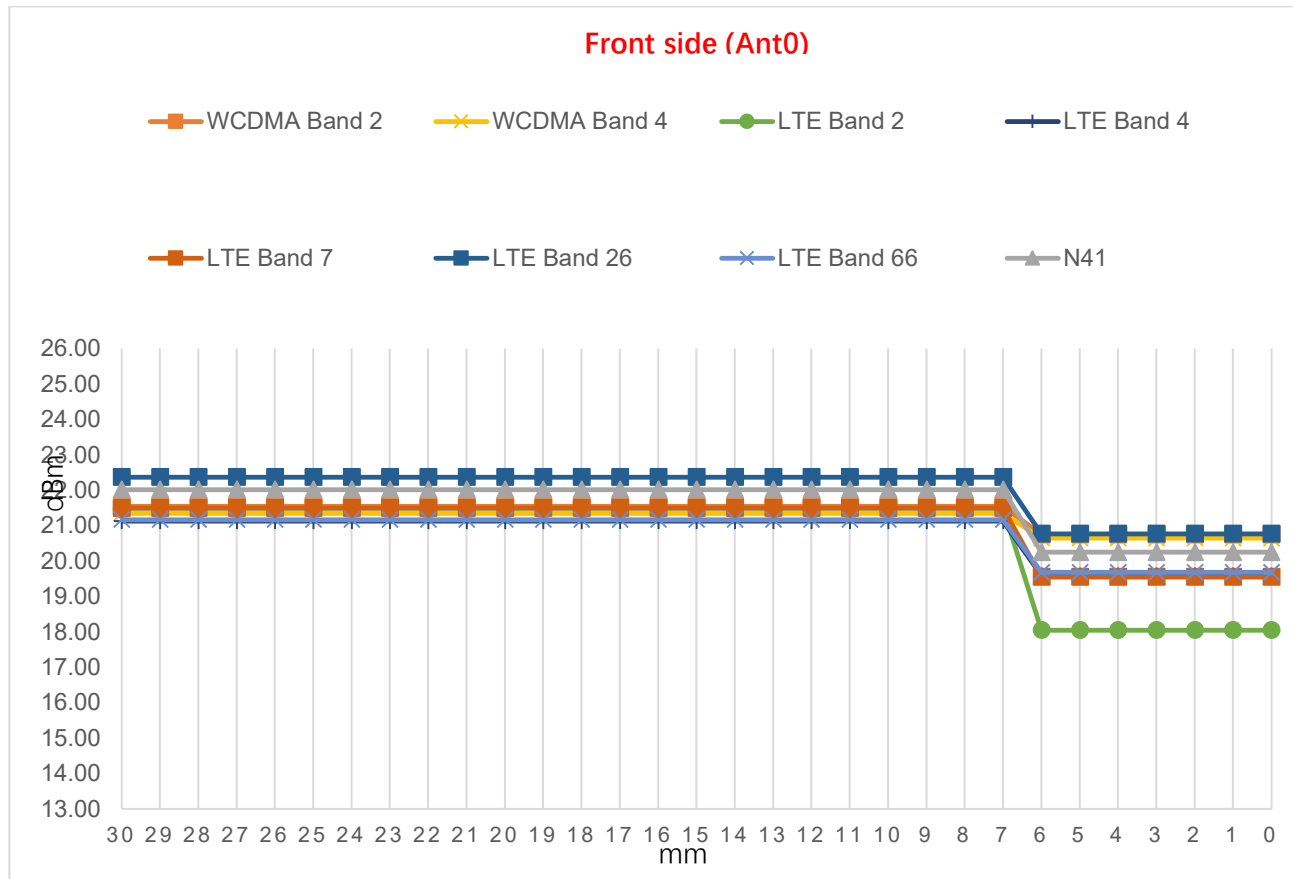
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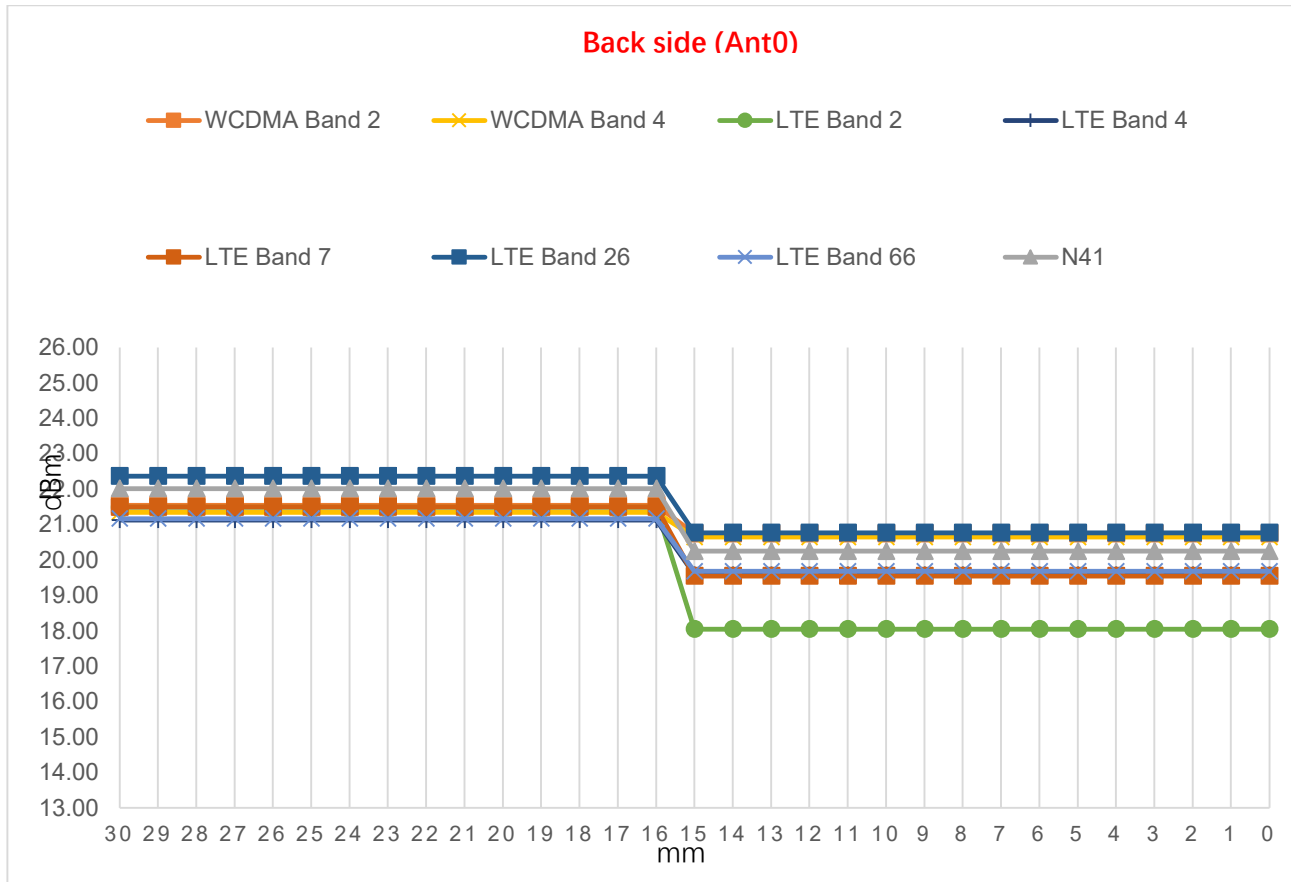
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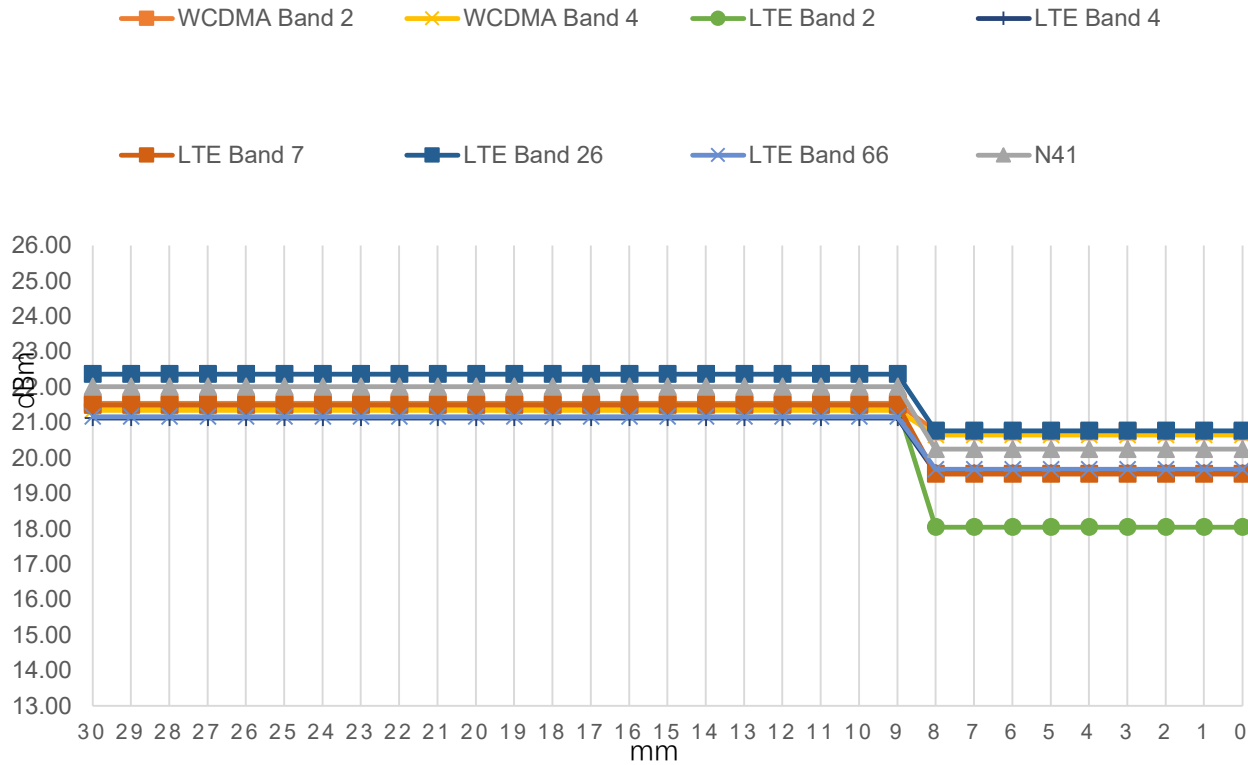
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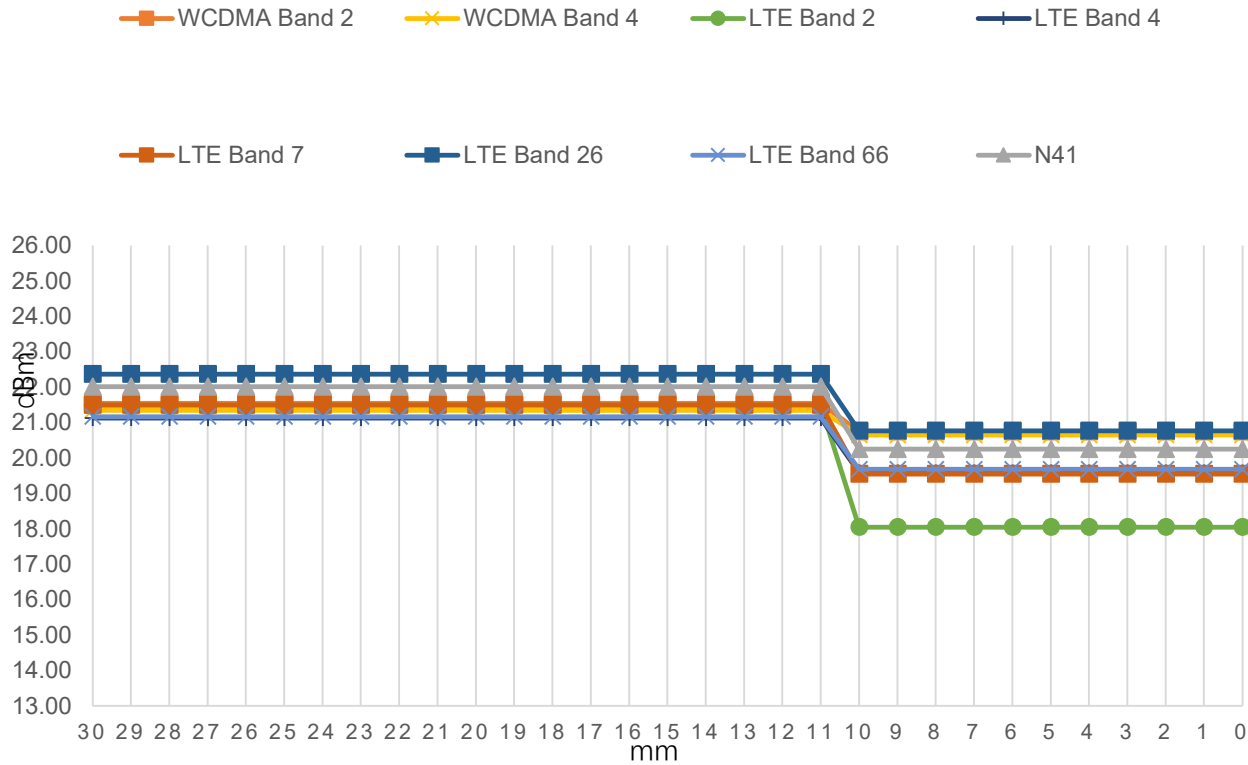
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Bottom side (Ant0)



Left side (Ant0)

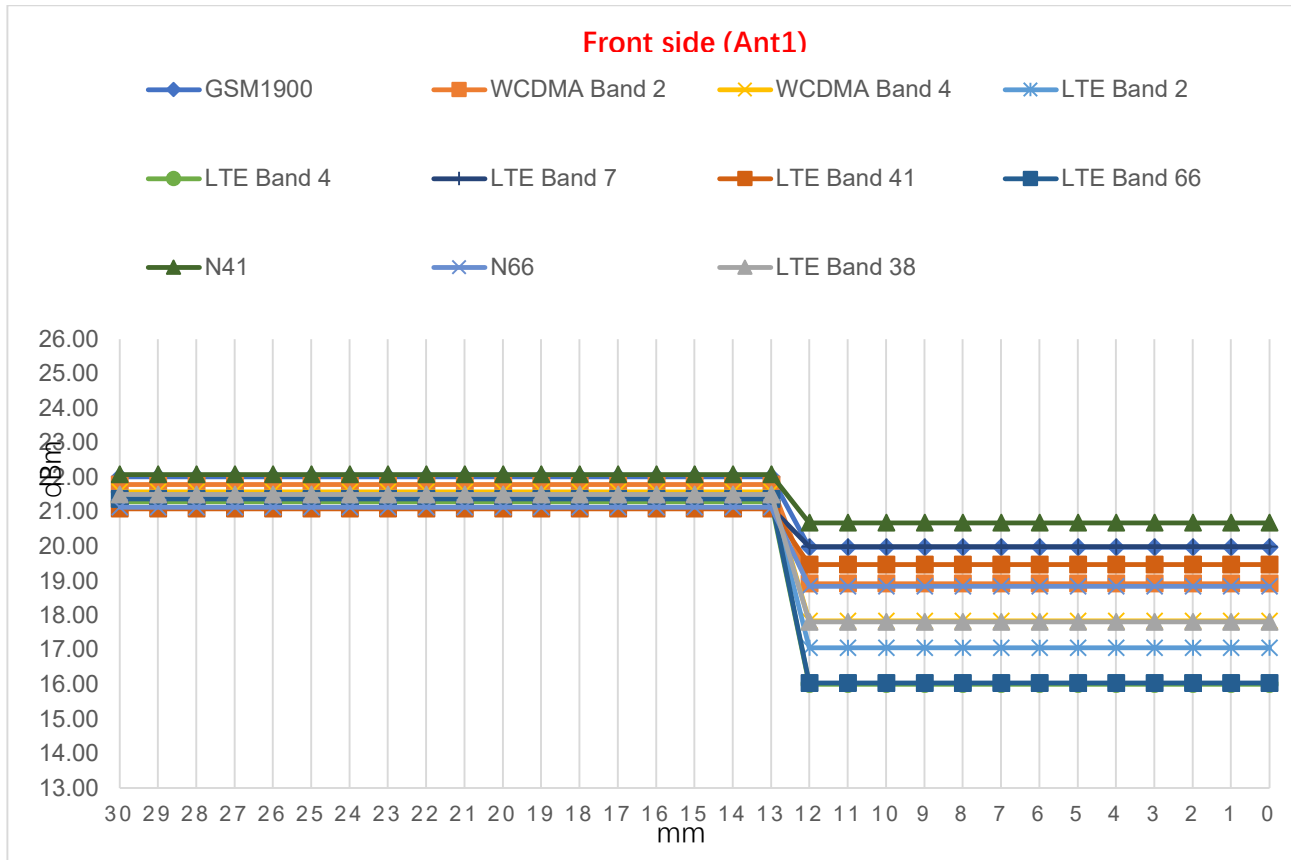


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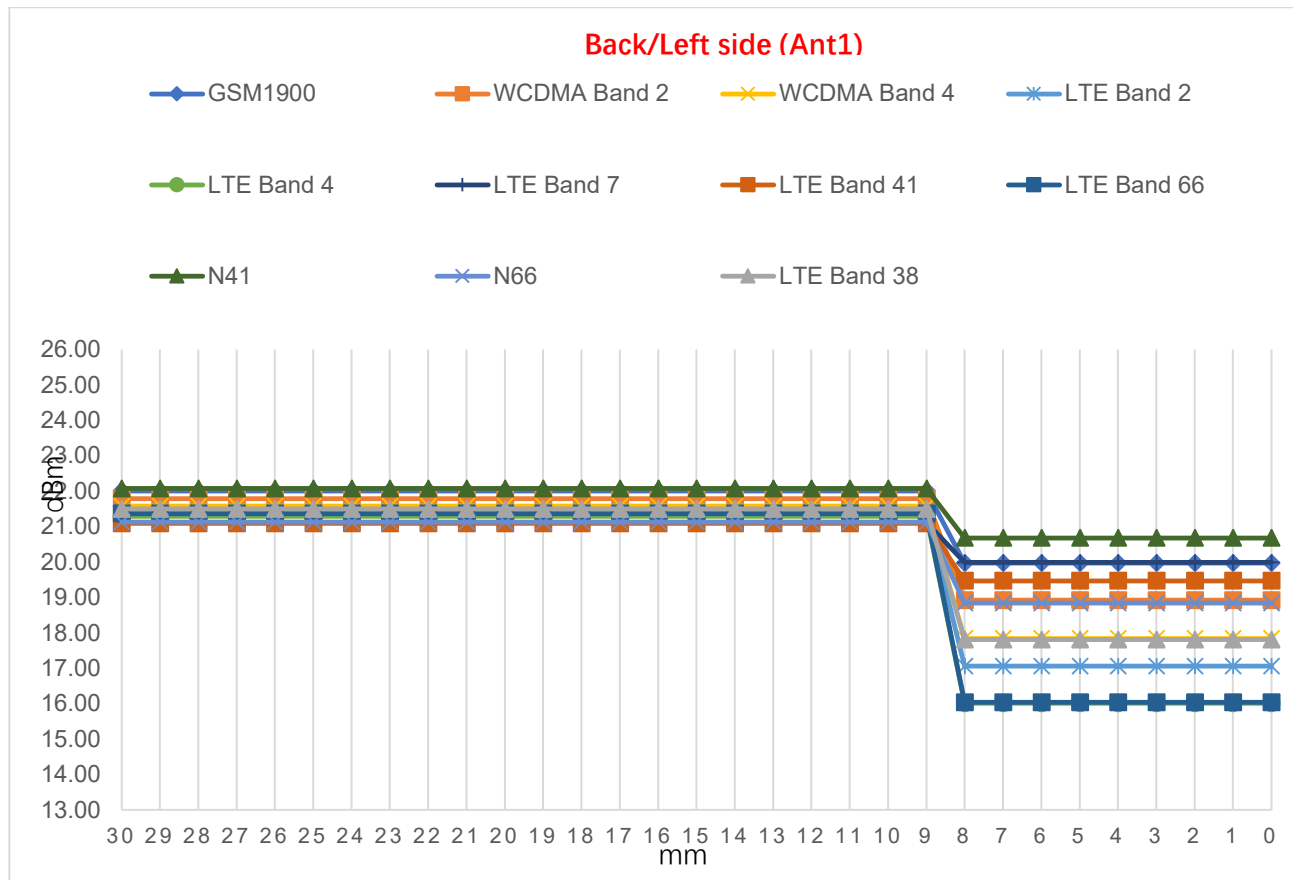
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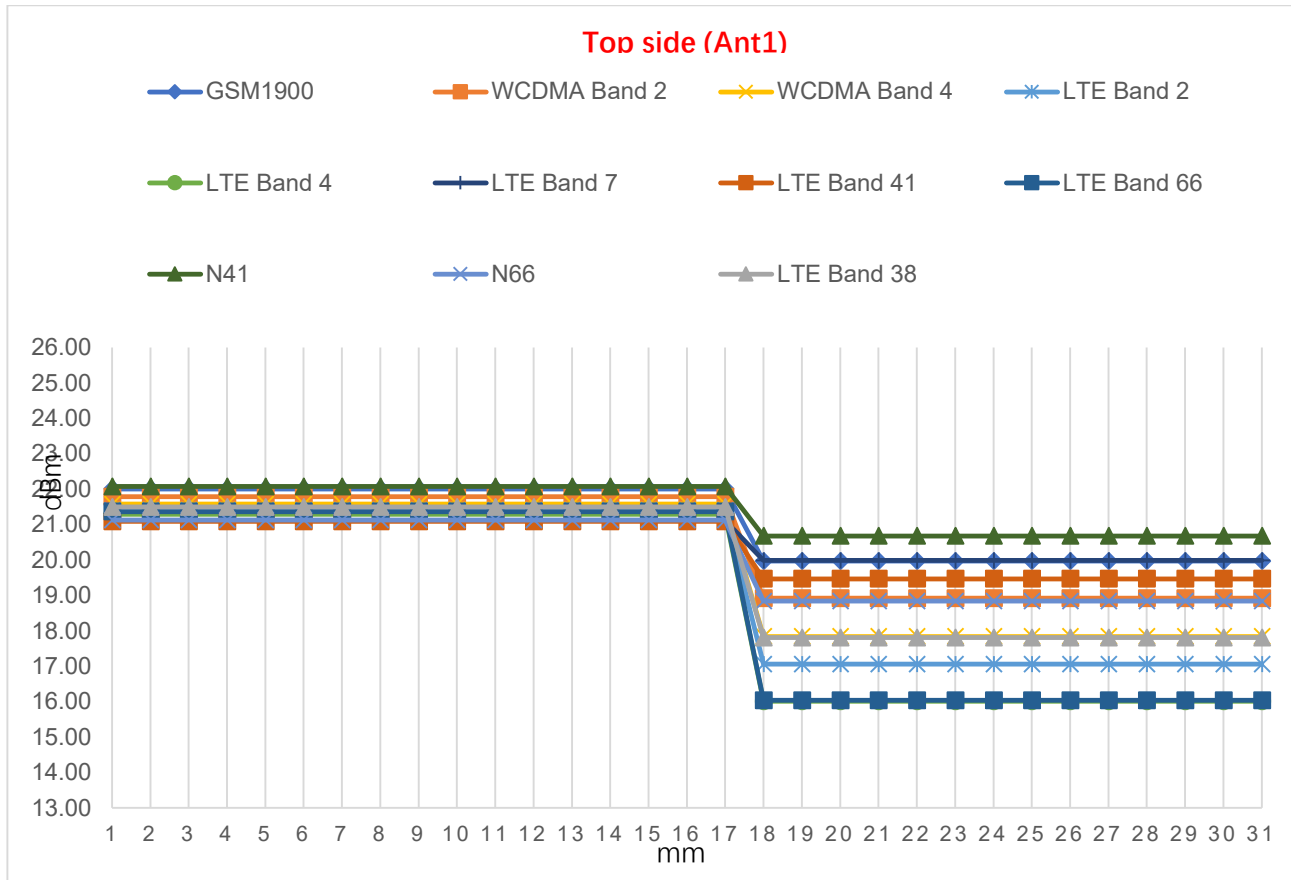


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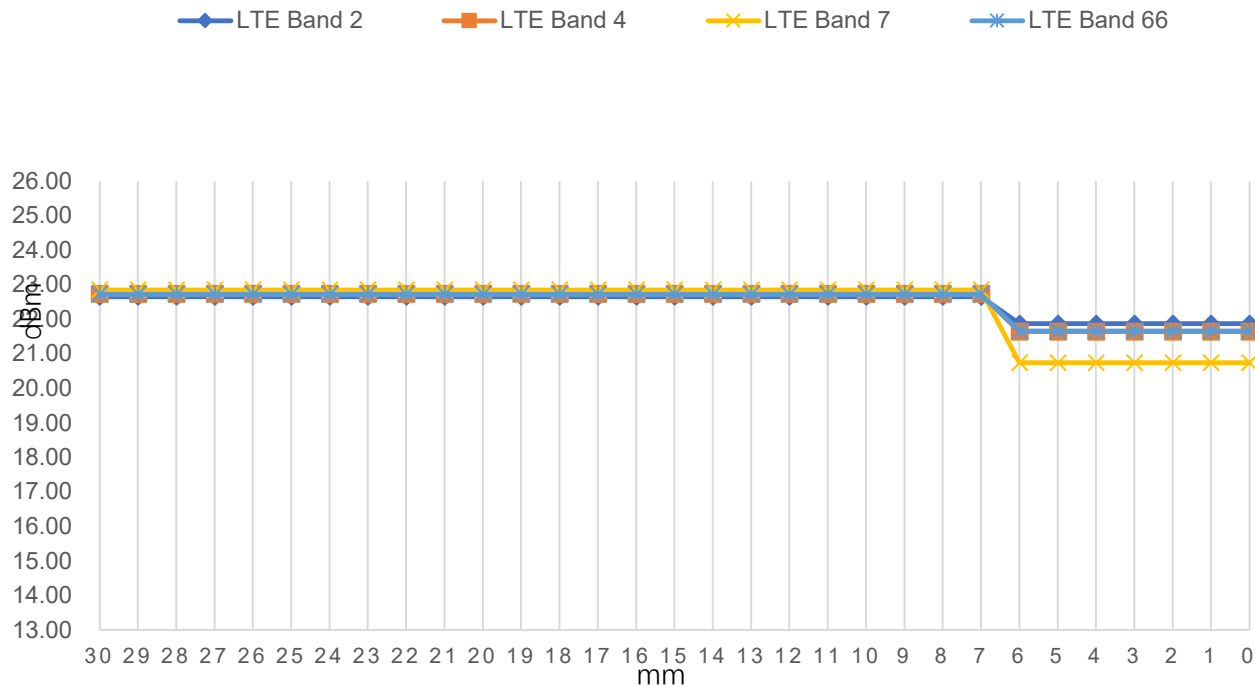
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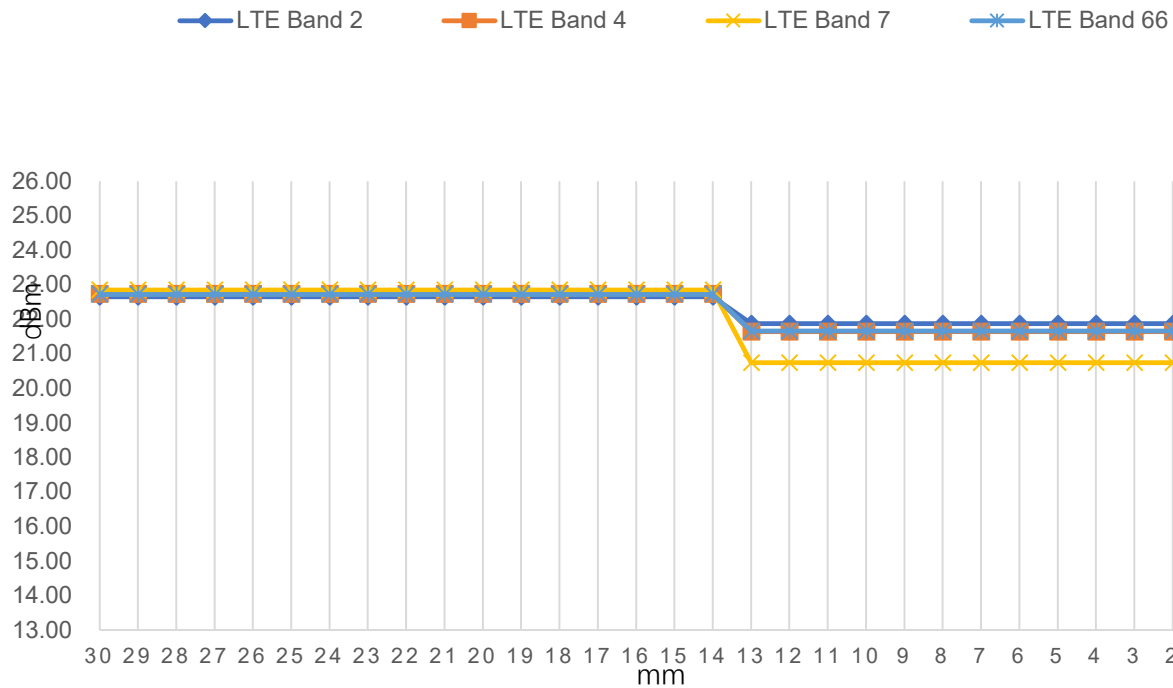
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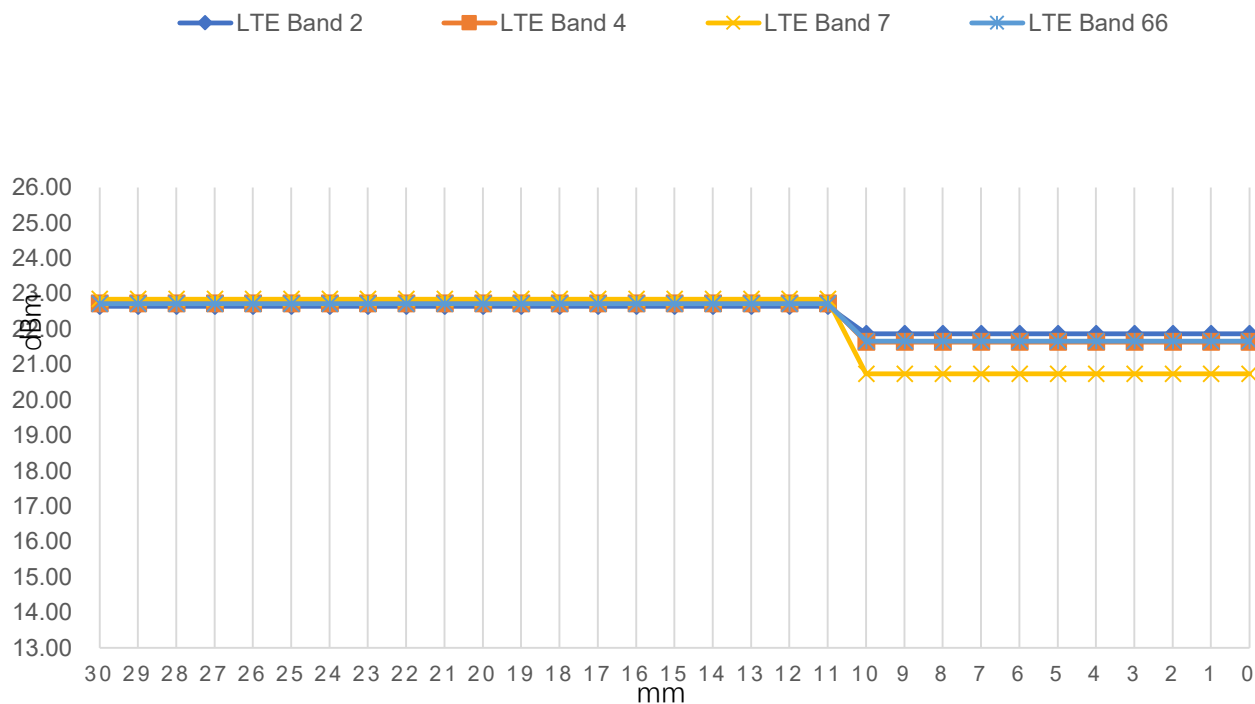
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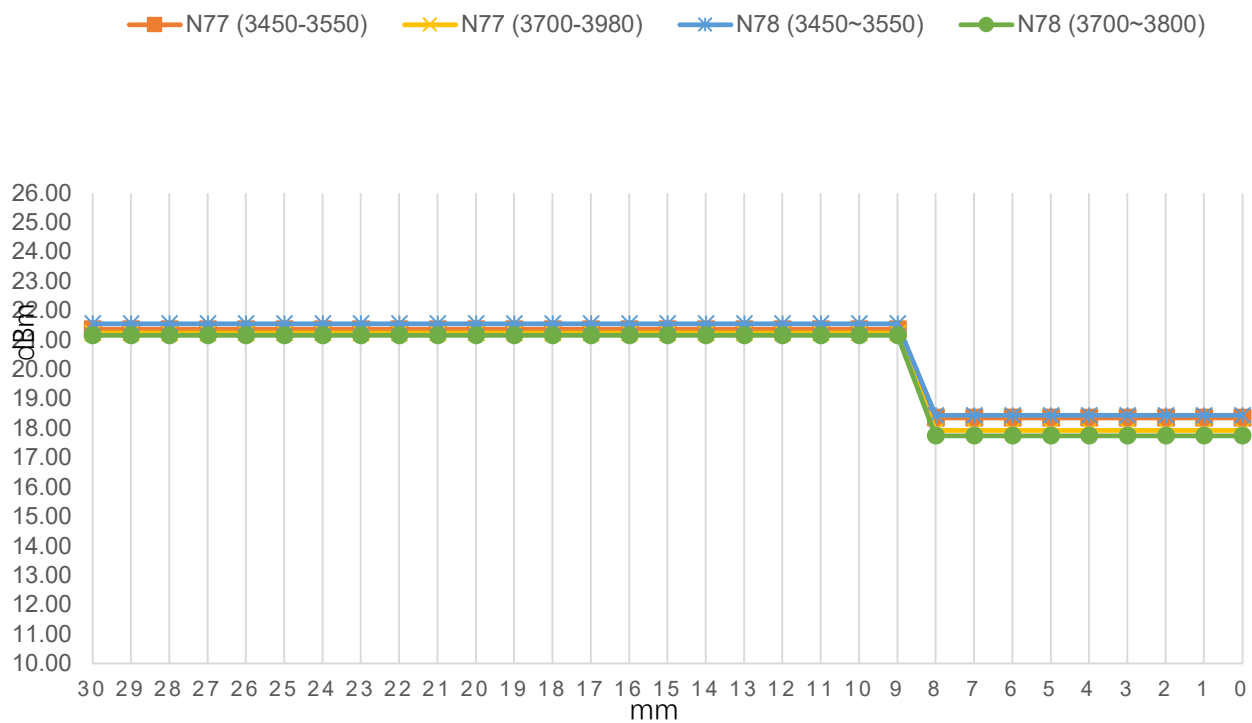


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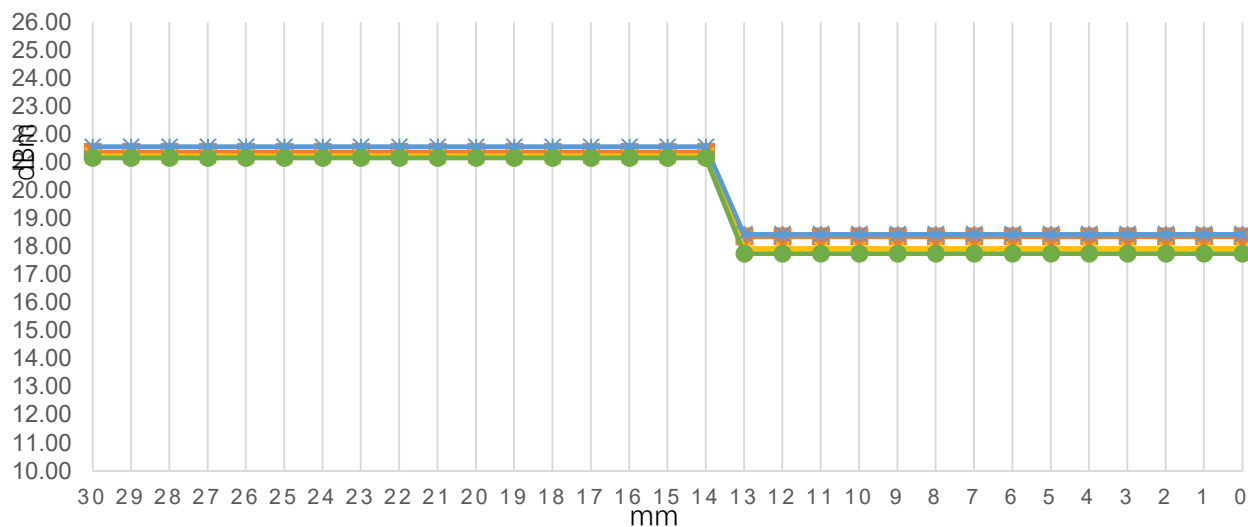
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Front/Right side (Ant4)



Back/Top side (Ant4)

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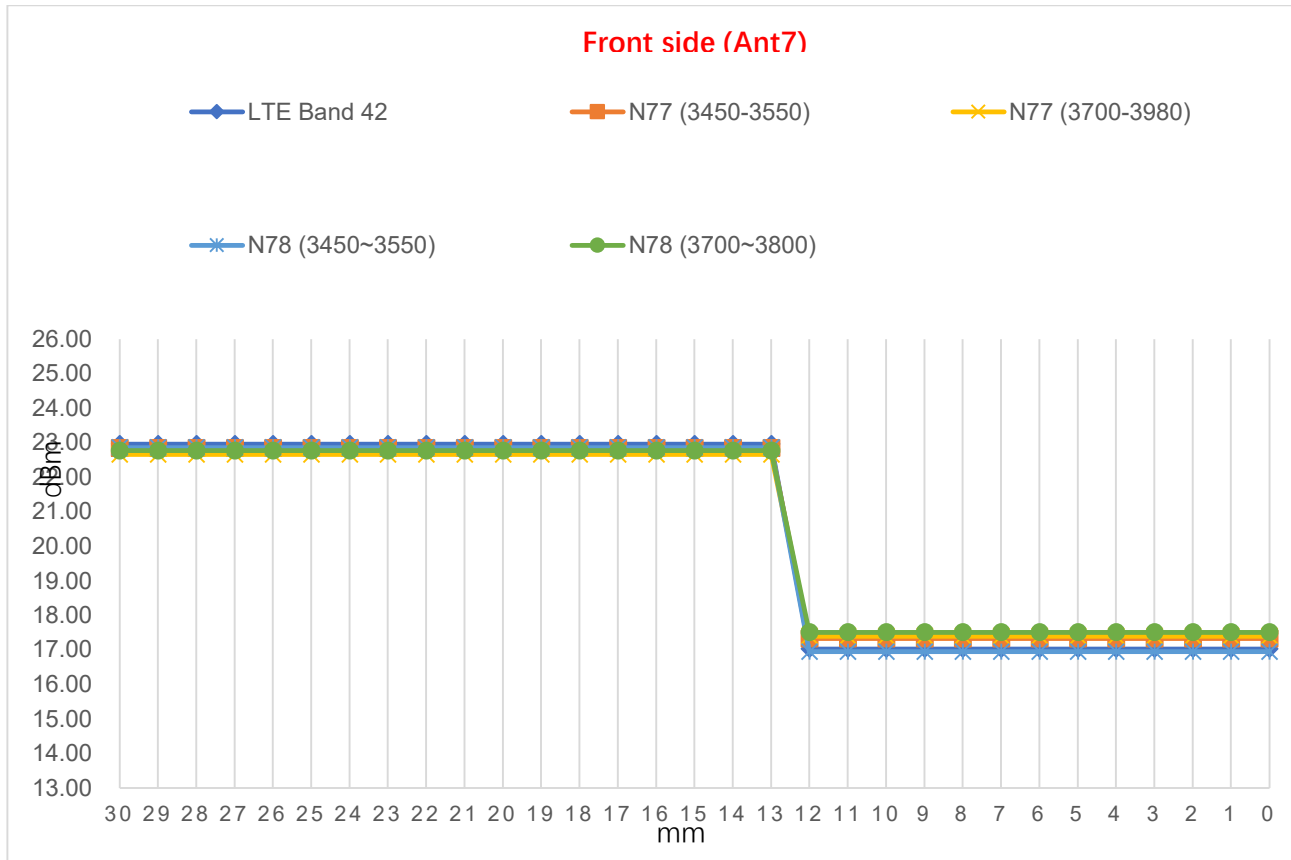


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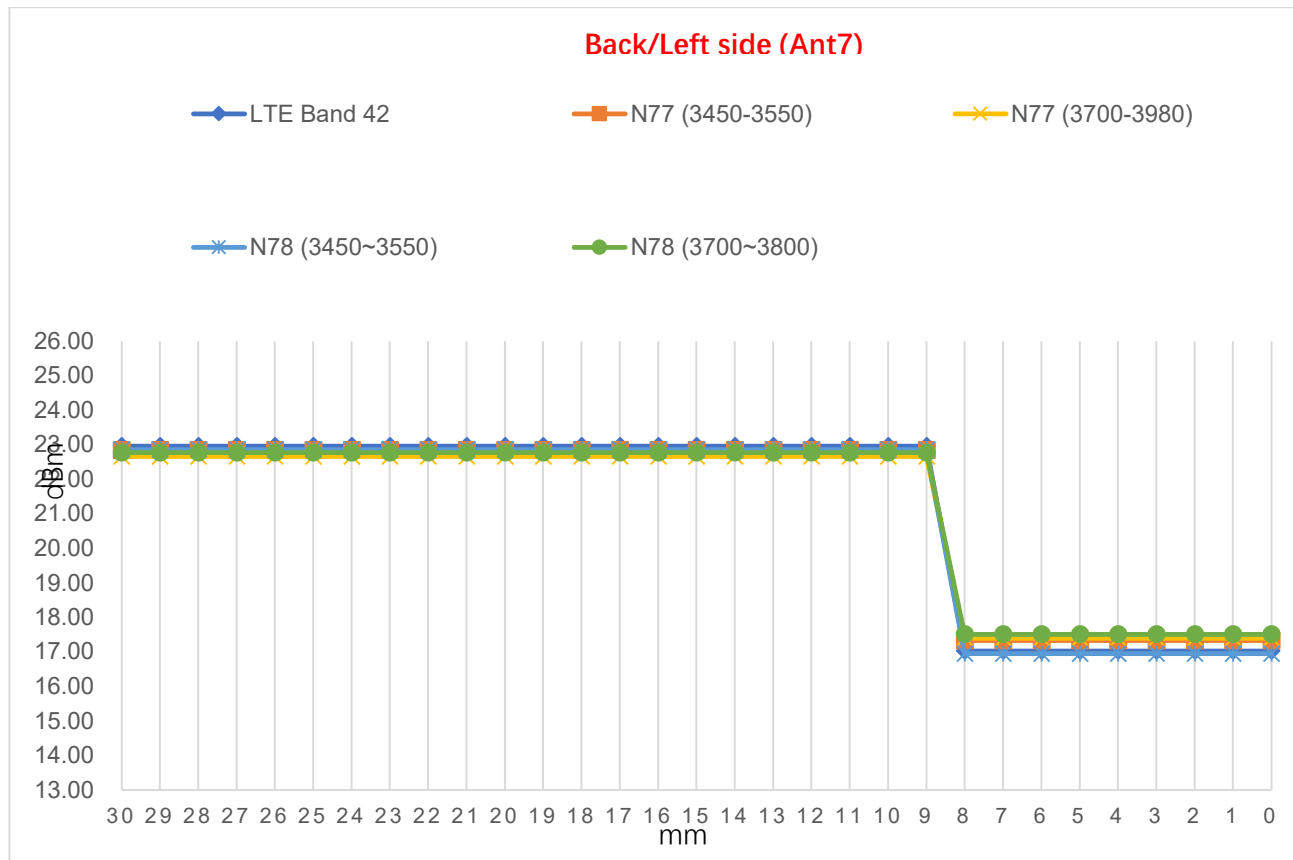
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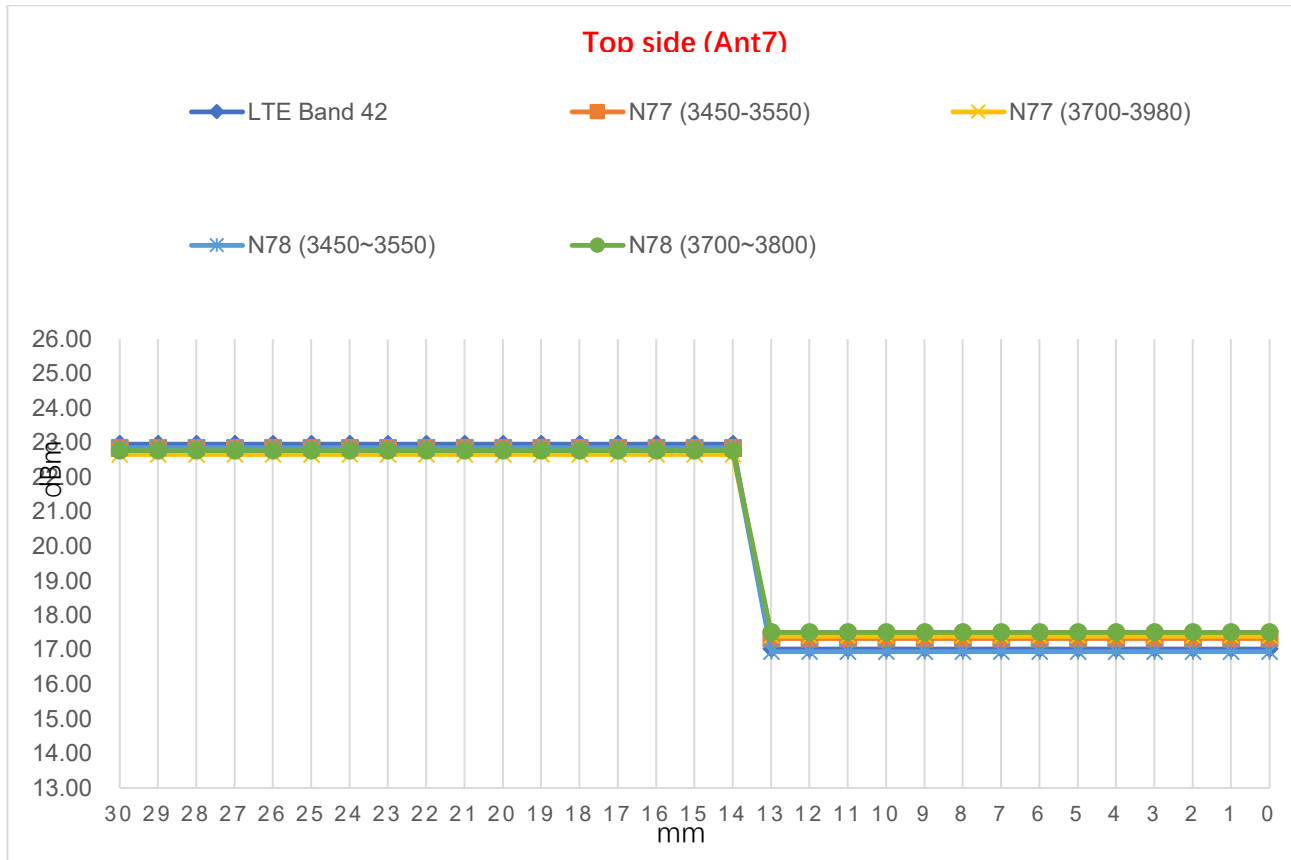


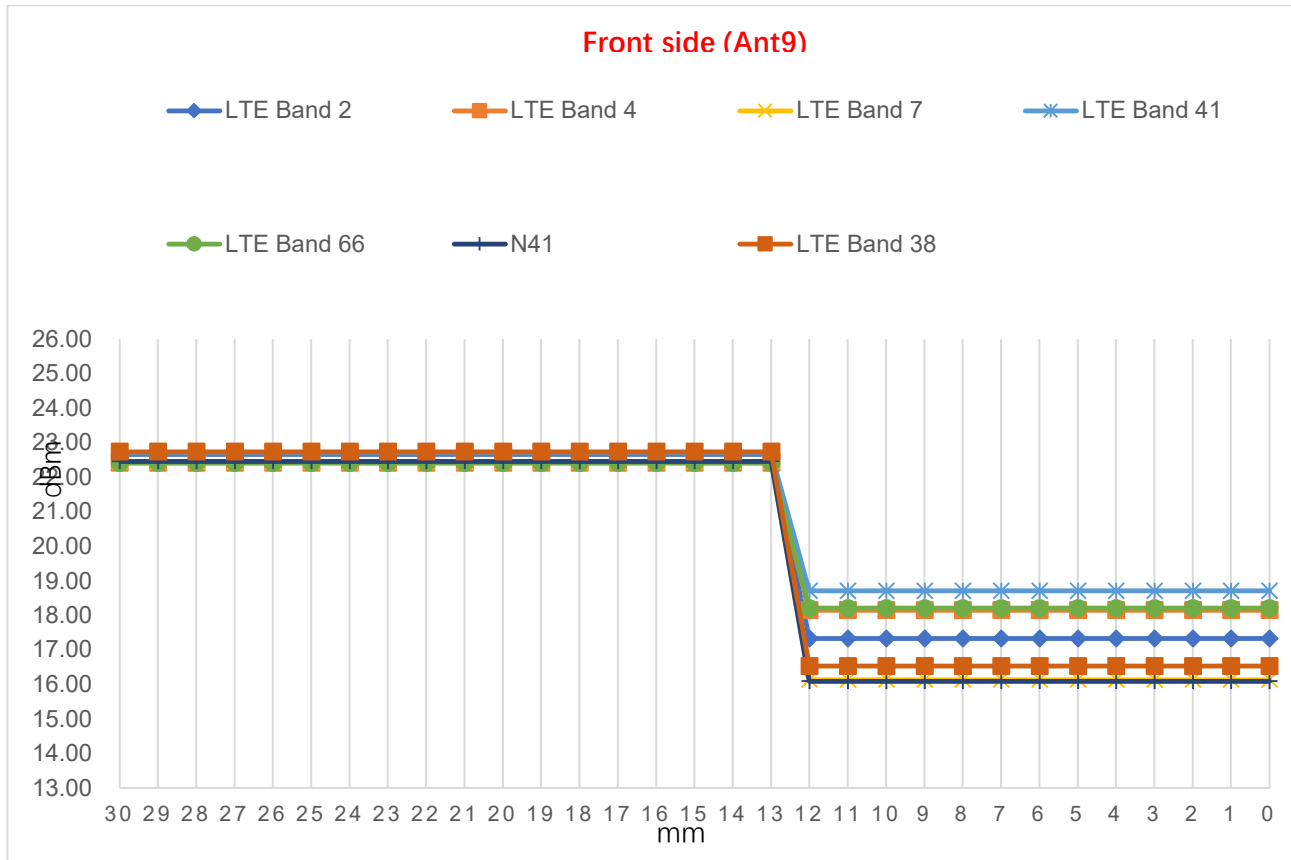
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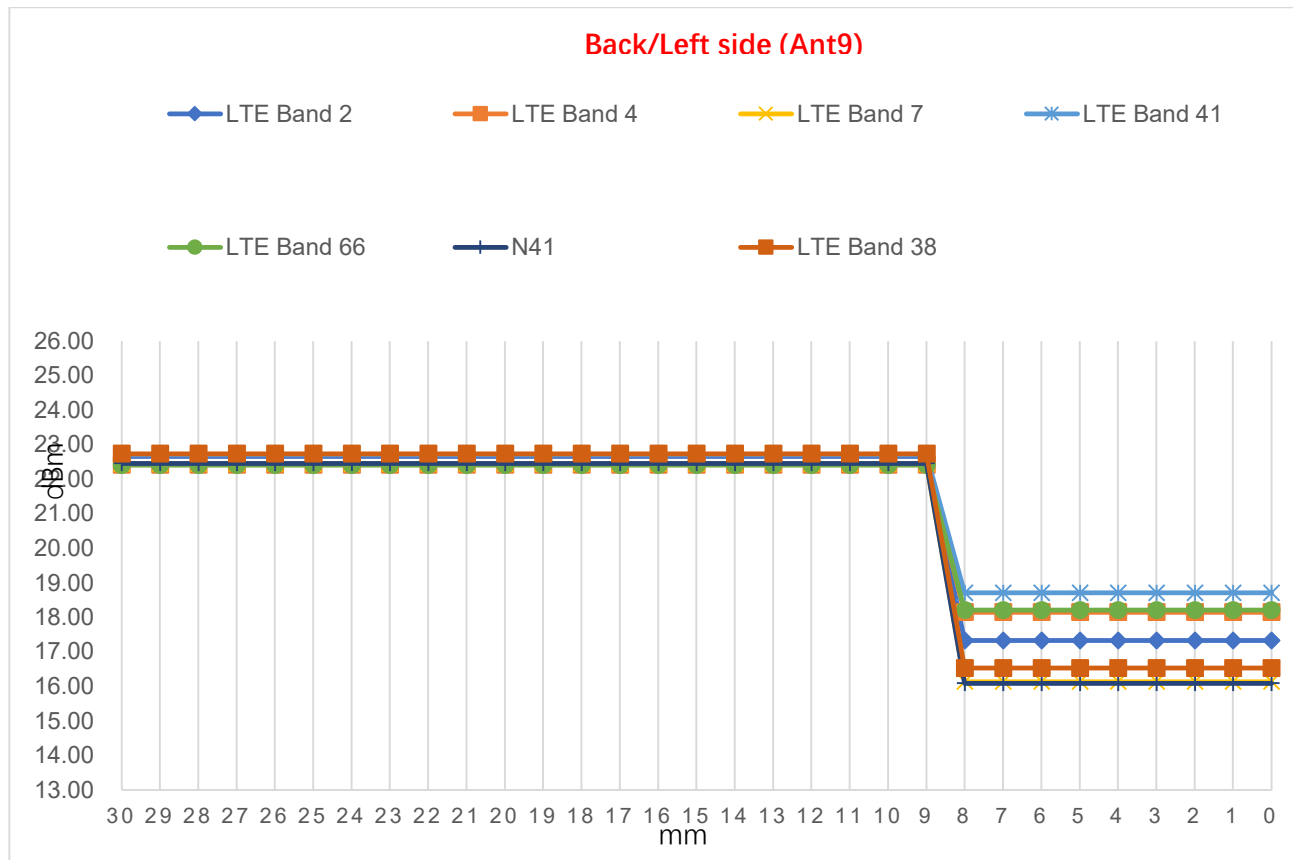


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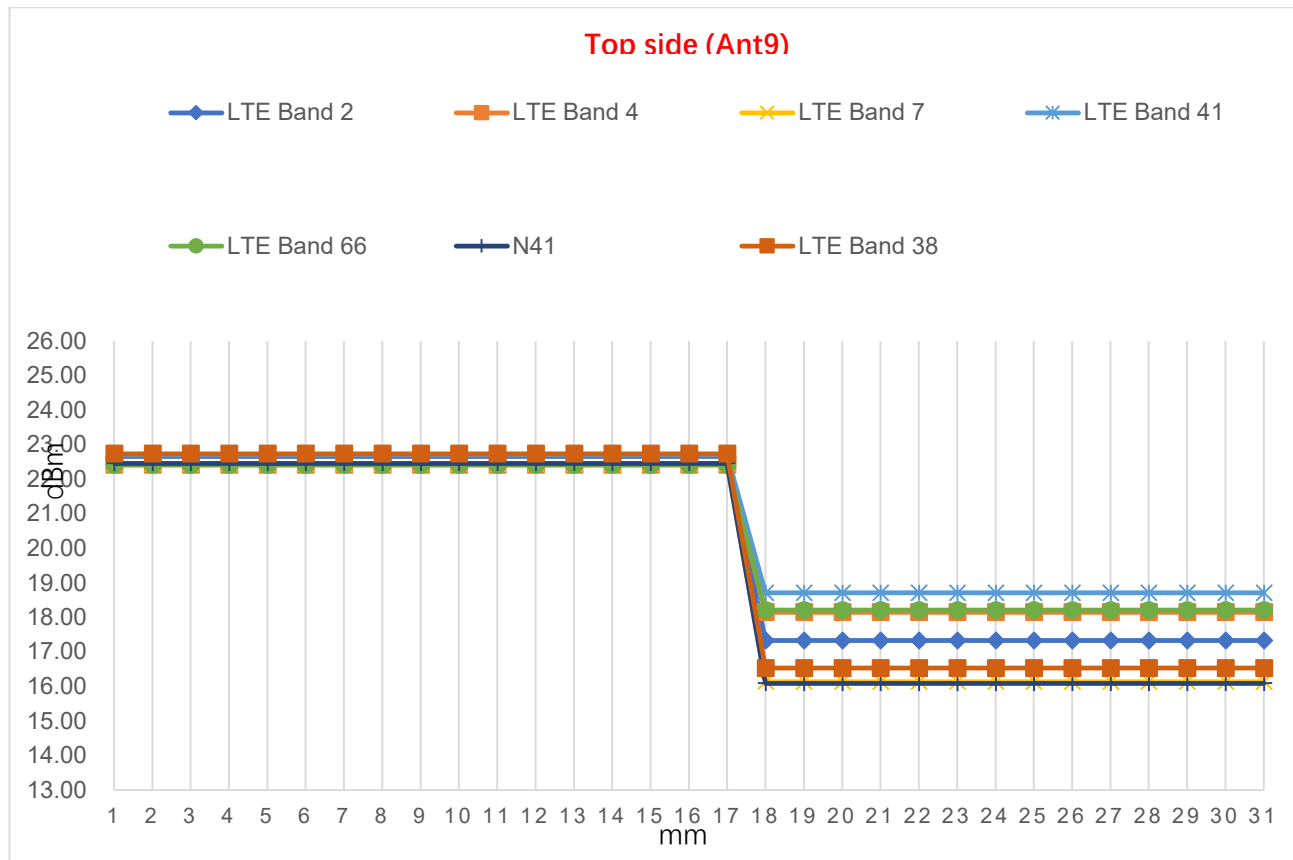


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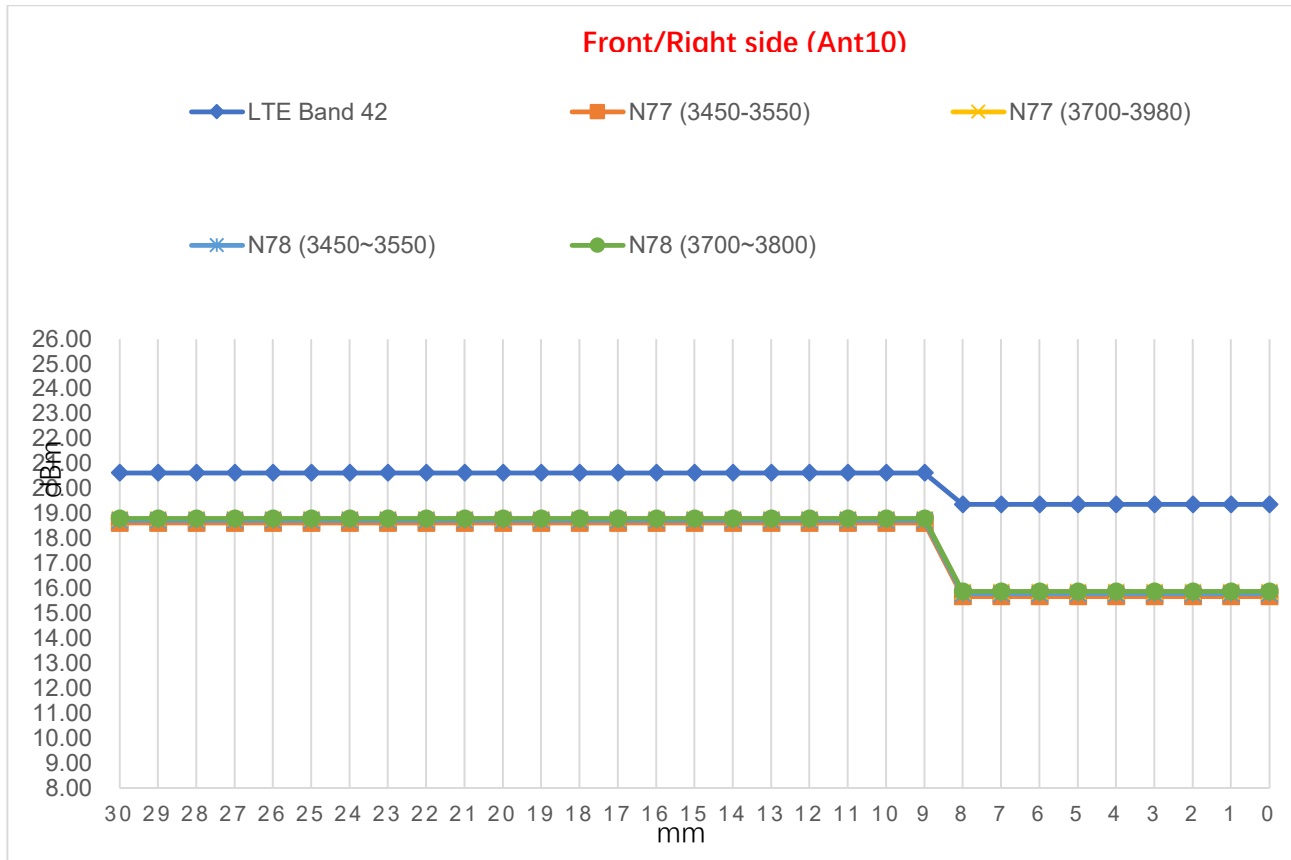


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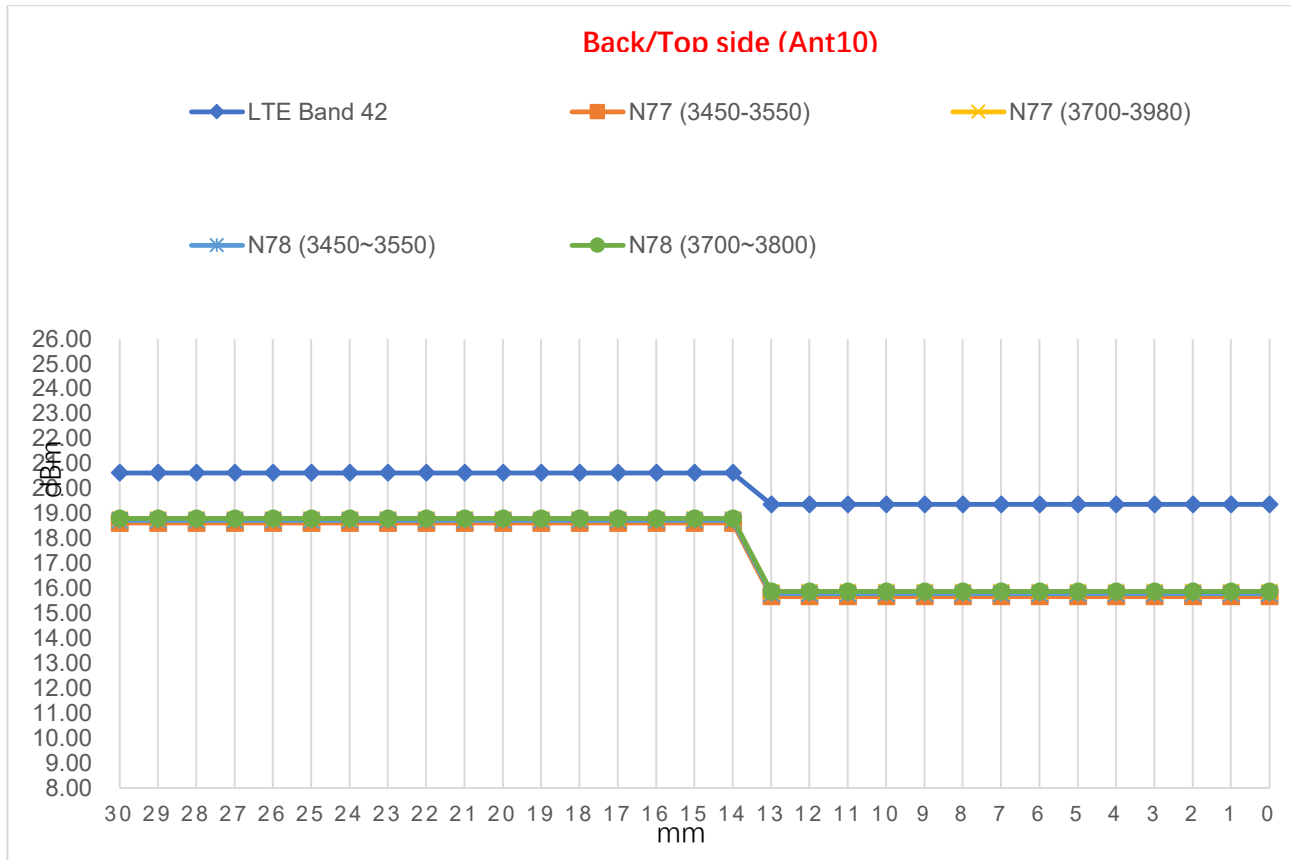


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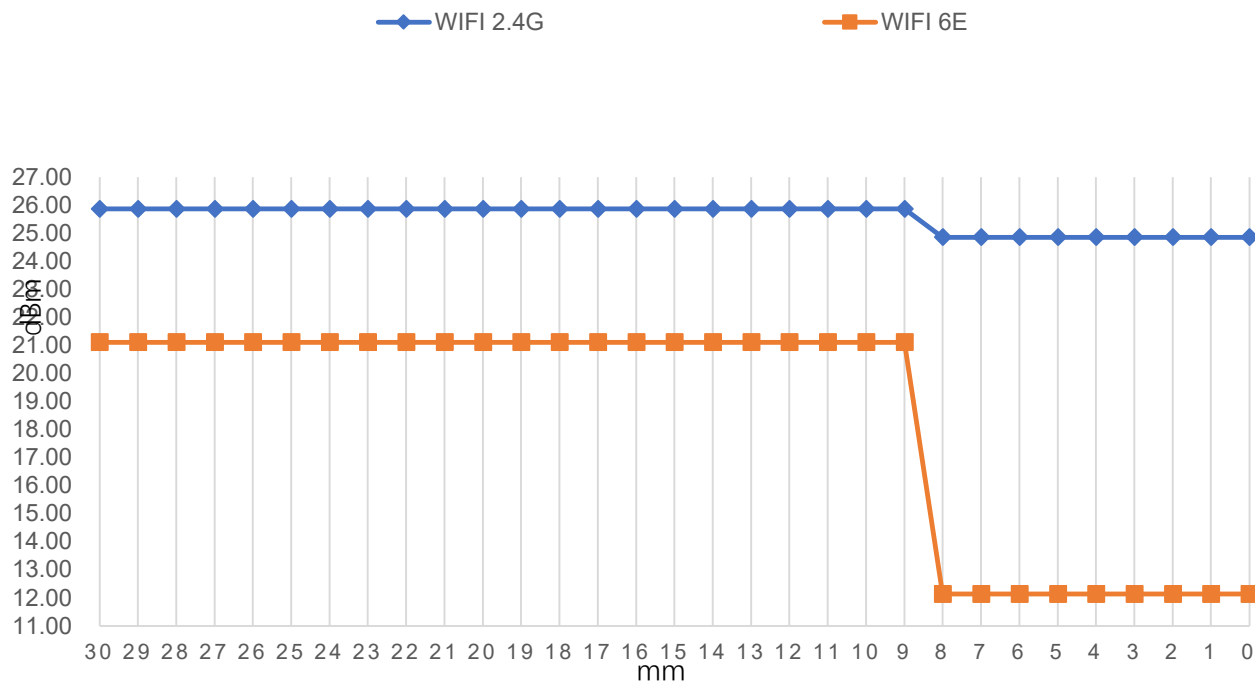
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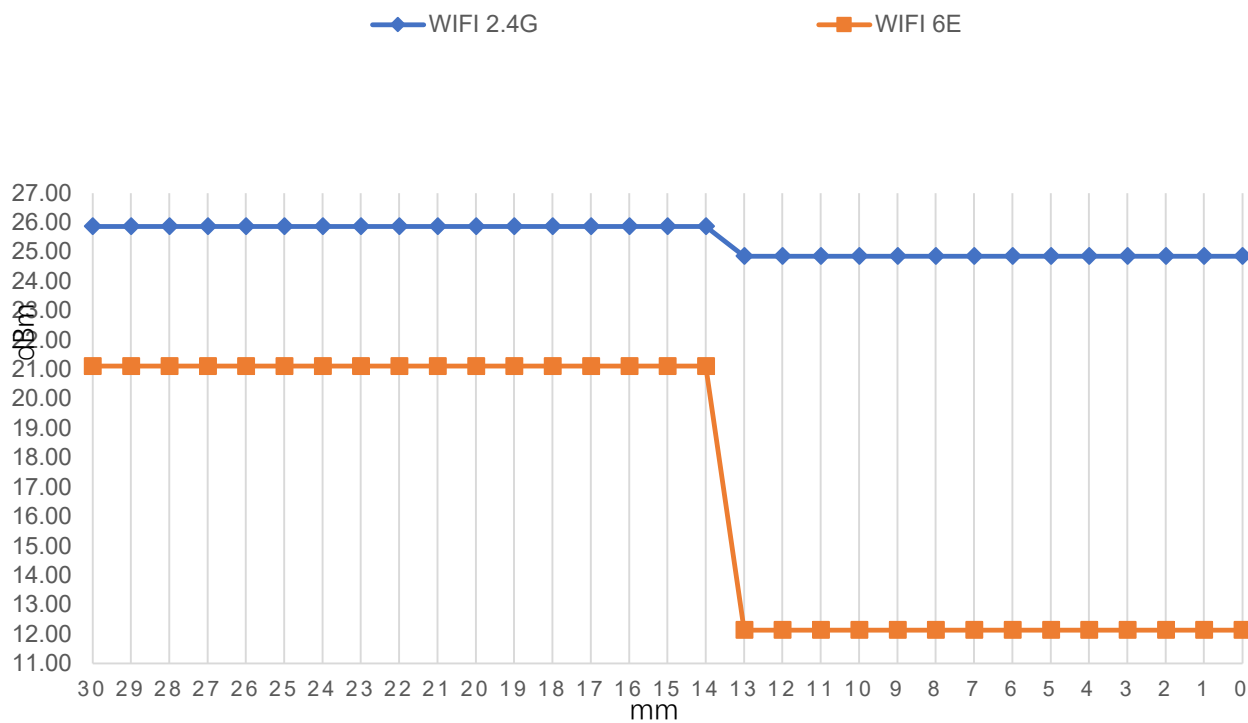
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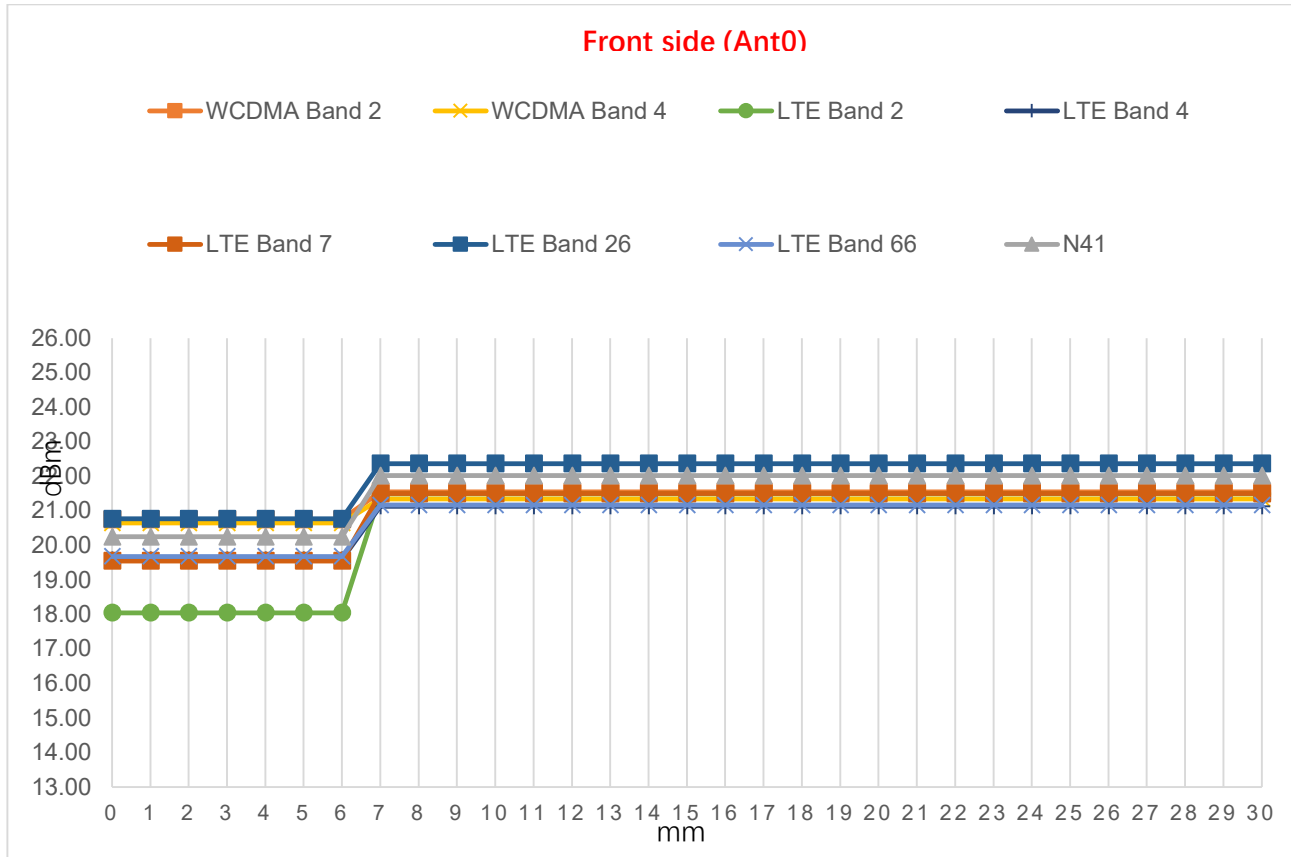


Back/Top side (MIMO)



For product specific 0mm:

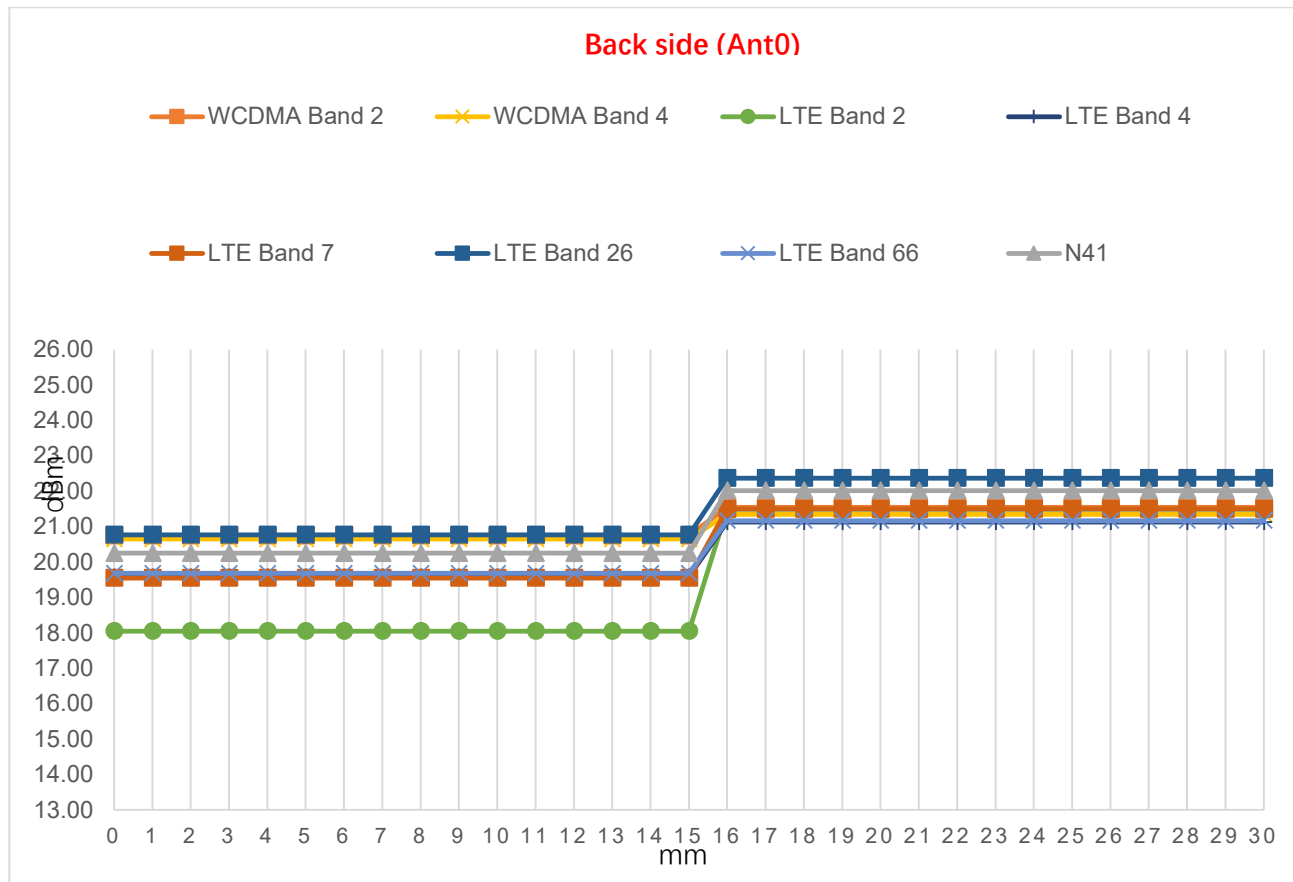
- DUT Moving Away(Release) from the Phantom



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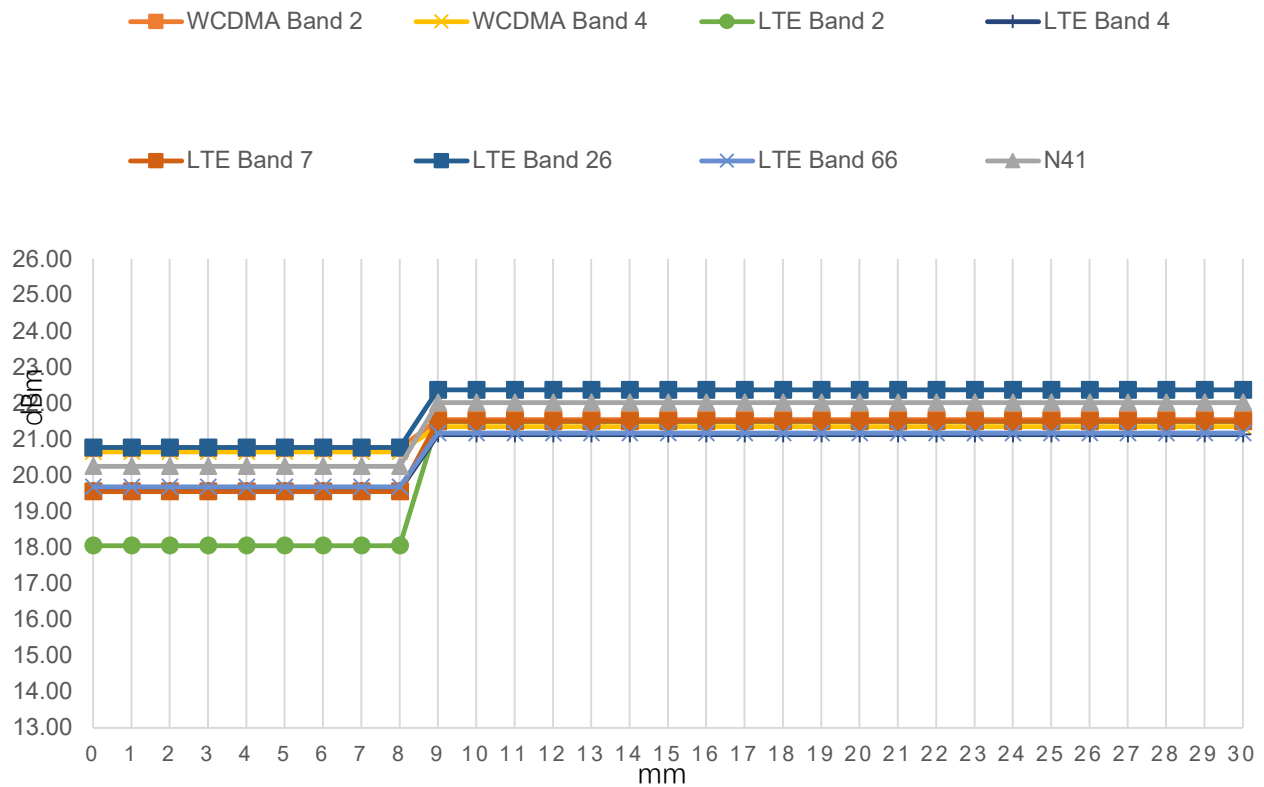


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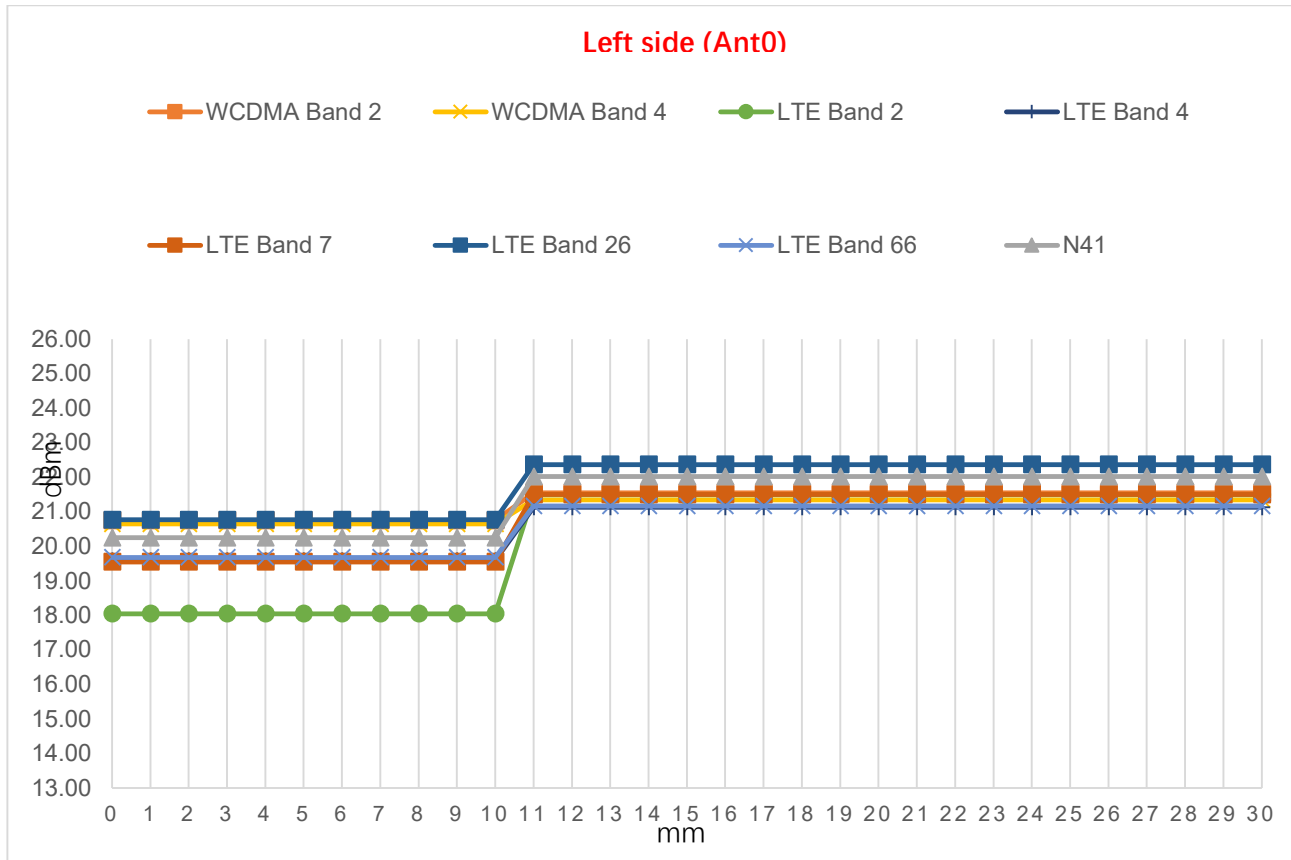


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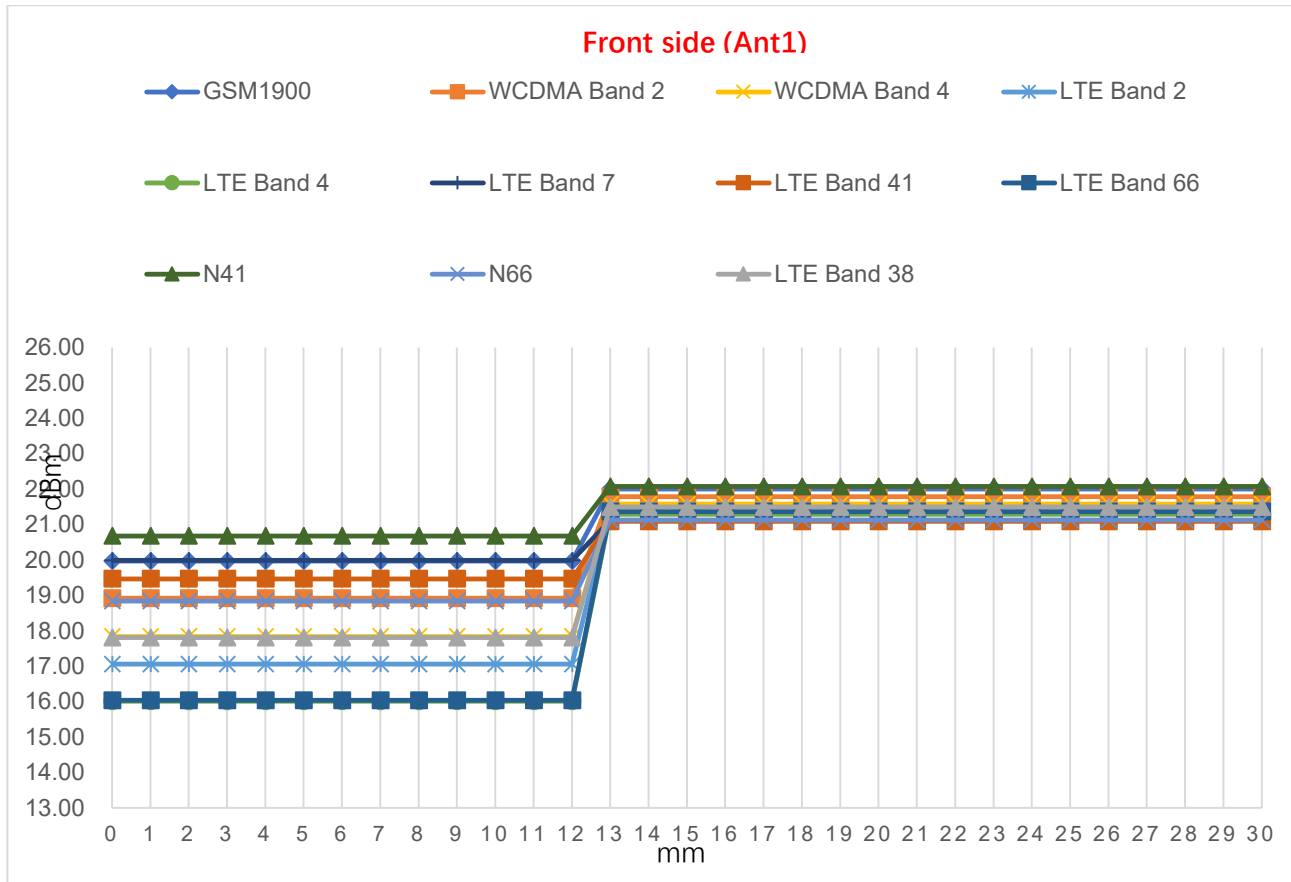


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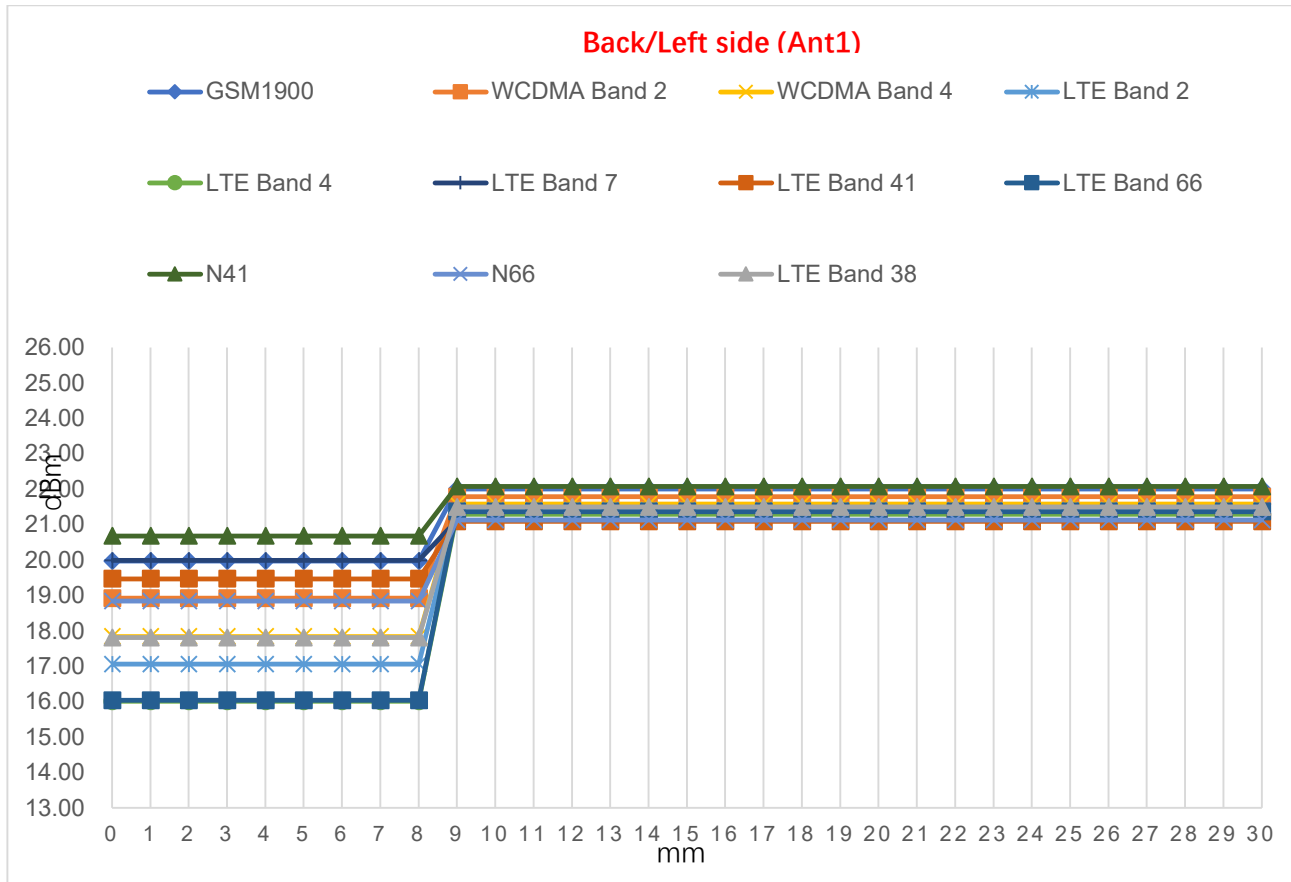
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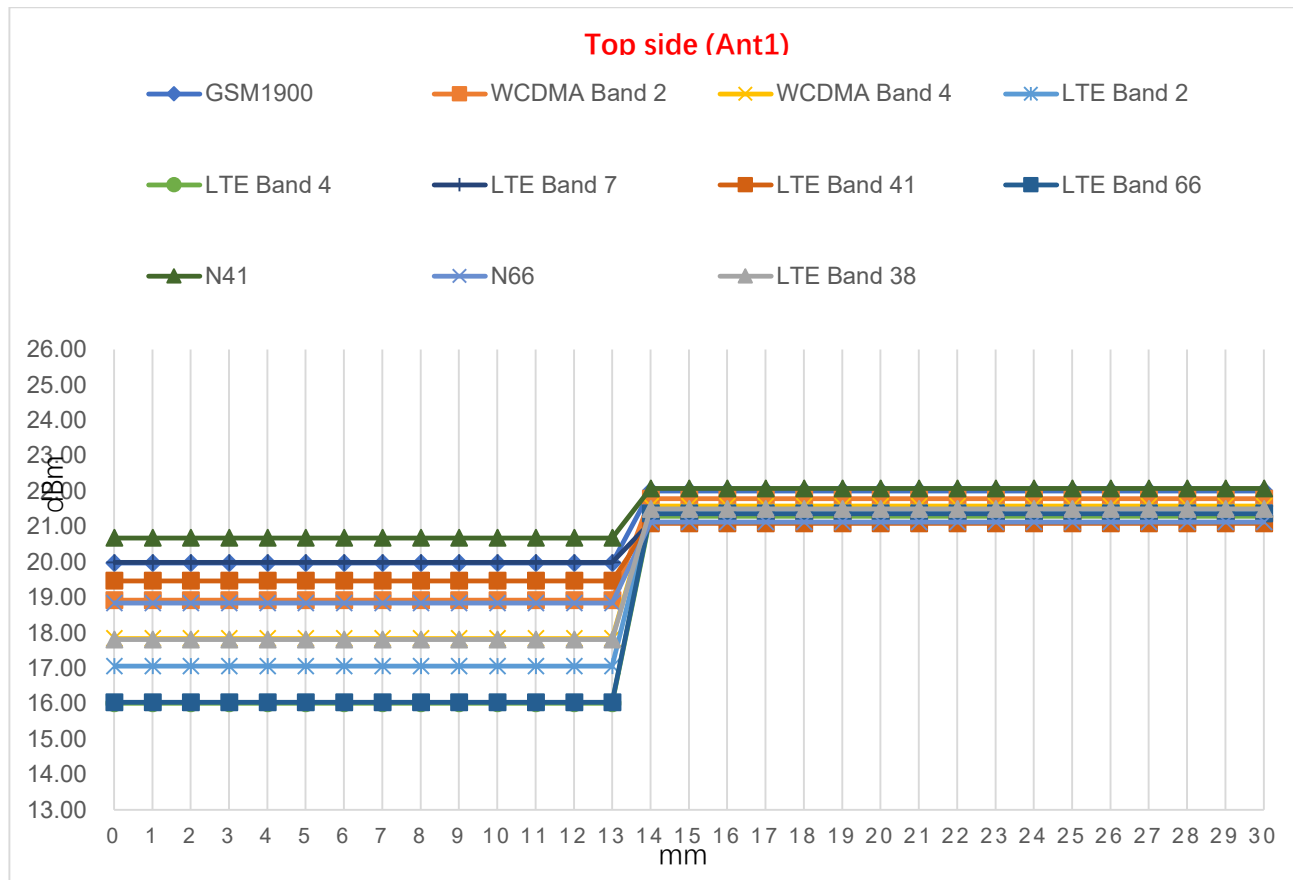


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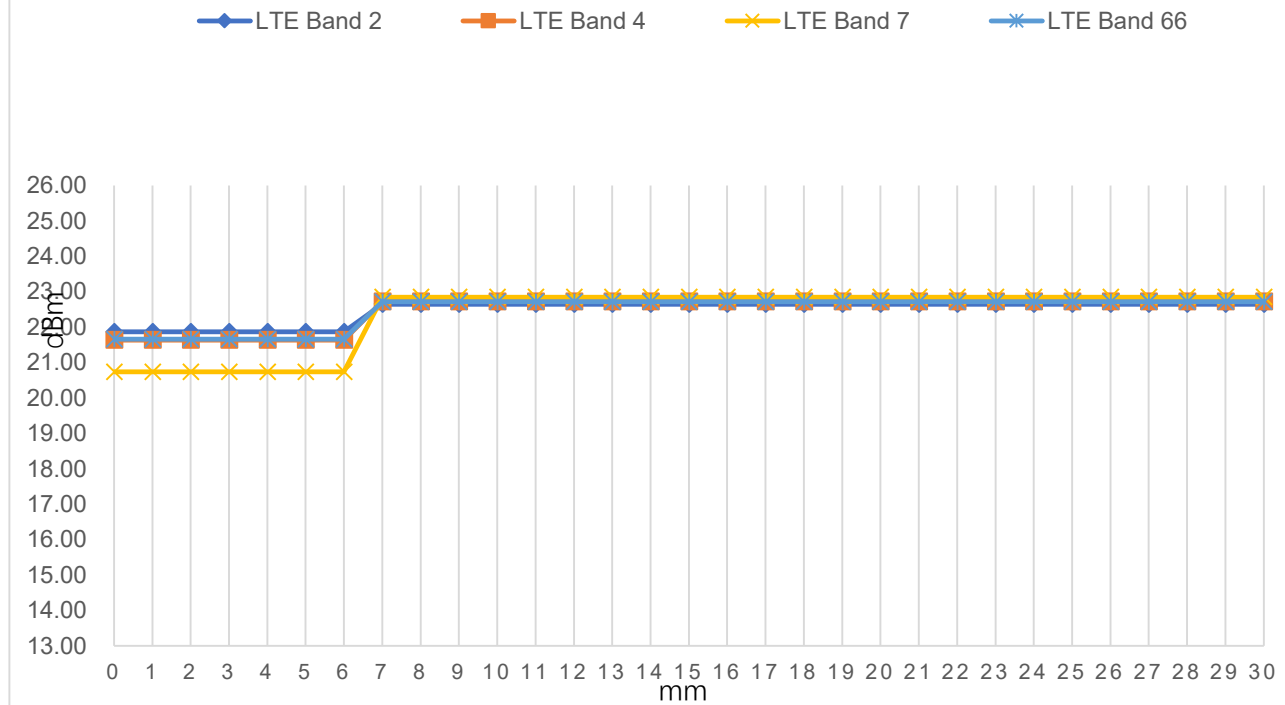
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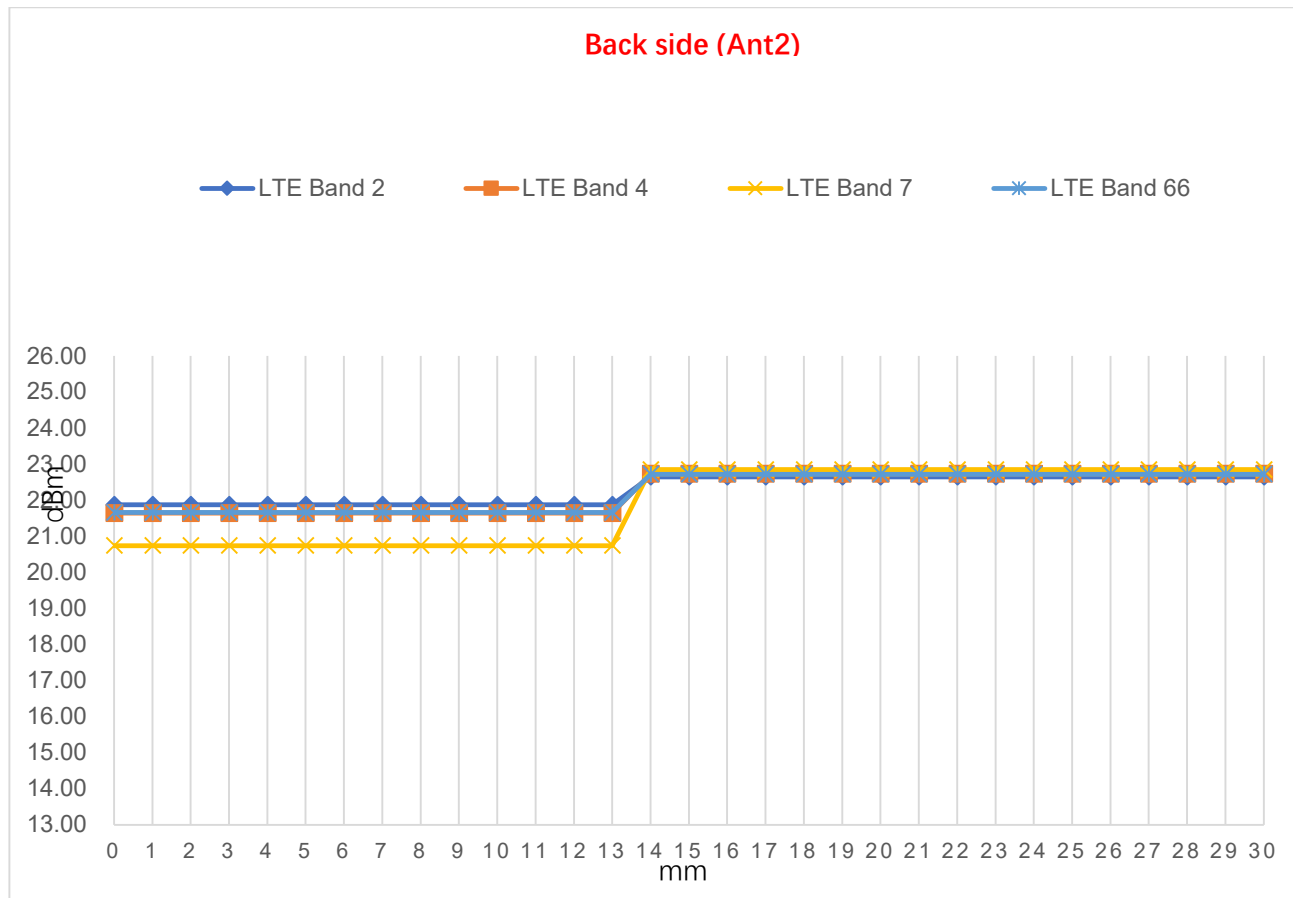


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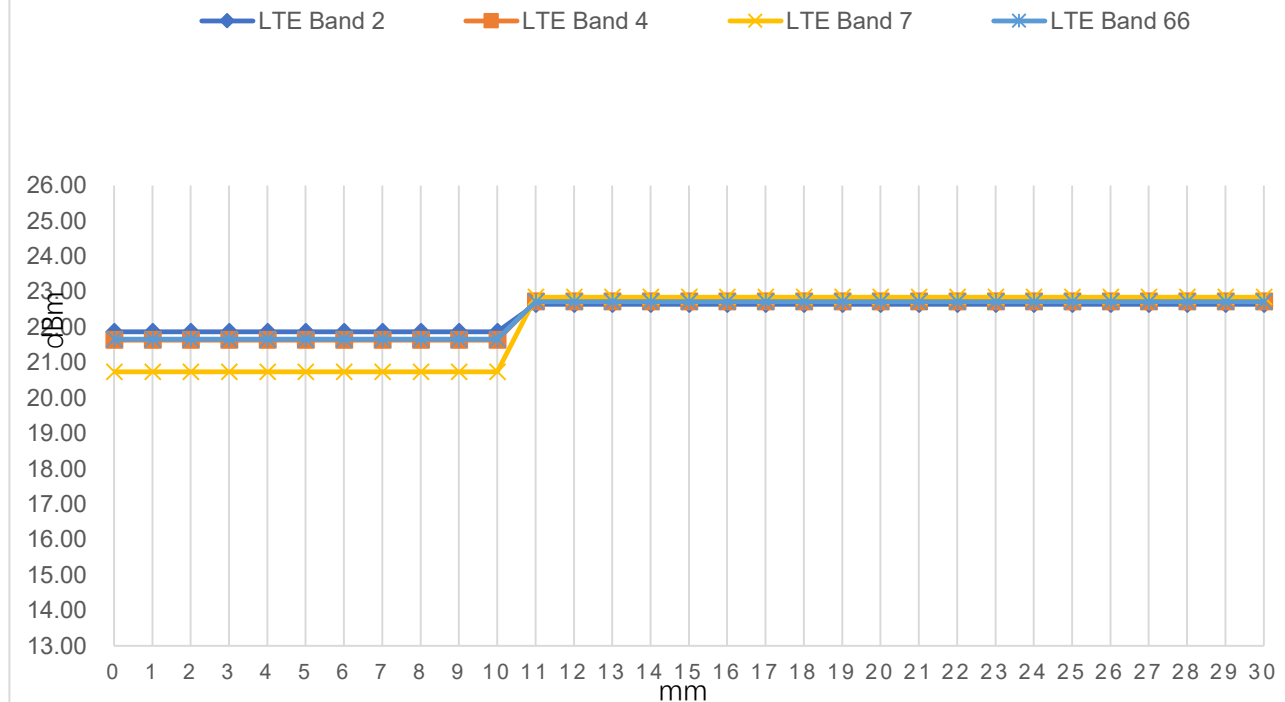


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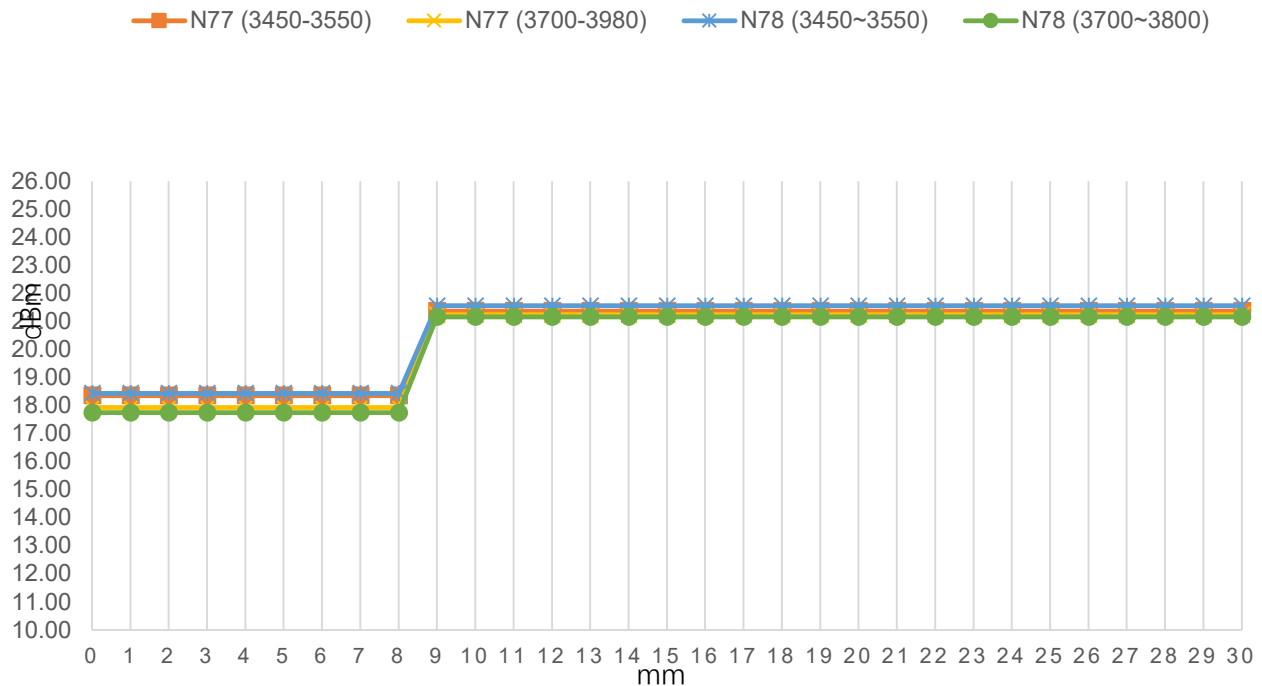
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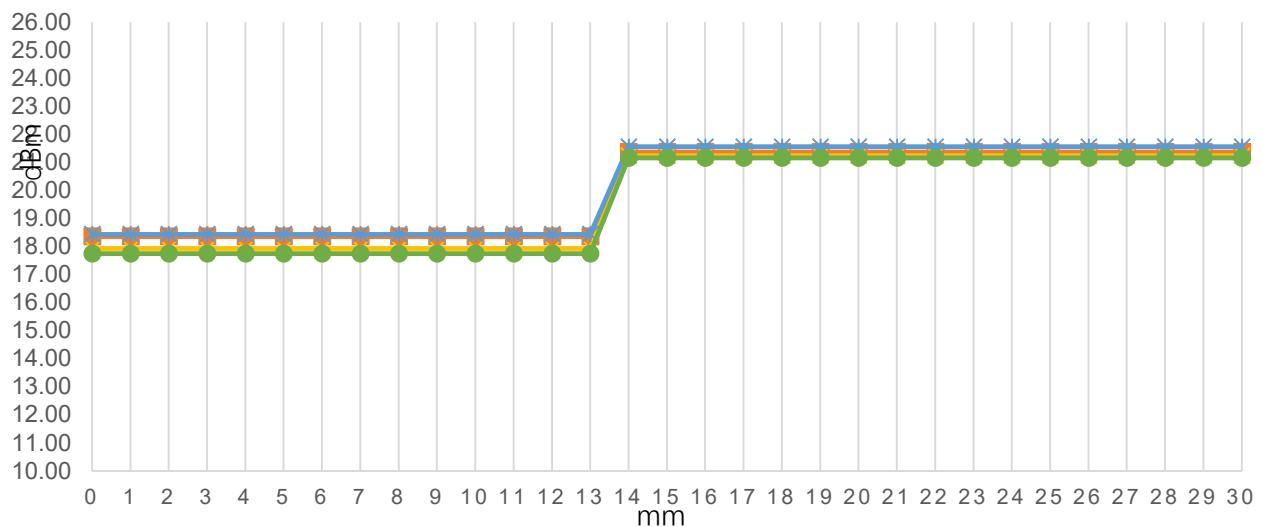
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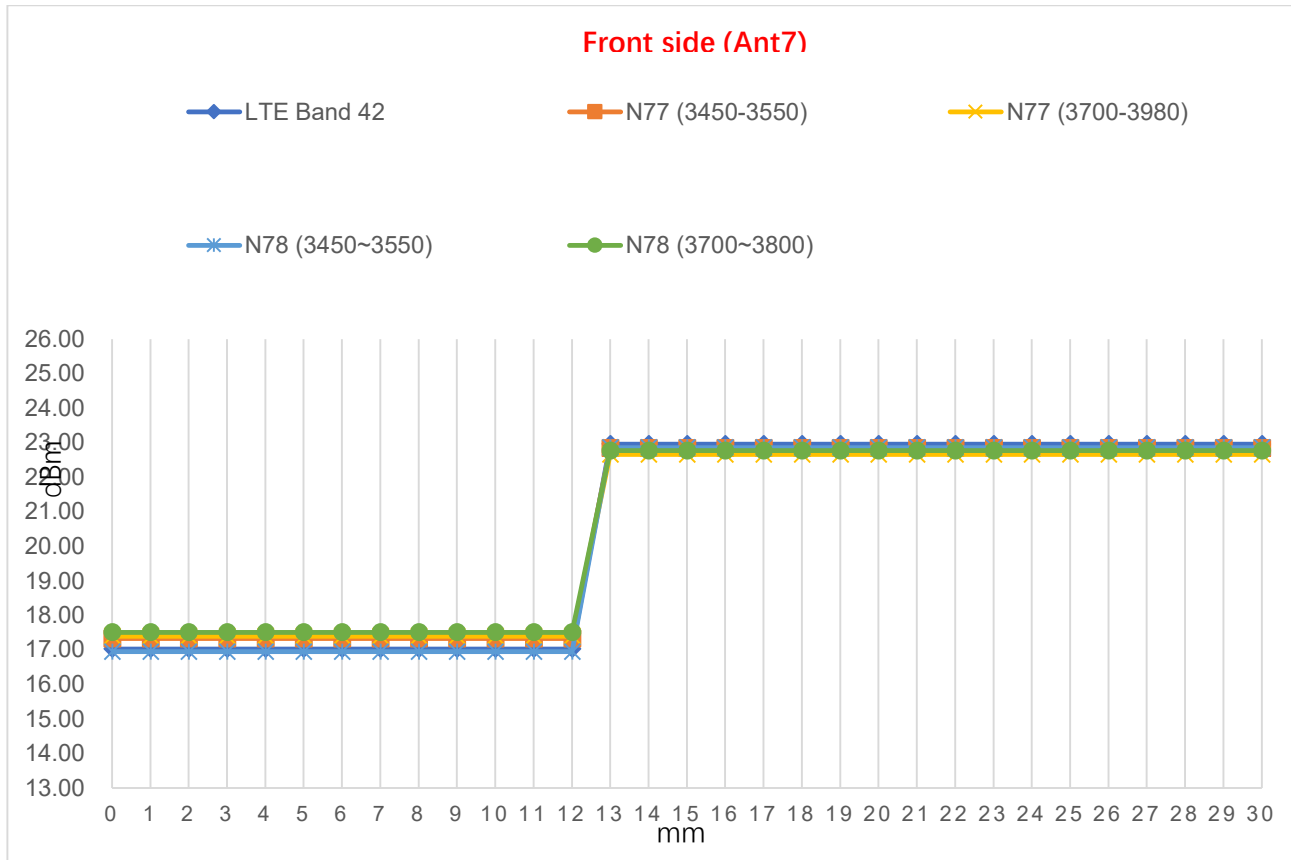


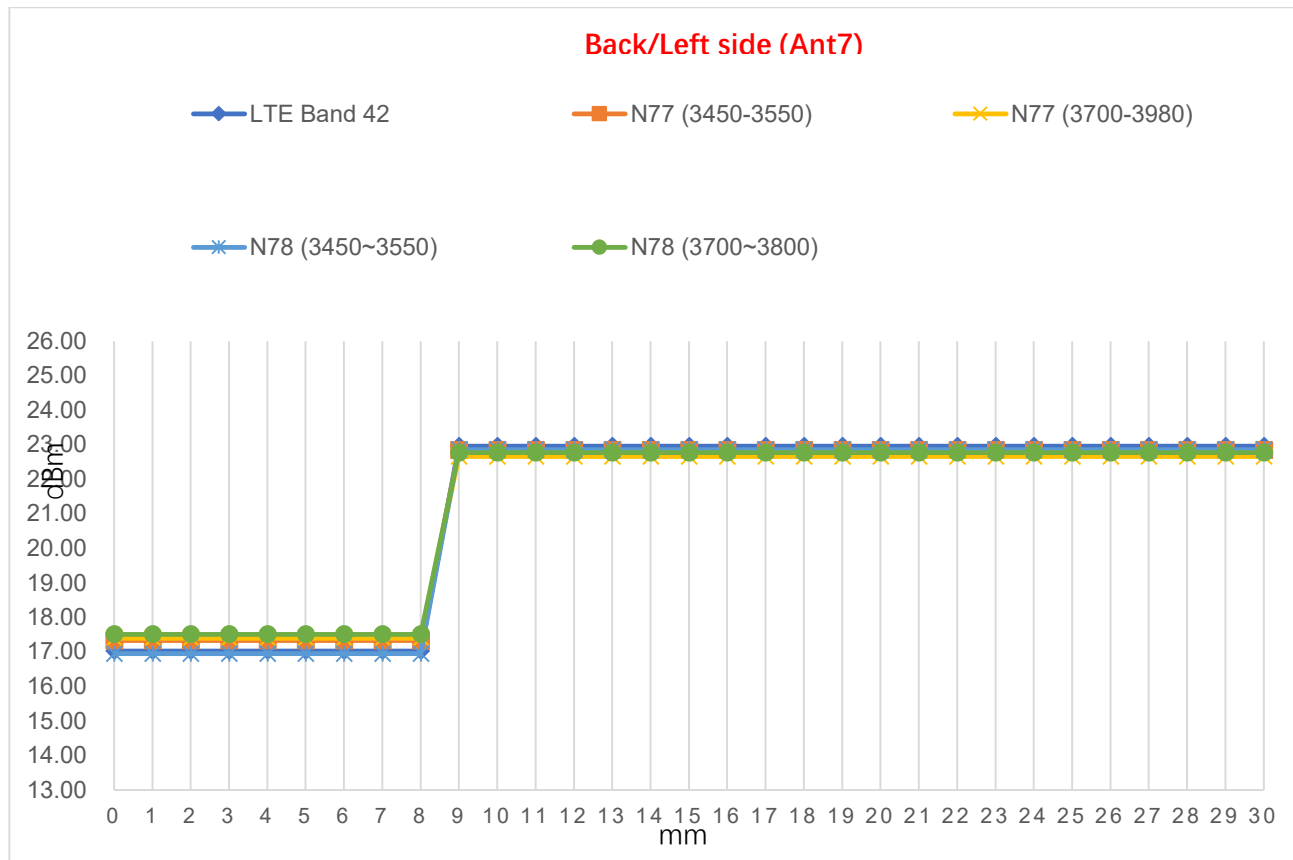
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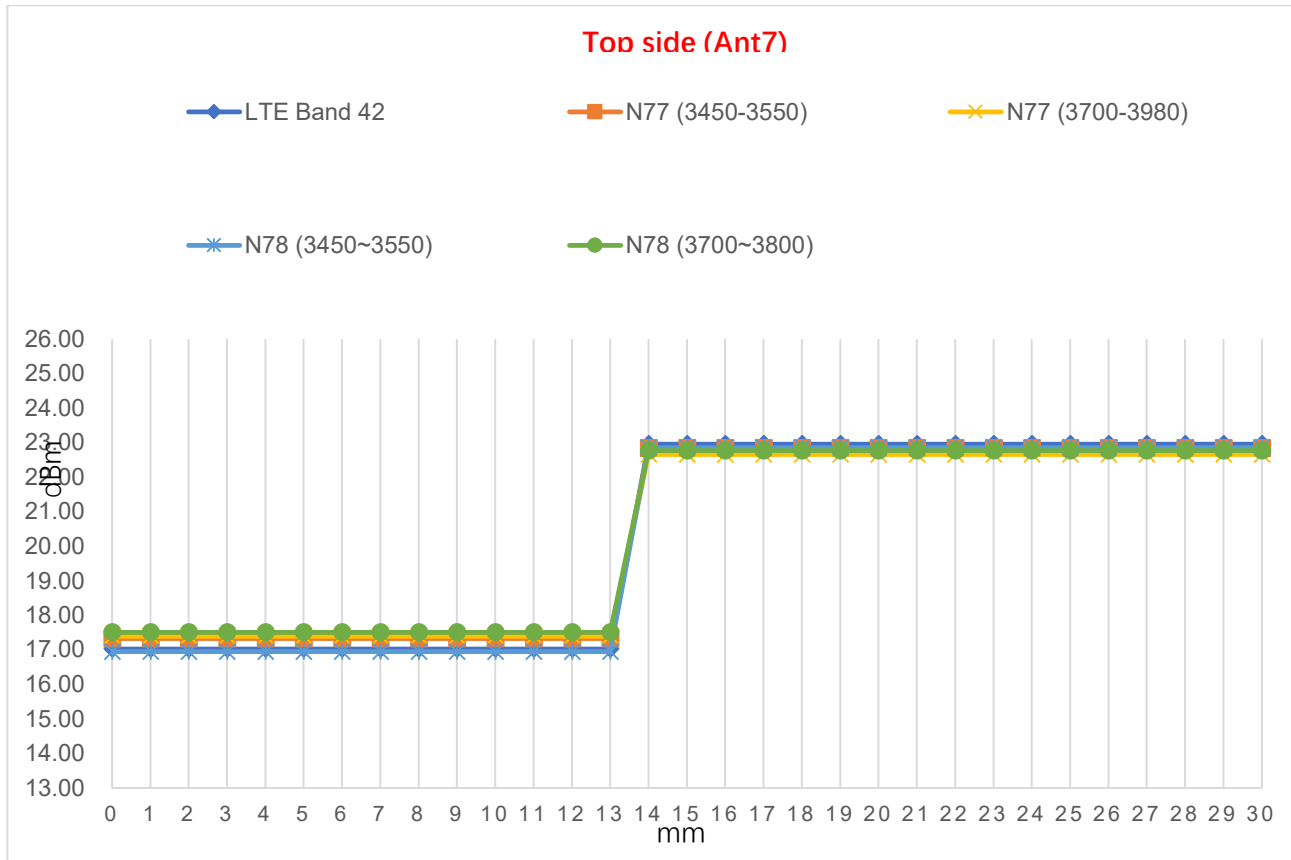


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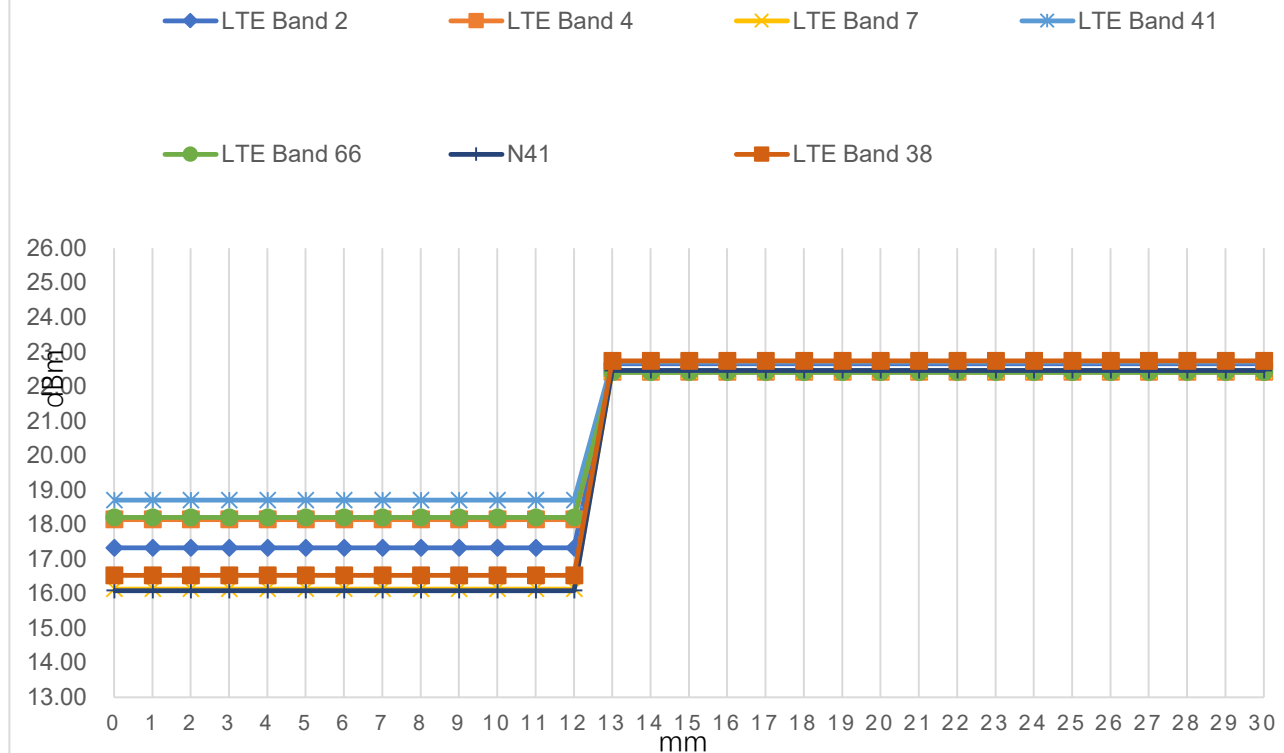


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Front side (Ant9)

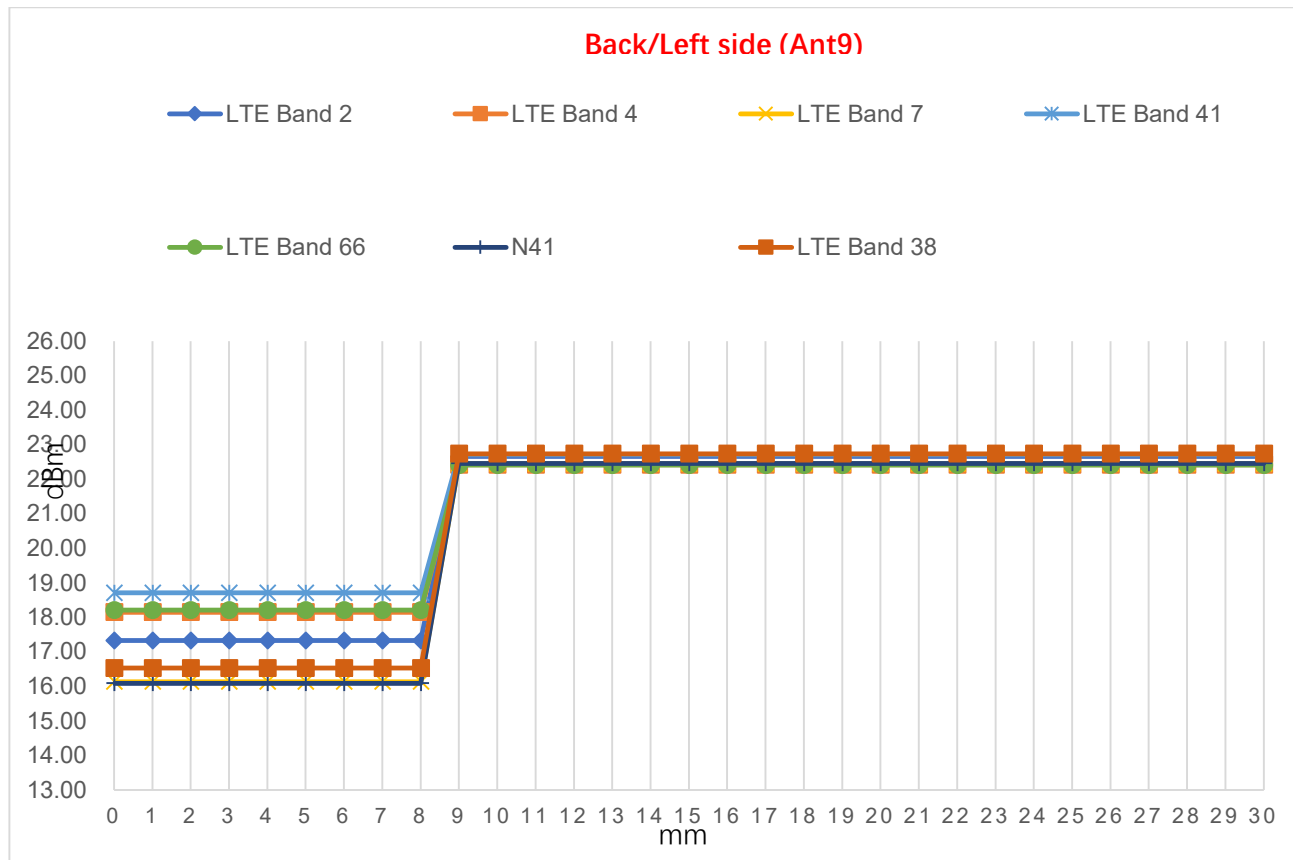


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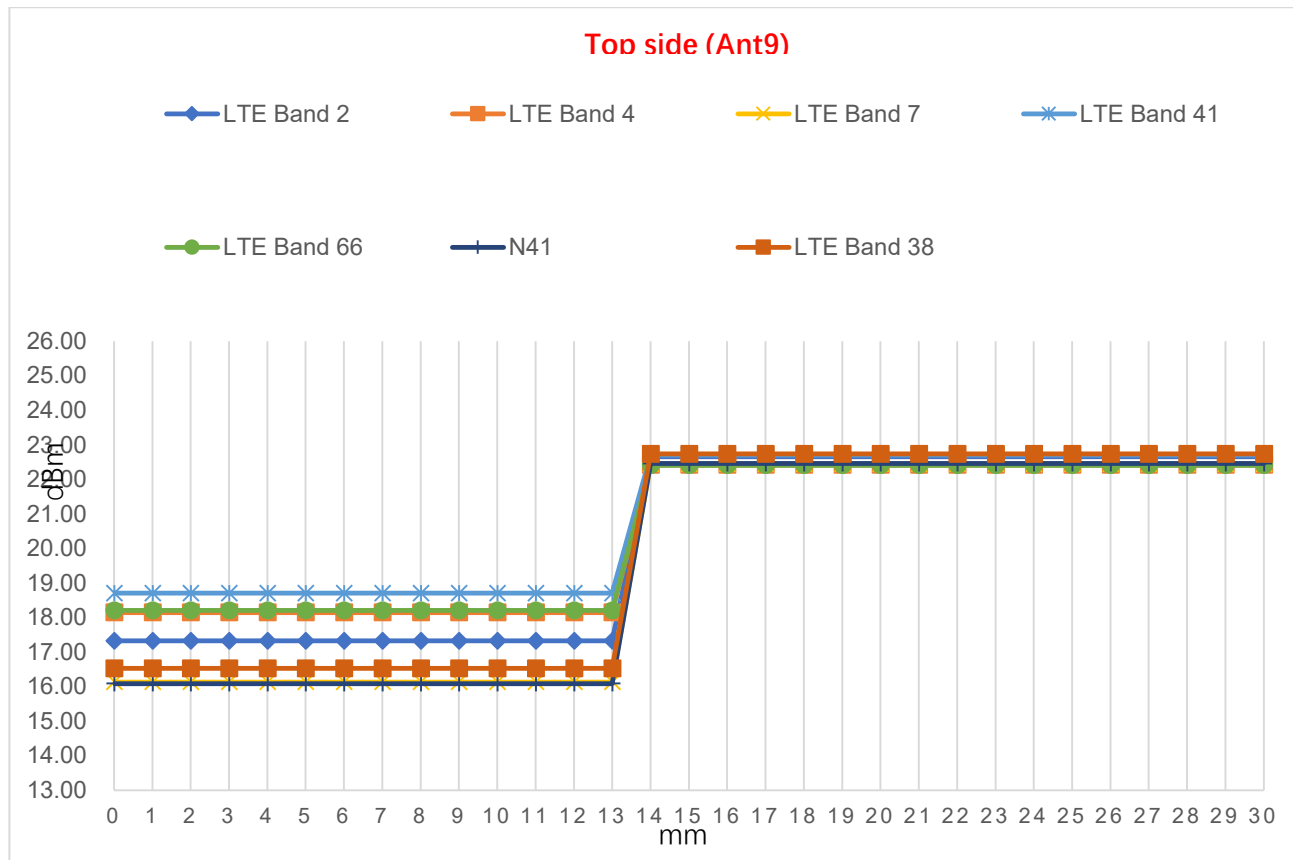


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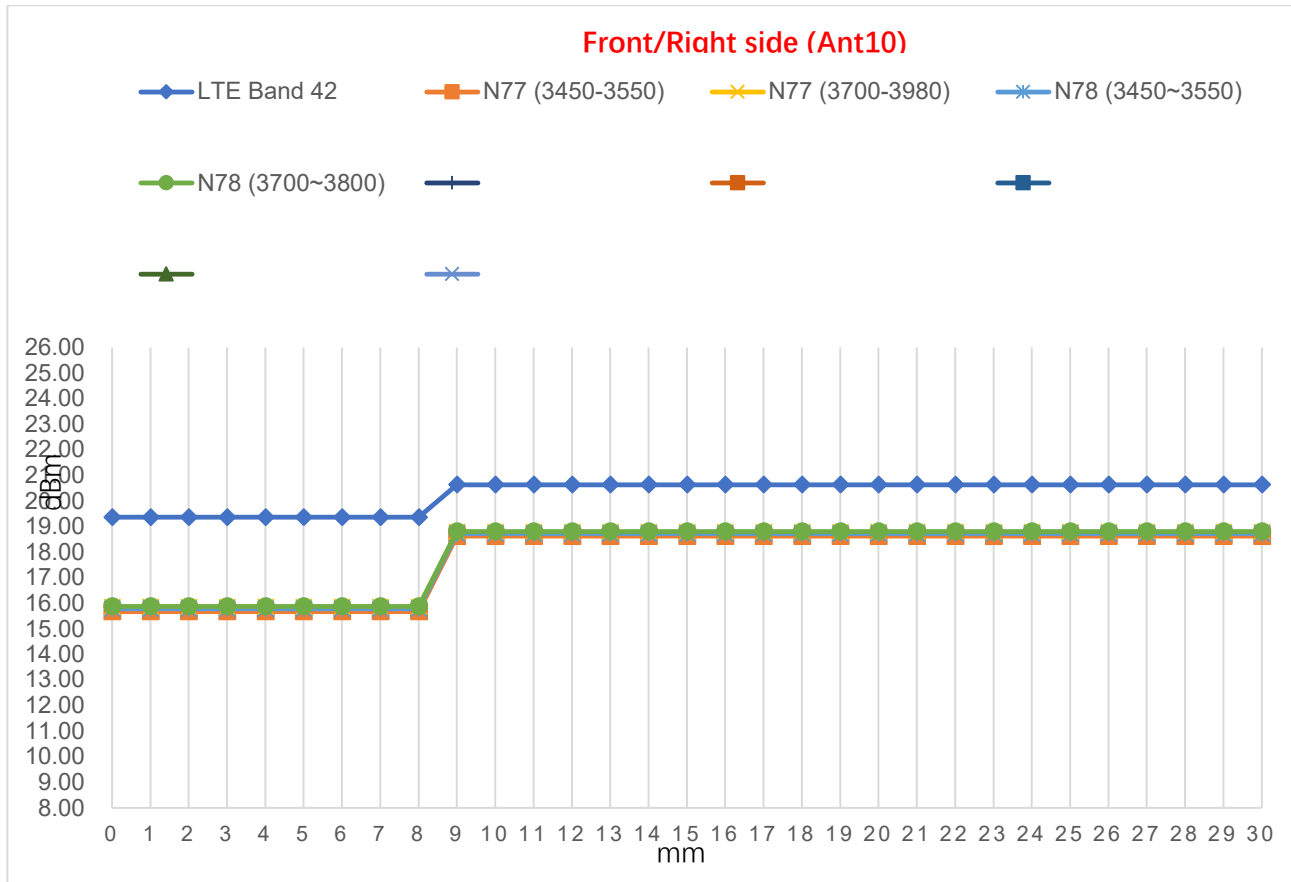


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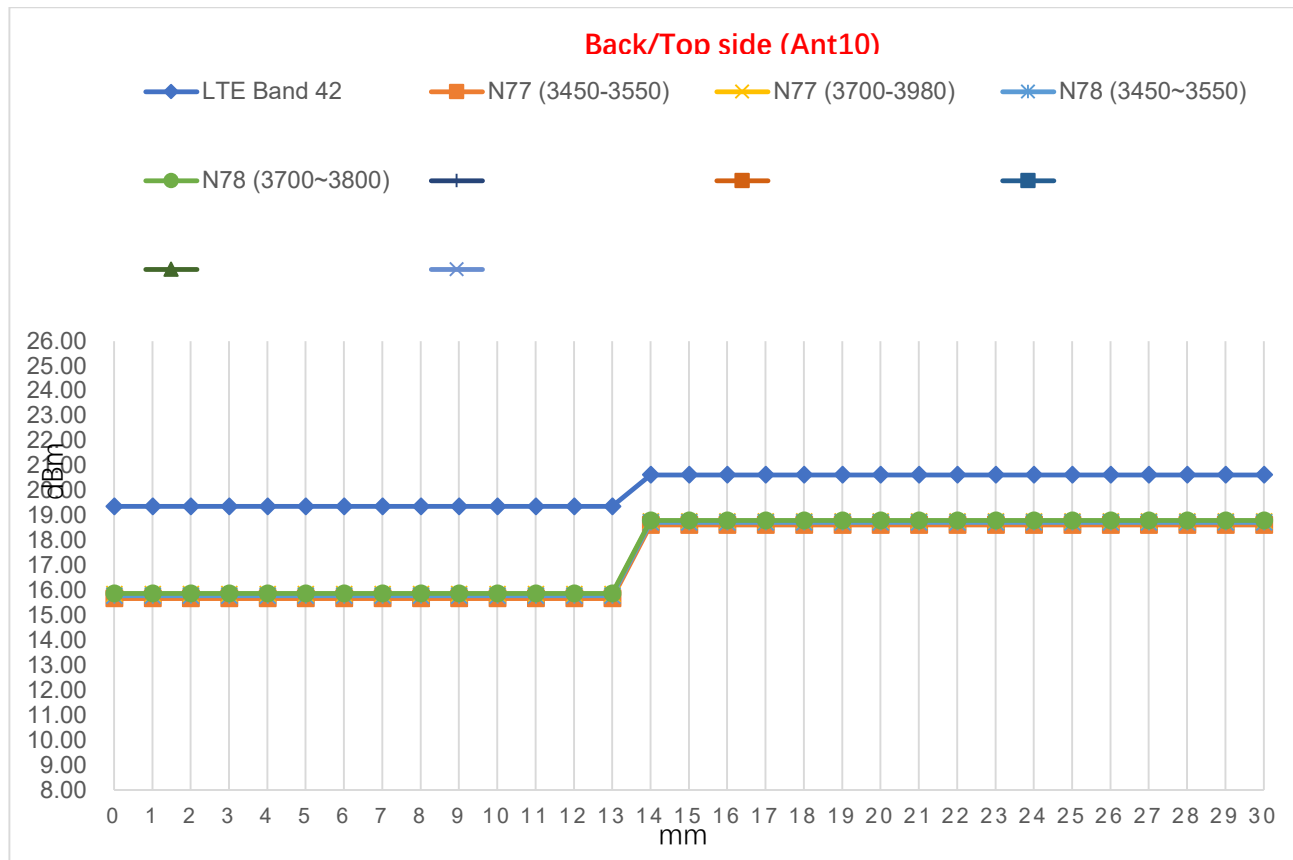


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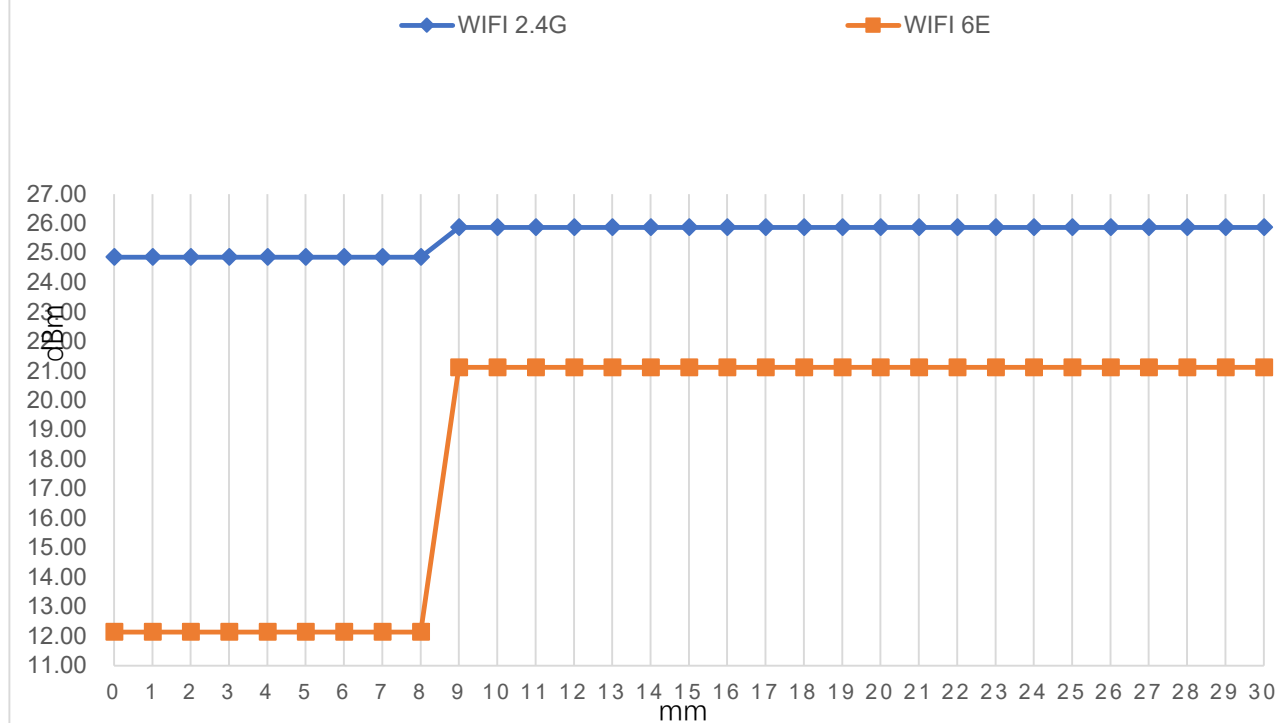
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Front/Riagt side (MIMO)



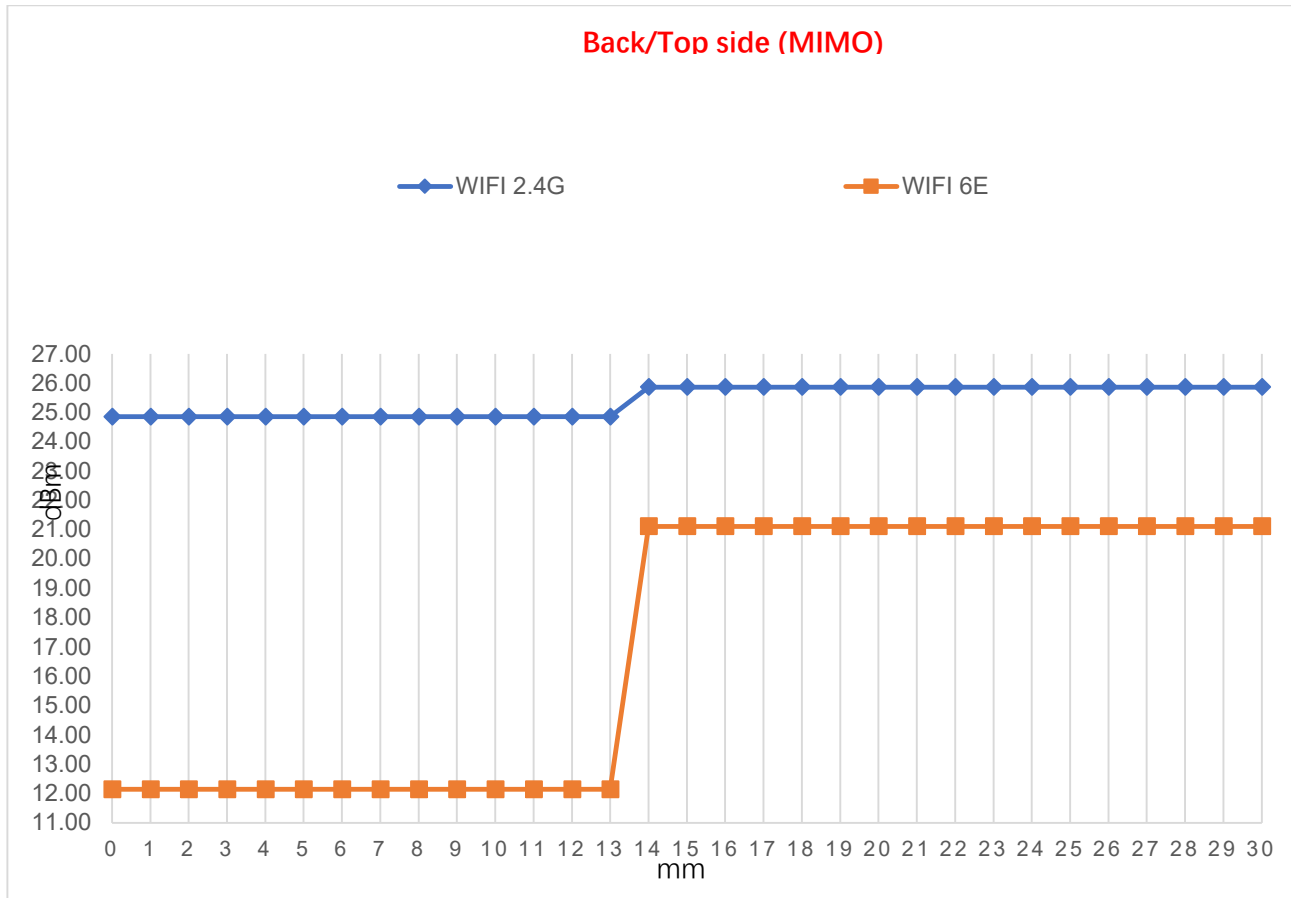
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Back/Top side (MIMO)



Proximity sensor coverage

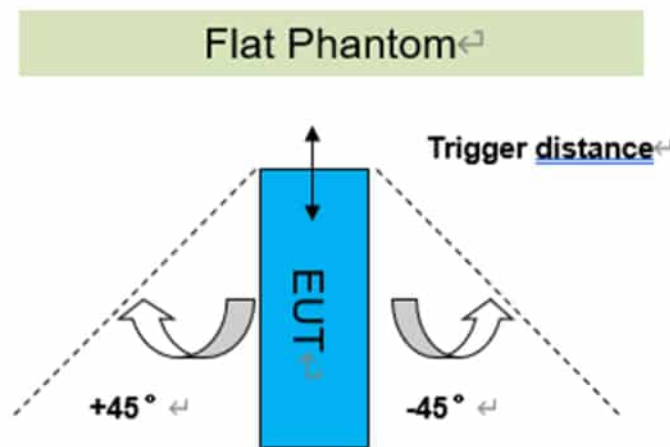
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user, but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

Device tilt angle influences on proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

Rotating the tablet around the edge next to the phantom in $\leq 10^\circ$ increments until the tablet is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.



Summary of Tablet Tilt Angle Influence on Proximity Sensor Triggering for Edge Side

Band (MHz)	Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over ±45°	Power Reduction Status											
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
Ant 0: WCDMA: B2/4 LTE: B2/4/7/26/66 NR: N41	Left Side 10mm	Left Side 10mm	on	on	on	on	on	on	on	on	on	on	on	
Ant 1: GSM: 1900 WCDMA: B2/4 LTE: B2/4/7/38/41/66 NR: N41/66	Top Side 13mm	Top Side 13mm	on	on	on	on	on	on	on	on	on	on	on	
Ant 4: NR: N77/78	Top Side 13mm	Top Side 13mm	on	on	on	on	on	on	on	on	on	on	on	
Ant 7: LTE: B42 NR: N77/78	Top Side 13mm	Top Side 13mm	on	on	on	on	on	on	on	on	on	on	on	
Ant 9: LTE: B2/4/7/38/41/66 NR: /41	Top Side 13mm	Top Side 13mm	on	on	on	on	on	on	on	on	on	on	on	
Ant 10: LTE: B42 NR: N77/78	Top Side 13mm	Top Side 13mm	on	on	on	on	on	on	on	on	on	on	on	
Ant MIMO: 2.4G WIFI WIFI 6E	Top Side 13mm	Top Side 13mm	on	on	on	on	on	on	on	on	on	on	on	

7 SAR System Verificaion Procedure

7.1 Tissue Simulate Liquid

7.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 2 : Recipe of Tissue Simulate Liquid

7.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report.

The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

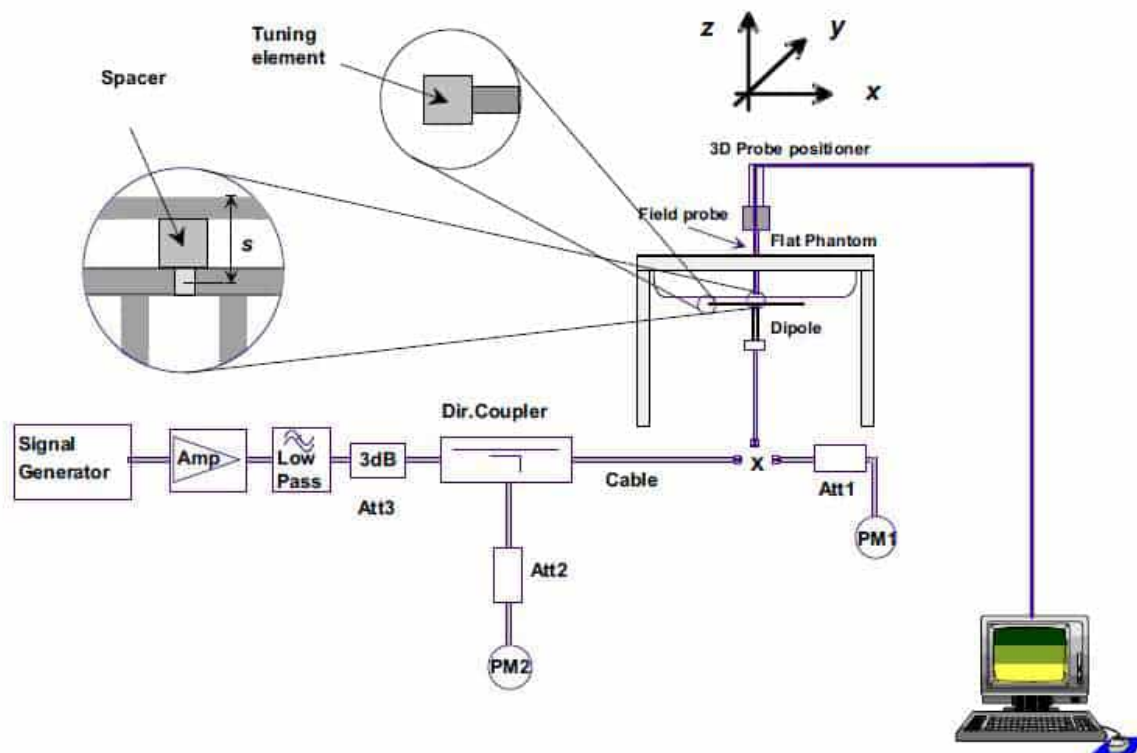
Measurement for Tissue Simulate Liquid									
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
750 Head	750	42.626	0.882	41.90	0.89	1.73%	-0.90%	22.3	2025/2/28
750 Head	750	43.197	0.855	41.90	0.89	3.10%	-3.93%	22.3	2025/3/4
835 Head	835	42.130	0.900	41.50	0.90	1.52%	0.00%	22.6	2025/3/3
835 Head	835	42.232	0.903	41.50	0.90	1.76%	0.33%	22.3	2025/3/5
835 Head	835	42.224	0.904	41.50	0.90	1.74%	0.44%	22.1	2025/3/6
835 Head	835	42.379	0.935	41.50	0.90	2.12%	3.89%	22.5	2025/3/7
1750 Head	1750	39.260	1.343	40.10	1.37	-2.09%	-1.97%	22.3	2025/3/10
1750 Head	1750	39.172	1.336	40.10	1.37	-2.31%	-2.48%	22.2	2025/3/11
1750 Head	1750	39.548	1.372	40.10	1.37	-1.38%	0.15%	22.1	2025/3/12
1750 Head	1750	40.634	1.363	40.10	1.37	1.33%	-0.51%	22.5	2025/3/13
1750 Head	1750	40.542	1.335	40.10	1.37	1.10%	-2.55%	22.6	2025/3/14
1750 Head	1750	40.882	1.355	40.10	1.37	1.95%	-1.09%	22.6	2025/3/18
1750 Head	1750	40.781	1.346	40.10	1.37	1.70%	-1.75%	22.6	2025/3/20
1950 Head	1950	39.831	1.413	40.00	1.40	-0.42%	0.93%	22.2	2025/2/19
1950 Head	1950	40.112	1.408	40.00	1.40	0.28%	0.57%	22.2	2025/2/25
1950 Head	1950	39.729	1.402	40.00	1.40	-0.68%	0.14%	22.6	2025/2/26
1950 Head	1950	40.270	1.407	40.00	1.40	0.68%	0.50%	22.1	2025/3/17
1950 Head	1950	40.160	1.395	40.00	1.40	0.40%	-0.36%	22.3	2025/3/19
1950 Head	1950	40.293	1.394	40.00	1.40	0.73%	-0.43%	22.6	2025/3/21
2450 Head	2450	39.583	1.782	39.20	1.80	0.98%	-1.00%	22.3	2025/2/27
2600 Head	2600	38.296	1.974	39.00	1.96	-1.81%	0.71%	22.5	2025/2/24
2600 Head	2600	38.184	1.962	39.00	1.96	-2.09%	0.10%	22.1	2025/2/28
2600 Head	2600	38.296	1.974	39.00	1.96	-1.81%	0.71%	22.3	2025/3/1
2600 Head	2600	38.398	1.936	39.00	1.96	-1.54%	-1.22%	22.2	2025/3/3
2600 Head	2600	38.062	1.886	39.00	1.96	-2.41%	-3.78%	22.5	2025/3/4
2600 Head	2600	38.072	1.950	39.00	1.96	-2.38%	-0.51%	22.1	2025/3/5
2600 Head	2600	38.299	1.934	39.00	1.96	-1.80%	-1.33%	22.2	2025/3/17
3400 Head	3400	38.071	2.794	38.00	2.81	0.19%	-0.57%	22.1	2025/2/26
3400 Head	3400	37.960	2.782	38.00	2.81	-0.11%	-1.00%	22.2	2025/2/27
3500 Head	3500	37.698	2.903	37.90	2.91	-0.53%	-0.24%	22.1	2025/3/6
3500 Head	3500	37.587	2.891	37.90	2.91	-0.83%	-0.65%	22.2	2025/3/7
3500 Head	3500	38.282	3.002	37.90	2.91	1.01%	3.16%	22.4	2025/3/10
3500 Head	3500	38.417	3.018	37.90	2.91	1.36%	3.71%	22.3	2025/3/19
3700 Head	3700	36.982	3.097	37.70	3.12	-1.90%	-0.74%	22.1	2025/3/8
3700 Head	3700	36.871	3.084	37.70	3.12	-2.20%	-1.15%	22.2	2025/3/9
3900 Head	3900	36.272	3.311	37.50	3.32	-3.27%	-0.27%	22.1	2025/3/12
3900 Head	3900	36.161	3.298	37.50	3.32	-3.57%	-0.66%	22.2	2025/3/13
4100 Head	4100	35.721	3.497	37.20	3.53	-3.98%	-0.93%	22.1	2025/3/14
4100 Head	4100	35.610	3.483	37.20	3.53	-4.27%	-1.33%	22.2	2025/3/15
5250 Head	5250	36.275	4.693	35.90	4.71	1.04%	-0.36%	22.4	2025/3/2
5600 Head	5600	35.407	5.074	35.50	5.07	-0.26%	0.08%	22.4	2025/3/2
5750 Head	5750	35.226	5.266	35.40	5.22	-0.49%	0.88%	22.4	2025/3/2
6500 Head	6500	34.300	6.270	34.50	6.07	-0.58%	3.29%	22.1	2025/2/26

Table 3 : Measurement result of Tissue electric parameters



7.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within $\pm 10\%$ from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range $22\pm 2^\circ\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above $15\pm 0.5\text{ cm}$ in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12.The microwave circuit arrangement used for SAR system Check

7.2.1 Justification for Extended SAR Dipole Calibrations

1) Instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 20% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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7.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D750V3	Head	1.99	1.33	7.96	5.32	8.37	5.53	-4.90%	-3.80%	22.3	2025/2/28
D750V3	Head	1.94	1.30	7.76	5.20	8.37	5.53	-7.29%	-5.97%	22.3	2025/3/4
D835V2	Head	2.44	1.62	9.76	6.48	9.53	6.29	2.41%	3.02%	22.3	2025/3/3
D835V2	Head	2.56	1.69	10.24	6.76	9.53	6.29	7.45%	7.47%	22.6	2025/3/5
D835V2	Head	2.59	1.71	10.36	6.84	9.53	6.29	8.71%	8.74%	22.5	2025/3/6
D835V2	Head	2.53	1.68	10.12	6.72	9.53	6.29	6.19%	6.84%	22.1	2025/3/7
D1750V2	Head	9.45	5.11	37.80	20.44	36.60	19.30	3.28%	5.91%	22.3	2025/3/10
D1750V2	Head	9.22	4.97	36.88	19.88	36.60	19.30	0.77%	3.01%	22.2	2025/3/11
D1750V2	Head	9.32	5.04	37.28	20.16	36.60	19.30	1.86%	4.46%	22.1	2025/3/12
D1750V2	Head	8.98	4.90	35.92	19.60	36.60	19.30	-1.86%	1.55%	22.5	2025/3/13
D1750V2	Head	9.21	5.03	36.84	20.12	36.60	19.30	0.66%	4.25%	22.6	2025/3/14
D1750V2	Head	8.98	4.90	35.92	19.60	36.60	19.30	-1.86%	1.55%	22.6	2025/3/18
D1750V2	Head	9.09	4.97	36.36	19.88	36.60	19.30	-0.66%	3.01%	22.6	2025/3/20
D1950V3	Head	9.39	4.92	37.56	19.68	40.50	20.80	-7.26%	-5.38%	22.2	2025/2/19
D1950V3	Head	9.50	5.11	38.00	20.44	40.50	20.80	-6.17%	-1.73%	22.2	2025/2/25
D1950V3	Head	10.50	5.49	42.00	21.96	40.50	20.80	3.70%	5.58%	22.6	2025/2/26
D1950V3	Head	10.20	5.36	40.80	21.44	40.50	20.80	0.74%	3.08%	22.1	2025/3/17
D1950V3	Head	10.00	5.30	40.00	21.20	40.50	20.80	-1.23%	1.92%	22.3	2025/3/19
D1950V3	Head	10.10	5.31	40.40	21.24	40.50	20.80	-0.25%	2.12%	22.6	2025/3/21
D2600V2	Head	14.20	6.47	56.80	25.88	57.70	25.80	-1.56%	0.31%	22.5	2025/2/24
D2450V2	Head	13.80	6.50	55.20	26.00	52.20	24.30	5.75%	7.00%	22.3	2025/2/27
D2600V2	Head	14.20	6.47	56.80	25.88	57.70	25.80	-1.56%	0.31%	22.1	2025/2/28
D2600V2	Head	14.80	6.75	59.20	27.00	57.70	25.80	2.60%	4.65%	22.3	2025/3/1
D2600V2	Head	14.20	6.51	56.80	26.04	57.70	25.80	-1.56%	0.93%	22.2	2025/3/3
D2600V2	Head	13.90	6.38	55.60	25.52	57.70	25.80	-3.64%	-1.09%	22.5	2025/3/4
D2600V2	Head	13.60	6.19	54.40	24.76	57.70	25.80	-5.72%	-4.03%	22.1	2025/3/5
D2600V2	Head	15.10	6.92	60.40	27.68	57.70	25.80	4.68%	7.29%	22.2	2025/3/17
Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D3500V2	Head(3.4GHz)	7.05	2.77	70.50	27.70	66.50	26.10	6.02%	6.13%	22.1	2025/2/26
	Head(3.4GHz)	7.06	2.75	70.60	27.50	66.50	26.10	6.17%	5.36%	22.2	2025/2/27
	Head(3.5GHz)	6.91	2.65	69.10	26.50	65.80	25.70	5.02%	3.11%	22.1	2025/3/6
	Head(3.5GHz)	6.39	2.46	63.90	24.60	65.80	25.70	-2.89%	-4.28%	22.2	2025/3/7
	Head(3.5GHz)	6.80	2.63	68.00	26.30	65.80	25.70	3.34%	2.33%	22.4	2025/3/10
D3700V2	Head(3.5GHz)	7.01	2.72	70.10	27.20	65.80	25.70	6.53%	5.84%	22.3	2025/3/19
	Head(3.7GHz)	6.74	2.55	67.40	25.50	66.10	24.70	1.97%	3.24%	22.1	2025/3/8
D3700V2	Head(3.7GHz)	5.97	2.31	59.70	23.10	66.10	24.70	-9.68%	-6.48%	22.2	2025/3/9
	Head(3.9GHz)	6.67	2.38	66.70	23.80	66.70	23.80	0.00%	0.00%	22.1	2025/3/12
D3900V2	Head(3.9GHz)	6.32	2.23	63.20	22.30	66.70	23.80	-5.25%	-6.30%	22.2	2025/3/13
	Head(4.1GHz)	6.96	2.44	69.60	24.40	68.10	24.00	2.20%	1.67%	22.1	2025/3/14
	Head(4.1GHz)	6.54	2.30	65.40	23.00	68.10	24.00	-3.96%	-4.17%	22.2	2025/3/15
D5GHzV2	Head(5.25GHz)	8.09	2.34	80.90	23.40	77.30	22.10	4.66%	5.88%	22.4	2025/3/2
	Head(5.6GHz)	8.05	2.28	80.50	22.80	81.30	23.10	-0.98%	-1.30%	22.4	2025/3/2
	Head(5.75GHz)	7.61	2.19	76.10	21.90	77.10	21.30	-1.30%	2.82%	22.4	2025/3/2
D6500V2	Head(6.5GHz)	30.50	5.84	305.00	58.40	291.00	53.90	4.81%	8.35%	22.1	2025/2/26

Table 4 : SAR System Check Result



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7.2.3 Detailed System Check Results

Please see the Appendix A



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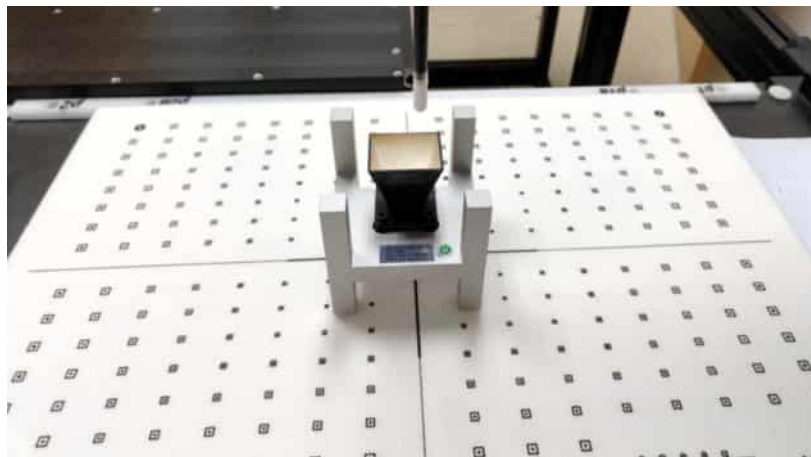
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8 PD System Check

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Frequency	Measured PD W/m ²	Target PD W/m ²	Circular Deviation (Within ± 0.66 dB)	Test Date
	4cm ²	4cm ²	4cm ²	
10G HZ Source	183.00	174	0.22	2025/2/26

Note: 1. Measured PD after normalized to Pard power with DASY Calibration Certificate in Appendix A.



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9 Test Configuration

9.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as “otherwise” in the applicable procedures; SAR measurement is required for the secondary mode.

9.2 Operation Configurations

9.2.1 GSM Test Configuration

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

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power, the higher number time-slot configuration should be tested.

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

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

9.2.2 WCDMA Test Configuration

1) . Output Power Verification

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



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2) . Head SAR

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

3) . Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) . HSDPA / HSUPA

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.5 W/kg, SAR measurement is not required for HSDPA / HSUPA.

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

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

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8$ Ahs = $\beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 8$ (Ahs=30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 7$ (Ahs=24/15) with $\beta_{hs} = 24/15 * \beta_c$.

Note3: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.



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

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

Table 5 : settings of required H-Set 1 QPSK acc. to 3GPP 34.121

HS-DSCH Category	MaximumHS-DSCH Codes Received	Minimum Inter-TTI Interval	MaximumHS-DSCH TransportBlockBits/HS-DSCH TTI	TotalSoft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 6 : HSDPA UE category

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the WCDMA Handset and Release 5 HSUPA Data Device sections of 3G device.



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Sub-test ^a	β_c ^a	β_d ^a	β_d (SF) ^a	β_c/β_d ^a	$\beta_{hs}(1)$ ^a	β_{hs} ^a	β_{ad} ^a	β_c (SF) ^a	β_{ad} (code) ^a	CM ⁽²⁾ (dB) ^a	MP R ^a (dB) ^a	AG ⁽⁴⁾ Index ^a	E-TFC I ^a
1 ^a	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ^a	11/15 ⁽³⁾	22/15 ^a	209/225 ^a	1039/225 ^a	4 ^a	1 ^a	1.0 ^a	0.0 ^a	20 ^a	75 ^a
2 ^a	6/15 ^a	15/15 ^a	64 ^a	6/15 ^a	12/15 ^a	12/15 ^a	94/75 ^a	4 ^a	1 ^a	3.0 ^a	2.0 ^a	12 ^a	67 ^a
3 ^a	15/15 ^a	9/15 ^a	64 ^a	15/9 ^a	30/15 ^a	30/15 ^a	$\beta_{ad1}:47/15a$ $\beta_{ad2}:47/15a$	4 ^a	2 ^a	2.0 ^a	1.0 ^a	15 ^a	92 ^a
4 ^a	2/15 ^a	15/15 ^a	64 ^a	2/15 ^a	4/15 ^a	2/15 ^a	56/75 ^a	4 ^a	1 ^a	3.0 ^a	2.0 ^a	17 ^a	71 ^a
5 ^a	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ^a	15/15 ⁽⁴⁾	30/15 ^a	24/15 ^a	134/15 ^a	4 ^a	1 ^a	1.0 ^a	0.0 ^a	21 ^a	81 ^a

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

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference^a

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ ^a

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$ ^a

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g^a

Note 6: β_{ad} can not be set directly; it is set by Absolute Grant Value.^a

Table 7: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF	11484	5.76
	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF	22996	?
	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).

Table 8: HSUPA UE category

c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required



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to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0.

A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 9 : settings of required H-Set 12 QPSK acc. To 3GPP 34.121

Note:

1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
2. Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.



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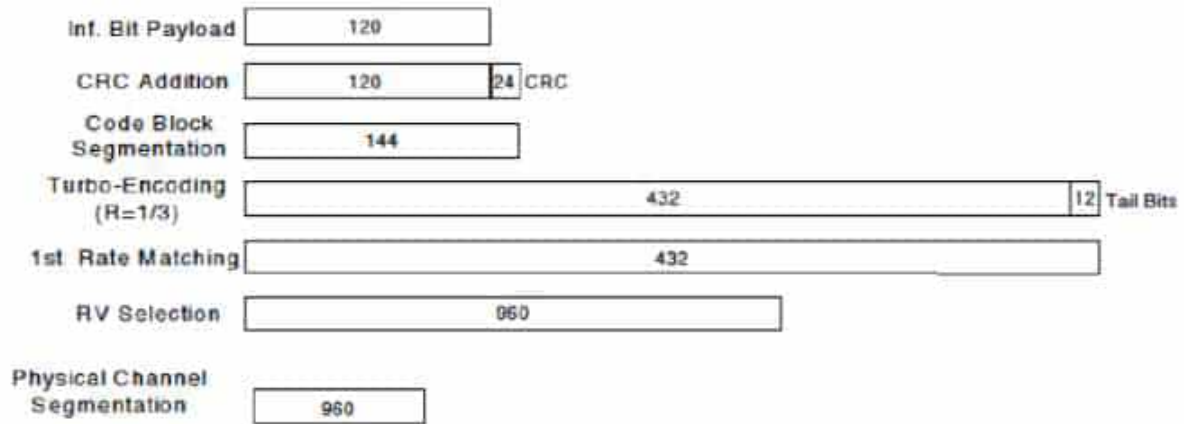


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

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

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

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

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

Up commands are set continuously to set the UE to Max power.

Note:

1. The Dual Carriers transmission only applies to HSDPA physical channels
2. The Dual Carriers belong to the same Node and are on adjacent carriers.
3. The Dual Carriers do not support MIMO to serve Ues configured for dual cell operation
4. The Dual Carriers operate in the same frequency band.
5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
6. The device doesn't support carrier aggregation for it just can operate in Release 8.

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d) HSPA+

SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	$\beta_{\text{C}}^{\text{+}}$ (Note 3)	$\beta_{\text{d}}^{\text{+}}$	$\beta_{\text{HS}}^{\text{+}}$ (Note 1)	$\beta_{\text{EC}}^{\text{+}}$	$\beta_{\text{ed}}^{\text{+}}$ (2xSF2) (Note 4)	$\beta_{\text{ed}}^{\text{+}}$ (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{\text{ed1}}^{\text{+}}$: 30/15 $\beta_{\text{ed2}}^{\text{+}}$: 30/15	$\beta_{\text{ed3}}^{\text{+}}$: 24/15 $\beta_{\text{ed4}}^{\text{+}}$: 24/15	3.5	2.5	14	105	105
Note 1: $\Delta_{\text{ACK}}, \Delta_{\text{NACK}}$ and $\Delta_{\text{CQI}} = 30/15$ with $\beta_{\text{HS}} = 30/15 * \beta_{\text{C}}^{\text{+}}$ Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: DPDCH is not configured, therefore the $\beta_{\text{C}}^{\text{+}}$ is set to 1 and $\beta_{\text{d}}^{\text{+}} = 0$ by default. Note 4: $\beta_{\text{ed}}^{\text{+}}$ can not be set directly; it is set by Absolute Grant Value. Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.											



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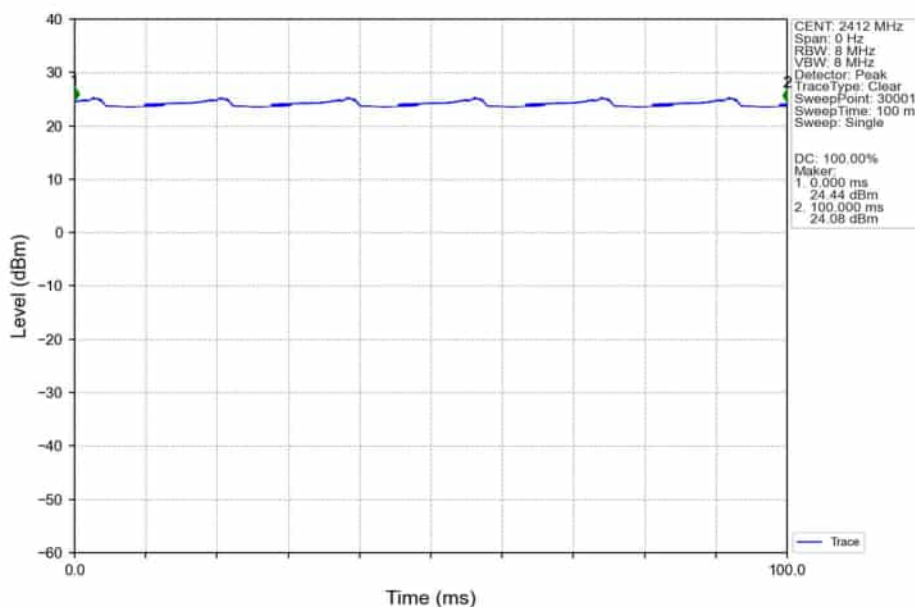
9.2.3 WIFI Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

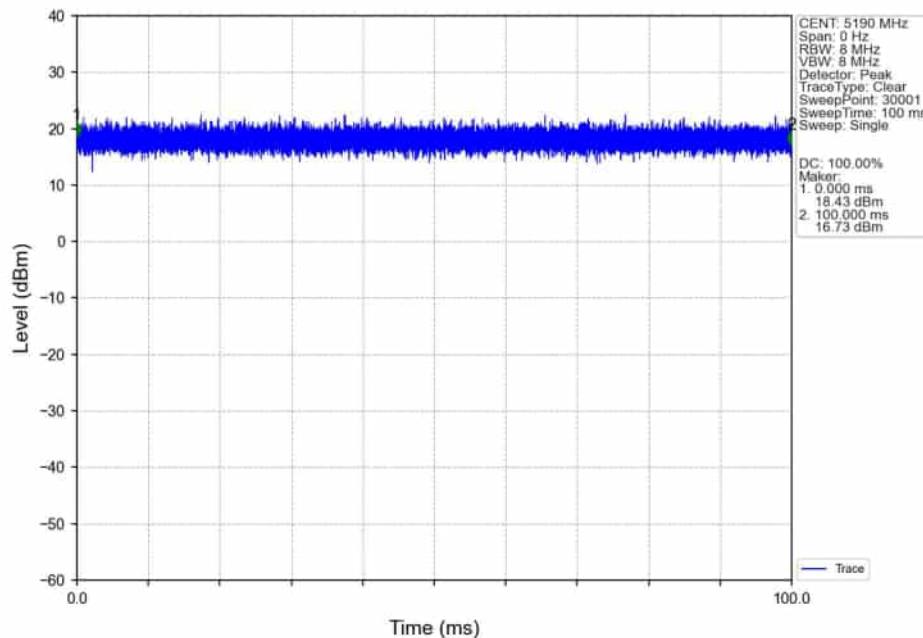
9.2.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:

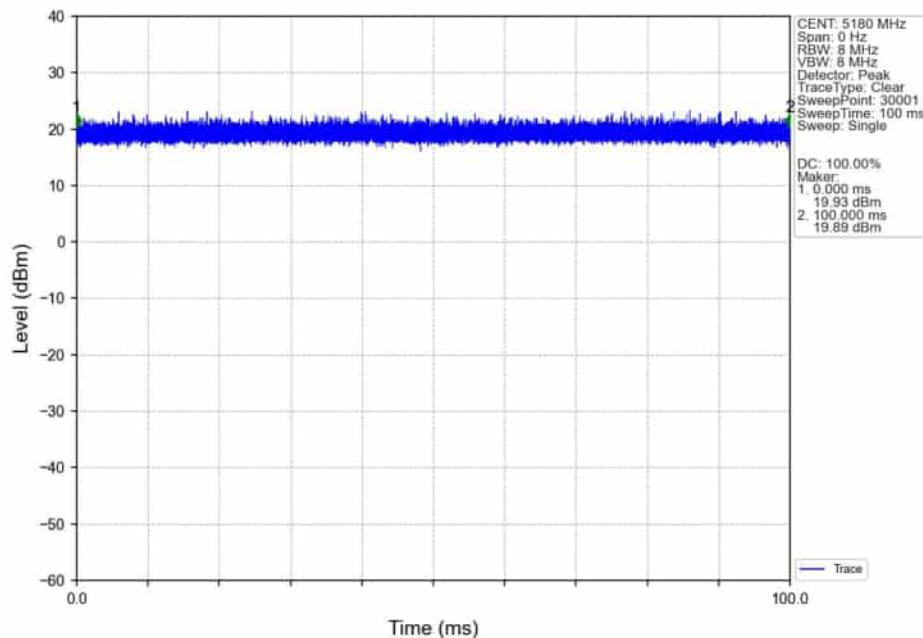
Duty cycle=100.00%



2) Wi-Fi 5GHz 802.11n40: Duty cycle=100.00%



3) Wi-Fi 5GHz 802.11a: Duty cycle=100.00%

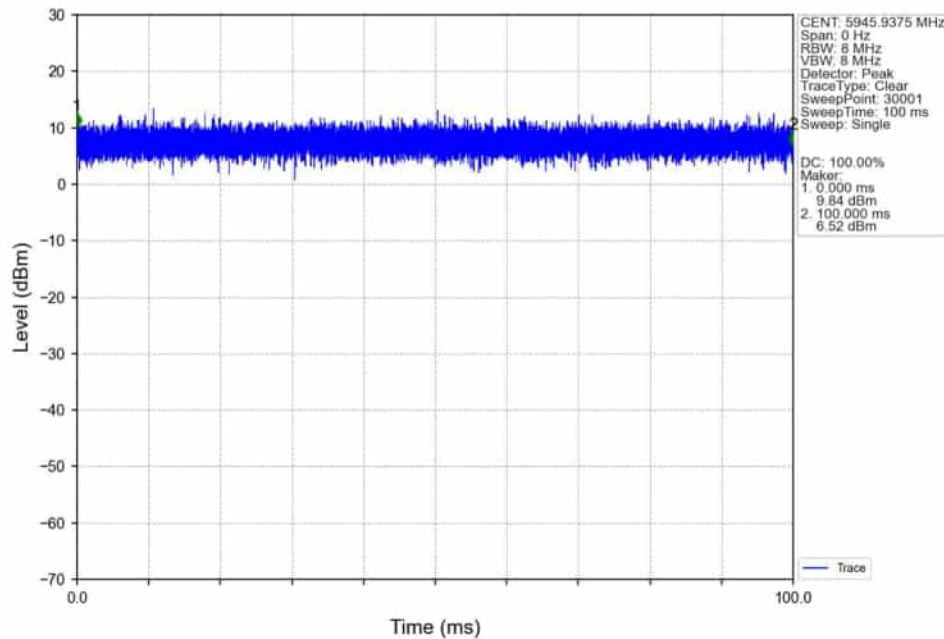


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3) Wi-Fi 6E : Duty cycle=100.00%



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9.2.3.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.



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9.2.3.3 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"



9.2.3.4 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

• 802.11b DSSS SAR Test Requirements

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

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

• 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

• SAR Test Requirements for OFDM configurations

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

9.2.3.5 5 GHz WiFi SAR Procedures

• U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

• U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.



OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

• SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



9.2.3.6 5 GHz WiFi PD Procedures

Power Density General Notes:

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements.
3. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
4. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
6. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.67 dB (84.9%) was used to determine the psPD measurement scaling factor.
7. Per April 2021 TCB Workshop, For the highest SAR test configurations also measure incident PD (total) using power-density reconstruction method in 2 mm closest measurement plane.
8. Since this device is considered a phablet and there is no different PD limit on different exposure conditions, therefore select highest phablet SAR at 0 mm test distance and configurations evaluate power density. Since there is no different PD limit on different exposure conditions, therefore the PD test was performed of a 2mm separation between Probe sensor and EUT surface to cover all exposure conditions of phablet.
9. IPD is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.
10. Per October 2020 TCB Workshop, PTP-PR algorithm was used during psPD measurement and calculations.
11. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

Wi-Fi 6E PD Test Record MIMO										
Test position	Test mode	Test ch./Freq.	Distance (mm)	Grid Step (λ)	Duty Cycle	Duty Cycle Scaled factor	iPD _n	iPD ratio	Measured PD 4cm ² (W/m ²)	Power drift (dB)
Power Density Test DATA										
Top side	802.11ax 160M	79/6345	9.5	0.0625	100.00%	1	10.60	-0.92	0.71	0.06
Top side	802.11ax 160M	79/6345	2	0.0625	100.00%	1	13.10		3.43	0.13



9.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Radio Communication Analyzer was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

TDD LTE test consideration

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

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 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.

Frame structure type 2:

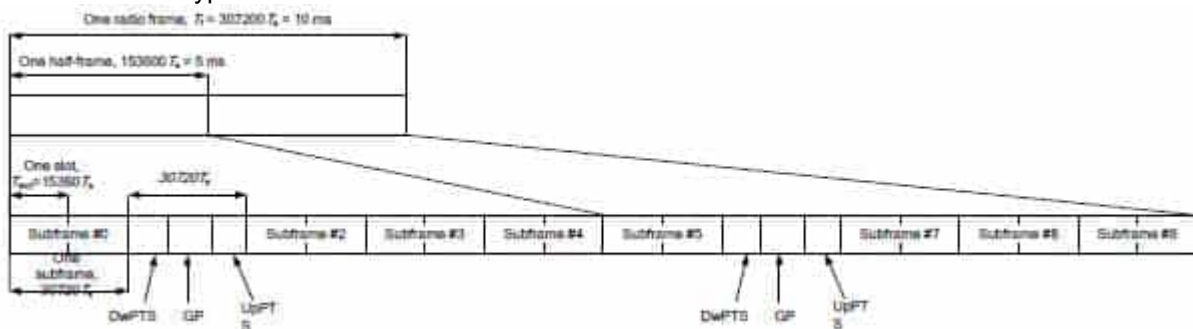


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts		
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts	4384.Ts	5120.Ts

6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-	-	-
9	13168.Ts			-	-	-

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=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

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

A) Spectrum Plots for RB Configurations

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

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.



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Modulation	Channel bandwidth/Transmission bandwidth						MPR (dB)
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM	≥ 1						5

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

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



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F) LTE CA additional specification

The device supports intra-band contiguous and inter-band discontinuous uplink and downlink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

- Intra-band carrier aggregation requirements for uplink.
- Intra-band and inter-band carrier aggregation requirements for downlink.

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Appendix E (Conducted RF Output Power). The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

Downlink LTE CA
CA_41A-42A
CA_41C
CA_42C
CA_66A-66A
CA_66B
CA_66C
CA_41A-42C
CA_41C-42A
CA_42D
CA_41C-42C
CA_42E
Uplink LTE CA
CA_41C
CA_42C

SAR test procedure for intra-band contiguous UL LTE CA is as below:

1)Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

2)SAR for UL CA is required in each exposure condition and frequency band combination

3)For this device , as the maximum output for Intra-band uplink LTE CA is $\leq$ standalone LTE mode (without CA),



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- PCC is configured according to the highest standalone SAR configuration tested.
 - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- 4)When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)
- 5)UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.
- 6)General PCC and SCC configuration selection procedure
- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in appendix E. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
 - To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.



DL CA Power Measurement Setup

9.2.5 NR Band Test Configuration

1. NR Band n5/41/66/77/78 support SA mode , NR Band n5/66/77/78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		LTE Band 13		LTE Band 41				LTE Band 66			
		Ant0	Ant1	Ant2	Ant1	Ant9	Ant0	Ant2	Ant1	Ant9	Ant0
n66	Ant2	√	√								
	Ant1	√									
n77	Ant7			√	√	√	√				
	Ant4			√	√	√	√				
	Ant8			√	√	√	√				
	Ant10			√	√	√	√				
n78	Ant7			√	√	√	√				
	Ant4			√	√	√	√				
	Ant8			√	√	√	√				
	Ant10			√	√	√	√				
n5	Ant0							√	√	√	
	Ant1							√		√	√

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

Band			n5	n41	n66	n77	n78
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes
	Max Duty Cycle		100%	100%	100%	100%	100%

Band	SCS	Bandwidth														
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	35MHz	40MHz	45MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n5	15 kHz	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n41	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n66	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
n78	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes



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3. 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 ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 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/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ 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 ≤ 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 ½ 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 ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device



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4. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1.

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/ receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:

1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)

a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.

b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be $\leq$ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

7. For EN-DC mode, MTK Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed regulatory limit.



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9.2.6 Duty Cycle technology is applied to NR TDD and LTE TDD frequency band

Duty Cycle technology is applied to NR TDD and LTE TDD frequency band, and the conducted power under specific Duty Cycle is compensated according to the case of different Duty Cycle stages.

In this report for LTE TDD band config1 to 6 mode average power is not more than Config 0 mode average power of 0.25dB and above, and the 1-g reported SAR is ≤ 1.2 W/kg or 10-g reported SAR is ≤ 3.0 W/kg, only the SAR of Config 0 mode will be tested.

In this report for NR TDD band the max tune-up power under each duty cycle is uniformly converted into the signaling average power under 100% duty cycle. The signaling average power is not more than 100% Duty Cycle FTM mode power of 0.25dB and above, and the 1-g reported SAR is ≤ 1.2 W/kg or 10-g reported SAR is ≤ 3.0 W/kg, only the SAR of 100% Duty Cycle FTM mode will be tested.



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10 Test Result

10.1 Measurement of RF Conducted Power

The detailed conducted power can be referred to Appendix E.

Note:

- 1) . For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8.

- 3) . When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than $\frac{1}{4}$ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power



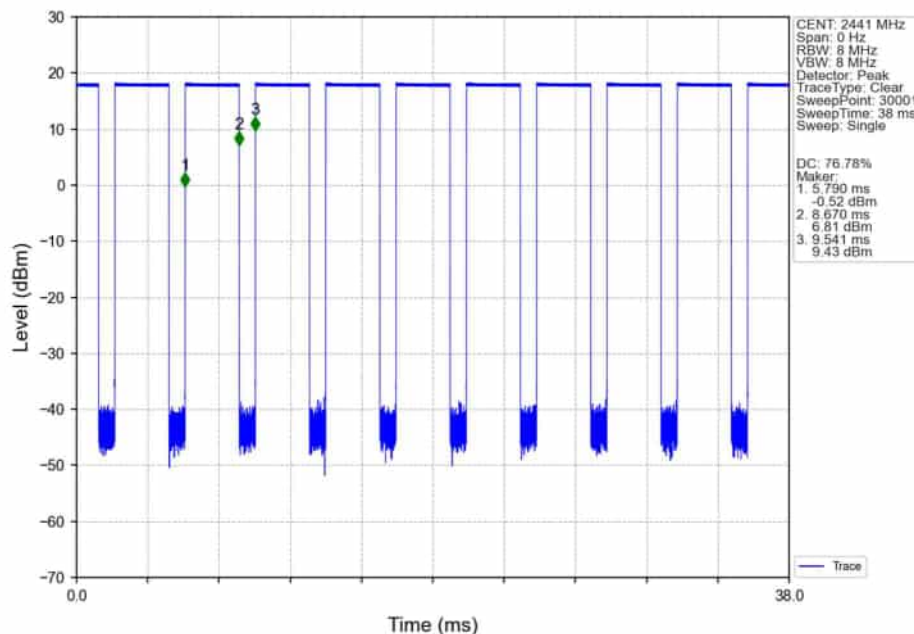
measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

9) . The conducted power of BT is measured with RMS detector.

BT DH5 Duty Cycle=76.78%



10.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB 447498 D04, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) The simultaneous transmission is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are scaled based on standalone SAR results.



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10.2.1 SAR Result of GSM850

GSM850 SAR Test Record											
Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.180	0.128	0.07	25.98	27.00	1.265	0.228	22.1
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.126	0.092	0.01	25.98	27.00	1.265	0.159	22.1
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.082	0.059	0.14	25.98	27.00	1.265	0.104	22.1
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.048	0.035	-0.14	25.98	27.00	1.265	0.061	22.1
Body worn Test data(Separate 5mm) ECI 3											
Front side	GPRS 4TS	190/836.6	1:2.075	0.265	0.154	-0.17	25.98	27.00	1.265	0.335	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.626	0.346	-0.03	25.98	27.00	1.265	0.792	22.1
Hotspot Test data(Separate 5mm) ECI 7											
Front side	GPRS 4TS	190/836.6	1:2.075	0.265	0.154	-0.17	25.98	27.00	1.265	0.335	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.626	0.346	-0.03	25.98	27.00	1.265	0.792	22.1
Left side	GPRS 4TS	190/836.6	1:2.075	0.216	0.138	0.04	25.98	27.00	1.265	0.273	22.1
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.344	0.183	-0.17	25.98	27.00	1.265	0.435	22.1
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	GPRS 3TS	190/836.6	1:2.77	0.345	0.236	-0.09	25.13	26.50	1.371	0.473	22.1
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.300	0.189	-0.16	25.13	26.50	1.371	0.411	22.1
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.530	0.301	-0.15	25.13	26.50	1.371	0.727	22.1
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.446	0.225	0.05	25.13	26.50	1.371	0.611	22.1
Body worn Test data(Separate 5mm) ECI 3											
Front side	GPRS 3TS	190/836.6	1:2.77	0.316	0.192	-0.13	26.79	28.00	1.321	0.418	22.1
Back side	GPRS 3TS	190/836.6	1:2.77	0.454	0.261	-0.02	26.79	28.00	1.321	0.600	22.1
Hotspot Test data(Separate 5mm) ECI 7											
Front side	GPRS 3TS	190/836.6	1:2.77	0.251	0.152	0.17	25.13	26.50	1.371	0.344	22.1
Back side	GPRS 3TS	190/836.6	1:2.77	0.361	0.208	-0.10	25.13	26.50	1.371	0.495	22.1
Left side	GPRS 3TS	190/836.6	1:2.77	0.091	0.048	-0.01	25.13	26.50	1.371	0.125	22.1
Top side	GPRS 3TS	190/836.6	1:2.77	0.263	0.129	-0.10	25.13	26.50	1.371	0.361	22.1



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10.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record											
Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.033	0.011	0.13	22.08	23.00	1.236	0.041	22.1
Left tilted	GPRS 4TS	661/1880	1:2.075	0.026	0.007	-0.17	22.08	23.00	1.236	0.032	22.1
Right cheek	GPRS 4TS	661/1880	1:2.075	0.030	0.014	0.15	22.08	23.00	1.236	0.037	22.1
Right tilted	GPRS 4TS	661/1880	1:2.075	0.022	0.010	-0.05	22.08	23.00	1.236	0.027	22.1
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	GPRS 4TS	661/1880	1:2.075	0.483	0.220	0.13	20.94	22.00	1.276	0.617	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.795	0.357	0.07	20.94	22.00	1.276	1.015	22.1
Back side	GPRS 4TS	512/1850.2	1:2.075	0.857	0.405	0.04	20.93	22.00	1.279	1.096	22.1
Back side-Repeated	GPRS 4TS	512/1850.2	1:2.075	0.842	0.397	0.07	20.93	22.00	1.279	1.077	22.1
Back side	GPRS 4TS	810/1909.8	1:2.075	0.425	0.202	0.11	20.94	22.00	1.276	0.542	22.1
Body worn Test data Sensor off ECI 4											
Front side 14mm	GPRS 4TS	661/1880	1:2.075	0.251	0.138	-0.02	22.08	23.00	1.236	0.310	22.6
Back side 21mm	GPRS 4TS	661/1880	1:2.075	0.264	0.146	0.06	22.08	23.00	1.236	0.326	22.6
Hotspot Test data(Separate 5mm) ECI 7											
Front side	GPRS 4TS	661/1880	1:2.075	0.483	0.220	0.13	20.94	22.00	1.276	0.617	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.795	0.357	0.07	20.94	22.00	1.276	1.015	22.1
Left side	GPRS 4TS	661/1880	1:2.075	0.450	0.173	-0.04	20.94	22.00	1.276	0.574	22.1
Bottom side	GPRS 4TS	661/1880	1:2.075	0.523	0.230	0.08	20.94	22.00	1.276	0.668	22.1
Back side	GPRS 4TS	512/1850.2	1:2.075	0.857	0.405	0.04	20.93	22.00	1.279	1.096	22.1
Back side-Repeated	GPRS 4TS	512/1850.2	1:2.075	0.842	0.397	0.07	20.93	22.00	1.279	1.077	22.1
Back side	GPRS 4TS	810/1909.8	1:2.075	0.425	0.202	0.11	20.94	22.00	1.276	0.542	22.1
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) ECI 6											
Back side	GPRS 4TS	661/1880	1:2.075	3.950	1.600	0.06	22.08	23.00	1.236	1.978	22.3
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.311	0.133	0.07	16.22	17.50	1.343	0.418	22.1
Left tilted	GPRS 4TS	661/1880	1:2.075	0.425	0.179	-0.11	16.22	17.50	1.343	0.571	22.1
Right cheek	GPRS 4TS	661/1880	1:2.075	0.556	0.233	-0.04	16.22	17.50	1.343	0.747	22.1
Right tilted	GPRS 4TS	661/1880	1:2.075	0.634	0.278	0.12	16.22	17.50	1.343	0.851	22.1
Right tilted	GPRS 4TS	512/1850.2	1:2.075	0.493	0.219	-0.07	16.14	17.50	1.368	0.674	22.1
Right tilted	GPRS 4TS	810/1909.8	1:2.075	0.589	0.253	0.01	15.94	17.50	1.432	0.844	22.1



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Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	GPRS 4TS	661/1880	1:2.075	0.254	0.116	0.06	16.66	18.00	1.361	0.346	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.519	0.241	0.10	16.66	18.00	1.361	0.707	22.1
Body worn Test data Sensor off ECI 4											
Front side 14mm	GPRS 4TS	661/1880	1:2.075	0.282	0.153	0.18	22.01	23.00	1.256	0.354	22.6
Back side 19mm	GPRS 4TS	661/1880	1:2.075	0.445	0.234	0.06	22.01	23.00	1.256	0.559	22.6
Hotspot Test data(Separate 5mm) ECI 7											
Front side	GPRS 4TS	661/1880	1:2.075	0.198	0.096	-0.18	15.44	16.50	1.276	0.253	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.403	0.198	0.03	15.44	16.50	1.276	0.514	22.1
Left side	GPRS 4TS	661/1880	1:2.075	0.033	0.019	0.12	15.44	16.50	1.276	0.042	22.1
Top side	GPRS 4TS	661/1880	1:2.075	0.446	0.203	-0.12	15.44	16.50	1.276	0.569	22.1
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) Sensor on ECI 6											
Back side	GPRS 4TS	661/1880	1:2.075	1.430	0.623	0.10	19.97	21.00	1.268	0.790	22.6
Top side	GPRS 4TS	661/1880	1:2.075	3.510	1.290	0.07	19.97	21.00	1.268	1.635	22.3
Product specific 10g SAR Test data Sensor off ECI 4											
Back side 7mm	GPRS 4TS	661/1880	1:2.075	1.650	0.781	-0.02	22.01	23.00	1.256	0.981	22.6
Top side 12mm	GPRS 4TS	661/1880	1:2.075	0.905	0.449	0.00	22.01	23.00	1.256	0.564	22.6
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.063	0.037	0.10	23.16	24.00	1.213	0.076	22.1
Left tilted	GPRS 4TS	661/1880	1:2.075	0.060	0.035	-0.10	23.16	24.00	1.213	0.073	22.1
Right cheek	GPRS 4TS	661/1880	1:2.075	0.052	0.032	-0.18	23.16	24.00	1.213	0.063	22.1
Right tilted	GPRS 4TS	661/1880	1:2.075	0.044	0.026	0.14	23.16	24.00	1.213	0.053	22.1
Body worn Test data(Separate 5mm) ECI 3											
Front side	GPRS 4TS	661/1880	1:2.075	0.543	0.289	0.16	23.16	24.00	1.213	0.659	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.700	0.384	0.07	23.16	24.00	1.213	0.849	22.1
Back side	GPRS 4TS	512/1850.2	1:2.075	0.656	0.358	-0.05	23.14	24.00	1.219	0.800	22.1
Back side	GPRS 4TS	810/1909.8	1:2.075	0.630	0.356	-0.10	23.07	24.00	1.239	0.780	22.1
Hotspot Test data(Separate 5mm) ECI 7											
Front side	GPRS 4TS	661/1880	1:2.075	0.416	0.234	0.16	23.16	24.00	1.213	0.505	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.536	0.311	0.07	23.16	24.00	1.213	0.650	22.1
Right side	GPRS 4TS	661/1880	1:2.075	0.293	0.151	-0.10	23.16	24.00	1.213	0.356	22.1
Bottom side	GPRS 4TS	661/1880	1:2.075	0.732	0.384	0.15	23.16	24.00	1.213	0.888	22.1
Bottom side	GPRS 4TS	512/1850.2	1:2.075	0.751	0.369	-0.05	23.15	24.00	1.216	0.913	22.1
Bottom side	GPRS 4TS	810/1909.8	1:2.075	0.548	0.270	-0.10	23.07	24.00	1.239	0.679	22.1



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Ant 9 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.372	0.198	0.01	23.22	24.00	1.197	0.445	22.1
Left tilted	GPRS 4TS	661/1880	1:2.075	0.050	0.032	-0.03	23.22	24.00	1.197	0.060	22.1
Right cheek	GPRS 4TS	661/1880	1:2.075	0.704	0.335	0.05	23.22	24.00	1.197	0.843	22.1
Right cheek with Sample2	GPRS 4TS	661/1880	1:2.075	0.688	0.326	0.02	23.22	24.00	1.197	0.823	22.1
Right tilted	GPRS 4TS	661/1880	1:2.075	0.070	0.042	0.07	23.22	24.00	1.197	0.084	22.1
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.373	0.175	0.08	23.17	24.00	1.211	0.452	22.1
Right cheek	GPRS 4TS	810/1909.8	1:2.075	0.504	0.240	0.06	23.11	24.00	1.227	0.619	22.1
Body worn Test data(Separate 5mm) ECI 3											
Front side	GPRS 4TS	661/1880	1:2.075	0.360	0.164	-0.15	23.22	24.00	1.197	0.431	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.573	0.245	-0.04	23.22	24.00	1.197	0.686	22.1
Hotspot Test data(Separate 5mm) ECI 7											
Front side	GPRS 4TS	661/1880	1:2.075	0.128	0.058	0.14	18.81	19.50	1.172	0.150	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.203	0.087	-0.13	18.81	19.50	1.172	0.238	22.1
Left side	GPRS 4TS	661/1880	1:2.075	0.475	0.178	0.15	18.81	19.50	1.172	0.557	22.1
Top side	GPRS 4TS	661/1880	1:2.075	0.011	0.006	-0.06	18.81	19.50	1.172	0.013	22.1
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) ECI 6											
Left side	GPRS 4TS	661/1880	1:2.075	4.710	1.890	-0.16	23.22	24.00	1.197	2.262	22.3
Left side	GPRS 4TS	512/1850.2	1:2.075	4.740	1.870	-0.02	23.17	24.00	1.211	2.264	22.3
Left side	GPRS 4TS	810/1909.8	1:2.075	5.210	1.970	0.12	23.11	24.00	1.227	2.418	22.3
Left side with Sample2	GPRS 4TS	810/1909.8	1:2.075	5.020	1.860	0.12	23.11	24.00	1.227	2.283	22.3

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	512/1850.2	0.857	0.842	1.018	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record											
Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	RMC	9400/1880	1:1	0.050	0.032	0.07	21.55	22.50	1.245	0.062	22.2
Left tilted	RMC	9400/1880	1:1	0.030	0.017	0.15	21.55	22.50	1.245	0.037	22.2
Right cheek	RMC	9400/1880	1:1	0.078	0.047	-0.05	21.55	22.50	1.245	0.097	22.2
Right tilted	RMC	9400/1880	1:1	0.037	0.019	-0.02	21.55	22.50	1.245	0.046	22.2
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	RMC	9400/1880	1:1	0.461	0.224	0.12	15.74	16.50	1.191	0.549	22.2
Back side	RMC	9400/1880	1:1	0.762	0.365	-0.02	15.74	16.50	1.191	0.908	22.2
Back side	RMC	9262/1852.4	1:1	0.630	0.314	0.03	15.69	16.50	1.205	0.759	22.2
Back side	RMC	9538/1907.6	1:1	0.445	0.223	-0.08	15.71	16.50	1.199	0.534	22.2
Body worn Test data Sensor off ECI 4											
Front side 14mm	RMC	9400/1880	1:1	0.414	0.229	-0.12	21.55	22.50	1.245	0.515	22.6
Back side 21mm	RMC	9400/1880	1:1	0.560	0.309	0.12	21.55	22.50	1.245	0.697	22.6
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	9400/1880	1:1	0.461	0.224	0.12	15.78	16.50	1.180	0.544	22.2
Back side	RMC	9400/1880	1:1	0.762	0.365	-0.02	15.74	16.50	1.191	0.908	22.2
Left side	RMC	9400/1880	1:1	0.360	0.149	0.13	15.74	16.50	1.191	0.429	22.2
Bottom side	RMC	9400/1880	1:1	0.666	0.288	-0.08	15.74	16.50	1.191	0.793	22.2
Back side	RMC	9262/1852.4	1:1	0.630	0.314	0.03	15.69	16.50	1.205	0.759	22.2
Back side	RMC	9538/1907.6	1:1	0.445	0.223	-0.08	15.71	16.50	1.199	0.534	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) Sensor on ECI 6											
Front side	RMC	9400/1880	1:1	4.870	2.090	0.13	20.75	21.50	1.189	2.484	22.6
Back side	RMC	9400/1880	1:1	5.540	2.510	0.11	20.75	21.50	1.189	2.983	22.3
Back side-Repeated	RMC	9400/1880	1:1	5.210	2.350	0.14	20.75	21.50	1.189	2.793	22.3
Back side with Sample2	RMC	9400/1880	1:1	5.420	2.430	0.14	20.75	21.50	1.189	2.888	22.3
Left side	RMC	9400/1880	1:1	3.680	1.340	-0.02	20.75	21.50	1.189	1.593	22.6
Bottom side	RMC	9400/1880	1:1	4.130	1.570	-0.15	20.75	21.50	1.189	1.866	22.6
Front side	RMC	9262/1852.4	1:1	4.740	2.290	0.04	20.67	21.50	1.211	2.772	22.3
Front side	RMC	9538/1907.6	1:1	2.760	1.320	-0.04	20.74	21.50	1.191	1.572	22.3
Back side	RMC	9262/1852.4	1:1	4.880	2.210	-0.03	20.67	21.50	1.211	2.675	22.3
Back side	RMC	9538/1907.6	1:1	5.000	2.250	0.06	20.74	21.50	1.191	2.680	22.3
Product specific 10g SAR Test data Sensor off ECI 4											
Front side 5mm	RMC	9400/1880	1:1	1.560	0.739	-0.07	21.55	22.50	1.245	0.920	22.6
Back side 14mm	RMC	9400/1880	1:1	0.552	0.300	0.16	21.55	22.50	1.245	0.373	22.6



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Left side 9mm	RMC	9400/1880	1:1	0.584	0.281	0.06	21.55	22.50	1.245	0.350	22.6
Bottom side 7mm	RMC	9400/1880	1:1	1.350	0.645	-0.04	21.55	22.50	1.245	0.803	22.6
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	RMC	9538/1907.6	1:1	0.345	0.145	-0.11	12.32	13.00	1.169	0.403	22.1
Left tilted	RMC	9538/1907.6	1:1	0.469	0.194	-0.06	12.32	13.00	1.169	0.548	22.1
Right cheek	RMC	9538/1907.6	1:1	0.524	0.221	0.11	12.32	13.00	1.169	0.613	22.1
Right tilted	RMC	9538/1907.6	1:1	0.662	0.274	0.02	12.32	13.00	1.169	0.774	22.3
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	RMC	9538/1907.6	1:1	0.475	0.223	-0.07	15.77	16.00	1.054	0.501	22.2
Back side	RMC	9538/1907.6	1:1	0.685	0.321	0.15	15.77	16.00	1.054	0.722	22.3
Body worn Test data Sensor off ECI 4											
Front side 14mm	RMC	9538/1907.6	1:1	0.415	0.216	0.16	21.79	22.50	1.178	0.489	22.6
Back side 19mm	RMC	9538/1907.6	1:1	0.584	0.312	0.14	21.79	22.50	1.178	0.688	22.6
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	9538/1907.6	1:1	0.223	0.105	-0.02	12.64	13.00	1.086	0.242	22.2
Back side	RMC	9538/1907.6	1:1	0.322	0.151	-0.17	12.64	13.00	1.086	0.350	22.2
Left side	RMC	9538/1907.6	1:1	0.035	0.020	0.16	12.64	13.00	1.086	0.038	22.2
Top side	RMC	9538/1907.6	1:1	0.445	0.192	0.18	12.64	13.00	1.086	0.483	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) Sensor on ECI 6											
Front side	RMC	9400/1880	1:1	3.230	1.390	-0.06	18.92	19.50	1.143	1.589	22.6
Back side	RMC	9400/1880	1:1	2.850	1.240	-0.03	18.92	19.50	1.143	1.417	22.6
Top side	RMC	9400/1880	1:1	4.660	1.740	0.04	18.92	19.50	1.143	1.989	22.3
Product specific 10g SAR Test data Sensor off ECI 4											
Front side 11mm	RMC	9538/1907.6	1:1	0.648	0.325	-0.16	21.79	22.50	1.178	0.383	22.6
Back side 7mm	RMC	9538/1907.6	1:1	2.030	0.961	-0.10	21.79	22.50	1.178	1.132	22.6
Top side 12mm	RMC	9538/1907.6	1:1	1.400	0.693	-0.01	21.79	22.50	1.178	0.816	22.6
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	RMC	9538/1907.6	1:1	0.116	0.071	-0.02	23.05	24.00	1.245	0.144	22.1
Left tilted	RMC	9538/1907.6	1:1	0.072	0.043	-0.10	23.05	24.00	1.245	0.090	22.1
Right cheek	RMC	9538/1907.6	1:1	0.105	0.064	0.13	23.05	24.00	1.245	0.131	22.1
Right tilted	RMC	9538/1907.6	1:1	0.072	0.044	-0.05	23.05	24.00	1.245	0.090	22.1
Body worn Test data(Separate 5mm) ECI 3											
Front side	RMC	9538/1907.6	1:1	0.791	0.428	0.12	23.05	24.00	1.245	0.984	22.2



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Back side	RMC	9538/1907.6	1:1	0.962	0.552	0.07	23.05	24.00	1.245	1.197	22.2
Back side-Repeated	RMC	9538/1907.6	1:1	0.938	0.536	0.02	23.05	24.00	1.245	1.167	22.2
Back side	RMC	9262/1852.4	1:1	0.540	0.308	-0.07	22.85	24.00	1.303	0.704	22.2
Back side	RMC	9400/1880	1:1	0.853	0.484	0.15	22.95	24.00	1.274	1.086	22.2
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	9538/1907.6	1:1	0.508	0.278	0.02	19.70	20.50	1.202	0.611	22.2
Back side	RMC	9538/1907.6	1:1	0.618	0.358	0.16	19.70	20.50	1.202	0.743	22.2
Right side	RMC	9538/1907.6	1:1	0.369	0.184	0.05	19.70	20.50	1.202	0.444	22.2
Bottom side	RMC	9538/1907.6	1:1	0.747	0.377	-0.05	19.70	20.50	1.202	0.898	22.2
Bottom side	RMC	9262/1852.4	1:1	0.526	0.260	0.07	19.69	20.50	1.205	0.634	22.2
Bottom side	RMC	9400/1880	1:1	0.738	0.383	-0.11	19.68	20.50	1.208	0.891	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) ECI 6											
Front side	RMC	9538/1907.6	1:1	3.800	1.730	-0.10	23.05	24.00	1.245	2.153	22.6
Back side	RMC	9538/1907.6	1:1	3.710	2.000	0.01	23.05	24.00	1.245	2.489	22.6
Bottom side	RMC	9538/1907.6	1:1	5.940	2.290	0.03	23.05	24.00	1.245	2.850	22.3
Front side	RMC	9262/1852.4	1:1	2.330	1.080	-0.11	22.85	24.00	1.303	1.407	22.6
Front side	RMC	9400/1880	1:1	2.970	1.370	0.01	22.95	24.00	1.274	1.745	22.6
Back side	RMC	9262/1852.4	1:1	2.910	1.590	0.02	22.85	24.00	1.303	2.072	22.6
Back side	RMC	9400/1880	1:1	4.390	1.990	-0.11	22.95	24.00	1.274	2.534	22.6
Bottom side	RMC	9262/1852.4	1:1	4.020	1.600	0.10	22.85	24.00	1.303	2.085	22.3
Bottom side	RMC	9400/1880	1:1	5.370	2.150	-0.08	22.95	24.00	1.274	2.738	22.3
Ant 9 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	RMC	9400/1880	1:1	0.432	0.225	-0.14	19.95	21.00	1.274	0.550	22.1
Left tilted	RMC	9400/1880	1:1	0.069	0.042	0.09	19.95	21.00	1.274	0.088	22.1
Right cheek	RMC	9400/1880	1:1	0.535	0.254	0.10	19.95	21.00	1.274	0.681	22.1
Right tilted	RMC	9400/1880	1:1	0.086	0.051	-0.04	19.95	21.00	1.274	0.110	22.1
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	RMC	9400/1880	1:1	0.424	0.189	0.07	19.95	21.00	1.274	0.540	22.2
Back side	RMC	9400/1880	1:1	0.564	0.251	-0.08	19.95	21.00	1.274	0.718	22.2
Body worn Test data Sensor off ECI 4											
Front side 14mm	RMC	9538/1907.6	1:1	0.203	0.107	0.18	22.94	24.00	1.276	0.259	22.6
Back side 19mm	RMC	9538/1907.6	1:1	0.244	0.123	0.19	22.94	24.00	1.276	0.311	22.6
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	9538/1907.6	1:1	0.127	0.060	0.18	15.74	16.50	1.191	0.151	22.2
Back side	RMC	9538/1907.6	1:1	0.164	0.082	-0.04	15.74	16.50	1.191	0.195	22.2
Left side	RMC	9538/1907.6	1:1	0.414	0.174	-0.03	15.74	16.50	1.191	0.493	22.2
Top side	RMC	9538/1907.6	1:1	0.009	0.005	0.02	15.74	16.50	1.191	0.011	22.2



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Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) Sensor on ECI 6											
Left side	RMC	9538/1907.6	1:1	5.120	1.810	0.14	18.49	19.50	1.262	2.284	22.3
Left side	RMC	9262/1852.4	1:1	3.120	1.130	0.00	18.38	19.50	1.294	1.462	22.3
Left side	RMC	9400/1880	1:1	4.490	1.600	-0.14	18.43	19.50	1.279	2.047	22.3
Product specific 10g SAR Test data Sensor off ECI 4											
Left side 7mm	RMC	9538/1907.6	1:1	1.710	0.743	-0.06	22.94	24.00	1.276	0.948	22.6

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	9538/1907.6	0.962	0.938	1.026	N/A	N/A
Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Back side	9400/1880	2.510	2.350	1.068	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record											
Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	RMC	1312/1712.4	1:1	0.027	0.014	-0.15	21.35	22.50	1.303	0.035	22.2
Left tilted	RMC	1312/1712.4	1:1	0.020	0.011	-0.14	21.35	22.50	1.303	0.026	22.2
Right cheek	RMC	1312/1712.4	1:1	0.024	0.012	-0.10	21.35	22.50	1.303	0.031	22.2
Right tilted	RMC	1312/1712.4	1:1	0.016	0.009	-0.04	21.35	22.50	1.303	0.021	22.2
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	RMC	1513/1752.6	1:1	0.408	0.214	0.16	18.57	19.50	1.239	0.505	22.2
Back side	RMC	1513/1752.6	1:1	0.886	0.420	0.02	18.57	19.50	1.239	1.098	22.2
Back side-Repeated	RMC	1513/1752.6	1:1	0.852	0.409	0.09	18.57	19.50	1.239	1.055	22.2
Back side	RMC	1312/1712.4	1:1	0.623	0.261	0.05	18.52	19.50	1.253	0.781	22.2
Back side	RMC	1412/1732.4	1:1	0.682	0.326	-0.07	18.36	19.50	1.300	0.887	22.2
Body worn Test data Sensor off ECI 4											
Front side 14mm	RMC	1312/1712.4	1:1	0.126	0.068	0.17	21.35	22.50	1.303	0.164	22.6
Back side 21mm	RMC	1312/1712.4	1:1	0.165	0.089	0.17	21.35	22.50	1.303	0.215	22.6
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	1513/1752.6	1:1	0.408	0.214	0.16	18.54	19.50	1.247	0.509	22.2
Back side	RMC	1513/1752.6	1:1	0.886	0.420	0.02	17.57	18.50	1.239	1.098	22.2
Back side-Repeated	RMC	1513/1752.6	1:1	0.852	0.409	0.09	18.54	19.50	1.247	1.063	22.2
Left side	RMC	1513/1752.6	1:1	0.195	0.092	0.05	18.54	19.50	1.247	0.243	22.2
Bottom side	RMC	1513/1752.6	1:1	0.283	0.135	-0.08	18.54	19.50	1.247	0.353	22.2
Back side	RMC	1312/1712.4	1:1	0.623	0.261	0.05	18.52	19.50	1.253	0.781	22.2
Back side	RMC	1412/1732.4	1:1	0.682	0.326	-0.07	18.36	19.50	1.300	0.887	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) Sensor on ECI 6											
Back side	RMC	1312/1712.4	1:1	3.970	1.940	0.07	20.65	21.50	1.216	2.359	22.3
Back side	RMC	1412/1732.4	1:1	4.410	2.150	0.12	20.43	21.50	1.279	2.751	22.3
Back side	RMC	1513/1752.6	1:1	5.030	2.280	-0.11	20.39	21.50	1.291	2.944	22.3
Back side-Repeated	RMC	1513/1752.6	1:1	4.890	2.170	-0.12	20.39	21.50	1.291	2.802	22.3
Product specific 10g SAR Test data Sensor off ECI 4											
Back side 14mm	RMC	1312/1712.4	1:1	0.216	0.111	0.07	21.35	22.50	1.303	0.145	22.6
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	RMC	1312/1712.4	1:1	0.311	0.163	-0.06	13.28	14.00	1.180	0.367	22.1



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Left tilted	RMC	1312/1712.4	1:1	0.450	0.226	0.02	13.28	14.00	1.180	0.531	22.1
Right cheek	RMC	1312/1712.4	1:1	0.453	0.233	-0.10	13.28	14.00	1.180	0.535	22.1
Right tilted	RMC	1312/1712.4	1:1	0.625	0.295	0.06	13.28	14.00	1.180	0.738	22.1
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	RMC	1312/1712.4	1:1	0.431	0.219	0.07	17.10	17.50	1.096	0.473	22.2
Back side	RMC	1312/1712.4	1:1	0.634	0.319	0.15	17.10	17.50	1.096	0.695	22.2
Body worn Test data Sensor off ECI 4											
Front side 14mm	RMC	1312/1712.4	1:1	0.313	0.177	-0.16	21.58	22.50	1.236	0.387	22.6
Back side 19mm	RMC	1312/1712.4	1:1	0.513	0.283	-0.02	21.58	22.50	1.236	0.634	22.6
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	1312/1712.4	1:1	0.259	0.127	-0.04	13.28	14.00	1.180	0.306	22.2
Back side	RMC	1312/1712.4	1:1	0.381	0.184	-0.11	13.28	14.00	1.180	0.450	22.2
Left side	RMC	1312/1712.4	1:1	0.037	0.019	-0.08	13.28	14.00	1.180	0.044	22.2
Top side	RMC	1312/1712.4	1:1	0.483	0.222	0.13	13.28	14.00	1.180	0.570	22.2
Top side with Sample2	RMC	1312/1712.4	1:1	0.458	0.210	0.11	13.28	14.00	1.180	0.541	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) Sensor on ECI 6											
Front side	RMC	1312/1712.4	1:1	1.880	0.762	0.00	17.84	18.50	1.164	0.887	22.6
Back side	RMC	1312/1712.4	1:1	1.540	0.693	0.08	17.84	18.50	1.164	0.807	22.6
Top side	RMC	1312/1712.4	1:1	4.260	1.640	-0.15	17.84	18.50	1.164	1.909	22.3
Product specific 10g SAR Test data Sensor off ECI 4											
Front side 11mm	RMC	1312/1712.4	1:1	0.450	0.241	-0.06	21.58	22.50	1.236	0.298	22.6
Back side 7mm	RMC	1312/1712.4	1:1	1.490	0.728	0.12	21.58	22.50	1.236	0.900	22.6
Top side 12mm	RMC	1312/1712.4	1:1	0.790	0.403	0.11	21.58	22.50	1.236	0.498	22.6
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	RMC	1312/1712.4	1:1	0.164	0.105	-0.07	23.00	24.00	1.259	0.206	22.1
Left tilted	RMC	1312/1712.4	1:1	0.076	0.046	0.14	23.00	24.00	1.259	0.096	22.1
Right cheek	RMC	1312/1712.4	1:1	0.138	0.088	-0.01	23.00	24.00	1.259	0.174	22.1
Right tilted	RMC	1312/1712.4	1:1	0.093	0.057	0.11	23.00	24.00	1.259	0.117	22.1
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	RMC	1312/1712.4	1:1	0.629	0.369	0.03	20.21	21.00	1.199	0.754	22.2
Back side	RMC	1312/1712.4	1:1	0.764	0.441	-0.02	20.21	21.00	1.199	0.916	22.2
Back side	RMC	1412/1732.4	1:1	0.643	0.399	0.08	20.11	21.00	1.227	0.789	22.2
Back side	RMC	1513/1752.6	1:1	0.566	0.351	-0.03	20.08	21.00	1.236	0.700	22.2
Body worn Test data Sensor off ECI 4											
Front side 14mm	RMC	1312/1712.4	1:1	0.315	0.199	-0.13	23.00	24.00	1.259	0.397	22.6
Back side 19mm	RMC	1312/1712.4	1:1	0.336	0.214	-0.18	23.00	24.00	1.259	0.423	22.6
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	1312/1712.4	1:1	0.608	0.358	0.00	19.71	20.50	1.199	0.729	22.2



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Back side	RMC	1312/1712.4	1:1	0.739	0.428	-0.15	19.71	20.50	1.199	0.886	22.2
Right side	RMC	1312/1712.4	1:1	0.333	0.178	0.19	19.71	20.50	1.199	0.399	22.2
Bottom side	RMC	1312/1712.4	1:1	0.856	0.457	0.05	19.71	20.50	1.199	1.027	22.2
Back side	RMC	1412/1732.4	1:1	0.650	0.379	-0.04	19.63	20.50	1.222	0.794	22.2
Back side	RMC	1513/1752.6	1:1	0.525	0.306	-0.14	19.55	20.50	1.245	0.653	22.2
Bottom side	RMC	1412/1732.4	1:1	0.753	0.405	0.14	19.63	20.50	1.222	0.920	22.2
Bottom side	RMC	1513/1752.6	1:1	0.608	0.327	-0.05	19.55	20.50	1.245	0.757	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) ECI 6											
Front side	RMC	1312/1712.4	1:1	2.580	1.350	-0.10	23.00	24.00	1.259	1.700	22.6
Back side	RMC	1312/1712.4	1:1	3.590	1.760	0.16	23.00	24.00	1.259	2.216	22.6
Bottom side	RMC	1312/1712.4	1:1	3.810	1.900	-0.14	23.00	24.00	1.259	2.392	22.3
Back side	RMC	1412/1732.4	1:1	3.590	1.440	0.08	22.96	24.00	1.271	1.830	22.6
Back side	RMC	1513/1752.6	1:1	3.330	1.250	-0.16	22.90	24.00	1.288	1.610	22.6
Bottom side	RMC	1412/1732.4	1:1	3.650	1.580	-0.12	22.96	24.00	1.271	2.008	22.3
Bottom side	RMC	1513/1752.6	1:1	3.490	1.370	0.09	22.90	24.00	1.288	1.765	22.3
Ant 9 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	RMC	1312/1712.4	1:1	0.196	0.108	-0.06	22.82	24.00	1.312	0.257	22.1
Left tilted	RMC	1312/1712.4	1:1	0.021	0.011	0.00	22.82	24.00	1.312	0.028	22.1
Right cheek	RMC	1312/1712.4	1:1	0.247	0.122	0.05	22.82	24.00	1.312	0.324	22.1
Right tilted	RMC	1312/1712.4	1:1	0.026	0.013	0.16	22.82	24.00	1.312	0.034	22.1
Body worn Test data(Separate 5mm) ECI 3											
Front side	RMC	1312/1712.4	1:1	0.223	0.107	0.06	22.82	24.00	1.312	0.293	22.2
Back side	RMC	1312/1712.4	1:1	0.274	0.124	-0.16	22.82	24.00	1.312	0.360	22.2
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	1312/1712.4	1:1	0.158	0.076	-0.17	22.00	23.00	1.259	0.199	22.2
Back side	RMC	1312/1712.4	1:1	0.194	0.088	0.08	22.00	23.00	1.259	0.244	22.2
Left side	RMC	1312/1712.4	1:1	0.462	0.185	0.02	22.00	23.00	1.259	0.582	22.2
Top side	RMC	1312/1712.4	1:1	0.078	0.037	-0.08	22.00	23.00	1.259	0.098	22.2

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	1513/1752.6	0.886	0.852	1.040	N/A	N/A
Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Back side	1513/1752.6	2.280	2.17	1.051	N/A	N/A



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Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record											
Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 2											
Left cheek	RMC	4132/826.4	1:1	0.172	0.124	-0.15	23.07	24.00	1.239	0.213	22.1
Left tilted	RMC	4132/826.4	1:1	0.112	0.082	0.03	23.07	24.00	1.239	0.139	22.1
Right cheek	RMC	4132/826.4	1:1	0.146	0.104	0.16	23.07	24.00	1.239	0.181	22.1
Right tilted	RMC	4132/826.4	1:1	0.078	0.058	0.15	23.07	24.00	1.239	0.097	22.1
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	RMC	4132/826.4	1:1	0.319	0.201	0.05	21.98	23.00	1.265	0.403	22.2
Back side	RMC	4132/826.4	1:1	0.655	0.379	-0.03	21.98	23.00	1.265	0.828	22.2
Back side	RMC	4182/836.4	1:1	0.797	0.453	-0.04	21.92	23.00	1.282	1.022	22.2
Back side	RMC	4233/846.6	1:1	0.620	0.353	0.06	21.86	23.00	1.300	0.806	22.2
Body worn Test data Sensor off ECI 4											
Front side 14mm	RMC	4132/826.4	1:1	0.146	0.092	0.02	23.07	24.00	1.239	0.181	22.6
Back side 21mm	RMC	4132/826.4	1:1	0.133	0.083	0.08	23.07	24.00	1.239	0.165	22.6
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	4132/826.4	1:1	0.319	0.201	0.05	21.98	23.00	1.265	0.403	22.2
Back side	RMC	4132/826.4	1:1	0.655	0.379	-0.03	21.98	23.00	1.265	0.828	22.2
Left side	RMC	4132/826.4	1:1	0.256	0.167	0.12	21.98	23.00	1.265	0.324	22.2
Bottom side	RMC	4132/826.4	1:1	0.438	0.236	0.14	21.98	23.00	1.265	0.554	22.2
Back side	RMC	4182/836.4	1:1	0.797	0.453	-0.04	21.92	23.00	1.282	1.022	22.2
Back side	RMC	4233/846.6	1:1	0.620	0.353	0.06	21.86	23.00	1.300	0.806	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) ECI 6											
Back side	RMC	4132/826.4	1:1	3.480	1.610	0.03	23.07	24.00	1.239	1.994	22.3
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI ECI 2											
Left cheek	RMC	4182/836.4	1:1	0.360	0.243	0.09	21.33	22.00	1.167	0.420	22.1
Left tilted	RMC	4182/836.4	1:1	0.354	0.219	-0.11	21.33	22.00	1.167	0.413	22.1
Right cheek	RMC	4182/836.4	1:1	0.522	0.306	-0.09	21.33	22.00	1.167	0.609	22.1
Right tilted	RMC	4182/836.4	1:1	0.470	0.252	-0.15	21.33	22.00	1.167	0.548	22.1
Body worn Test data(Separate 5mm) ECI 3											
Front side	RMC	4132/826.4	1:1	0.399	0.244	0.15	22.20	23.00	1.202	0.480	22.2
Back side	RMC	4132/826.4	1:1	0.522	0.316	0.16	22.20	23.00	1.202	0.628	22.2



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Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	4132/826.4	1:1	0.317	0.194	-0.09	21.85	22.50	1.161	0.368	22.2
Back side	RMC	4132/826.4	1:1	0.415	0.251	0.06	21.85	22.50	1.161	0.482	22.2
Left side	RMC	4132/826.4	1:1	0.102	0.065	0.11	21.85	22.50	1.161	0.118	22.2
Top side	RMC	4132/826.4	1:1	0.378	0.199	0.15	21.85	22.50	1.161	0.439	22.2



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10.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record												
Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_0	18700/1860	1:1	0.064	0.041	-0.08	21.49	22.50	1.262	0.081	22.3
Left tilted	20	QPSK 1_0	18700/1860	1:1	0.044	0.026	0.08	21.49	22.50	1.262	0.056	22.3
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.106	0.065	0.19	21.49	22.50	1.262	0.134	22.3
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.027	0.013	-0.15	21.49	22.50	1.262	0.034	22.3
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_0	18700/1860	1:1	0.049	0.031	-0.15	20.37	21.50	1.297	0.064	22.3
Left tilted	20	QPSK 50_0	18700/1860	1:1	0.030	0.018	-0.04	20.37	21.50	1.297	0.039	22.3
Right cheek	20	QPSK 50_0	18700/1860	1:1	0.080	0.049	0.10	20.37	21.50	1.297	0.104	22.3
Right tilted	20	QPSK 50_0	18700/1860	1:1	0.018	0.009	0.14	20.37	21.50	1.297	0.023	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_0	18700/1860	1:1	0.529	0.276	-0.01	14.86	16.00	1.300	0.688	22.2
Back side	20	QPSK 1_0	18700/1860	1:1	0.747	0.362	0.05	14.86	16.00	1.300	0.971	22.3
Back side	20	QPSK 1_99	18900/1880	1:1	0.665	0.337	0.02	14.75	16.00	1.334	0.887	22.2
Back side	20	QPSK 1_0	19100/1900	1:1	0.601	0.304	-0.02	14.76	16.00	1.330	0.800	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_0	18700/1860	1:1	0.501	0.247	0.06	14.80	16.00	1.318	0.660	22.2
Back side	20	QPSK 50_0	18700/1860	1:1	0.727	0.329	0.04	14.80	16.00	1.318	0.958	22.2
Back side	20	QPSK 50_50	18900/1880	1:1	0.669	0.319	-0.13	14.78	16.00	1.324	0.886	22.2
Back side	20	QPSK 50_25	19100/1900	1:1	0.593	0.283	-0.09	14.72	16.00	1.343	0.796	22.2
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	18900/1880	1:1	0.621	0.307	0.02	14.68	16.00	1.355	0.842	22.2
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_0	18700/1860	1:1	0.646	0.353	-0.09	21.49	22.50	1.262	0.815	22.6
Back side 21mm	20	QPSK 1_0	18700/1860	1:1	0.592	0.338	0.03	21.49	22.50	1.262	0.747	22.6
Front side 14mm	20	QPSK 1_99	18900/1880	1:1	0.560	0.304	-0.05	21.22	22.50	1.343	0.752	22.6
Front side 14mm	20	QPSK 1_0	19100/1900	1:1	0.464	0.261	0.10	21.37	22.50	1.297	0.602	22.6
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_0	18700/1860	1:1	0.520	0.284	0.18	20.37	21.50	1.297	0.675	22.6
Back side 21mm	20	QPSK 50_0	18700/1860	1:1	0.482	0.269	-0.02	20.37	21.50	1.297	0.625	22.6
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 100_0	18700/1860	1:1	0.519	0.284		20.44	21.50	1.276	0.662	22.6
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	18700/1860	1:1	0.529	0.276	-0.01	14.86	16.00	1.300	0.688	22.2
Back side	20	QPSK 1_0	18700/1860	1:1	0.747	0.362	0.05	14.86	16.00	1.300	0.971	22.2
Left side	20	QPSK 1_0	18700/1860	1:1	0.459	0.218	-0.07	14.86	16.00	1.300	0.597	22.2



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Bottom side	20	QPSK 1_0	18700/1860	1:1	0.496	0.237	-0.07	14.86	16.00	1.300	0.645	22.2
Back side	20	QPSK 1_99	18900/1880	1:1	0.665	0.337	0.02	14.75	16.00	1.334	0.887	22.2
Back side	20	QPSK 1_0	19100/1900	1:1	0.601	0.304	-0.02	14.76	16.00	1.330	0.800	22.2
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_0	18700/1860	1:1	0.501	0.247	0.06	14.80	16.00	1.318	0.660	22.2
Back side	20	QPSK 50_0	18700/1860	1:1	0.727	0.329	0.04	14.80	16.00	1.318	0.958	22.2
Left side	20	QPSK 50_0	18700/1860	1:1	0.436	0.187	0.02	14.80	16.00	1.318	0.575	22.2
Bottom side	20	QPSK 50_0	18700/1860	1:1	0.485	0.213	0.13	14.80	16.00	1.318	0.639	22.2
Back side	20	QPSK 50_50	18900/1880	1:1	0.669	0.319	-0.13	14.78	16.00	1.324	0.886	22.2
Back side	20	QPSK 50_25	19100/1900	1:1	0.593	0.283	-0.09	14.72	16.00	1.343	0.796	22.2
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	20	QPSK 100_0	18900/1880	1:1	0.621	0.307	0.02	14.68	16.00	1.355	0.842	22.2
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 9												
Front side	20	QPSK 1_0	18700/1860	1:1	3.490	1.750	0.18	18.05	19.50	1.396	2.444	22.6
Back side	20	QPSK 1_0	18700/1860	1:1	3.860	1.860	-0.01	18.05	19.50	1.396	2.597	22.1
Left side	20	QPSK 1_0	18700/1860	1:1	2.910	1.290	-0.13	18.05	19.50	1.396	1.801	22.6
Bottom side	20	QPSK 1_0	18700/1860	1:1	2.630	1.030	0.13	18.05	19.50	1.396	1.438	22.6
Front side	20	QPSK 1_0	18900/1880	1:1	3.070	1.610	-0.19	18.02	19.50	1.406	2.264	22.6
Front side	20	QPSK 1_0	19100/1900	1:1	2.580	1.350	0.10	17.95	19.50	1.429	1.929	22.6
Back side	20	QPSK 1_0	18900/1880	1:1	3.610	1.740	0.17	18.02	19.50	1.406	2.447	22.1
Back side	20	QPSK 1_0	19100/1900	1:1	3.850	1.870	0.16	17.95	19.50	1.429	2.672	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 9												
Front side	20	QPSK 50_0	18700/1860	1:1	3.440	1.710	-0.13	17.70	19.50	1.514	2.588	22.6
Back side	20	QPSK 50_0	18700/1860	1:1	3.670	1.780	0.10	17.70	19.50	1.514	2.694	22.1
Left side	20	QPSK 50_0	18700/1860	1:1	2.690	1.190	0.16	17.70	19.50	1.514	1.801	22.6
Bottom side	20	QPSK 50_0	18700/1860	1:1	2.200	0.940	-0.04	17.70	19.50	1.514	1.423	22.6
Front side	20	QPSK 50_50	18900/1880	1:1	2.900	1.510	0.17	17.68	19.50	1.521	2.296	22.6
Front side	20	QPSK 50_25	19100/1900	1:1	2.510	1.310	0.06	17.62	19.50	1.542	2.020	22.6
Back side	20	QPSK 50_50	18900/1880	1:1	3.680	1.780	0.16	17.68	19.50	1.521	2.707	22.1
Back side	20	QPSK 50_25	19100/1900	1:1	3.710	1.810	0.04	17.62	19.50	1.542	2.790	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 9												
Front side	20	QPSK 100_0	18900/1880	1:1	3.000	1.580	0.19	17.68	19.50	1.521	2.402	22.6
Back side	20	QPSK 100_0	18900/1880	1:1	2.320	1.170	0.04	17.68	19.50	1.521	1.779	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 5mm	20	QPSK 1_0	18700/1860	1:1	2.690	1.320	0.04	21.49	22.50	1.262	1.666	22.6
Back side 14mm	20	QPSK 1_0	18700/1860	1:1	0.937	0.508	-0.15	21.49	22.50	1.262	0.641	22.6
Left side 9mm	20	QPSK 1_0	18700/1860	1:1	1.120	0.520	0.09	21.49	22.50	1.262	0.656	22.6
Bottom side 7mm	20	QPSK 1_0	18700/1860	1:1	2.230	1.020	-0.06	21.49	22.50	1.262	1.287	22.6



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Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 5mm	20	QPSK 50_0	18700/1860	1:1	2.150	1.060	0.09	20.37	21.50	1.297	1.375	22.6
Back side 14mm	20	QPSK 50_0	18700/1860	1:1	0.751	0.407	0.09	20.37	21.50	1.297	0.528	22.6
Left side 9mm	20	QPSK 50_0	18700/1860	1:1	0.884	0.413	0.10	20.37	21.50	1.297	0.536	22.6
Bottom side 7mm	20	QPSK 50_0	18700/1860	1:1	1.790	0.817	-0.04	20.37	21.50	1.297	1.060	22.6
Ant 1 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dB m)	Tune up Limit(dB m)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_99	19100/1900	1:1	0.315	0.153	-0.19	11.91	13.00	1.285	0.405	22.3
Left tilted	20	QPSK 1_99	19100/1900	1:1	0.426	0.206	0.04	11.91	13.00	1.285	0.548	22.3
Right cheek	20	QPSK 1_99	19100/1900	1:1	0.479	0.236	-0.10	11.91	13.00	1.285	0.616	22.3
Right tilted	20	QPSK 1_99	19100/1900	1:1	0.598	0.255	0.04	11.91	13.00	1.285	0.769	22.3
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	19100/1900	1:1	0.315	0.156	0.18	11.90	13.00	1.288	0.406	22.3
Left tilted	20	QPSK 50_50	19100/1900	1:1	0.408	0.199	-0.19	11.90	13.00	1.288	0.526	22.3
Right cheek	20	QPSK 50_50	19100/1900	1:1	0.458	0.230	0.04	11.90	13.00	1.288	0.590	22.3
Right tilted	20	QPSK 50_50	19100/1900	1:1	0.585	0.278	-0.15	11.90	13.00	1.288	0.754	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_99	18700/1860	1:1	0.400	0.193	0.10	13.31	14.50	1.315	0.526	22.2
Back side	20	QPSK 1_99	18700/1860	1:1	0.550	0.267	0.11	13.31	14.50	1.315	0.723	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_50	19100/1900	1:1	0.399	0.176	-0.10	13.27	14.50	1.327	0.530	22.2
Back side	20	QPSK 50_50	19100/1900	1:1	0.630	0.296	0.13	13.27	14.50	1.327	0.836	22.2
Back side with Sample2	20	QPSK 50_50	19100/1900	1:1	0.614	0.288	0.13	13.27	14.50	1.327	0.815	22.2
Back side	20	QPSK 50_50	18700/1860	1:1	0.569	0.265	0.06	13.23	14.50	1.340	0.762	22.2
Back side	20	QPSK 50_25	18900/1880	1:1	0.579	0.271	-0.12	13.25	14.50	1.334	0.772	22.2
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	19100/1900	1:1	0.602	0.281	-0.17	13.22	14.50	1.343	0.808	22.2
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_99	18700/1860	1:1	0.491	0.261	-0.12	21.40	22.50	1.288	0.633	22.6
Back side 19mm	20	QPSK 1_99	18700/1860	1:1	0.606	0.285	0.14	21.40	22.50	1.288	0.781	22.6
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_50	19100/1900	1:1	0.408	0.214	-0.16	20.29	21.50	1.321	0.539	22.6
Back side 19mm	20	QPSK 50_50	19100/1900	1:1	0.543	0.257	-0.06	20.29	21.50	1.321	0.717	22.6
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_99	18700/1860	1:1	0.214	0.100	0.10	10.35	11.50	1.303	0.279	22.2
Back side	20	QPSK 1_99	18700/1860	1:1	0.295	0.138	0.10	10.35	11.50	1.303	0.384	22.2



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Left side	20	QPSK 1_99	18700/1860	1:1	0.039	0.021	-0.17	10.35	11.50	1.303	0.051	22.2
Top side	20	QPSK 1_99	18700/1860	1:1	0.351	0.153	0.06	10.35	11.50	1.303	0.457	22.2
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_50	19100/1900	1:1	0.200	0.088	0.19	10.37	11.50	1.297	0.259	22.2
Back side	20	QPSK 50_50	19100/1900	1:1	0.319	0.139	-0.11	10.37	11.50	1.297	0.414	22.2
Left side	20	QPSK 50_50	19100/1900	1:1	0.036	0.019	0.09	10.37	11.50	1.297	0.047	22.2
Top side	20	QPSK 50_50	19100/1900	1:1	0.403	0.173	0.09	10.37	11.50	1.297	0.523	22.2
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	20	QPSK 1_99	19100/1900	1:1	2.760	1.120	0.05	17.03	18.00	1.250	1.400	22.6
Back side	20	QPSK 1_99	19100/1900	1:1	2.370	1.020	0.15	17.03	18.00	1.250	1.275	22.6
Top side	20	QPSK 1_99	19100/1900	1:1	3.940	1.490	-0.03	17.00	18.00	1.259	1.876	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	20	QPSK 50_50	19100/1900	1:1	2.800	1.200	0.09	17.06	18.00	1.242	1.490	22.6
Back side	20	QPSK 50_50	19100/1900	1:1	2.580	1.110	-0.06	17.06	18.00	1.242	1.378	22.6
Top side	20	QPSK 50_50	19100/1900	1:1	3.670	1.410	0.07	17.06	18.00	1.242	1.751	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 1_99	18700/1860	1:1	0.777	0.388	-0.18	21.40	22.50	1.288	0.500	22.6
Back side 7mm	20	QPSK 1_99	18700/1860	1:1	2.160	1.010	0.14	21.40	22.50	1.288	1.301	22.6
Top side 12mm	20	QPSK 1_99	18700/1860	1:1	1.250	0.633	-0.08	21.40	22.50	1.288	0.815	22.6
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 50_50	19100/1900	1:1	0.613	0.303	0.08	20.29	21.50	1.321	0.400	22.6
Back side 7mm	20	QPSK 50_50	19100/1900	1:1	1.880	0.869	0.03	20.29	21.50	1.321	1.148	22.6
Top side 12mm	20	QPSK 50_50	19100/1900	1:1	1.120	0.566	0.18	20.29	21.50	1.321	0.748	22.6
Ant 2 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_99	19100/1900	1:1	0.129	0.078	0.19	22.65	23.50	1.216	0.157	22.1
Left tilted	20	QPSK 1_99	19100/1900	1:1	0.083	0.050	-0.03	22.65	23.50	1.216	0.101	22.1
Right cheek	20	QPSK 1_99	19100/1900	1:1	0.119	0.075	0.06	22.65	23.50	1.216	0.145	22.1
Right tilted	20	QPSK 1_99	19100/1900	1:1	0.081	0.048	0.13	22.65	23.50	1.216	0.099	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	18700/1860	1:1	0.090	0.055	-0.10	21.66	22.50	1.213	0.109	22.1
Left tilted	20	QPSK 50_50	18700/1860	1:1	0.057	0.035	-0.19	21.66	22.50	1.213	0.069	22.1
Right cheek	20	QPSK 50_50	18700/1860	1:1	0.080	0.050	-0.08	21.66	22.50	1.213	0.097	22.1



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Right tilted	20	QPSK 50_50	18700/1860	1:1	0.058	0.036	-0.15	21.66	22.50	1.213	0.070	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_99	19100/1900	1:1	0.625	0.378	0.08	20.57	21.50	1.239	0.774	22.2
Back side	20	QPSK 1_99	19100/1900	1:1	0.778	0.474	0.00	20.57	21.50	1.239	0.964	22.2
Back side	20	QPSK 1_99	18700/1860	1:1	0.679	0.439	0.07	20.49	21.50	1.262	0.857	22.2
Back side	20	QPSK 1_50	18900/1880	1:1	0.712	0.458	-0.02	20.56	21.50	1.242	0.884	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_50	18700/1860	1:1	0.619	0.388	0.02	20.57	21.50	1.239	0.767	22.2
Back side	20	QPSK 50_50	18700/1860	1:1	0.776	0.472	-0.03	20.57	21.50	1.239	0.961	22.2
Back side	20	QPSK 50_0	18900/1880	1:1	0.644	0.392	-0.18	20.60	21.50	1.230	0.792	22.2
Back side	20	QPSK 50_50	19100/1900	1:1	0.688	0.412	-0.02	20.47	21.50	1.268	0.872	22.2
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	18900/1880	1:1	0.753	0.461	0.03	20.54	21.50	1.247	0.939	22.2
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_99	19100/1900	1:1	0.285	0.178	-0.12	22.65	23.50	1.216	0.347	22.6
Back side 19mm	20	QPSK 1_99	19100/1900	1:1	0.351	0.215	0.01	22.65	23.50	1.216	0.427	22.6
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_50	18700/1860	1:1	0.185	0.118	-0.18	21.66	22.50	1.213	0.224	22.6
Back side 19mm	20	QPSK 50_50	18700/1860	1:1	0.251	0.150	-0.01	21.66	22.50	1.213	0.305	22.6
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_99	19100/1900	1:1	0.572	0.324	-0.08	20.21	21.00	1.199	0.686	22.2
Back side	20	QPSK 1_99	19100/1900	1:1	0.711	0.407	-0.13	20.21	21.00	1.199	0.853	22.2
Right side	20	QPSK 1_99	19100/1900	1:1	0.467	0.234	-0.04	20.21	21.00	1.199	0.560	22.2
Bottom side	20	QPSK 1_99	19100/1900	1:1	0.809	0.407	0.06	20.21	21.00	1.199	0.970	22.2
Back side	20	QPSK 1_99	18700/1860	1:1	0.753	0.438	-0.11	20.18	21.00	1.208	0.909	22.2
Back side	20	QPSK 1_50	18900/1880	1:1	0.751	0.434	0.10	20.03	21.00	1.250	0.939	22.2
Bottom side	20	QPSK 1_99	18700/1860	1:1	0.857	0.449	-0.05	20.18	21.00	1.208	1.035	22.2
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.894	0.464	0.10	20.03	21.00	1.250	1.118	22.2
Bottom side-Repeated	20	QPSK 1_50	18900/1880	1:1	0.855	0.442	-0.04	20.03	21.00	1.250	1.069	22.2
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_50	18700/1860	1:1	0.519	0.296	0.05	20.14	21.00	1.219	0.633	22.2
Back side	20	QPSK 50_50	18700/1860	1:1	0.650	0.373	0.00	20.14	21.00	1.219	0.792	22.2
Right side	20	QPSK 50_50	18700/1860	1:1	0.392	0.196	-0.08	20.14	21.00	1.219	0.478	22.2
Bottom side	20	QPSK 50_50	18700/1860	1:1	0.852	0.443	0.01	20.14	21.00	1.219	1.039	22.2
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.842	0.432	0.17	20.11	21.00	1.227	1.034	22.2
Bottom side	20	QPSK 50_50	19100/1900	1:1	0.770	0.380	0.15	20.10	21.00	1.230	0.947	22.2
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	20	QPSK 100_0	18900/1880	1:1	0.721	0.401	-0.03	20.11	21.00	1.227	0.885	22.2
Bottom side	20	QPSK	18900/1880	1:1	0.820	0.412	0.01	20.11	21.00	1.227	1.007	22.2



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		100_0										
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	20	QPSK 1_99	19100/1900	1:1	3.620	1.810	0.05	21.87	22.50	1.156	2.093	22.6
Back side	20	QPSK 1_99	19100/1900	1:1	5.280	2.280	-0.02	21.87	22.50	1.156	2.636	22.6
Back side-Repeated	20	QPSK 1_99	19100/1900	1:1	5.070	2.140	-0.08	21.87	22.50	1.156	2.474	22.6
Bottom side	20	QPSK 1_99	19100/1900	1:1	4.070	1.670	-0.09	21.87	22.50	1.156	1.931	22.1
Front side	20	QPSK 1_99	18700/1860	1:1	3.470	1.670	0.01	21.81	22.50	1.172	1.958	22.6
Front side	20	QPSK 1_50	18900/1880	1:1	3.580	1.720	-0.03	21.76	22.50	1.186	2.040	22.6
Back side	20	QPSK 1_99	18700/1860	1:1	4.790	2.170	0.13	21.81	22.50	1.172	2.544	22.6
Back side	20	QPSK 1_50	18900/1880	1:1	4.930	2.230	0.15	21.76	22.50	1.186	2.644	22.6
Bottom side	20	QPSK 1_99	18700/1860	1:1	5.380	2.190	-0.09	21.81	22.50	1.172	2.567	22.1
Bottom side	20	QPSK 1_50	18900/1880	1:1	4.960	2.030	0.06	21.76	22.50	1.186	2.407	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	20	QPSK 50_50	18700/1860	1:1	3.380	1.590	0.03	21.68	22.50	1.208	1.920	22.6
Back side	20	QPSK 50_50	18700/1860	1:1	4.870	2.110	0.16	21.68	22.50	1.208	2.548	22.6
Bottom side	20	QPSK 50_50	18700/1860	1:1	5.530	2.180	-0.14	21.68	22.50	1.208	2.633	22.1
Back side	20	QPSK 50_0	18900/1880	1:1	4.770	2.160	-0.15	21.64	22.50	1.219	2.633	22.6
Back side	20	QPSK 50_50	19100/1900	1:1	4.850	2.190	-0.10	21.67	22.50	1.211	2.651	22.6
Bottom side	20	QPSK 50_0	18900/1880	1:1	5.240	2.070	-0.14	21.64	22.50	1.219	2.523	22.1
Bottom side	20	QPSK 50_50	19100/1900	1:1	4.220	1.680	0.09	21.67	22.50	1.211	2.034	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Front side	20	QPSK 100_0	18900/1880	1:1	3.510	1.690	0.18	21.63	22.50	1.222	2.065	22.6
Back side	20	QPSK 100_0	18900/1880	1:1	4.790	2.170	0.13	21.63	22.50	1.222	2.651	22.6
Bottom side	20	QPSK 100_0	18900/1880	1:1	5.010	2.050	-0.04	21.63	22.50	1.222	2.505	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 5mm	20	QPSK 1_99	19100/1900	1:1	0.915	0.500	-0.05	22.65	23.50	1.216	0.608	22.6
Back side 12mm	20	QPSK 1_99	19100/1900	1:1	0.461	0.274	-0.18	22.65	23.50	1.216	0.333	22.6
Bottom side 9mm	20	QPSK 1_99	19100/1900	1:1	0.720	0.400	0.14	22.65	23.50	1.216	0.486	22.6
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 5mm	20	QPSK 50_50	18700/1860	1:1	0.764	0.425	-0.13	21.66	22.50	1.213	0.516	22.6
Back side 12mm	20	QPSK 50_50	18700/1860	1:1	0.323	0.190	0.01	21.66	22.50	1.213	0.231	22.6
Bottom side 9mm	20	QPSK 50_50	18700/1860	1:1	0.713	0.378	-0.15	21.66	22.50	1.213	0.459	22.6
Ant 9 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) ECI 2												



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Left cheek	20	QPSK 1_0	18700/1860	1:1	0.515	0.254	0.09	18.99	20.00	1.262	0.650	22.1
Left tilted	20	QPSK 1_0	18700/1860	1:1	0.087	0.050	-0.17	18.99	20.00	1.262	0.110	22.1
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.633	0.289	0.04	18.99	20.00	1.262	0.799	22.1
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.080	0.045	-0.05	18.95	20.00	1.274	0.102	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	18700/1860	1:1	0.453	0.237	-0.01	18.83	20.00	1.309	0.593	22.1
Left tilted	20	QPSK 50_50	18700/1860	1:1	0.074	0.045	-0.10	18.83	20.00	1.309	0.097	22.1
Right cheek	20	QPSK 50_50	18700/1860	1:1	0.566	0.271	-0.02	18.83	20.00	1.309	0.741	22.1
Right tilted	20	QPSK 50_50	18700/1860	1:1	0.086	0.051	0.02	18.83	20.00	1.309	0.113	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_0	18700/1860	1:1	0.387	0.170	0.19	17.33	18.50	1.309	0.507	22.2
Back side	20	QPSK 1_0	18700/1860	1:1	0.551	0.254	-0.11	17.33	18.50	1.309	0.721	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_50	18700/1860	1:1	0.346	0.163	-0.12	17.29	18.50	1.321	0.457	22.2
Back side	20	QPSK 50_50	18700/1860	1:1	0.542	0.244	0.09	17.29	18.50	1.321	0.716	22.2
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_0	18700/1860	1:1	0.264	0.140	0.07	22.66	23.50	1.213	0.320	22.6
Back side 19mm	20	QPSK 1_0	18700/1860	1:1	0.309	0.158	-0.10	22.66	23.50	1.213	0.375	22.6
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_50	18700/1860	1:1	0.197	0.106	0.00	21.49	22.50	1.262	0.249	22.6
Back side 19mm	20	QPSK 50_50	18700/1860	1:1	0.243	0.124	0.13	21.49	22.50	1.262	0.307	22.6
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	18700/1860	1:1	0.162	0.074	-0.16	14.13	15.00	1.222	0.198	22.2
Back side	20	QPSK 1_0	18700/1860	1:1	0.232	0.107	0.07	14.13	15.00	1.222	0.283	22.2
Left side	20	QPSK 1_0	18700/1860	1:1	0.423	0.176	-0.08	14.13	15.00	1.222	0.517	22.2
Top side	20	QPSK 1_0	18700/1860	1:1	0.010	0.006	0.16	14.13	15.00	1.222	0.012	22.2
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_50	18700/1860	1:1	0.144	0.068	0.00	14.09	15.00	1.233	0.178	22.2
Back side	20	QPSK 50_50	18700/1860	1:1	0.228	0.102	0.06	14.09	15.00	1.233	0.281	22.2
Left side	20	QPSK 50_50	18700/1860	1:1	0.405	0.171	-0.12	14.09	15.00	1.233	0.499	22.2
Top side	20	QPSK 50_50	18700/1860	1:1	0.010	0.005	0.19	14.09	15.00	1.233	0.012	22.2
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	20	QPSK 1_0	18700/1860	1:1	1.550	0.653	0.03	17.33	18.50	1.309	0.855	22.6
Back side	20	QPSK 1_0	18700/1860	1:1	1.950	0.799	-0.13	17.33	18.50	1.309	1.046	22.6
Left side	20	QPSK 1_0	18700/1860	1:1	4.100	1.470	0.01	17.33	18.50	1.309	1.924	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												



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Front side	20	QPSK 50_50	18700/1860	1:1	1.540	0.625	-0.10	17.29	18.50	1.321	0.826	22.6
Back side	20	QPSK 50_50	18700/1860	1:1	1.940	0.785	-0.11	17.29	18.50	1.321	1.037	22.6
Left side	20	QPSK 50_50	18700/1860	1:1	3.780	1.420	-0.06	17.29	18.50	1.321	1.876	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 1_0	18700/1860	1:1	0.404	0.206	0.05	22.66	23.50	1.213	0.250	22.6
Back side 7mm	20	QPSK 1_0	18700/1860	1:1	1.040	0.478	0.03	22.66	23.50	1.213	0.580	22.6
Left side 7mm	20	QPSK 1_0	18700/1860	1:1	2.180	0.924	-0.04	22.66	23.50	1.213	1.121	22.6
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 50_50	18700/1860	1:1	0.320	0.163	-0.10	21.49	22.50	1.262	0.206	22.6
Back side 7mm	20	QPSK 50_50	18700/1860	1:1	0.836	0.392	0.17	21.49	22.50	1.262	0.495	22.6
Left side 7mm	20	QPSK 50_50	18700/1860	1:1	1.690	0.712	0.03	21.49	22.50	1.262	0.898	22.6

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	18900/1880	0.894	0.855	1.046	N/A	N/A
Test Position	Channel/ Frequency (MHz)	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (10g)		SAR (10g)	SAR (10g)
Back side	19100/1900	2.280	2.140	1.065	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_50	20850/2510	1:1	0.055	0.031	0.06	21.50	22.50	1.259	0.069	22.3
Left tilted	20	QPSK 1_50	20850/2510	1:1	0.009	0.004	0.04	21.50	22.50	1.259	0.011	22.3
Right cheek	20	QPSK 1_50	20850/2510	1:1	0.042	0.022	0.07	21.50	22.50	1.259	0.053	22.3
Right tilted	20	QPSK 1_50	20850/2510	1:1	0.005	0.002	0.08	21.50	22.50	1.259	0.006	22.3
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	20850/2510	1:1	0.050	0.029	0.10	20.52	21.50	1.253	0.063	22.3
Left tilted	20	QPSK 50_50	20850/2510	1:1	0.003	0.001	0.00	20.52	21.50	1.253	0.004	22.3
Right cheek	20	QPSK 50_50	20850/2510	1:1	0.021	0.012	-0.02	20.52	21.50	1.253	0.026	22.3
Right tilted	20	QPSK 50_50	20850/2510	1:1	0.002	0.001	-0.04	20.52	21.50	1.253	0.003	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_50	20850/2510	1:1	0.316	0.176	-0.17	16.83	18.00	1.309	0.414	22.2
Back side	20	QPSK 1_50	20850/2510	1:1	0.798	0.334	0.03	16.83	18.00	1.309	1.045	22.2
Back side	20	QPSK 1_99	21100/2535	1:1	0.583	0.250	-0.14	16.73	18.00	1.340	0.781	22.2
Back side	20	QPSK 1_50	21350/2560	1:1	0.594	0.250	0.17	16.64	18.00	1.368	0.812	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_50	20850/2510	1:1	0.333	0.165	0.00	16.82	18.00	1.312	0.437	22.2
Back side	20	QPSK 50_50	20850/2510	1:1	0.795	0.339	-0.19	16.82	18.00	1.312	1.043	22.2
Back side	20	QPSK 50_25	21100/2535	1:1	0.518	0.231	0.17	16.72	18.00	1.343	0.696	22.2
Back side	20	QPSK 50_25	21350/2560	1:1	0.469	0.210	-0.09	16.65	18.00	1.365	0.640	22.2
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	21100/2535	1:1	0.537	0.245	0.02	16.69	18.00	1.352	0.726	22.2
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_50	20850/2510	1:1	0.199	0.112	0.01	21.50	22.50	1.259	0.251	22.5
Back side 21mm	20	QPSK 1_50	20850/2510	1:1	0.262	0.133	-0.06	21.50	22.50	1.259	0.330	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_50	20850/2510	1:1	0.156	0.087	0.09	20.52	21.50	1.253	0.195	22.2
Back side 21mm	20	QPSK 50_50	20850/2510	1:1	0.218	0.112	0.12	20.52	21.50	1.253	0.273	22.2
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_50	20850/2510	1:1	0.316	0.176	-0.17	16.83	18.00	1.309	0.414	22.2
Back side	20	QPSK 1_50	20850/2510	1:1	0.798	0.334	0.03	16.83	18.00	1.309	1.045	22.2
Left side	20	QPSK 1_50	20850/2510	1:1	0.145	0.066	0.12	16.83	18.00	1.309	0.190	22.2
Bottom side	20	QPSK 1_50	20850/2510	1:1	0.526	0.230	0.15	16.83	18.00	1.309	0.689	22.2
Back side	20	QPSK 1_99	21100/2535	1:1	0.583	0.250	-0.14	16.73	18.00	1.340	0.781	22.2
Back side	20	QPSK 1_50	21350/2560	1:1	0.594	0.250	0.17	16.64	18.00	1.368	0.812	22.2
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_50	20850/2510	1:1	0.300	0.165	0.00	16.82	18.00	1.312	0.394	22.2
Back side	20	QPSK 50_50	20850/2510	1:1	0.795	0.339	-0.19	16.82	18.00	1.312	1.043	22.2



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Left side	20	QPSK 50_50	20850/2510	1:1	0.136	0.059	0.17	16.82	18.00	1.312	0.178	22.2
Bottom side	20	QPSK 50_50	20850/2510	1:1	0.518	0.208	0.19	16.82	18.00	1.312	0.680	22.2
Back side	20	QPSK 50_25	21100/2535	1:1	0.518	0.231	0.17	16.72	18.00	1.343	0.696	22.2
Back side	20	QPSK 50_25	21350/2560	1:1	0.469	0.210	-0.09	16.65	18.00	1.365	0.640	22.2
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	20	QPSK 100_0	21100/2535	1:1	0.537	0.245	0.02	16.69	18.00	1.352	0.726	22.2
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Back side	20	QPSK 1_50	20850/2510	1:1	6.580	2.080	-0.18	19.55	21.00	1.396	2.904	22.1
Bottom side	20	QPSK 1_50	20850/2510	1:1	5.500	1.380	-0.11	19.55	21.00	1.396	1.927	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	6.040	1.920	-0.02	19.46	21.00	1.426	2.737	22.1
Back side	20	QPSK 1_0	21350/2560	1:1	4.650	1.480	0.01	19.26	21.00	1.493	2.209	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Back side	20	QPSK 50_50	20850/2510	1:1	6.420	2.050	0.01	19.32	21.00	1.472	3.018	22.6
Bottom side	20	QPSK 50_50	20850/2510	1:1	5.360	1.340	-0.04	19.32	21.00	1.472	1.973	22.5
Back side	20	QPSK 50_25	21100/2535	1:1	6.220	1.940	0.03	19.22	21.00	1.507	2.923	22.1
Back side	20	QPSK 50_25	21350/2560	1:1	4.590	1.530	-0.02	19.15	21.00	1.531	2.343	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Back side	20	QPSK 100_0	21100/2535	1:1	7.070	1.970	0.04	19.19	21.00	1.517	2.989	22.5
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Back side 14mm	20	QPSK 1_50	20850/2510	1:1	0.417	0.207	0.16	21.50	22.50	1.259	0.261	22.5
Bottom side 7mm	20	QPSK 1_50	20850/2510	1:1	0.908	0.377	0.10	21.50	22.50	1.259	0.475	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Back side 14mm	20	QPSK 50_50	20850/2510	1:1	0.340	0.166	-0.13	20.52	21.50	1.253	0.208	22.5
Bottom side 7mm	20	QPSK 50_50	20850/2510	1:1	0.731	0.305	0.18	20.52	21.50	1.253	0.382	22.5
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_0	20850/2510	1:1	0.170	0.090	0.02	14.87	15.50	1.156	0.197	22.3
Left tilted	20	QPSK 1_0	20850/2510	1:1	0.244	0.112	0.18	14.87	15.50	1.156	0.282	22.3
Right cheek	20	QPSK 1_0	20850/2510	1:1	0.520	0.270	-0.13	14.87	15.50	1.156	0.601	22.3
Right tilted	20	QPSK 1_0	20850/2510	1:1	0.601	0.282	0.17	14.87	15.50	1.156	0.695	22.5
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.164	0.083	0.07	14.94	15.50	1.138	0.187	22.3
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.240	0.110	-0.06	14.94	15.50	1.138	0.273	22.3
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.500	0.260	-0.05	14.94	15.50	1.138	0.569	22.3
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.595	0.278	0.14	14.94	15.50	1.138	0.677	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_50	21100/2535	1:1	0.374	0.172	0.02	16.40	17.00	1.148	0.429	22.3
Back side	20	QPSK 1_50	21100/2535	1:1	0.687	0.300	0.17	16.40	17.00	1.148	0.789	22.3
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_0	21100/2535	1:1	0.390	0.190	0.13	16.44	17.00	1.138	0.444	22.3



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Back side	20	QPSK 50_0	21100/2535	1:1	0.638	0.281	-0.08	16.44	17.00	1.138	0.726	22.3
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_0	21350/2560	1:1	0.223	0.116	0.13	21.12	22.00	1.225	0.273	22.5
Back side 19mm	20	QPSK 1_0	21350/2560	1:1	0.334	0.162	0.01	21.12	22.00	1.225	0.409	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_0	21350/2560	1:1	0.184	0.096	0.08	20.27	21.00	1.183	0.218	22.5
Back side 19mm	20	QPSK 50_0	21350/2560	1:1	0.275	0.134	0.06	20.27	21.00	1.183	0.325	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	20850/2510	1:1	0.151	0.074	-0.17	12.32	13.00	1.169	0.177	22.3
Back side	20	QPSK 1_0	20850/2510	1:1	0.307	0.123	-0.05	12.32	13.00	1.169	0.359	22.3
Left side	20	QPSK 1_0	20850/2510	1:1	0.129	0.067	-0.08	12.32	13.00	1.169	0.151	22.3
Top side	20	QPSK 1_0	20850/2510	1:1	0.340	0.129	-0.09	12.32	13.00	1.169	0.398	22.3
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_0	21100/2535	1:1	0.155	0.074	0.18	12.31	13.00	1.172	0.182	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	0.252	0.112	0.02	12.31	13.00	1.172	0.295	22.3
Left side	20	QPSK 50_0	21100/2535	1:1	0.139	0.068	-0.08	12.31	13.00	1.172	0.163	22.3
Top side	20	QPSK 50_0	21100/2535	1:1	0.371	0.145	0.13	12.31	13.00	1.172	0.435	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	20	QPSK 1_0	21350/2560	1:1	3.290	1.470	-0.19	19.87	20.50	1.156	1.699	22.5
Back side	20	QPSK 1_0	21350/2560	1:1	3.960	1.720	-0.06	19.87	20.50	1.156	1.989	22.5
Top side	20	QPSK 1_0	21350/2560	1:1	3.860	1.480	0.06	19.87	20.50	1.156	1.711	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	20	QPSK 50_0	21100/2535	1:1	3.280	1.540	-0.15	19.99	20.50	1.125	1.732	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	4.250	1.760	0.00	19.99	20.50	1.125	1.979	22.5
Top side	20	QPSK 50_0	21100/2535	1:1	4.480	1.730	-0.13	19.99	20.50	1.125	1.946	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 1_0	21350/2560	1:1	0.336	0.176	0.16	21.12	22.00	1.225	0.216	22.5
Back side 7mm	20	QPSK 1_0	21350/2560	1:1	1.170	0.510	0.19	21.12	22.00	1.225	0.625	22.5
Top side 12mm	20	QPSK 1_0	21350/2560	1:1	0.651	0.284	0.09	21.12	22.00	1.225	0.348	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 50_0	21350/2560	1:1	0.292	0.145	0.16	20.27	21.00	1.183	0.172	22.5
Back side 7mm	20	QPSK 50_0	21350/2560	1:1	0.968	0.421	-0.15	20.27	21.00	1.183	0.498	22.5
Top side 12mm	20	QPSK 50_0	21350/2560	1:1	0.536	0.233	0.04	20.27	21.00	1.183	0.276	22.5
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.102	0.054	-0.17	22.85	23.50	1.161	0.118	22.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.081	0.042	0.14	22.85	23.50	1.161	0.094	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.177	0.094	-0.06	22.85	23.50	1.161	0.206	22.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.095	0.048	0.05	22.85	23.50	1.161	0.110	22.1
Head Test Data (50%RB) ECI 2												



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Left cheek	20	QPSK 50_0	21100/2535	1:1	0.079	0.042	-0.11	21.79	22.50	1.178	0.093	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.064	0.033	-0.08	21.79	22.50	1.178	0.075	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.142	0.076	0.14	21.79	22.50	1.178	0.167	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.070	0.036	-0.12	21.79	22.50	1.178	0.082	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_0	21100/2535	1:1	0.511	0.293	-0.03	21.66	22.50	1.213	0.620	22.3
Back side	20	QPSK 1_0	21100/2535	1:1	0.860	0.391	-0.12	21.66	22.50	1.213	1.044	22.3
Back side-Repeated	20	QPSK 1_0	21100/2535	1:1	0.839	0.378	0.13	21.66	22.50	1.213	1.018	22.3
Back side	20	QPSK 1_99	20850/2510	1:1	0.789	0.363	0.18	21.45	22.50	1.274	1.005	22.3
Back side	20	QPSK 1_0	21350/2560	1:1	0.770	0.360	0.16	21.30	22.50	1.318	1.015	22.3
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_0	21100/2535	1:1	0.635	0.334	-0.10	21.59	22.50	1.233	0.783	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	0.845	0.379	0.18	21.59	22.50	1.233	1.042	22.3
Back side	20	QPSK 50_50	20850/2510	1:1	0.734	0.346	0.11	21.42	22.50	1.282	0.941	22.3
Back side	20	QPSK 50_0	21350/2560	1:1	0.715	0.337	0.17	21.17	22.50	1.358	0.971	22.3
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	21100/2535	1:1	0.837	0.368	0.00	21.56	22.50	1.242	1.039	22.3
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_0	21100/2535	1:1	0.273	0.152	0.05	22.85	23.50	1.161	0.317	22.5
Back side 19mm	20	QPSK 1_0	21100/2535	1:1	0.230	0.128	-0.17	22.85	23.50	1.161	0.267	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_0	21100/2535	1:1	0.225	0.124	-0.04	21.79	22.50	1.178	0.265	22.5
Back side 19mm	20	QPSK 50_0	21100/2535	1:1	0.198	0.106	-0.14	21.79	22.50	1.178	0.233	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	21100/2535	1:1	0.474	0.256	-0.04	20.74	21.50	1.191	0.565	22.3
Back side	20	QPSK 1_0	21100/2535	1:1	0.644	0.286	-0.18	20.74	21.50	1.191	0.767	22.3
Right side	20	QPSK 1_0	21100/2535	1:1	0.327	0.143	0.16	20.74	21.50	1.191	0.390	22.3
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.770	0.343	-0.19	20.74	21.50	1.191	0.917	22.3
Bottom side	20	QPSK 1_99	20850/2510	1:1	0.814	0.361	-0.04	20.50	21.50	1.259	1.025	22.3
Bottom side	20	QPSK 1_0	21350/2560	1:1	0.835	0.387	0.02	20.48	21.50	1.265	1.056	22.2
Bottom side-Repeated	20	QPSK 1_0	21350/2560	1:1	0.823	0.381	0.06	20.48	21.50	1.265	1.041	22.2
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_0	21100/2535	1:1	0.485	0.250	-0.06	20.72	21.50	1.197	0.580	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	0.633	0.288	0.14	20.72	21.50	1.197	0.758	22.3
Right side	20	QPSK 50_0	21100/2535	1:1	0.338	0.141	0.04	20.72	21.50	1.197	0.404	22.3
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.741	0.326	0.09	20.72	21.50	1.197	0.887	22.3
Bottom side	20	QPSK 50_25	20850/2510	1:1	0.783	0.342	-0.05	20.48	21.50	1.265	0.990	22.3
Bottom side	20	QPSK 50_25	21350/2560	1:1	0.803	0.367	0.02	20.47	21.50	1.268	1.018	22.2
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Bottom side	20	QPSK 100_0	21100/2535	1:1	0.732	0.337	0.13	20.70	21.50	1.202	0.880	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Back side	20	QPSK 1_0	21100/2535	1:1	2.630	1.140	0.09	20.74	21.50	1.191	1.358	22.5



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Bottom side	20	QPSK 1_0	21100/2535	1:1	5.550	2.140	0.06	20.74	21.50	1.191	2.549	22.1
Bottom side	20	QPSK 1_99	20850/2510	1:1	6.020	2.320	0.00	20.50	21.50	1.259	2.921	22.1
Bottom side	20	QPSK 1_0	21350/2560	1:1	5.340	2.090	-0.11	20.48	21.50	1.265	2.643	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Back side	20	QPSK 50_0	21100/2535	1:1	2.620	1.130	-0.05	20.72	21.50	1.197	1.352	22.5
Bottom side	20	QPSK 50_0	21100/2535	1:1	5.510	2.140	0.00	20.72	21.50	1.197	2.561	22.1
Bottom side	20	QPSK 50_25	20850/2510	1:1	6.040	2.330	-0.16	20.48	21.50	1.265	2.947	22.1
Bottom side-Repeated	20	QPSK 50_25	20850/2510	1:1	5.780	2.170	0.01	20.48	21.50	1.265	2.744	22.1
Bottom side	20	QPSK 50_25	21350/2560	1:1	5.220	2.050	-0.06	20.47	21.50	1.268	2.599	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Bottom side	20	QPSK 100_0	21100/2535	1:1	5.500	2.120	0.04	20.70	21.50	1.202	2.549	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Back side 12mm	20	QPSK 1_0	21100/2535	1:1	0.324	0.172	-0.07	22.85	23.50	1.161	0.200	22.5
Bottom side 9mm	20	QPSK 1_0	21100/2535	1:1	0.857	0.419	0.16	22.85	23.50	1.161	0.487	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Back side 12mm	20	QPSK 50_0	21100/2535	1:1	0.252	0.133	0.07	21.79	22.50	1.178	0.157	22.5
Bottom side 9mm	20	QPSK 50_0	21100/2535	1:1	0.677	0.332	0.12	21.79	22.50	1.178	0.391	22.5
Ant 9 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.483	0.215	-0.01	17.96	19.00	1.271	0.614	22.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.057	0.030	0.00	17.96	19.00	1.271	0.072	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.567	0.232	0.01	17.96	19.00	1.271	0.720	22.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.093	0.050	0.09	17.96	19.00	1.271	0.118	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.488	0.229	0.00	17.86	19.00	1.300	0.634	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.057	0.031	-0.15	17.86	19.00	1.300	0.074	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.549	0.229	-0.06	17.86	19.00	1.300	0.714	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.093	0.050	0.00	17.86	19.00	1.300	0.121	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_99	20850/2510	1:1	0.369	0.155	0.14	16.16	17.00	1.213	0.448	22.3
Back side	20	QPSK 1_99	20850/2510	1:1	0.544	0.223	0.13	16.16	17.00	1.213	0.660	22.3
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_0	21100/2535	1:1	0.366	0.155	0.13	16.14	17.00	1.219	0.446	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	0.536	0.217	0.02	16.14	17.00	1.219	0.653	22.3
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_0	21100/2535	1:1	0.341	0.163	-0.09	22.45	23.50	1.274	0.434	22.6
Back side 19mm	20	QPSK 1_0	21100/2535	1:1	0.399	0.186	-0.18	22.45	23.50	1.274	0.508	22.6
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_0	21100/2535	1:1	0.258	0.126	-0.13	21.39	22.50	1.291	0.333	22.6
Back side 19mm	20	QPSK 50_0	21100/2535	1:1	0.318	0.156	0.15	21.39	22.50	1.291	0.411	22.6
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	21100/2535	1:1	0.128	0.054	-0.18	9.91	11.00	1.285	0.165	22.3



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Back side	20	QPSK 1_0	21100/2535	1:1	0.184	0.068	-0.14	9.91	11.00	1.285	0.236	22.3
Left side	20	QPSK 1_99	21350/2560	1:1	0.429	0.140	0.02	9.91	11.00	1.285	0.551	22.3
Top side	20	QPSK 1_0	21100/2535	1:1	0.005	0.003	-0.04	9.91	11.00	1.285	0.006	22.3
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_0	21100/2535	1:1	0.113	0.048	0.13	9.97	11.00	1.268	0.143	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	0.166	0.067	-0.18	9.97	11.00	1.268	0.210	22.3
Left side	20	QPSK 50_0	21100/2535	1:1	0.369	0.135	-0.03	9.97	11.00	1.268	0.468	22.3
Top side	20	QPSK 50_0	21100/2535	1:1	0.005	0.002	0.12	9.97	11.00	1.268	0.006	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	20	QPSK 1_99	20850/2510	1:1	1.570	0.547	0.06	16.16	17.00	1.213	0.664	22.6
Back side	20	QPSK 1_99	20850/2510	1:1	2.270	0.804	0.06	16.16	17.00	1.213	0.976	22.6
Left side	20	QPSK 1_99	20850/2510	1:1	5.830	1.830	-0.18	16.16	17.00	1.213	2.221	22.1
Left side	20	QPSK 1_0	21100/2535	1:1	4.970	1.750	0.13	16.13	17.00	1.222	2.138	22.1
Left side	20	QPSK 1_99	21350/2560	1:1	4.700	1.660	0.17	16.03	17.00	1.250	2.075	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	20	QPSK 50_0	21100/2535	1:1	1.880	0.590	-0.04	16.14	17.00	1.219	0.719	22.6
Back side	20	QPSK 50_0	21100/2535	1:1	2.140	0.787	0.01	16.14	17.00	1.219	0.959	22.6
Left side	20	QPSK 50_0	21100/2535	1:1	4.960	1.750	-0.05	16.14	17.00	1.219	2.133	22.1
Left side	20	QPSK 50_50	20850/2510	1:1	4.930	1.740	0.01	16.13	17.00	1.222	2.126	22.1
Left side	20	QPSK 50_50	21350/2560	1:1	4.850	1.710	0.04	15.95	17.00	1.274	2.178	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Left side	20	QPSK 100_0	20850/2510	1:1	5.210	1.790	0.03	16.10	17.00	1.230	2.202	22.6
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 1_0	21100/2535	1:1	0.523	0.247	-0.11	22.45	23.50	1.274	0.315	22.6
Back side 7mm	20	QPSK 1_0	21100/2535	1:1	1.320	0.584	0.03	22.45	23.50	1.274	0.744	22.6
Left side 7mm	20	QPSK 1_0	21100/2535	1:1	3.240	1.270	-0.03	22.45	23.50	1.274	1.617	22.6
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 50_0	21100/2535	1:1	0.421	0.198	-0.10	21.39	22.50	1.291	0.256	22.6
Back side 7mm	20	QPSK 50_0	21100/2535	1:1	1.260	0.508	0.02	21.39	22.50	1.291	0.656	22.6
Left side 7mm	20	QPSK 50_0	21100/2535	1:1	2.650	1.030	-0.14	21.39	22.50	1.291	1.330	22.6

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Back side	21100/2535	0.862	0.839	1.027	N/A	N/A
Bottom side	21350/2560	0.835	0.823	1.015	N/A	N/A
Test Position	Channel/ Frequency (MHz)	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (10g)		SAR (10g)	SAR (10g)
Bottom side	20850/2510	2.330	2.17	1.074	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).



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| 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 . |
| 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg |
| 5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report. |



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10.2.8 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.140	0.102	0.19	22.59	23.50	1.233	0.173	22.3
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.083	0.061	0.03	22.59	23.50	1.233	0.102	22.3
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.117	0.084	0.04	22.59	23.50	1.233	0.144	22.3
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.069	0.051	-0.02	22.59	23.50	1.233	0.085	22.3
Head Test Data (50%RB) ECI 2												
Left cheek	10	QPSK 25_0	23060/704	1:1	0.106	0.077	0.02	21.56	22.50	1.242	0.132	22.3
Left tilted	10	QPSK 25_0	23060/704	1:1	0.062	0.046	-0.11	21.56	22.50	1.242	0.077	22.3
Right cheek	10	QPSK 25_0	23060/704	1:1	0.088	0.063	0.19	21.56	22.50	1.242	0.109	22.3
Right tilted	10	QPSK 25_0	23060/704	1:1	0.052	0.039	-0.07	21.56	22.50	1.242	0.065	22.3
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.271	0.159	-0.06	22.59	23.50	1.233	0.334	22.3
Back side	10	QPSK 1_0	23095/707.5	1:1	0.568	0.309	0.09	22.59	23.50	1.233	0.700	22.3
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	10	QPSK 25_0	23060/704	1:1	0.174	0.108	0.00	21.56	22.50	1.242	0.216	22.3
Back side	10	QPSK 25_0	23060/704	1:1	0.460	0.241	-0.11	21.56	22.50	1.242	0.571	22.3
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.271	0.159	-0.06	22.59	23.50	1.233	0.334	22.3
Back side	10	QPSK 1_0	23095/707.5	1:1	0.568	0.309	0.09	22.59	23.50	1.233	0.700	22.3
Left side	10	QPSK 1_0	23095/707.5	1:1	0.448	0.288	-0.11	22.59	23.50	1.233	0.552	22.3
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.448	0.210	0.12	22.59	23.50	1.233	0.552	22.3
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	10	QPSK 25_0	23060/704	1:1	0.174	0.108	0.00	21.56	22.50	1.242	0.216	22.3
Back side	10	QPSK 25_0	23060/704	1:1	0.460	0.241	-0.11	21.56	22.50	1.242	0.571	22.3
Left side	10	QPSK 25_0	23060/704	1:1	0.381	0.243	0.02	21.56	22.50	1.242	0.473	22.3
Bottom side	10	QPSK 25_0	23060/704	1:1	0.337	0.158	-0.05	21.56	22.50	1.242	0.418	22.3
Ant 1 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	10	QPSK 1_0	23130/711	1:1	0.312	0.195	-0.16	21.84	22.50	1.164	0.363	22.1
Left tilted	10	QPSK 1_0	23130/711	1:1	0.330	0.196	0.10	21.84	22.50	1.164	0.384	22.1
Right cheek	10	QPSK 1_0	23130/711	1:1	0.448	0.232	0.07	21.84	22.50	1.164	0.522	22.1
Right tilted	10	QPSK 1_0	23130/711	1:1	0.526	0.246	-0.03	21.84	22.50	1.164	0.612	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	10	QPSK 25_0	23060/704	1:1	0.239	0.150	0.00	20.81	21.50	1.172	0.280	22.1
Left tilted	10	QPSK 25_0	23060/704	1:1	0.256	0.152	0.00	20.81	21.50	1.172	0.300	22.1



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Right cheek	10	QPSK 25_0	23060/704	1:1	0.355	0.190	-0.14	20.81	21.50	1.172	0.416	22.1
Right tilted	10	QPSK 25_0	23060/704	1:1	0.372	0.202	-0.08	20.81	21.50	1.172	0.436	22.1
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	10	QPSK 1_0	23130/711	1:1	0.164	0.104	0.08	21.84	22.50	1.164	0.191	22.3
Back side	10	QPSK 1_0	23130/711	1:1	0.219	0.134	-0.06	21.84	22.50	1.164	0.255	22.3
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	10	QPSK 25_0	23060/704	1:1	0.124	0.079	-0.03	20.81	21.50	1.172	0.145	22.3
Back side	10	QPSK 25_0	23060/704	1:1	0.211	0.122	0.13	20.81	21.50	1.172	0.247	22.3
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	10	QPSK 1_0	23130/711	1:1	0.164	0.104	0.08	21.84	22.50	1.164	0.191	22.3
Back side	10	QPSK 1_0	23130/711	1:1	0.219	0.134	-0.06	21.84	22.50	1.164	0.255	22.3
Left side	10	QPSK 1_0	23130/711	1:1	0.090	0.058	0.10	21.84	22.50	1.164	0.105	22.3
Top side	10	QPSK 1_0	23130/711	1:1	0.237	0.103	0.16	21.84	22.50	1.164	0.276	22.3
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	10	QPSK 25_0	23060/704	1:1	0.124	0.079	-0.03	20.81	21.50	1.172	0.145	22.3
Back side	10	QPSK 25_0	23060/704	1:1	0.211	0.122	0.13	20.81	21.50	1.172	0.247	22.3
Left side	10	QPSK 25_0	23060/704	1:1	0.069	0.044	0.12	20.81	21.50	1.172	0.081	22.3
Top side	10	QPSK 25_0	23060/704	1:1	0.187	0.081	0.03	20.81	21.50	1.172	0.219	22.3



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10.2.9 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record												
Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) ECI 2												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.143	0.103	0.06	22.53	23.50	1.250	0.179	22.3
Left tilted	10	QPSK 1_0	23230/782	1:1	0.099	0.073	-0.11	22.53	23.50	1.250	0.124	22.3
Right cheek	10	QPSK 1_0	23230/782	1:1	0.129	0.093	0.08	22.53	23.50	1.250	0.161	22.3
Right tilted	10	QPSK 1_0	23230/782	1:1	0.078	0.058	0.17	22.53	23.50	1.250	0.098	22.3
Head Test Data (50%RB) ECI 2												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.114	0.082	0.01	21.49	22.50	1.262	0.144	22.3
Left tilted	10	QPSK 25_0	23230/782	1:1	0.079	0.057	0.11	21.49	22.50	1.262	0.100	22.3
Right cheek	10	QPSK 25_0	23230/782	1:1	0.101	0.072	-0.19	21.49	22.50	1.262	0.127	22.3
Right tilted	10	QPSK 25_0	23230/782	1:1	0.060	0.044	0.04	21.49	22.50	1.262	0.076	22.3
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	10	QPSK 1_0	23230/782	1:1	0.284	0.176	0.06	22.53	23.50	1.250	0.355	22.3
Back side	10	QPSK 1_0	23230/782	1:1	0.686	0.378	0.07	22.53	23.50	1.250	0.858	22.3
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	10	QPSK 25_0	23230/782	1:1	0.217	0.135	0.03	21.49	22.50	1.262	0.274	22.3
Back side	10	QPSK 25_0	23230/782	1:1	0.522	0.289	-0.13	21.49	22.50	1.262	0.659	22.3
Body worn Test data (Separate 5mm 100%RB) ECI 3												
Back side	10	QPSK 50_0	23230/782	1:1	0.516	0.285	0.14	21.47	22.50	1.268	0.654	22.3
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	10	QPSK 1_0	23230/782	1:1	0.284	0.176	0.06	22.53	23.50	1.250	0.355	22.3
Back side	10	QPSK 1_0	23230/782	1:1	0.686	0.378	0.07	22.53	23.50	1.250	0.858	22.3
Left side	10	QPSK 1_0	23230/782	1:1	0.363	0.235	0.02	22.53	23.50	1.250	0.454	22.3
Bottom side	10	QPSK 1_0	23230/782	1:1	0.391	0.214	0.13	22.53	23.50	1.250	0.489	22.3
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	10	QPSK 25_0	23230/782	1:1	0.217	0.135	0.03	21.49	22.50	1.262	0.274	22.3
Back side	10	QPSK 25_0	23230/782	1:1	0.522	0.289	-0.13	21.49	22.50	1.262	0.659	22.3
Left side	10	QPSK 25_0	23230/782	1:1	0.294	0.188	-0.05	21.49	22.50	1.262	0.371	22.3
Bottom side	10	QPSK 25_0	23230/782	1:1	0.303	0.165	-0.07	21.49	22.50	1.262	0.382	22.3
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	10	QPSK 50_0	23230/782	1:1	0.516	0.285	0.14	21.47	22.50	1.268	0.654	22.3
Ant 1 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) ECI 2												
Left cheek	10	QPSK 1_49	23230/782	1:1	0.437	0.293	0.12	22.55	23.50	1.245	0.544	22.1
Left tilted	10	QPSK 1_49	23230/782	1:1	0.423	0.262	-0.01	22.55	23.50	1.245	0.526	22.1
Right cheek	10	QPSK 1_49	23230/782	1:1	0.590	0.343	-0.04	22.55	23.50	1.245	0.734	22.1
Right tilted	10	QPSK 1_49	23230/782	1:1	0.493	0.270	0.15	22.55	23.50	1.245	0.614	22.1



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Head Test Data (50%RB) ECI 2												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.352	0.233	0.18	21.78	22.50	1.180	0.415	22.1
Left tilted	10	QPSK 25_0	23230/782	1:1	0.340	0.209	0.10	21.78	22.50	1.180	0.401	22.1
Right cheek	10	QPSK 25_0	23230/782	1:1	0.613	0.352	0.14	21.78	22.50	1.180	0.724	22.1
Right tilted	10	QPSK 25_0	23230/782	1:1	0.400	0.219	0.19	21.78	22.50	1.180	0.472	22.1
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	10	QPSK 1_49	23230/782	1:1	0.257	0.159	0.00	22.55	23.50	1.245	0.320	22.3
Back side	10	QPSK 1_49	23230/782	1:1	0.397	0.228	0.18	22.55	23.50	1.245	0.494	22.3
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	10	QPSK 25_0	23230/782	1:1	0.197	0.121	0.04	21.78	22.50	1.180	0.233	22.3
Back side	10	QPSK 25_0	23230/782	1:1	0.298	0.179	0.18	21.78	22.50	1.180	0.352	22.3
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	10	QPSK 1_49	23230/782	1:1	0.257	0.159	0.00	22.55	23.50	1.245	0.320	22.3
Back side	10	QPSK 1_49	23230/782	1:1	0.397	0.228	0.18	22.55	23.50	1.245	0.494	22.3
Left side	10	QPSK 1_49	23230/782	1:1	0.135	0.086	0.08	22.55	23.50	1.245	0.168	22.3
Top side	10	QPSK 1_49	23230/782	1:1	0.376	0.170	0.03	22.55	23.50	1.245	0.468	22.3
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	10	QPSK 25_0	23230/782	1:1	0.197	0.121	0.04	21.78	22.50	1.180	0.233	22.3
Back side	10	QPSK 25_0	23230/782	1:1	0.298	0.179	0.18	21.78	22.50	1.180	0.352	22.3
Left side	10	QPSK 25_0	23230/782	1:1	0.109	0.069	0.16	21.78	22.50	1.180	0.129	22.3
Top side	10	QPSK 25_0	23230/782	1:1	0.325	0.141	0.10	21.78	22.50	1.180	0.384	22.3



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10.2.10 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	15	QPSK 1_0	26765/821.5	1:1	0.179	0.128	-0.07	22.37	23.50	1.297	0.232	22.3
Left tilted	15	QPSK 1_0	26765/821.5	1:1	0.104	0.076	0.15	22.37	23.50	1.297	0.135	22.3
Right cheek	15	QPSK 1_0	26765/821.5	1:1	0.156	0.110	0.19	22.37	23.50	1.297	0.202	22.3
Right tilted	15	QPSK 1_0	26765/821.5	1:1	0.085	0.063	0.11	22.37	23.50	1.297	0.110	22.3
Left cheek with Sample2	15	QPSK 1_0	26765/821.5	1:1	0.158	0.122	-0.03	22.37	23.50	1.297	0.205	22.3
Head Test Data (50%RB) ECI 2												
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.166	0.118	0.15	21.35	22.50	1.303	0.216	22.3
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.097	0.071	-0.03	21.35	22.50	1.303	0.126	22.3
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.105	0.075	-0.04	21.35	22.50	1.303	0.137	22.3
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.075	0.056	0.03	21.35	22.50	1.303	0.098	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	15	QPSK 1_0	26765/821.5	1:1	0.371	0.221	-0.14	20.77	22.00	1.327	0.492	22.3
Back side	15	QPSK 1_0	26765/821.5	1:1	0.814	0.437	0.09	20.77	22.00	1.327	1.080	22.3
Back side	15	QPSK 1_38	26865/831.5	1:1	0.864	0.482	-0.04	20.67	22.00	1.358	1.174	22.3
Back side-Repeated	15	QPSK 1_38	26865/831.5	1:1	0.838	0.465	-0.02	20.67	22.00	1.358	1.138	22.3
Back side with Sample2	15	QPSK 1_38	26865/831.5	1:1	0.847	0.470	-0.06	20.67	22.00	1.358	1.150	22.3
Back side	15	QPSK 1_0	26965/841.5	1:1	0.850	0.473	-0.12	20.74	22.00	1.337	1.136	22.3
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.420	0.250	-0.07	20.93	22.00	1.279	0.537	22.3
Back side	15	QPSK 36_0	26865/831.5	1:1	0.849	0.476	-0.11	20.93	22.00	1.279	1.086	22.3
Back side	15	QPSK 36_0	26765/821.5	1:1	0.720	0.407	0.10	20.90	22.00	1.288	0.928	22.3
Back side	15	QPSK 36_0	26965/841.5	1:1	0.820	0.464	-0.08	20.63	22.00	1.371	1.124	22.3
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	15	QPSK 75_0	26765/821.5	1:1	0.713	0.402	0.05	20.93	22.00	1.279	0.912	22.3
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	15	QPSK 1_0	26765/821.5	1:1	0.131	0.095	-0.03	22.37	23.50	1.297	0.170	22.6
Back side 21mm	15	QPSK 1_0	26765/821.5	1:1	0.119	0.076	-0.10	22.37	23.50	1.297	0.154	22.6
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	15	QPSK 36_0	26865/831.5	1:1	0.126	0.092	-0.14	21.35	22.50	1.303	0.164	22.6
Back side 21mm	15	QPSK 36_0	26865/831.5	1:1	0.101	0.065	-0.14	21.35	22.50	1.303	0.132	22.6
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	15	QPSK 1_0	26765/821.5	1:1	0.371	0.221	-0.16	20.77	22.00	1.327	0.492	22.3
Back side	15	QPSK 1_0	26765/821.5	1:1	0.814	0.437	-0.02	20.77	22.00	1.327	1.080	22.3
Left side	15	QPSK 1_0	26765/821.5	1:1	0.321	0.204	0.17	20.77	22.00	1.327	0.426	22.3
Bottom side	15	QPSK 1_0	26765/821.5	1:1	0.536	0.284	-0.05	20.77	22.00	1.327	0.711	22.3
Back side	15	QPSK 1_38	26865/831.5	1:1	0.864	0.482	-0.04	20.67	22.00	1.358	1.174	22.2
Back side-Repeated	15	QPSK 1_38	26865/831.5	1:1	0.838	0.465	0.18	20.67	22.00	1.358	1.138	22.3



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Back side with Sample2	15	QPSK 1_38	26865/831.5	1:1	0.847	0.470	-0.02	20.67	22.00	1.358	1.150	22.3
Back side	15	QPSK 1_0	26965/841.5	1:1	0.850	0.473	-0.08	20.74	22.00	1.337	1.136	22.3
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.420	0.250	-0.18	20.93	22.00	1.279	0.537	22.3
Back side	15	QPSK 36_0	26865/831.5	1:1	0.849	0.476	-0.17	20.93	22.00	1.279	1.086	22.3
Left side	15	QPSK 36_0	26865/831.5	1:1	0.284	0.190	0.03	20.93	22.00	1.279	0.363	22.3
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.474	0.265	0.11	20.93	22.00	1.279	0.606	22.3
Back side	15	QPSK 36_0	26765/821.5	1:1	0.720	0.407	0.15	20.90	22.00	1.288	0.928	22.3
Back side	15	QPSK 36_0	26965/841.5	1:1	0.820	0.464	-0.03	20.63	22.00	1.371	1.124	22.3
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	15	QPSK 75_0	26765/821.5	1:1	0.713	0.402		20.93	22.00	1.279	0.912	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Back side	15	QPSK 1_0	26765/821.5	1:1	3.970	1.820	0.02	20.77	22.00	1.327	2.416	22.3
Back side	15	QPSK 1_38	26865/831.5	1:1	3.750	1.750	-0.02	20.67	22.00	1.358	2.377	22.3
Back side	15	QPSK 1_0	26965/841.5	1:1	3.690	1.720	-0.04	20.74	22.00	1.337	2.299	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Back side	15	QPSK 36_0	26865/831.5	1:1	3.630	1.530	0.15	20.93	22.00	1.279	1.957	22.3
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Back side	15	QPSK 75_0	26765/821.5	1:1	3.780	1.730	0.04	20.93	22.00	1.279	2.213	22.3
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Back side 14mm	15	QPSK 1_0	26765/821.5	1:1	0.247	0.156	-0.07	22.37	23.50	1.297	0.202	22.6
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Back side 14mm	15	QPSK 36_0	26865/831.5	1:1	0.216	0.136	0.05	21.35	22.50	1.303	0.177	22.6
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.430	0.280	-0.17	19.07	20.00	1.239	0.533	22.1
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.400	0.240	-0.15	19.07	20.00	1.239	0.496	22.1
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.624	0.351	-0.02	19.07	20.00	1.239	0.773	22.2
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.560	0.290	0.18	19.07	20.00	1.239	0.694	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	15	QPSK 36_39	26865/831.5	1:1	0.340	0.230	0.12	19.09	20.00	1.233	0.419	22.1
Left tilted	15	QPSK 36_39	26865/831.5	1:1	0.310	0.200	0.00	19.09	20.00	1.233	0.382	22.1
Right cheek	15	QPSK 36_39	26865/831.5	1:1	0.500	0.300	-0.18	19.09	20.00	1.233	0.617	22.1
Right tilted	15	QPSK 36_39	26865/831.5	1:1	0.450	0.250	0.14	19.09	20.00	1.233	0.555	22.1
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.426	0.260	-0.13	21.67	22.50	1.211	0.516	22.3
Back side	15	QPSK 1_0	26865/831.5	1:1	0.567	0.348	-0.03	21.67	22.50	1.211	0.686	22.3
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	15	QPSK 36_39	26865/831.5	1:1	0.307	0.188	0.13	20.62	21.50	1.225	0.376	22.3
Back side	15	QPSK 36_39	26865/831.5	1:1	0.408	0.246	-0.15	20.62	21.50	1.225	0.500	22.3



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Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.320	0.200	-0.14	20.26	21.00	1.186	0.379	22.3
Back side	15	QPSK 1_0	26865/831.5	1:1	0.386	0.234	0.03	20.26	21.00	1.186	0.458	22.3
Left side	15	QPSK 1_0	26865/831.5	1:1	0.100	0.050	0.13	20.26	21.00	1.186	0.119	22.3
Top side	15	QPSK 1_0	26865/831.5	1:1	0.383	0.200	-0.19	20.26	21.00	1.186	0.454	22.3
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	15	QPSK 36_39	26865/831.5	1:1	0.270	0.160	0.06	20.13	21.00	1.222	0.330	22.3
Back side	15	QPSK 36_39	26865/831.5	1:1	0.365	0.210	-0.09	20.13	21.00	1.222	0.446	22.3
Left side	15	QPSK 36_39	26865/831.5	1:1	0.090	0.050	0.06	20.13	21.00	1.222	0.110	22.3
Top side	15	QPSK 36_39	26865/831.5	1:1	0.362	0.160	-0.13	20.13	21.00	1.222	0.442	22.3

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	26865/831.5	0.864	0.838	1.031	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.11 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_50	40620/2593	1:1.58	0.035	0.019	-0.11	20.88	22.00	1.294	0.045	22.3
Left tilted	20	QPSK 1_50	40620/2593	1:1.58	0.008	0.004	0.15	20.88	22.00	1.294	0.010	22.3
Right cheek	20	QPSK 1_50	40620/2593	1:1.58	0.022	0.013	-0.06	20.88	22.00	1.294	0.028	22.3
Right tilted	20	QPSK 1_50	40620/2593	1:1.58	0.004	0.002	-0.14	20.88	22.00	1.294	0.005	22.3
Left cheek with HPUE	20	QPSK 1_50	40620/2593	1:2.31	0.044	0.023	0.18	23.84	24.50	1.164	0.051	22.3
Left cheek	20	QPSK 1_99	40620/2593	1:1.58	0.033	0.018	0.19	20.93	22.00	1.279	0.042	22.3
		SCC QPSK 1_0	40818/2612.8									
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.027	0.014	-0.08	19.80	21.00	1.318	0.036	22.3
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.003	0.001	-0.05	19.80	21.00	1.318	0.004	22.3
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.014	0.007	-0.13	19.80	21.00	1.318	0.018	22.3
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.002	0.001	0.18	19.80	21.00	1.318	0.003	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.170	0.073	-0.05	18.83	19.50	1.167	0.198	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.628	0.198	-0.08	18.83	19.50	1.167	0.733	22.1
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.821	0.296	-0.06	18.76	19.50	1.186	0.974	22.1
Back side	20	QPSK 1_99	40185/2549.5	1:1.58	0.609	0.215	-0.13	18.77	19.50	1.183	0.720	22.1
Back side	20	QPSK 1_99	41055/2636.5	1:1.58	0.721	0.253	-0.04	18.55	19.50	1.245	0.897	22.1
Back side	20	QPSK 1_99	41490/2680	1:1.58	0.945	0.338	0.01	18.61	19.50	1.227	1.160	22.6
Back side-Repeated	20	QPSK 1_99	41490/2680	1:1.58	0.927	0.331	0.03	18.61	19.50	1.227	1.138	22.6
Back side with HPUE	20	QPSK 1_99	41490/2680	1:2.31	0.897	0.352	0.08	20.38	21.00	1.153	1.035	22.1
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.911	0.319	0.17	18.46	19.50	1.271	1.157	22.3
		SCC QPSK 1_99	41292/2660.2									
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.154	0.078	0.04	18.85	19.50	1.161	0.179	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.562	0.198	-0.11	18.85	19.50	1.161	0.653	22.1
Back side	20	QPSK 50_50	39750/2506	1:1.58	0.736	0.295	0.19	18.75	19.50	1.189	0.875	22.1
Back side	20	QPSK 50_25	40185/2549.5	1:1.58	0.583	0.229	0.12	18.80	19.50	1.175	0.685	22.1
Back side	20	QPSK 50_50	41055/2636.5	1:1.58	0.640	0.251	0.06	18.43	19.50	1.279	0.819	22.1
Back side	20	QPSK 50_25	41490/2680	1:1.58	0.864	0.341	0.10	18.51	19.50	1.256	1.085	22.1
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	40620/2593	1:1.58	0.547	0.183	-0.16	18.83	19.50	1.167	0.638	22.1
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_50	40620/2593	1:1.58	0.114	0.059	0.06	20.88	22.00	1.294	0.148	22.1
Back side 21mm	20	QPSK 1_50	40620/2593	1:1.58	0.045	0.023	-0.09	20.88	22.00	1.294	0.058	22.1
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_0	40620/2593	1:1.58	0.091	0.048	0.11	19.80	21.00	1.318	0.120	22.1



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Back side 21mm	20	QPSK 50_0	40620/2593	1:1.58	0.046	0.024	-0.18	19.80	21.00	1.318	0.061	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.170	0.073	-0.05	18.83	19.50	1.167	0.198	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.628	0.198	-0.08	18.83	19.50	1.167	0.733	22.1
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.085	0.033	0.18	18.83	19.50	1.167	0.099	22.1
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.369	0.116	-0.09	18.83	19.50	1.167	0.431	22.1
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.821	0.296	-0.06	18.76	19.50	1.186	0.974	22.1
Back side	20	QPSK 1_99	40185/2549.5	1:1.58	0.609	0.215	-0.13	18.77	19.50	1.183	0.720	22.1
Back side	20	QPSK 1_99	41055/2636.5	1:1.58	0.721	0.253	-0.04	18.61	19.50	1.227	0.885	22.1
Back side	20	QPSK 1_99	41490/2680	1:1.58	0.945	0.338	0.01	18.61	19.50	1.227	1.160	22.6
Back side with HPUE	20	QPSK 1_99	41490/2680	1:2.31	0.897	0.352	0.08	20.38	21.00	1.153	1.035	22.1
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.911	0.319	0.17	18.46	19.50	1.271	1.157	22.3
		SCC QPSK 1_99	41292/2660.2									
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.154	0.078	0.04	18.85	19.50	1.161	0.179	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.562	0.198	-0.11	18.85	19.50	1.161	0.653	22.1
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.076	0.033	-0.14	18.85	19.50	1.161	0.088	22.1
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.338	0.118	-0.10	18.85	19.50	1.161	0.393	22.1
Back side	20	QPSK 50_50	39750/2506	1:1.58	0.736	0.295	0.19	18.75	19.50	1.189	0.875	22.1
Back side	20	QPSK 50_25	40185/2549.5	1:1.58	0.583	0.229	0.12	18.80	19.50	1.175	0.685	22.1
Back side	20	QPSK 50_50	41055/2636.5	1:1.58	0.640	0.251	0.06	18.43	19.50	1.279	0.819	22.1
Back side	20	QPSK 50_25	41490/2680	1:1.58	0.864	0.341	0.10	18.51	19.50	1.256	1.085	22.1
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	20	QPSK 100_0	40620/2593	1:1.58	0.547	0.183	-0.16	18.83	19.50	1.167	0.638	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 6												
Back side	20	QPSK 1_50	40620/2593	1:1.58	2.590	1.020	-0.05	20.88	22.00	1.294	1.320	22.1
Back side with HPUE	20	QPSK 1_50	40620/2593	1:2.31	2.880	1.280	0.08	23.84	24.50	1.164	1.490	22.1
Back side	20	QPSK 1_99	40620/2593	1:1.58	2.480	0.993	-0.03	20.93	22.00	1.279	1.270	22.3
		SCC QPSK 1_0	40818/2612.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 6												
Back side	20	QPSK 50_0	40620/2593	1:1.58	2.090	0.812	0.02	19.80	21.00	1.318	1.070	22.1
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.145	0.072	-0.08	16.86	17.50	1.159	0.168	22.1
Left tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.211	0.100	0.17	16.86	17.50	1.159	0.245	22.1
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.456	0.238	-0.03	16.86	17.50	1.159	0.528	22.1
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.581	0.248	0.11	16.86	17.50	1.159	0.673	22.1
Right tilted	20	QPSK 1_99	39750/2506	1:1.58	0.599	0.258	0.02	16.81	17.50	1.172	0.702	22.6
Right tilted	20	QPSK 1_50	40620/2593	1:1.58	0.553	0.242	0.09	16.85	17.50	1.161	0.642	22.1



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Right tilted	20	QPSK 1_50	41055/2636.5	1:1.58	0.406	0.179	0.04	16.56	17.50	1.242	0.504	22.1
Right tilted	20	QPSK 1_99	41490/2680	1:1.58	0.431	0.195	0.18	16.54	17.50	1.247	0.538	22.1
Right tilted with HPUE	20	QPSK 1_0	39750/2506	1:2.31	0.559	0.248	-0.04	18.57	19.50	1.239	0.692	22.1
Right tilted	20	PCC QPSK 1_99	39750/2506	1:1.58	0.574	0.242	-0.07	16.89	17.50	1.151	0.661	22.3
		SCC QPSK 1_0	39948/2525.8									
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	40185/2549.5	1:1.58	0.131	0.065	-0.07	16.88	17.50	1.153	0.151	22.1
Left tilted	20	QPSK 50_50	40185/2549.5	1:1.58	0.195	0.092	-0.17	16.88	17.50	1.153	0.225	22.1
Right cheek	20	QPSK 50_50	40185/2549.5	1:1.58	0.420	0.218	-0.01	16.88	17.50	1.153	0.484	22.1
Right tilted	20	QPSK 50_50	40185/2549.5	1:1.58	0.534	0.229	0.16	16.88	17.50	1.153	0.616	22.1
Right tilted	20	QPSK 50_50	39750/2506	1:1.58	0.534	0.229	-0.15	16.83	17.50	1.167	0.623	22.1
Right tilted	20	QPSK 50_25	40620/2593	1:1.58	0.501	0.221	0.12	16.87	17.50	1.156	0.579	22.1
Right tilted	20	QPSK 50_50	41055/2636.5	1:1.58	0.364	0.161	0.04	16.53	17.50	1.250	0.455	22.1
Right tilted	20	QPSK 50_50	41490/2680	1:1.58	0.395	0.178	0.15	16.55	17.50	1.245	0.492	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.466	0.209	-0.12	18.88	19.50	1.153	0.538	22.1
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.656	0.279	0.04	18.88	19.50	1.153	0.757	22.1
Back side	20	QPSK 1_99	40185/2549.5	1:1.58	0.411	0.192	-0.14	18.86	19.50	1.159	0.476	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.608	0.249	-0.11	18.86	19.50	1.159	0.705	22.1
Back side	20	QPSK 1_99	41055/2636.5	1:1.58	0.411	0.173	-0.16	18.48	19.50	1.265	0.520	22.1
Back side	20	QPSK 1_99	41490/2680	1:1.58	0.437	0.186	0.11	18.58	19.50	1.236	0.540	22.1
Back side with HPUE	20	QPSK 1_99	39750/2506	1:2.31	0.525	0.220	0.19	19.59	20.50	1.233	0.647	22.1
Back side	20	PCC QPSK 1_99	39750/2506	1:1.58	0.627	0.258	0.01	18.88	19.50	1.153	0.723	22.3
		SCC QPSK 1_0	39948/2525.8									
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.263	0.139	0.09	18.93	19.50	1.140	0.300	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.556	0.243	-0.18	18.93	19.50	1.140	0.634	22.1
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.630	0.262	-0.16	18.73	19.50	1.194	0.752	22.1
Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.579	0.238	0.02	18.76	19.50	1.186	0.687	22.1
Back side	20	QPSK 50_25	41055/2636.5	1:1.58	0.389	0.163	-0.16	18.51	19.50	1.256	0.489	22.1
Back side	20	QPSK 50_25	41490/2680	1:1.58	0.422	0.179	0.00	18.55	19.50	1.245	0.525	22.1
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_50	40185/2549.5	1:1.58	0.115	0.061	-0.02	21.09	22.00	1.233	0.142	22.1
Back side 19mm	20	QPSK 1_50	40185/2549.5	1:1.58	0.118	0.061	-0.14	21.09	22.00	1.233	0.146	22.1
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_0	40185/2549.5	1:1.58	0.042	0.023	0.09	20.02	21.00	1.253	0.053	22.1
Back side 19mm	20	QPSK 50_0	40185/2549.5	1:1.58	0.062	0.031	-0.19	20.02	21.00	1.253	0.078	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.174	0.089	0.09	14.91	15.50	1.146	0.199	22.1
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.231	0.118	0.15	14.91	15.50	1.146	0.265	22.1
Left side	20	QPSK 1_99	39750/2506	1:1.58	0.185	0.094	-0.02	14.91	15.50	1.146	0.212	22.1
Top side	20	QPSK 1_99	39750/2506	1:1.58	0.454	0.174	-0.05	14.91	15.50	1.146	0.520	22.1
Top side with HPUE	20	QPSK 1_99	39750/2506	1:2.31	0.429	0.163	-0.19	16.68	17.50	1.208	0.518	22.1
Top side	20	PCC QPSK 1_99	39750/2506	1:1.58	0.427	0.166	0.04	14.89	15.50	1.151	0.491	22.3



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		SCC QPSK 1_0	39948/2525.8									
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.132	0.070	0.13	14.92	15.50	1.143	0.151	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.259	0.122	0.02	14.92	15.50	1.143	0.296	22.1
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.149	0.074	0.05	14.92	15.50	1.143	0.170	22.1
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.369	0.138	0.04	14.92	15.50	1.143	0.422	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Top side	20	QPSK 1_99	39750/2506	1:1.58	3.410	1.460	-0.08	19.47	20.00	1.130	1.650	22.1
Top side with HPUE	20	QPSK 1_99	39750/2506	1:2.31	3.440	1.510	0.05	21.19	22.00	1.205	1.820	22.1
Top side	20	PCC QPSK 1_99	39750/2506	1:1.58	3.320	1.400	0.11	19.43	20.00	1.140	1.596	22.3
		SCC QPSK 1_0	39948/2525.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Top side	20	QPSK 50_0	39750/2506	1:1.58	2.530	0.872	0.10	19.44	20.00	1.138	0.992	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Top side 12mm	20	QPSK 1_50	40185/2549.5	1:1.58	0.401	0.185	0.05	21.09	22.00	1.233	0.228	22.1
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Top side 12mm	20	QPSK 50_0	40185/2549.5	1:1.58	0.324	0.150	0.12	20.02	21.00	1.253	0.188	22.1
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_50	40620/2593	1:1.58	0.060	0.034	-0.09	22.74	23.50	1.191	0.071	22.1
Left tilted	20	QPSK 1_50	40620/2593	1:1.58	0.044	0.023	-0.14	22.74	23.50	1.191	0.052	22.1
Right cheek	20	QPSK 1_50	40620/2593	1:1.58	0.094	0.050	-0.16	22.74	23.50	1.191	0.112	22.1
Right tilted	20	QPSK 1_50	40620/2593	1:1.58	0.040	0.020	-0.01	22.74	23.50	1.191	0.048	22.1
Right cheek with HPUE	20	QPSK 1_99	40620/2593	1:2.31	0.126	0.066	0.05	25.86	26.50	1.159	0.146	22.1
Right cheek	20	QPSK 1_99	40620/2593	1:1.58	0.097	0.052	-0.12	22.51	23.50	1.256	0.122	22.3
		SCC QPSK 1_0	40818/2612.8									
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.048	0.027	-0.02	21.74	22.50	1.191	0.057	22.1
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.036	0.011	-0.14	21.74	22.50	1.191	0.043	22.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.079	0.042	-0.17	21.74	22.50	1.191	0.094	22.1
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.021	0.007	0.11	21.74	22.50	1.191	0.025	22.1
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	20	QPSK 1_50	40620/2593	1:1.58	0.464	0.251	0.14	22.74	23.50	1.191	0.553	22.1
Back side	20	QPSK 1_50	40620/2593	1:1.58	0.561	0.278	-0.17	22.74	23.50	1.191	0.668	22.1
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.643	0.324	0.03	22.53	23.50	1.250	0.804	22.1
Back side	20	QPSK 1_99	40185/2549.5	1:1.58	0.570	0.285	0.15	22.62	23.50	1.225	0.698	22.1
Back side	20	QPSK 1_50	41055/2636.5	1:1.58	0.484	0.246	0.01	22.60	23.50	1.230	0.595	22.1
Back side	20	QPSK 1_99	41490/2680	1:1.58	0.483	0.224	-0.05	22.53	23.50	1.250	0.604	22.1
Back side with HPUE	20	QPSK 1_99	39750/2506	1:2.31	0.794	0.415	-0.18	25.51	26.50	1.256	0.997	22.1
Back side	20	PCC QPSK 1_99	39750/2506	1:1.58	0.651	0.328	0.16	22.65	23.50	1.216	0.792	22.3
		SCC QPSK 1_0	39948/2525.8									



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Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.388	0.197	0.15	21.74	22.50	1.191	0.462	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.412	0.218	0.07	21.74	22.50	1.191	0.491	22.1
Body worn Test data (Separate 5mm 100%RB) ECI 3												
Back side	20	QPSK 100_0	40620/2593	1:1.58	0.423	0.221	0.07	21.74	22.50	1.191	0.504	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_50	40620/2593	1:1.58	0.414	0.224	0.06	22.36	23.00	1.159	0.480	22.1
Back side	20	QPSK 1_50	40620/2593	1:1.58	0.500	0.248	0.19	22.36	23.00	1.159	0.579	22.1
Right side	20	QPSK 1_50	40620/2593	1:1.58	0.094	0.048	0.09	22.36	23.00	1.159	0.109	22.1
Bottom side	20	QPSK 1_50	40620/2593	1:1.58	0.863	0.398	0.17	22.36	23.00	1.159	1.000	22.1
Bottom side	20	QPSK 1_99	39750/2506	1:1.58	0.616	0.291	0.00	22.27	23.00	1.183	0.729	22.1
Bottom side	20	QPSK 1_99	40185/2549.5	1:1.58	0.589	0.266	-0.06	22.23	23.00	1.194	0.703	22.1
Bottom side	20	QPSK 1_50	41055/2636.5	1:1.58	0.783	0.340	0.12	22.18	23.00	1.208	0.946	22.1
Bottom side	20	QPSK 1_99	41490/2680	1:1.58	0.958	0.420	0.12	22.18	23.00	1.208	1.157	22.1
Bottom side-Repeated	20	QPSK 1_99	41490/2680	1:1.58	0.939	0.411	0.16	22.18	23.00	1.208	1.134	22.1
Bottom side with HPUE	20	QPSK 1_99	41490/2680	1:2.31	0.897	0.391	-0.01	23.94	25.00	1.276	1.145	22.1
Bottom side	20	QPSK 1_0	41490/2680	1:1.58	0.912	0.401	0.14	21.98	23.00	1.265	1.153	22.3
		SCC QPSK 1_99	41292/2660.2									
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.388	0.197	0.15	21.78	22.50	1.180	0.458	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.412	0.218	0.07	21.78	22.50	1.180	0.486	22.1
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.082	0.042	-0.03	21.78	22.50	1.180	0.097	22.1
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.766	0.353	0.18	21.78	22.50	1.180	0.904	22.1
Bottom side	20	QPSK 50_50	39750/2506	1:1.58	0.567	0.267	0.07	21.49	22.50	1.262	0.715	22.1
Bottom side	20	QPSK 50_50	40185/2549.5	1:1.58	0.548	0.247	0.03	21.55	22.50	1.245	0.682	22.1
Bottom side	20	QPSK 50_25	41055/2636.5	1:1.58	0.718	0.313	0.17	21.36	22.50	1.300	0.934	22.1
Bottom side	20	QPSK 50_25	41490/2680	1:1.58	0.795	0.338	-0.02	21.41	22.50	1.285	1.022	22.1
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Bottom side	20	QPSK 100_0	40620/2593	1:1.58	0.751	0.347	0.04	21.74	22.50	1.191	0.895	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 6												
Bottom side	20	QPSK 1_50	40620/2593	1:1.58	6.680	2.500	0.06	22.74	23.50	1.191	2.978	22.1
Bottom side-Repeated	20	QPSK 1_50	40620/2593	1:1.58	6.530	2.410	0.06	22.74	23.50	1.191	2.871	22.1
Bottom side with Sample2	20	QPSK 1_50	40620/2593	1:1.58	6.470	2.370	0.08	22.74	23.50	1.191	2.823	22.1
Bottom side	20	QPSK 1_99	39750/2506	1:1.58	5.140	1.990	-0.17	22.53	23.50	1.250	2.488	22.1
Bottom side	20	QPSK 1_99	40185/2549.5	1:1.58	4.420	1.740	0.10	22.62	23.50	1.225	2.131	22.1
Bottom side	20	QPSK 1_50	41055/2636.5	1:1.58	5.460	2.100	0.14	22.60	23.50	1.230	2.584	22.1
Bottom side	20	QPSK 1_99	41490/2680	1:1.58	5.550	2.110	0.18	22.53	23.50	1.250	2.638	22.1
Bottom side with HPUE	20	QPSK 1_99	40620/2593	1:2.31	6.270	2.410	0.08	25.86	26.50	1.159	2.793	22.1
Bottom side with HPUE	20	QPSK 1_99	39750/2506	1:2.31	4.820	1.920	-0.02	25.51	26.50	1.256	2.412	22.1
Bottom side with HPUE	20	QPSK 1_99	40185/2549.5	1:2.31	4.150	1.680	-0.15	25.55	26.50	1.245	2.091	22.1
Bottom side with HPUE	20	QPSK 1_99	41055/2636.5	1:2.31	5.120	2.020	0.18	25.71	26.50	1.199	2.423	22.1
Bottom side with HPUE	20	QPSK 1_99	41490/2680	1:2.31	5.210	2.030	0.11	25.59	26.50	1.233	2.503	22.1



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Bottom side	20	QPSK 1_99	40620/2593	1:1.58	5.880	2.310	0.04	22.51	23.50	1.256	2.901	22.3
		SCC QPSK 1_0	40818/2612.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 6												
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	4.670	1.830	0.13	21.74	22.50	1.191	2.180	22.1
Bottom side	20	QPSK 50_50	39750/2506	1:1.58	4.140	1.610	-0.08	21.55	22.50	1.245	2.004	22.1
Bottom side	20	QPSK 50_50	40185/2549.5	1:1.58	3.610	1.420	-0.04	21.60	22.50	1.230	1.747	22.1
Bottom side	20	QPSK 50_50	41055/2636.5	1:1.58	4.350	1.680	-0.11	21.59	22.50	1.233	2.072	22.1
Bottom side	20	QPSK 50_50	41490/2680	1:1.58	4.360	1.660	0.12	21.43	22.50	1.279	2.124	22.1
Bottom side with HPUE	20	QPSK 50_25	40620/2593	1:2.31	4.380	1.760	-0.07	24.83	25.50	1.167	2.054	22.1
Bottom side with HPUE	20	QPSK 50_50	39750/2506	1:2.31	3.890	1.550	-0.12	24.65	25.50	1.216	1.885	22.1
Bottom side with HPUE	20	QPSK 50_50	40185/2549.5	1:2.31	3.390	1.370	0.03	24.69	25.50	1.205	1.651	22.1
Bottom side with HPUE	20	QPSK 50_50	41055/2636.5	1:2.31	4.080	1.620	0.16	24.73	25.50	1.194	1.934	22.1
Bottom side with HPUE	20	QPSK 50_50	41490/2680	1:2.31	4.090	1.600	0.03	24.50	25.50	1.259	2.014	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) ECI 6												
Bottom side	20	QPSK 100_0	40620/2593	1:1.58	4.510	1.780	0.17	21.74	22.50	1.191	2.120	22.1
Bottom side with HPUE	20	QPSK 100_0	40620/2593	1:2.31	4.230	1.720	0.08	24.81	25.50	1.172	2.016	22.1
Ant 9 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.431	0.194	0.14	19.20	20.00	1.202	0.518	22.1
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.049	0.027	0.15	19.20	20.00	1.202	0.059	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.536	0.204	-0.10	19.20	20.00	1.202	0.644	22.1
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.068	0.037	0.14	19.20	20.00	1.202	0.082	22.1
Right cheek	20	QPSK 1_99	39750/2506	1:1.58	0.597	0.237	0.07	18.98	20.00	1.265	0.755	22.6
Right cheek	20	QPSK 1_99	40185/2549.5	1:1.58	0.596	0.228	-0.15	19.05	20.00	1.245	0.742	22.1
Right cheek	20	QPSK 1_99	41055/2636.5	1:1.58	0.508	0.192	-0.10	19.13	20.00	1.222	0.621	22.1
Right cheek	20	QPSK 1_99	41490/2680	1:1.58	0.418	0.156	0.06	19.03	20.00	1.250	0.523	22.1
Right cheek with HPUE	20	QPSK 1_99	39750/2506	1:2.31	0.557	0.220	-0.06	20.75	22.00	1.334	0.743	22.1
Right cheek	20	PCC QPSK 1_99	39750/2506	1:1.58	0.579	0.228	-0.18	19.15	20.00	1.216	0.704	22.3
		SCC QPSK 1_0	39948/2525.8									
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.417	0.188	0.06	19.20	20.00	1.202	0.501	22.1
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.045	0.025	-0.12	19.20	20.00	1.202	0.054	22.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.527	0.202	-0.05	19.20	20.00	1.202	0.634	22.1
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.065	0.035	-0.09	19.20	20.00	1.202	0.078	22.1
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	0.581	0.225	-0.12	18.88	20.00	1.294	0.752	22.1
Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.563	0.216	-0.03	18.98	20.00	1.265	0.712	22.1
Right cheek	20	QPSK 50_50	41055/2636.5	1:1.58	0.482	0.182	0.04	19.03	20.00	1.250	0.603	22.1
Right cheek	20	QPSK 50_50	41490/2680	1:1.58	0.402	0.151	-0.08	19.00	20.00	1.259	0.506	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.465	0.179	-0.13	18.71	19.50	1.199	0.558	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.508	0.195	0.14	18.71	19.50	1.199	0.609	22.1
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.606	0.240	0.01	18.48	19.50	1.265	0.766	22.6



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Back side with Sample2	20	QPSK 1_99	39750/2506	1:1.58	0.589	0.231	0.09	18.48	19.50	1.265	0.745	22.6
Back side	20	QPSK 1_99	40185/2549.5	1:1.58	0.563	0.225	-0.15	18.50	19.50	1.259	0.709	22.1
Back side	20	QPSK 1_99	41055/2636.5	1:1.58	0.469	0.193	0.15	18.51	19.50	1.256	0.589	22.1
Back side	20	QPSK 1_99	41490/2680	1:1.58	0.404	0.163	0.11	18.53	19.50	1.250	0.505	22.1
Back side-HPUE	20	QPSK 1_99	39750/2506	1:2.31	0.594	0.234	-0.16	20.47	21.50	1.268	0.753	22.1
Right cheek	20	PCC QPSK 1_99	39750/2506	1:1.58	0.578	0.227	-0.16	18.74	19.50	1.191	0.689	22.3
		SCC QPSK 1_0	39948/2525.8									
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.429	0.175	0.01	18.74	19.50	1.191	0.511	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.499	0.190	-0.12	18.74	19.50	1.191	0.594	22.1
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_50	40620/2593	1:1.58	0.207	0.102	0.00	22.71	23.50	1.199	0.248	22.1
Back side 19mm	20	QPSK 1_50	40620/2593	1:1.58	0.146	0.075	-0.18	22.71	23.50	1.199	0.175	22.1
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_25	40620/2593	1:1.58	0.168	0.082	0.06	21.68	22.50	1.208	0.203	22.1
Back side 19mm	20	QPSK 50_25	40620/2593	1:1.58	0.117	0.060	0.16	21.68	22.50	1.208	0.141	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.132	0.055	0.08	13.24	14.00	1.191	0.157	22.1
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.134	0.057	0.04	13.24	14.00	1.191	0.160	22.1
Left side	20	QPSK 1_99	39750/2506	1:1.58	0.498	0.170	0.01	13.24	14.00	1.191	0.593	22.1
Top side	20	QPSK 1_99	39750/2506	1:1.58	0.011	0.006	0.03	13.24	14.00	1.191	0.013	22.1
Left side-HPUE	20	QPSK 1_99	39750/2506	1:2.31	0.435	0.161	0.07	14.74	16.00	1.337	0.581	22.1
Left side with Sample2	20	QPSK 1_99	39750/2506	1:1.58	0.469	0.161	0.02	13.24	14.00	1.191	0.559	22.1
Left side	20	PCC QPSK 1_99	39750/2506	1:1.58	0.486	0.167	0.15	13.21	14.00	1.199	0.583	22.3
		SCC QPSK 1_0	39948/2525.8									
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.121	0.049	-0.13	13.20	14.00	1.202	0.145	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.141	0.053	-0.17	13.20	14.00	1.202	0.170	22.1
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.447	0.153	0.00	13.20	14.00	1.202	0.537	22.1
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.013	0.005	-0.11	13.20	14.00	1.202	0.016	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	20	QPSK 1_0	40620/2593	1:1.58	1.650	0.663	0.19	18.71	19.50	1.199	0.795	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.951	0.368	-0.10	18.71	19.50	1.199	0.441	22.1
Left side	20	QPSK 1_0	40620/2593	1:1.58	5.450	1.710	0.05	18.71	19.50	1.199	2.051	22.1
Left side	20	QPSK 1_99	39750/2506	1:1.58	5.970	1.900	-0.08	18.48	19.50	1.265	2.403	22.1
Left side	20	QPSK 1_99	40185/2549.5	1:1.58	4.660	1.480	-0.15	18.50	19.50	1.259	1.863	22.1
Left side	20	QPSK 1_99	41055/2636.5	1:1.58	4.790	1.480	-0.16	18.51	19.50	1.256	1.859	22.1
Left side	20	QPSK 1_99	41490/2680	1:1.58	4.130	1.270	-0.03	18.53	19.50	1.250	1.588	22.1
Left side-HPUE	20	QPSK 1_99	39750/2506	1:2.31	5.870	1.860	0.05	20.47	21.50	1.268	2.358	22.1
Left side	20	PCC QPSK 1_99	39750/2506	1:1.58	5.910	1.880	0.01	18.74	19.50	1.191	2.240	
		SCC QPSK 1_0	39948/2525.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												



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Front side	20	QPSK 50_0	40620/2593	1:1.58	2.040	0.653	-0.14	18.74	19.50	1.191	0.778	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.960	0.371	0.19	18.74	19.50	1.191	0.442	22.1
Left side	20	QPSK 50_0	40620/2593	1:1.58	4.570	1.590	-0.19	18.74	19.50	1.191	1.894	22.1
Left side	20	QPSK 50_50	39750/2506	1:1.58	4.770	1.680	0.04	18.48	19.50	1.265	2.125	22.1
Left side	20	QPSK 50_50	40185/2549.5	1:1.58	4.120	1.440	-0.18	18.49	19.50	1.262	1.817	22.1
Left side	20	QPSK 50_25	41055/2636.5	1:1.58	4.170	1.420	-0.15	18.55	19.50	1.245	1.767	22.1
Left side	20	QPSK 50_50	41490/2680	1:1.58	3.530	1.200	0.07	18.54	19.50	1.247	1.497	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Left side	20	QPSK 100_0	40620/2593	1:1.58	5.700	1.690	-0.13	13.14	14.00	1.219	2.060	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 1_50	40620/2593	1:1.58	0.327	0.147	0.02	22.71	23.50	1.199	0.176	22.1
Back side 7mm	20	QPSK 1_50	40620/2593	1:1.58	0.807	0.346	0.14	22.71	23.50	1.199	0.415	22.1
Left side 7mm	20	QPSK 1_50	40620/2593	1:1.58	2.250	0.779	0.04	22.71	23.50	1.199	0.934	22.1
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 50_25	40620/2593	1:1.58	0.258	0.117	-0.15	21.68	22.50	1.208	0.141	22.1
Back side 7mm	20	QPSK 50_25	40620/2593	1:1.58	0.648	0.277	0.16	21.68	22.50	1.208	0.335	22.1
Left side 7mm	20	QPSK 50_25	40620/2593	1:1.58	1.790	0.621	-0.05	21.68	22.50	1.208	0.750	22.1

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	41490/2680	0.945	0.927	1.019	N/A	N/A
Bottom side	41490/2680	0.958	0.939	1.020	N/A	N/A
Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Bottom side	40620/2593	2.500	2.410	1.037	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.12 SAR Result of LTE Band 42

LTE Band 42 SAR Test Record												
Ant 4 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_99	42990/3540	1:1.58	0.571	0.238	-0.05	16.14	17.00	1.219	0.696	22.3
Left tilted	20	QPSK 1_99	42990/3540	1:1.58	0.547	0.224	-0.07	16.14	17.00	1.219	0.667	22.3
Right cheek	20	QPSK 1_99	42990/3540	1:1.58	0.263	0.117	0.02	16.14	17.00	1.219	0.321	22.3
Right tilted	20	QPSK 1_99	42990/3540	1:1.58	0.268	0.115	-0.07	16.14	17.00	1.219	0.327	22.3
Left cheek	20	QPSK 1_0	42990/3540	1:1.58	0.568	0.236	-0.04	16.07	17.00	1.239	0.704	22.3
		SCC QPSK 1_99	42792/3520.2									
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	42990/3540	1:1.58	0.601	0.243	0.07	16.28	17.00	1.180	0.709	22.6
Left tilted	20	QPSK 50_50	42990/3540	1:1.58	0.568	0.223	-0.08	16.28	17.00	1.180	0.670	22.3
Right cheek	20	QPSK 50_50	42990/3540	1:1.58	0.240	0.107	-0.14	16.28	17.00	1.180	0.283	22.3
Right tilted	20	QPSK 50_50	42990/3540	1:1.58	0.259	0.110	0.05	16.28	17.00	1.180	0.306	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_99	42990/3540	1:1.58	0.282	0.117	0.00	16.14	17.00	1.219	0.344	22.3
Back side	20	QPSK 1_99	42990/3540	1:1.58	0.492	0.203	0.07	16.14	17.00	1.219	0.600	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	0.483	0.199	-0.13	16.07	17.00	1.239	0.598	22.3
		SCC QPSK 1_99	42792/3520.2									
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_50	42990/3540	1:1.58	0.306	0.124	-0.10	16.18	17.00	1.208	0.370	22.3
Back side	20	QPSK 50_50	42990/3540	1:1.58	0.502	0.209	0.13	16.18	17.00	1.208	0.606	22.3
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 15mm	20	QPSK 1_99	42990/3540	1:1.58	0.144	0.068	-0.15	20.64	21.50	1.219	0.176	22.3
Back side 19mm	20	QPSK 1_99	42990/3540	1:1.58	0.220	0.104	-0.06	20.64	21.50	1.219	0.268	22.3
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 15mm	20	QPSK 50_50	42990/3540	1:1.58	0.114	0.054	0.00	19.71	20.50	1.199	0.137	22.3
Back side 19mm	20	QPSK 50_50	42990/3540	1:1.58	0.180	0.084	0.19	19.71	20.50	1.199	0.216	22.3
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_99	42990/3540	1:1.58	0.228	0.099	0.16	15.83	16.50	1.167	0.266	22.3
Back side	20	QPSK 1_99	42990/3540	1:1.58	0.420	0.187	0.19	15.83	16.50	1.167	0.490	22.3
Right side	20	QPSK 1_99	42990/3540	1:1.58	0.120	0.052	0.01	15.83	16.50	1.167	0.140	22.3
Top side	20	QPSK 1_99	42990/3540	1:1.58	0.324	0.113	0.18	15.83	16.50	1.167	0.378	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	0.399	0.178	0.06	15.36	16.50	1.300	0.519	22.3
		SCC QPSK 1_99	42792/3520.2									
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_50	42990/3540	1:1.58	0.215	0.091	0.06	15.85	16.50	1.161	0.250	22.3
Back side	20	QPSK 50_50	42990/3540	1:1.58	0.451	0.184	-0.11	15.85	16.50	1.161	0.524	22.3
Right side	20	QPSK 50_50	42990/3540	1:1.58	0.122	0.054	-0.13	15.85	16.50	1.161	0.142	22.3
Top side	20	QPSK 50_50	42990/3540	1:1.58	0.323	0.110	0.10	15.85	16.50	1.161	0.375	22.3



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Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 6												
Back side	20	QPSK 1_0	42990/3540	1:1.58	1.440	0.611	0.12	20.64	21.50	1.219	0.745	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	1.490	0.638	0.10	20.51	21.50	1.256	0.801	22.3
		SCC QPSK 1_99	42792/3520.2									
Product specific 10g SAR Test data (Separate 0mm 50RB) ECI 6												
Back side	20	QPSK 50_50	42990/3540	1:1.58	1.300	0.544	0.17	19.71	20.50	1.199	0.653	22.3
Ant 7 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_0	42990/3540	1:1.58	0.224	0.107	-0.09	15.04	16.00	1.247	0.279	22.3
Left tilted	20	QPSK 1_0	42990/3540	1:1.58	0.100	0.046	-0.02	15.04	16.00	1.247	0.125	22.3
Right cheek	20	QPSK 1_0	42990/3540	1:1.58	0.390	0.164	0.06	15.04	16.00	1.247	0.486	22.3
Right tilted	20	QPSK 1_0	42990/3540	1:1.58	0.208	0.089	0.13	15.04	16.00	1.247	0.259	22.3
Right cheek	20	QPSK 1_0	42990/3540	1:1.58	0.374	0.158	-0.06	15.16	16.00	1.213	0.454	22.3
		SCC QPSK 1_99	42792/3520.2									
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_25	42990/3540	1:1.58	0.208	0.096	0.09	15.04	16.00	1.247	0.259	22.3
Left tilted	20	QPSK 50_25	42990/3540	1:1.58	0.094	0.043	-0.06	15.04	16.00	1.247	0.117	22.3
Right cheek	20	QPSK 50_25	42990/3540	1:1.58	0.394	0.167	0.18	15.04	16.00	1.247	0.491	22.3
Right tilted	20	QPSK 50_25	42990/3540	1:1.58	0.212	0.091	0.16	15.04	16.00	1.247	0.264	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_0	42990/3540	1:1.58	0.314	0.139	0.15	16.03	17.00	1.250	0.393	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	0.605	0.243	0.07	16.03	17.00	1.250	0.756	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	0.617	0.249	0.16	16.50	17.00	1.122	0.692	22.3
		SCC QPSK 1_99	42792/3520.2									
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_25	42990/3540	1:1.58	0.388	0.154		16.04	17.00	1.247	0.484	22.3
Back side	20	QPSK 50_25	42990/3540	1:1.58	0.624	0.254	0.11	16.04	17.00	1.247	0.778	22.3
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_0	42990/3540	1:1.58	0.374	0.182	0.13	22.96	24.00	1.271	0.475	22.3
Back side 19mm	20	QPSK 1_0	42990/3540	1:1.58	0.345	0.170	0.12	22.96	24.00	1.271	0.438	22.3
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_25	42990/3540	1:1.58	0.313	0.151	-0.03	22.05	23.00	1.245	0.390	22.3
Back side 19mm	20	QPSK 50_25	42990/3540	1:1.58	0.286	0.141	0.10	22.05	23.00	1.245	0.356	22.3
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	42990/3540	1:1.58	0.220	0.089	0.09	14.57	15.50	1.239	0.273	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	0.319	0.129	0.11	14.57	15.50	1.239	0.395	22.3
Left side	20	QPSK 1_0	42990/3540	1:1.58	0.432	0.164	-0.12	14.57	15.50	1.239	0.535	22.3
Top side	20	QPSK 1_0	42990/3540	1:1.58	0.069	0.031	-0.05	14.57	15.50	1.239	0.085	22.3
Left side	20	QPSK 1_0	42990/3540	1:1.58	0.441	0.169	0.05	14.46	15.50	1.271	0.560	22.3



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		SCC QPSK 1_99	42792/3520.2									
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_25	42990/3540	1:1.58	0.201	0.087	0.10	14.48	15.50	1.265	0.254	22.3
Back side	20	QPSK 50_25	42990/3540	1:1.58	0.349	0.157	0.08	14.48	15.50	1.265	0.441	22.3
Left side	20	QPSK 50_25	42990/3540	1:1.58	0.456	0.160	-0.01	14.48	15.50	1.265	0.577	22.2
Left side with Sample2	20	QPSK 50_25	42990/3540	1:1.58	0.439	0.153	-0.06	14.48	15.50	1.265	0.555	22.2
Top side	20	QPSK 50_25	42990/3540	1:1.58	0.063	0.030	-0.11	14.48	15.50	1.265	0.080	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	20	QPSK 1_0	42990/3540	1:1.58	2.690	0.942	0.07	17.03	18.00	1.250	1.178	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	1.530	0.653	-0.15	17.03	18.00	1.250	0.816	22.3
Left side	20	QPSK 1_0	42990/3540	1:1.58	4.920	1.780	-0.14	17.03	18.00	1.250	2.225	22.3
Left side	20	QPSK 1_0	42190/3460	1:1.58	4.730	1.730	-0.02	16.95	18.00	1.274	2.203	22.3
Left side	20	QPSK 1_99	42590/3500	1:1.58	4.580	1.680	0.16	16.55	18.00	1.396	2.346	22.3
Left side with Sample2	20	QPSK 1_99	42590/3500	1:1.58	4.290	1.510	0.12	16.55	18.00	1.396	2.109	22.3
Left side	20	QPSK 1_0	42590/3500	1:1.58	4.550	1.640	0.13	16.53	18.00	1.403	2.301	22.3
		SCC QPSK 1_99	42392/3480.2									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	20	QPSK 50_25	42990/3540	1:1.58	2.770	0.955	-0.13	17.03	18.00	1.250	1.194	22.3
Back side	20	QPSK 50_25	42990/3540	1:1.58	1.840	0.701	-0.09	17.03	18.00	1.250	0.876	22.3
Left side	20	QPSK 50_25	42990/3540	1:1.58	4.960	1.800	0.01	17.03	18.00	1.250	2.250	22.3
Left side	20	QPSK 50_25	42190/3460	1:1.58	4.730	1.730	-0.09	17.01	18.00	1.256	2.173	22.3
Left side	20	QPSK 50_50	42590/3500	1:1.58	4.810	1.740	0.18	16.85	18.00	1.303	2.268	22.3
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Left side	20	QPSK 100_0	42990/3540	1:1.58	4.870	1.760	-0.13	17.00	18.00	1.259	2.216	22.3
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 1_0	42990/3540	1:1.58	0.582	0.269	-0.02	22.96	24.00	1.271	0.342	22.3
Back side 7mm	20	QPSK 1_0	42990/3540	1:1.58	1.700	0.721	0.07	22.96	24.00	1.271	0.916	22.3
Left side 7mm	20	QPSK 1_0	42990/3540	1:1.58	2.150	0.906	-0.06	22.96	24.00	1.271	1.151	22.3
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 50_25	42990/3540	1:1.58	0.474	0.220	-0.19	22.05	23.00	1.245	0.274	22.3
Back side 7mm	20	QPSK 50_25	42990/3540	1:1.58	1.390	0.588	0.10	22.05	23.00	1.245	0.732	22.3
Left side 7mm	20	QPSK 50_25	42990/3540	1:1.58	1.730	0.733	0.18	22.05	23.00	1.245	0.912	22.3
Ant 8 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_0	42590/3500	1:1.58	0.168	0.077	0.13	22.17	23.00	1.211	0.203	22.3
Left tilted	20	QPSK 1_0	42590/3500	1:1.58	0.150	0.065	-0.02	22.17	23.00	1.211	0.182	22.3
Right cheek	20	QPSK 1_0	42590/3500	1:1.58	0.279	0.122	-0.15	22.17	23.00	1.211	0.338	22.3
Right tilted	20	QPSK 1_0	42590/3500	1:1.58	0.084	0.037	-0.17	22.17	23.00	1.211	0.102	22.3
Right cheek	20	QPSK 1_0	42590/3500	1:1.58	0.272	0.118	0.06	22.39	23.00	1.151	0.313	22.3



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		SCC QPSK 1_99	42392/3480.2									
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_0	42590/3500	1:1.58	0.127	0.059	-0.14	21.22	22.00	1.197	0.152	22.3
Left tilted	20	QPSK 50_0	42590/3500	1:1.58	0.112	0.048	0.02	21.22	22.00	1.197	0.134	22.3
Right cheek	20	QPSK 50_0	42590/3500	1:1.58	0.217	0.095	-0.12	21.22	22.00	1.197	0.260	22.3
Right tilted	20	QPSK 50_0	42590/3500	1:1.58	0.071	0.032	-0.13	21.22	22.00	1.197	0.085	22.3
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	20	QPSK 1_0	42590/3500	1:1.58	0.322	0.128	0.13	22.17	23.00	1.211	0.390	22.3
Back side	20	QPSK 1_0	42590/3500	1:1.58	0.496	0.189	0.10	22.17	23.00	1.211	0.600	22.3
Back side	20	QPSK 1_0	42590/3500	1:1.58	0.487	0.184	0.05	22.39	23.00	1.151	0.560	22.3
		SCC QPSK 1_99	42392/3480.2									
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	20	QPSK 50_0	42590/3500	1:1.58	0.326	0.109	-0.16	21.22	22.00	1.197	0.390	22.3
Back side	20	QPSK 50_0	42590/3500	1:1.58	0.399	0.151	-0.12	21.22	22.00	1.197	0.477	22.3
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	42590/3500	1:1.58	0.195	0.074	0.16	19.93	21.00	1.279	0.249	22.3
Back side	20	QPSK 1_0	42590/3500	1:1.58	0.320	0.109	0.16	19.93	21.00	1.279	0.409	22.3
Right side	20	QPSK 1_0	42590/3500	1:1.58	0.673	0.200	-0.04	19.93	21.00	1.279	0.861	22.3
Bottom side	20	QPSK 1_0	42590/3500	1:1.58	0.112	0.047	-0.18	19.93	21.00	1.279	0.143	22.3
Right side	20	QPSK 1_99	42190/3460	1:1.58	0.376	0.120	-0.02	19.89	21.00	1.291	0.485	22.3
Right side	20	QPSK 1_99	42990/3540	1:1.58	0.423	0.130	0.19	19.91	21.00	1.285	0.544	22.3
Right side	20	QPSK 1_0	42590/3500	1:1.58	0.598	0.176	0.17	19.90	21.00	1.288	0.770	22.3
		SCC QPSK 1_99	42392/3480.2									
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_0	42590/3500	1:1.58	0.198	0.078	-0.12	19.91	21.00	1.285	0.254	22.3
Back side	20	QPSK 50_0	42590/3500	1:1.58	0.357	0.114	0.04	19.91	21.00	1.285	0.459	22.3
Right side	20	QPSK 50_0	42590/3500	1:1.58	0.636	0.179	-0.10	19.91	21.00	1.285	0.817	22.3
Bottom side	20	QPSK 50_0	42590/3500	1:1.58	0.109	0.048	0.11	19.91	21.00	1.285	0.140	22.3
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Right side	20	QPSK 50_0	42590/3500	1:1.58	0.386	0.127	0.05	20.07	21.00	1.239	0.478	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 6												
Right side	20	QPSK 1_0	42590/3500	1:1.58	8.040	1.970	0.07	20.71	21.50	1.199	2.363	22.3
Right side	20	QPSK 1_99	42190/3460	1:1.58	6.540	1.920	-0.02	20.67	21.50	1.211	2.324	22.3
Right side	20	QPSK 1_50	42990/3540	1:1.58	8.410	2.430	0.03	20.58	21.50	1.236	3.003	22.3
Right side-Repeated	20	QPSK 1_50	42990/3540	1:1.58	8.160	2.310	0.05	20.58	21.50	1.236	2.855	22.3
Right side with Sample2	20	QPSK 1_50	42990/3540	1:1.58	8.090	2.280	0.09	20.58	21.50	1.236	2.818	22.3
Right side	20	QPSK 1_0	42990/3540	1:1.58	8.270	2.350	-0.04	20.68	21.50	1.208	2.838	22.3
		SCC QPSK 1_99	42792/3520.2									
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 6												
Right side	20	QPSK 50_0	42590/3500	1:1.58	5.700	1.900	-0.02	20.55	21.50	1.245	2.365	22.3
Right side	20	QPSK 50_50	42190/3460	1:1.58	5.090	1.710	0.03	20.54	21.50	1.247	2.133	22.3



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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Right side	20	QPSK 50_25	42990/3540	1:1.58	6.640	2.190	0.00	20.42	21.50	1.282	2.808	22.3
Product specific 10g SAR Test data (Separate 0mm 100%RB) ECI 6												
Right side	20	QPSK 100_0	42190/3460	1:1.58	5.160	1.740	-0.07	20.50	21.50	1.259	2.191	22.3
Ant 10 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_99	42990/3540	1:1.58	0.140	0.065	0.00	20.64	21.50	1.219	0.171	22.3
Left tilted	20	QPSK 1_99	42990/3540	1:1.58	0.185	0.075	-0.03	20.64	21.50	1.219	0.226	22.3
Right cheek	20	QPSK 1_99	42990/3540	1:1.58	0.081	0.037	-0.08	20.64	21.50	1.219	0.099	22.3
Right tilted	20	QPSK 1_99	42990/3540	1:1.58	0.096	0.043	0.07	20.64	21.50	1.219	0.117	22.3
Left tilted	20	QPSK 1_0	42990/3540	1:1.58	0.194	0.079	-0.07	20.69	21.50	1.205	0.234	22.3
		SCC QPSK 1_99	42792/3520.2									
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	42990/3540	1:1.58	0.136	0.060	0.18	19.35	20.50	1.303	0.177	22.3
Left tilted	20	QPSK 50_50	42990/3540	1:1.58	0.178	0.073	-0.05	19.35	20.50	1.303	0.232	22.3
Right cheek	20	QPSK 50_50	42990/3540	1:1.58	0.080	0.036	-0.06	19.35	20.50	1.303	0.104	22.3
Right tilted	20	QPSK 50_50	42990/3540	1:1.58	0.103	0.046	-0.03	19.35	20.50	1.303	0.134	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_99	42990/3540	1:1.58	0.011	0.003	0.00	14.25	15.00	1.189	0.013	22.3
Back side	20	QPSK 1_99	42990/3540	1:1.58	0.635	0.258	0.12	14.25	15.00	1.189	0.755	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	0.612	0.245	0.19	14.11	15.00	1.227	0.751	22.3
		SCC QPSK 1_99	42792/3520.2									
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_50	42990/3540	1:1.58	0.034	0.013	0.11	14.27	15.00	1.183	0.040	22.3
Back side	20	QPSK 50_50	42990/3540	1:1.58	0.643	0.262	0.18	14.27	15.00	1.183	0.761	22.3
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 15mm	20	QPSK 1_99	42990/3540	1:1.58	0.048	0.020	0.14	20.64	21.50	1.219	0.059	22.3
Back side 19mm	20	QPSK 1_99	42990/3540	1:1.58	0.623	0.318	0.18	20.64	21.50	1.219	0.759	22.3
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 15mm	20	QPSK 50_50	42990/3540	1:1.58	0.044	0.020	0.06	19.35	20.50	1.303	0.057	22.3
Back side 19mm	20	QPSK 50_50	42990/3540	1:1.58	0.537	0.250	-0.06	19.35	20.50	1.303	0.700	22.3
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_99	42990/3540	1:1.58	0.011	0.005	-0.15	10.73	11.50	1.194	0.013	22.3
Back side	20	QPSK 1_99	42990/3540	1:1.58	0.366	0.149	0.13	10.73	11.50	1.194	0.437	22.3
Right side	20	QPSK 1_99	42990/3540	1:1.58	0.059	0.025	0.00	10.73	11.50	1.194	0.070	22.3
Top side	20	QPSK 1_99	42990/3540	1:1.58	0.054	0.027	-0.13	10.73	11.50	1.194	0.064	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	0.378	0.154	-0.12	10.78	11.50	1.180	0.446	22.3
		SCC QPSK 1_99	42792/3520.2									
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_50	42990/3540	1:1.58	0.010	0.005	-0.12	10.79	11.50	1.178	0.012	22.3
Back side	20	QPSK 50_50	42990/3540	1:1.58	0.363	0.144	-0.09	10.79	11.50	1.178	0.427	22.3
Right side	20	QPSK 50_50	42990/3540	1:1.58	0.058	0.024	-0.02	10.79	11.50	1.178	0.068	22.3
Top side	20	QPSK 50_50	42990/3540	1:1.58	0.051	0.025	-0.14	10.79	11.50	1.178	0.060	22.3



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Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Back side	20	QPSK 1_99	42990/3540	1:1.58	7.220	1.970	-0.11	19.35	20.00	1.161	2.288	22.3
Back side	20	QPSK 1_50	42190/3460	1:1.58	6.060	1.810	-0.08	19.07	20.00	1.239	2.242	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	6.680	1.920	0.12	18.90	20.00	1.288	2.473	22.3
Back side with Sample2	20	QPSK 1_0	42990/3540	1:1.58	6.420	1.760	0.15	18.90	20.00	1.288	2.267	22.3
Back side	20	QPSK 1_0	42990/3540	1:1.58	6.610	1.900	-0.09	19.19	20.00	1.205	2.290	22.3
		SCC QPSK 1_99	42792/3520.2									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Back side	20	QPSK 50_50	42990/3540	1:1.58	7.200	1.960	0.11	19.37	20.00	1.156	2.266	22.3
Back side	20	QPSK 50_50	42190/3460	1:1.58	6.210	1.850	-0.18	19.16	20.00	1.213	2.245	22.3
Back side	20	QPSK 50_50	42590/3500	1:1.58	6.600	1.910	0.14	18.95	20.00	1.274	2.432	22.3
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Back side	20	QPSK 100_0	42990/3540	1:1.58	3.770	1.460	-0.16	19.31	20.00	1.172	1.711	22.3
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Back side 12mm	20	QPSK 1_99	42990/3540	1:1.58	1.180	0.531	0.15	20.64	21.50	1.219	0.647	22.3
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Back side 12mm	20	QPSK 50_50	42990/3540	1:1.58	0.920	0.417	-0.04	19.35	20.50	1.303	0.543	22.3

Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Right side	42990/3540	2.430	2.31	1.052	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.13 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record												
Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_99	132572/1770	1:1	0.024	0.013	-0.18	21.13	22.00	1.222	0.029	22.3
Left tilted	20	QPSK 1_99	132572/1770	1:1	0.006	0.003	0.08	21.13	22.00	1.222	0.007	22.3
Right cheek	20	QPSK 1_99	132572/1770	1:1	0.071	0.042	0.16	21.13	22.00	1.222	0.087	22.3
Right tilted	20	QPSK 1_99	132572/1770	1:1	0.013	0.007	-0.01	21.13	22.00	1.222	0.016	22.3
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	132572/1770	1:1	0.017	0.008	-0.14	20.09	21.00	1.233	0.021	22.3
Left tilted	20	QPSK 50_50	132572/1770	1:1	0.004	0.002	-0.10	20.09	21.00	1.233	0.005	22.3
Right cheek	20	QPSK 50_50	132572/1770	1:1	0.056	0.034	0.07	20.09	21.00	1.233	0.069	22.3
Right tilted	20	QPSK 50_50	132572/1770	1:1	0.007	0.003	-0.09	20.09	21.00	1.233	0.009	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_99	132572/1770	1:1	0.380	0.180	0.12	15.09	16.00	1.233	0.469	22.1
Back side	20	QPSK 1_99	132572/1770	1:1	0.651	0.320	0.00	15.09	16.00	1.233	0.803	22.1
Back side	20	QPSK 1_99	132072/1720	1:1	0.745	0.362	-0.05	15.08	16.00	1.236	0.921	22.2
Back side	20	QPSK 1_99	132322/1745	1:1	0.680	0.330	0.12	14.96	16.00	1.271	0.864	22.1
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_50	132572/1770	1:1	0.358	0.168	-0.14	15.08	16.00	1.236	0.442	22.1
Back side	20	QPSK 50_50	132572/1770	1:1	0.630	0.312	0.11	15.08	16.00	1.236	0.779	22.1
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	132072/1720	1:1	0.718	0.348	-0.11	15.02	16.00	1.253	0.900	22.1
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_99	132572/1770	1:1	0.430	0.232	0.07	21.13	22.00	1.222	0.525	22.6
Back side 21mm	20	QPSK 1_99	132572/1770	1:1	0.523	0.285	0.01	21.13	22.00	1.222	0.639	22.6
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_50	132572/1770	1:1	0.352	0.189	-0.05	20.09	21.00	1.233	0.434	22.6
Back side 21mm	20	QPSK 50_50	132572/1770	1:1	0.430	0.234	-0.05	20.09	21.00	1.233	0.530	22.6
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_99	132572/1770	1:1	0.380	0.180	0.12	15.09	16.00	1.233	0.469	22.1
Back side	20	QPSK 1_99	132572/1770	1:1	0.651	0.320	0.00	15.09	16.00	1.233	0.803	22.1
Left side	20	QPSK 1_99	132572/1770	1:1	0.327	0.138	0.15	15.09	16.00	1.233	0.403	22.1
Bottom side	20	QPSK 1_99	132572/1770	1:1	0.525	0.227	-0.02	15.09	16.00	1.233	0.647	22.1
Back side	20	QPSK 1_99	132072/1720	1:1	0.745	0.362	-0.05	15.08	16.00	1.236	0.921	22.2
Back side	20	QPSK 1_99	132322/1745	1:1	0.680	0.330	0.12	14.96	16.00	1.271	0.864	22.1
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_50	132572/1770	1:1	0.358	0.168	-0.14	15.08	16.00	1.236	0.442	22.1
Back side	20	QPSK 50_50	132572/1770	1:1	0.630	0.312	0.11	15.08	16.00	1.236	0.779	22.1



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Left side	20	QPSK 50_50	132572/1770	1:1	0.282	0.121	0.05	15.08	16.00	1.236	0.349	22.1
Bottom side	20	QPSK 50_50	132572/1770	1:1	0.466	0.201	-0.04	15.08	16.00	1.236	0.576	22.1
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	20	QPSK 100_0	132072/1720	1:1	0.718	0.348	-0.11	15.02	16.00	1.253	0.900	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	20	QPSK 1_99	132572/1770	1:1	3.730	1.760	0.17	19.59	20.50	1.233	2.170	22.3
Back side	20	QPSK 1_99	132572/1770	1:1	4.810	2.260	0.19	19.59	20.50	1.233	2.787	22.3
Left side	20	QPSK 1_99	132572/1770	1:1	3.250	1.270	0.06	19.59	20.50	1.233	1.566	22.3
Bottom side	20	QPSK 1_99	132572/1770	1:1	3.600	1.430	-0.14	19.59	20.50	1.233	1.763	22.3
Back side	20	QPSK 1_99	132072/1720	1:1	4.680	2.180	-0.02	19.58	20.50	1.236	2.694	22.3
Back side	20	QPSK 1_99	132322/1745	1:1	4.950	2.290	0.06	19.46	20.50	1.271	2.910	22.3
Back side-Repeated	20	QPSK 1_99	132322/1745	1:1	4.870	2.270	0.07	19.46	20.50	1.271	2.884	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	20	QPSK 50_50	132572/1770	1:1	3.670	1.460	-0.09	19.58	20.50	1.236	1.804	22.3
Back side	20	QPSK 50_50	132572/1770	1:1	4.590	2.160	-0.10	19.58	20.50	1.236	2.670	22.3
Left side	20	QPSK 50_50	132572/1770	1:1	3.450	1.280	0.17	19.58	20.50	1.236	1.582	22.3
Bottom side	20	QPSK 50_50	132572/1770	1:1	3.830	1.800	0.06	19.58	20.50	1.236	2.225	22.3
Back side	20	QPSK 50_50	132072/1720	1:1	4.570	2.130	0.05	19.55	20.50	1.245	2.651	22.3
Back side	20	QPSK 50_50	132322/1745	1:1	4.640	2.170	-0.01	19.50	20.50	1.259	2.732	22.3
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Back side	20	QPSK 100_0	132072/1720	1:1	4.470	2.040	0.09	19.52	20.50	1.253	2.556	22.3
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 5mm	20	QPSK 1_99	132572/1770	1:1	1.700	0.840	0.11	21.13	22.00	1.222	1.026	22.3
Back side 14mm	20	QPSK 1_99	132572/1770	1:1	0.635	0.343	0.06	21.13	22.00	1.222	0.419	22.3
Left side 9mm	20	QPSK 1_99	132572/1770	1:1	0.748	0.350	-0.18	21.13	22.00	1.222	0.428	22.3
Bottom side 7mm	20	QPSK 1_99	132572/1770	1:1	1.650	0.766	0.16	21.13	22.00	1.222	0.936	22.3
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 5mm	20	QPSK 50_50	132572/1770	1:1	1.410	0.697	-0.11	20.09	21.00	1.233	0.859	22.3
Back side 14mm	20	QPSK 50_50	132572/1770	1:1	0.520	0.281	-0.07	20.09	21.00	1.233	0.347	22.3
Left side 9mm	20	QPSK 50_50	132572/1770	1:1	0.625	0.293	-0.18	20.09	21.00	1.233	0.361	22.3
Bottom side 7mm	20	QPSK 50_50	132572/1770	1:1	1.360	0.631	0.05	20.09	21.00	1.233	0.778	22.3
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.237	0.113	0.09	12.79	14.00	1.321	0.313	22.1
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.347	0.161	-0.08	12.79	14.00	1.321	0.458	22.1
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.338	0.159	0.02	12.79	14.00	1.321	0.447	22.1
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.618	0.269	0.07	12.79	14.00	1.321	0.817	22.1
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.427	0.193	-0.06	12.69	14.00	1.352	0.577	22.1
Right tilted	20	QPSK 1_50	132572/1770	1:1	0.659	0.295	0.00	12.73	14.00	1.340	0.883	22.2
Right tilted with Sample2	20	QPSK 1_50	132572/1770	1:1	0.636	0.282	0.00	12.73	14.00	1.340	0.852	22.2



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Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.291	0.153	-0.06	12.75	14.00	1.334	0.388	22.1
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.338	0.172	0.04	12.75	14.00	1.334	0.451	22.1
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.329	0.170	0.06	12.75	14.00	1.334	0.439	22.1
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.564	0.269	-0.15	12.75	14.00	1.334	0.752	22.1
Head Test Data (100%RB) ECI 2												
Right tilted	20	QPSK 100_0	132322/1745	1:1	0.458	0.224	0.06	12.73	14.00	1.340	0.614	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_50	132572/1770	1:1	0.574	0.286	-0.01	15.05	16.00	1.245	0.714	22.1
Back side	20	QPSK 1_50	132572/1770	1:1	0.638	0.313	0.13	15.05	16.00	1.245	0.794	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_50	132322/1745	1:1	0.405	0.227	0.01	15.03	16.00	1.250	0.506	22.1
Back side	20	QPSK 50_50	132322/1745	1:1	0.537	0.253	0.17	15.03	16.00	1.250	0.671	22.1
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_99	132322/1745	1:1	0.382	0.213	0.17	21.37	22.50	1.297	0.496	22.1
Back side 19mm	20	QPSK 1_99	132322/1745	1:1	0.445	0.248	0.06	21.37	22.50	1.297	0.577	22.2
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_50	132322/1745	1:1	0.302	0.169	0.08	20.33	21.50	1.309	0.395	22.1
Back side 19mm	20	QPSK 50_50	132322/1745	1:1	0.348	0.207	-0.02	20.33	21.50	1.309	0.456	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_50	132572/1770	1:1	0.204	0.111	0.15	12.03	13.00	1.250	0.255	22.1
Back side	20	QPSK 1_50	132572/1770	1:1	0.227	0.121	-0.02	12.03	13.00	1.250	0.284	22.1
Left side	20	QPSK 1_50	132572/1770	1:1	0.037	0.021	-0.14	12.03	13.00	1.250	0.046	22.1
Top side	20	QPSK 1_50	132572/1770	1:1	0.397	0.184	-0.11	12.03	13.00	1.250	0.496	22.1
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_50	132322/1745	1:1	0.175	0.087	-0.15	11.97	13.00	1.268	0.222	22.1
Back side	20	QPSK 50_50	132322/1745	1:1	0.244	0.116	-0.05	11.97	13.00	1.268	0.309	22.1
Left side	20	QPSK 50_50	132322/1745	1:1	0.034	0.018	0.15	11.97	13.00	1.268	0.043	22.1
Top side	20	QPSK 50_50	132322/1745	1:1	0.346	0.146	-0.07	11.97	13.00	1.268	0.439	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	20	QPSK 1_50	132572/1770	1:1	1.660	0.756	0.02	16.04	17.00	1.247	0.943	22.1
Back side	20	QPSK 1_50	132572/1770	1:1	0.818	0.396	0.08	16.04	17.00	1.247	0.494	22.1
Top side	20	QPSK 1_50	132572/1770	1:1	3.830	1.580	0.09	16.04	17.00	1.247	1.971	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	20	QPSK 50_50	132572/1770	1:1	1.870	0.776	0.05	16.03	17.00	1.250	0.970	22.1
Back side	20	QPSK 50_50	132572/1770	1:1	0.857	0.415	-0.09	16.03	17.00	1.250	0.519	22.1
Top side	20	QPSK 50_50	132572/1770	1:1	3.740	1.560	-0.19	16.03	17.00	1.250	1.950	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	20	QPSK 1_99	132322/1745	1:1	0.588	0.317	0.13	21.37	22.50	1.297	0.411	22.1
Back side 7mm	20	QPSK 1_99	132322/1745	1:1	1.070	0.534	0.16	21.37	22.50	1.297	0.693	22.1
Top side 12mm	20	QPSK 1_99	132322/1745	1:1	1.350	0.686	-0.09	21.37	22.50	1.297	0.890	22.1
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												



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Front side 11mm	20	QPSK 50_50	132322/1745	1:1	0.460	0.249	-0.02	20.33	21.50	1.309	0.326	22.1
Back side 7mm	20	QPSK 50_50	132322/1745	1:1	0.843	0.419	-0.15	20.33	21.50	1.309	0.549	22.1
Top side 12mm	20	QPSK 50_50	132322/1745	1:1	1.050	0.534	-0.06	20.33	21.50	1.309	0.699	22.1
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.105	0.066	-0.19	22.72	23.50	1.197	0.126	22.1
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.061	0.037	0.03	22.72	23.50	1.197	0.073	22.1
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.075	0.048	0.16	22.72	23.50	1.197	0.090	22.1
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.057	0.035	-0.04	22.72	23.50	1.197	0.068	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.086	0.055	-0.10	21.73	22.50	1.194	0.103	22.1
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.049	0.029	0.19	21.73	22.50	1.194	0.059	22.1
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.061	0.031	-0.13	21.73	22.50	1.194	0.073	22.1
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.047	0.029	0.10	21.73	22.50	1.194	0.056	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_99	132322/1745	1:1	0.605	0.336	0.13	20.15	21.00	1.216	0.736	22.1
Back side	20	QPSK 1_99	132322/1745	1:1	0.742	0.416	-0.03	20.15	21.00	1.216	0.902	22.1
Back side	20	QPSK 1_50	132072/1720	1:1	0.926	0.522	0.02	20.10	21.00	1.230	1.139	22.1
Back side-Repeated	20	QPSK 1_50	132072/1720	1:1	0.911	0.514	0.03	20.10	21.00	1.230	1.121	22.1
Back side	20	QPSK 1_99	132572/1770	1:1	0.677	0.385	-0.02	19.94	21.00	1.276	0.864	22.1
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_50	132322/1745	1:1	0.586	0.330	-0.05	20.16	21.00	1.213	0.711	22.1
Back side	20	QPSK 50_50	132322/1745	1:1	0.729	0.399	0.08	20.16	21.00	1.213	0.885	22.1
Back side	20	QPSK 50_50	132072/1720	1:1	0.842	0.471	0.10	20.14	21.00	1.219	1.026	22.1
Back side	20	QPSK 50_0	132572/1770	1:1	0.661	0.370	-0.09	20.01	21.00	1.256	0.830	22.1
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	132322/1745	1:1	0.586	0.330	0.07	20.16	21.00	1.213	0.711	22.1
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_99	132322/1745	1:1	0.247	0.157	0.04	22.72	23.50	1.197	0.296	22.1
Back side 19mm	20	QPSK 1_99	132322/1745	1:1	0.324	0.210	0.03	22.72	23.50	1.197	0.388	22.1
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_50	132322/1745	1:1	0.190	0.121	-0.16	21.73	22.50	1.194	0.227	22.1
Back side 19mm	20	QPSK 50_50	132322/1745	1:1	0.274	0.177	-0.10	21.73	22.50	1.194	0.327	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_50	132072/1720	1:1	0.434	0.258	-0.04	19.73	20.50	1.194	0.518	22.1
Back side	20	QPSK 1_50	132072/1720	1:1	0.533	0.319	-0.03	19.73	20.50	1.194	0.636	22.1
Right side	20	QPSK 1_50	132072/1720	1:1	0.079	0.048	0.02	19.73	20.50	1.194	0.094	22.1
Bottom side	20	QPSK 1_50	132072/1720	1:1	0.719	0.396	-0.12	19.73	20.50	1.194	0.858	22.1
Bottom side	20	QPSK 1_99	132322/1745	1:1	0.673	0.342	-0.16	19.71	20.50	1.199	0.807	22.1
Bottom side	20	QPSK 1_99	132572/1770	1:1	0.557	0.283	0.06	19.68	20.50	1.208	0.673	22.1
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_50	132322/1745	1:1	0.415	0.234	0.16	19.78	20.50	1.180	0.490	22.1



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Back side	20	QPSK 50_50	132322/1745	1:1	0.516	0.282	-0.03	19.78	20.50	1.180	0.609	22.1
Right side	20	QPSK 50_50	132322/1745	1:1	0.072	0.042	-0.01	19.78	20.50	1.180	0.085	22.1
Bottom side	20	QPSK 50_50	132322/1745	1:1	0.645	0.324	0.07	19.78	20.50	1.180	0.761	22.1
Bottom side	20	QPSK 50_50	132072/1720	1:1	0.686	0.349	0.01	19.72	20.50	1.197	0.821	22.1
Bottom side	20	QPSK 50_25	132572/1770	1:1	0.494	0.252	-0.11	19.68	20.50	1.208	0.597	22.1
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Bottom side	20	QPSK 100_0	132322/1745	1:1	0.629	0.314	0.06	19.68	20.50	1.208	0.760	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Back side	20	QPSK 1_99	132322/1745	1:1	3.160	1.610	0.08	21.66	22.50	1.213	1.954	22.1
Bottom side	20	QPSK 1_99	132322/1745	1:1	4.545	1.890	0.11	21.66	22.50	1.213	2.293	22.1
Bottom side	20	QPSK 1_50	132072/1720	1:1	5.745	2.247	-0.11	21.59	22.50	1.233	2.771	22.1
Bottom side	20	QPSK 1_99	132572/1770	1:1	3.498	1.481	0.03	21.64	22.50	1.219	1.805	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Back side	20	QPSK 50_50	132322/1745	1:1	3.220	1.640	0.15	21.71	22.50	1.199	1.967	22.1
Bottom side	20	QPSK 50_50	132322/1745	1:1	4.360	1.800	-0.17	21.71	22.50	1.199	2.159	22.1
Bottom side	20	QPSK 50_50	132072/1720	1:1	5.170	2.040	0.14	21.66	22.50	1.213	2.475	22.1
Bottom side	20	QPSK 50_0	132572/1770	1:1	3.800	1.610	0.06	21.61	22.50	1.227	1.976	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Bottom side	20	QPSK 100_0	132322/1745	1:1	3.420	1.560	0.02	21.57	22.50	1.239	1.933	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Back side 12mm	20	QPSK 1_99	132322/1745	1:1	0.422	0.268	-0.11	22.72	23.50	1.197	0.321	22.1
Bottom side 9mm	20	QPSK 1_99	132322/1745	1:1	0.735	0.401	0.12	22.72	23.50	1.197	0.480	22.1
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Back side 12mm	20	QPSK 50_50	132322/1745	1:1	0.350	0.222	-0.15	21.73	22.50	1.194	0.265	22.1
Bottom side 9mm	20	QPSK 50_50	132322/1745	1:1	0.614	0.335	0.04	21.73	22.50	1.194	0.400	22.1
Ant 9 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.484	0.262	-0.01	22.41	23.50	1.285	0.622	22.1
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.096	0.059	0.10	22.41	23.50	1.285	0.123	22.1
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.604	0.293	-0.08	22.41	23.50	1.285	0.776	22.1
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.094	0.056	0.12	22.41	23.50	1.285	0.121	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_25	132572/1770	1:1	0.377	0.204	0.19	21.52	22.50	1.253	0.472	22.1
Left tilted	20	QPSK 50_25	132572/1770	1:1	0.069	0.043	0.04	21.52	22.50	1.253	0.086	22.1
Right cheek	20	QPSK 50_25	132572/1770	1:1	0.462	0.225	-0.15	21.52	22.50	1.253	0.579	22.1
Right tilted	20	QPSK 50_25	132572/1770	1:1	0.074	0.044	-0.16	21.52	22.50	1.253	0.093	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_99	132572/1770	1:1	0.395	0.185	0.04	19.43	20.50	1.279	0.505	22.1
Back side	20	QPSK 1_99	132572/1770	1:1	0.561	0.263	-0.10	19.43	20.50	1.279	0.718	22.1
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												



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Front side	20	QPSK 50_25	132572/1770	1:1	0.364	0.171	-0.18	19.50	20.50	1.259	0.458	22.1
Back side	20	QPSK 50_25	132572/1770	1:1	0.535	0.253	0.03	19.50	20.50	1.259	0.674	22.1
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_99	132322/1745	1:1	0.012	0.006	0.18	22.41	23.50	1.285	0.015	22.1
Back side 19mm	20	QPSK 1_99	132322/1745	1:1	0.117	0.063	-0.02	22.41	23.50	1.285	0.150	22.1
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_25	132572/1770	1:1	0.014	0.007	-0.17	21.52	22.50	1.253	0.018	22.1
Back side 19mm	20	QPSK 50_25	132572/1770	1:1	0.178	0.093	0.09	21.52	22.50	1.253	0.223	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_99	132572/1770	1:1	0.155	0.068	-0.05	14.96	16.00	1.271	0.197	22.1
Back side	20	QPSK 1_99	132572/1770	1:1	0.238	0.098	0.16	14.96	16.00	1.271	0.302	22.1
Left side	20	QPSK 1_99	132572/1770	1:1	0.402	0.166	-0.05	14.96	16.00	1.271	0.511	22.1
Top side	20	QPSK 1_99	132572/1770	1:1	0.016	0.083	0.10	14.96	16.00	1.271	0.020	22.1
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_25	132572/1770	1:1	0.145	0.068	0.10	15.01	16.00	1.256	0.182	22.1
Back side	20	QPSK 50_25	132572/1770	1:1	0.225	0.103	0.13	15.01	16.00	1.256	0.283	22.1
Left side	20	QPSK 50_25	132572/1770	1:1	0.359	0.154	-0.06	15.01	16.00	1.256	0.451	22.1
Top side	20	QPSK 50_25	132572/1770	1:1	0.013	0.008	-0.01	15.01	16.00	1.256	0.016	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)-1g	SAR (W/kg)-10g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Back side	20	QPSK 1_99	132572/1770	1:1	0.865	0.398	0.00	18.21	19.50	1.346	0.536	22.1
Left side	20	QPSK 1_99	132572/1770	1:1	4.200	1.420	-0.15	18.21	19.50	1.346	1.911	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Back side	20	QPSK 50_25	132572/1770	1:1	0.863	0.399	-0.18	18.28	19.50	1.324	0.528	22.1
Left side	20	QPSK 50_25	132572/1770	1:1	4.290	1.500	-0.12	18.28	19.50	1.324	1.987	22.1
Left side	20	QPSK 50_50	132072/1720	1:1	1.030	0.370	-0.18	18.25	19.50	1.334	0.493	22.1
Left side	20	QPSK 50_50	132322/1745	1:1	2.650	0.940	-0.01	18.18	19.50	1.355	1.274	22.1
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Back side 7mm	20	QPSK 1_99	132322/1745	1:1	0.379	0.190	0.14	22.41	23.50	1.285	0.244	22.1
Left side 7mm	20	QPSK 1_99	132322/1745	1:1	0.734	0.313	0.11	22.41	23.50	1.285	0.402	22.1
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Back side 7mm	20	QPSK 50_25	132572/1770	1:1	0.565	0.282	-0.13	21.52	22.50	1.253	0.353	22.1
Left side 7mm	20	QPSK 50_25	132572/1770	1:1	1.330	0.567	-0.08	21.52	22.50	1.253	0.711	22.1

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	132072/1720	0.926	0.911	1.016	N/A	N/A
Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Back side	132322/1745	2.290	2.27	1.009	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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|--|
| 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit). |
| 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 . |
| 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg |
| 5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report. |



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10.2.14 SAR Result of NR Band n5

N5 SAR Test Record													
Ant 0 Test Record													
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head Test Data (1RB) ECI 2													
Left cheek	20	QPSK 1_53	167300/836.5	100%	0.147	0.104	-0.03	22.38	23.50	1.294	0.190	22.5	
Left tilted	20	QPSK 1_53	167300/836.5	100%	0.093	0.068	-0.07	22.38	23.50	1.294	0.120	22.5	
Right cheek	20	QPSK 1_53	167300/836.5	100%	0.102	0.073	0.10	22.38	23.50	1.294	0.132	22.5	
Right tilted	20	QPSK 1_53	167300/836.5	100%	0.059	0.044	0.14	22.38	23.50	1.294	0.076	22.5	
Head Test Data (50%RB) ECI 2													
Left cheek	20	QPSK 50_28	167300/836.5	100%	0.143	0.103	0.01	22.36	23.50	1.300	0.186	22.5	
Left tilted	20	QPSK 50_28	167300/836.5	100%	0.089	0.066	-0.18	22.36	23.50	1.300	0.116	22.5	
Right cheek	20	QPSK 50_28	167300/836.5	100%	0.102	0.073	-0.01	22.36	23.50	1.300	0.133	22.5	
Right tilted	20	QPSK 50_28	167300/836.5	100%	0.054	0.041	-0.13	22.36	23.50	1.300	0.070	22.5	
Body worn Test data (Separate 5mm 1RB) ECI 3													
Front side	20	QPSK 1_53	167300/836.5	100%	0.367	0.216	0.14	22.38	23.50	1.294	0.475	22.5	
Back side	20	QPSK 1_53	167300/836.5	100%	0.797	0.425	-0.02	22.38	23.50	1.294	1.031	22.5	
Back side	20	QPSK 1_53	166800/834	100%	0.878	0.489	0.01	22.33	23.50	1.309	1.149	22.5	
Back side-Repeated	20	QPSK 1_53	166800/834	100%	0.842	0.469	0.05	22.33	23.50	1.309	1.102	22.5	
Back side	20	QPSK 1_53	167800/839	100%	0.723	0.410	0.11	22.34	23.50	1.306	0.944	22.5	
Body worn Test data (Separate 5mm 50%RB) ECI 3													
Front side	20	QPSK 50_28	167300/836.5	100%	0.366	0.220	-0.17	22.36	23.50	1.300	0.476	22.5	
Back side	20	QPSK 50_28	167300/836.5	100%	0.758	0.418	0.16	22.36	23.50	1.300	0.986	22.5	
Back side	20	QPSK 50_28	166800/834	100%	0.766	0.428	-0.03	22.36	23.50	1.300	0.996	22.5	
Back side	20	QPSK 50_28	167800/839	100%	0.732	0.407	0.15	22.34	23.50	1.306	0.956	22.5	
Body worn Test data (Separate 5mm 100%RB) ECI 3													
Back side	20	QPSK 100_0	166800/834	100%	0.591	0.343	-0.04	21.29	22.50	1.321	0.781	22.5	
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_53	167300/836.5	100%	0.367	0.216	0.14	22.38	23.50	1.294	0.475	22.5	
Back side	20	QPSK 1_53	167300/836.5	100%	0.797	0.425	-0.02	22.38	23.50	1.294	1.031	22.5	
Left side	20	QPSK 1_53	167300/836.5	100%	0.262	0.169	-0.08	22.38	23.50	1.294	0.339	22.5	
Bottom side	20	QPSK 1_53	167300/836.5	100%	0.521	0.258	0.02	22.38	23.50	1.294	0.674	22.5	
Back side	20	QPSK 1_53	166800/834	100%	0.878	0.489	0.01	22.33	23.50	1.309	1.149	22.5	
Back side-Repeated	20	QPSK 1_53	166800/834	100%	0.842	0.469	0.05	22.33	23.50	1.309	1.102	22.5	
Back side	20	QPSK 1_53	167800/839	100%	0.723	0.410	0.11	22.34	23.50	1.306	0.944	22.5	
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_28	167300/836.5	100%	0.366	0.220	-0.17	22.36	23.50	1.300	0.476	22.5	
Back side	20	QPSK 50_28	167300/836.5	100%	0.758	0.418	0.16	22.36	23.50	1.300	0.986	22.5	
Left side	20	QPSK 50_28	167300/836.5	100%	0.262	0.168	-0.05	22.36	23.50	1.300	0.341	22.5	
Bottom side	20	QPSK 50_28	167300/836.5	100%	0.474	0.255	-0.12	22.36	23.50	1.300	0.616	22.5	
Back side	20	QPSK 50_28	166800/834	100%	0.766	0.428	-0.03	22.36	23.50	1.300	0.996	22.5	
Back side	20	QPSK 50_28	167800/839	100%	0.732	0.407	0.15	22.34	23.50	1.306	0.956	22.5	



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Body worn Test data (Separate 5mm 100%RB) ECI 3												
Back side	20	QPSK 100_0	166800/834	100%	0.591	0.343	-0.04	21.29	22.50	1.321	0.781	22.5
Ant 1 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_53	167300/836.5	100%	0.390	0.270	0.10	21.72	22.50	1.197	0.467	22.5
Left tilted	20	QPSK 1_53	167300/836.5	100%	0.372	0.239	0.00	21.72	22.50	1.197	0.445	22.5
Right cheek	20	QPSK 1_53	167300/836.5	100%	0.689	0.378	-0.07	21.72	22.50	1.197	0.825	22.5
Right tilted	20	QPSK 1_53	167300/836.5	100%	0.605	0.315	0.05	21.72	22.50	1.197	0.724	22.5
Right cheek	20	QPSK 1_53	166800/834	100%	0.699	0.386	0.00	21.68	22.50	1.208	0.844	22.5
Right cheek	20	QPSK 1_53	167800/839	100%	0.672	0.378	-0.16	21.69	22.50	1.205	0.810	22.5
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_28	167300/836.5	100%	0.378	0.266	0.16	21.69	22.50	1.205	0.456	22.5
Left tilted	20	QPSK 50_28	167300/836.5	100%	0.366	0.237	-0.06	21.69	22.50	1.205	0.441	22.5
Right cheek	20	QPSK 50_28	167300/836.5	100%	0.707	0.380	0.03	21.69	22.50	1.205	0.852	22.5
Right tilted	20	QPSK 50_28	167300/836.5	100%	0.599	0.310	-0.05	21.69	22.50	1.205	0.722	22.5
Right cheek	20	QPSK 50_28	166800/834	100%	0.635	0.367	0.00	21.67	22.50	1.211	0.769	22.5
Right cheek	20	QPSK 50_28	167800/839	100%	0.618	0.358	-0.01	21.66	22.50	1.213	0.750	22.5
Head Test Data (100%RB) ECI 2												
Right cheek	20	QPSK 100_0	166800/834	100%	0.603	0.327	-0.06	20.70	21.50	1.202	0.725	22.5
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	20	QPSK 1_53	167300/836.5	100%	0.263	0.160	-0.06	21.72	22.50	1.197	0.315	22.5
Back side	20	QPSK 1_53	167300/836.5	100%	0.413	0.236	0.15	21.72	22.50	1.197	0.494	22.5
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	20	QPSK 50_28	167300/836.5	100%	0.262	0.160	-0.09	21.69	22.50	1.205	0.316	22.5
Back side	20	QPSK 50_28	167300/836.5	100%	0.400	0.235	-0.17	21.69	22.50	1.205	0.482	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_53	167300/836.5	100%	0.263	0.160	-0.06	21.72	22.50	1.197	0.315	22.5
Back side	20	QPSK 1_53	167300/836.5	100%	0.413	0.236	0.15	21.72	22.50	1.197	0.494	22.5
Left side	20	QPSK 1_53	167300/836.5	100%	0.102	0.052	0.18	21.72	22.50	1.197	0.122	22.5
Top side	20	QPSK 1_53	167300/836.5	100%	0.319	0.161	0.19	21.72	22.50	1.197	0.382	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_28	167300/836.5	100%	0.262	0.160	-0.09	21.69	22.50	1.205	0.316	22.5
Back side	20	QPSK 50_28	167300/836.5	100%	0.400	0.235	-0.17	21.69	22.50	1.205	0.482	22.5
Left side	20	QPSK 50_28	167300/836.5	100%	0.118	0.056	0.06	21.69	22.50	1.205	0.142	22.5
Top side	20	QPSK 50_28	167300/836.5	100%	0.321	0.163	-0.15	21.69	22.50	1.205	0.387	22.5

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	166800/834	0.878	0.842	1.043	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.15 SAR Result of NR Band n41

N41 SAR Test Record												
Ant 0 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	100	QPSK 1_1	513900/2569.5	100%	0.168	0.093	0.03	22.02	23.00	1.253	0.211	22.5
Left tilted	100	QPSK 1_1	513900/2569.5	100%	0.052	0.028	-0.05	22.02	23.00	1.253	0.065	22.5
Right cheek	100	QPSK 1_1	513900/2569.5	100%	0.120	0.069	-0.03	22.02	23.00	1.253	0.150	22.5
Right tilted	100	QPSK 1_1	513900/2569.5	100%	0.082	0.043	0.13	22.02	23.00	1.253	0.103	22.5
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	513900/2569.5	100%	0.156	0.084	0.19	22.11	23.00	1.227	0.191	22.5
Left tilted	100	QPSK 135_69	513900/2569.5	100%	0.042	0.023	-0.07	22.11	23.00	1.227	0.052	22.5
Right cheek	100	QPSK 135_69	513900/2569.5	100%	0.110	0.062	-0.14	22.11	23.00	1.227	0.135	22.5
Right tilted	100	QPSK 135_69	513900/2569.5	100%	0.068	0.036	-0.05	22.11	23.00	1.227	0.083	22.5
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_1	513900/2569.5	100%	0.397	0.188	-0.08	16.51	17.50	1.256	0.499	22.5
Back side	100	QPSK 1_1	513900/2569.5	100%	0.716	0.324	0.06	16.51	17.50	1.256	0.899	22.5
Back side	100	QPSK 1_137	509202/2546.01	100%	0.803	0.303	0.10	16.38	17.50	1.294	1.039	22.5
Back side	100	QPSK 1_137	518598/2592.99	100%	0.719	0.309	-0.07	16.40	17.50	1.288	0.926	22.5
Back side	100	QPSK 1_137	523302/2616.51	100%	0.652	0.268	0.13	16.32	17.50	1.312	0.856	22.5
Back side	100	QPSK 1_271	528000/2640	100%	0.676	0.270	0.14	16.40	17.50	1.288	0.871	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.363	0.179	-0.16	16.63	17.50	1.222	0.444	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	0.894	0.338	-0.02	16.63	17.50	1.222	1.092	22.5
Back side	100	QPSK 135_69	509202/2546.01	100%	0.834	0.323	-0.15	16.57	17.50	1.239	1.033	22.5
Back side	100	QPSK 135_69	518598/2592.99	100%	0.766	0.318	-0.05	16.45	17.50	1.274	0.976	22.5
Back side	100	QPSK 135_69	523302/2616.51	100%	0.686	0.285	0.04	16.47	17.50	1.268	0.870	22.5
Back side	100	QPSK 135_69	528000/2640	100%	0.921	0.335	-0.09	16.48	17.50	1.265	1.165	22.5
Back side-Repeated	100	QPSK 135_69	528000/2640	100%	0.903	0.323	-0.04	16.48	17.50	1.265	1.142	22.5
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	100	QPSK 270_0	513900/2569.5	100%	0.464	0.209	0.04	15.29	16.50	1.321	0.613	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_1	513900/2569.5	100%	0.214	0.115	0.10	22.02	23.00	1.253	0.268	22.5
Back side 16mm	100	QPSK 1_1	513900/2569.5	100%	0.312	0.157	0.15	22.02	23.00	1.253	0.391	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	513900/2569.5	100%	0.136	0.074	-0.07	22.11	23.00	1.227	0.167	22.5
Back side 16mm	100	QPSK 135_69	513900/2569.5	100%	0.232	0.115	-0.01	22.11	23.00	1.227	0.285	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_1	513900/2569.5	100%	0.397	0.188	-0.08	16.51	17.50	1.256	0.499	22.5
Back side	100	QPSK 1_1	513900/2569.5	100%	0.716	0.324	0.06	16.51	17.50	1.256	0.899	22.5
Left side	100	QPSK 1_1	513900/2569.5	100%	0.051	0.027	0.10	16.51	17.50	1.256	0.064	22.5
Bottom side	100	QPSK 1_1	513900/2569.5	100%	0.469	0.230	-0.10	16.51	17.50	1.256	0.589	22.5
Back side	100	QPSK 1_137	509202/2546.01	100%	0.803	0.303	0.10	16.38	17.50	1.294	1.039	22.5



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Back side	100	QPSK 1_137	518598/2592.99	100%	0.719	0.309	-0.07	16.40	17.50	1.288	0.926	22.5
Back side	100	QPSK 1_137	523302/2616.51	100%	0.652	0.268	0.13	16.32	17.50	1.312	0.856	22.5
Back side	100	QPSK 1_271	528000/2640	100%	0.676	0.270	0.14	16.40	17.50	1.288	0.871	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.363	0.179	-0.16	16.63	17.50	1.222	0.444	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	0.894	0.338	-0.02	16.63	17.50	1.222	1.092	22.5
Left side	100	QPSK 135_69	513900/2569.5	100%	0.146	0.064	-0.02	16.63	17.50	1.222	0.178	22.5
Bottom side	100	QPSK 135_69	513900/2569.5	100%	0.485	0.194	0.07	16.63	17.50	1.222	0.593	22.5
Back side	100	QPSK 135_69	509202/2546.01	100%	0.834	0.323	-0.15	16.57	17.50	1.239	1.033	22.5
Back side	100	QPSK 135_69	518598/2592.99	100%	0.766	0.318	-0.05	16.45	17.50	1.274	0.976	22.5
Back side	100	QPSK 135_69	523302/2616.51	100%	0.686	0.285	0.04	16.47	17.50	1.268	0.870	22.5
Back side	100	QPSK 135_69	528000/2640	100%	0.921	0.335	-0.09	16.48	17.50	1.265	1.165	22.5
Back side-Repeated	100	QPSK 135_69	528000/2640	100%	0.903	0.323	-0.04	16.48	17.50	1.265	1.142	22.5
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	100	QPSK 270_0	513900/2569.5	100%	0.464	0.209	0.04	15.29	16.50	1.321	0.613	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	100	QPSK 1_1	513900/2569.5	100%	3.340	1.350	-0.16	20.21	21.00	1.199	1.619	22.5
Back side	100	QPSK 1_1	513900/2569.5	100%	5.460	1.970	0.02	20.21	21.00	1.199	2.363	22.5
Bottom side	100	QPSK 1_1	513900/2569.5	100%	2.830	1.090	0.19	20.21	21.00	1.199	1.307	22.5
Front side	100	QPSK 1_137	509202/2546.01	100%	2.280	0.993	0.15	19.85	21.00	1.303	1.294	22.5
Front side	100	QPSK 1_1	518598/2592.99	100%	2.650	1.260	-0.10	19.99	21.00	1.262	1.590	22.5
Front side	100	QPSK 1_271	523302/2616.51	100%	1.170	0.503	-0.09	19.82	21.00	1.312	0.660	22.5
Front side	100	QPSK 1_271	528000/2640	100%	1.670	0.718	0.03	19.99	21.00	1.262	0.906	22.5
Back side	100	QPSK 1_137	509202/2546.01	100%	5.320	1.910	0.05	19.85	21.00	1.303	2.489	22.5
Back side	100	QPSK 1_1	518598/2592.99	100%	5.650	2.110	0.00	19.99	21.00	1.262	2.662	22.5
Back side	100	QPSK 1_271	523302/2616.51	100%	4.650	1.600	0.17	19.82	21.00	1.312	2.100	22.5
Back side	100	QPSK 1_271	528000/2640	100%	2.070	0.823	0.11	19.99	21.00	1.262	1.038	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	100	QPSK 135_69	509202/2546.01	100%	2.680	1.100	-0.11	20.25	21.00	1.189	1.307	22.5
Back side	100	QPSK 135_69	509202/2546.01	100%	5.120	1.940	0.17	20.25	21.00	1.189	2.306	22.5
Bottom side	100	QPSK 135_69	509202/2546.01	100%	3.040	1.010	-0.11	20.25	21.00	1.189	1.200	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	4.590	1.780	-0.02	20.01	20.00	0.998	1.776	22.5
Back side	100	QPSK 135_69	518598/2592.99	100%	4.850	1.770	-0.03	20.04	21.00	1.247	2.208	22.5
Back side	100	QPSK 135_69	523302/2616.51	100%	4.420	1.820	0.00	19.81	21.00	1.315	2.394	22.5
Back side	100	QPSK 135_69	528000/2640	100%	2.560	0.959	0.07	20.05	21.00	1.245	1.193	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Back side	100	QPSK 270_0	528000/2640	100%	2.900	0.914	0.02	18.88	20.00	1.294	1.183	22.5
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 5mm	100	QPSK 1_1	513900/2569.5	100%	1.330	0.625	-0.09	22.02	23.00	1.253	0.783	22.5
Back side 14mm	100	QPSK 1_1	513900/2569.5	100%	0.422	0.202	0.00	22.02	23.00	1.253	0.253	22.5
Bottom side 7mm	100	QPSK 1_1	513900/2569.5	100%	0.970	0.461	-0.03	22.02	23.00	1.253	0.578	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												



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Front side 5mm	100	QPSK 135_69	513900/2569.5	100%	0.680	0.352	0.13	22.11	23.00	1.227	0.432	22.5
Back side 14mm	100	QPSK 135_69	513900/2569.5	100%	0.267	0.128	0.17	22.11	23.00	1.227	0.157	22.5
Bottom side 7mm	100	QPSK 135_69	513900/2569.5	100%	0.553	0.222	-0.01	22.11	23.00	1.227	0.272	22.5
Ant 1 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	100	QPSK 1_137	518598/2592.99	100%	0.137	0.074	-0.02	16.10	17.00	1.230	0.169	22.3
Left tilted	100	QPSK 1_137	518598/2592.99	100%	0.169	0.076	-0.06	16.10	17.00	1.230	0.208	22.3
Right cheek	100	QPSK 1_137	518598/2592.99	100%	0.545	0.267	-0.18	16.10	17.00	1.230	0.670	22.3
Right tilted	100	QPSK 1_137	518598/2592.99	100%	0.518	0.230	-0.12	16.10	17.00	1.230	0.637	22.3
Right cheek	100	QPSK 1_137	509202/2546.01	100%	0.457	0.225	-0.01	16.00	17.00	1.259	0.575	22.3
Right cheek	100	QPSK 1_137	518598/2592.99	100%	0.506	0.248	0.00	16.06	17.00	1.242	0.628	22.3
Right cheek	100	QPSK 1_137	523302/2616.51	100%	0.479	0.234	-0.19	15.86	17.00	1.300	0.623	22.3
Right cheek	100	QPSK 1_1	528000/2640	100%	0.338	0.163	-0.10	15.99	17.00	1.262	0.426	22.3
Right tilted	100	QPSK 1_137	509202/2546.01	100%	0.435	0.187	0.19	16.00	17.00	1.259	0.548	22.3
Right tilted	100	QPSK 1_137	518598/2592.99	100%	0.481	0.205	0.00	16.06	17.00	1.242	0.597	22.3
Right tilted	100	QPSK 1_137	523302/2616.51	100%	0.456	0.194	-0.07	15.86	17.00	1.300	0.593	22.3
Right tilted	100	QPSK 1_1	528000/2640	100%	0.321	0.136	-0.08	15.99	17.00	1.262	0.405	22.3
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	513900/2569.5	100%	0.135	0.073	-0.18	16.12	17.00	1.225	0.165	22.3
Left tilted	100	QPSK 135_69	513900/2569.5	100%	0.169	0.075	-0.07	16.12	17.00	1.225	0.207	22.3
Right cheek	100	QPSK 135_69	513900/2569.5	100%	0.574	0.290	0.09	16.12	17.00	1.225	0.703	22.3
Right tilted	100	QPSK 135_69	513900/2569.5	100%	0.501	0.227	-0.12	16.12	17.00	1.225	0.614	22.3
Right cheek	100	QPSK 135_69	509202/2546.01	100%	0.481	0.237	-0.09	16.07	17.00	1.239	0.596	22.3
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.533	0.261	0.13	15.95	17.00	1.274	0.679	22.3
Right cheek	100	QPSK 135_69	523302/2616.51	100%	0.505	0.246	0.00	15.91	17.00	1.285	0.649	22.3
Right cheek	100	QPSK 135_69	528000/2640	100%	0.356	0.172	-0.01	15.92	17.00	1.282	0.457	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_137	518598/2592.99	100%	0.262	0.139	0.03	16.10	17.00	1.230	0.322	22.5
Back side	100	QPSK 1_137	518598/2592.99	100%	0.483	0.213	-0.07	16.10	17.00	1.230	0.594	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.279	0.144	-0.09	16.12	17.00	1.225	0.342	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	0.522	0.222	-0.07	16.12	17.00	1.225	0.639	22.5
Back side	100	QPSK 135_69	509202/2546.01	100%	0.550	0.234	0.12	16.07	17.00	1.239	0.681	22.5
Back side	100	QPSK 135_69	518598/2592.99	100%	0.560	0.239	0.06	15.95	17.00	1.274	0.713	22.5
Back side	100	QPSK 135_69	523302/2616.51	100%	0.585	0.236	0.15	15.91	17.00	1.285	0.752	22.5
Back side	100	QPSK 135_69	528000/2640	100%	0.419	0.173	-0.17	15.92	17.00	1.282	0.537	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_137	518598/2592.99	100%	0.259	0.147	0.02	22.08	23.00	1.236	0.320	22.5
Back side 14mm	100	QPSK 1_137	518598/2592.99	100%	0.445	0.206	0.13	22.08	23.00	1.236	0.550	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	513900/2569.5	100%	0.253	0.144	0.08	22.18	23.00	1.208	0.306	22.5
Back side 14mm	100	QPSK 135_69	513900/2569.5	100%	0.447	0.206	0.19	22.18	23.00	1.208	0.540	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												



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Front side	100	QPSK 1_137	518598/2592.99	100%	0.167	0.087	0.12	14.10	15.00	1.230	0.205	22.5
Back side	100	QPSK 1_137	518598/2592.99	100%	0.313	0.134	-0.06	14.10	15.00	1.230	0.385	22.5
Left side	100	QPSK 1_137	518598/2592.99	100%	0.174	0.088	-0.05	14.10	15.00	1.230	0.214	22.5
Top side	100	QPSK 1_137	518598/2592.99	100%	0.423	0.159	-0.06	14.10	15.00	1.230	0.520	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.165	0.087	-0.03	14.21	15.00	1.199	0.198	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	0.280	0.130	-0.18	14.21	15.00	1.199	0.336	22.5
Left side	100	QPSK 135_69	513900/2569.5	100%	0.159	0.081	-0.08	14.21	15.00	1.199	0.191	22.5
Top side	100	QPSK 135_69	513900/2569.5	100%	0.379	0.150	-0.14	14.21	15.00	1.199	0.455	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	100	QPSK 1_137	518598/2592.99	100%	3.200	1.410	0.01	20.65	21.50	1.216	1.715	22.5
Back side	100	QPSK 1_137	518598/2592.99	100%	1.650	0.680	0.17	20.65	21.50	1.216	0.827	22.5
Left side	100	QPSK 1_137	518598/2592.99	100%	3.920	1.650	0.05	20.65	21.50	1.216	2.007	22.5
Top side	100	QPSK 1_137	518598/2592.99	100%	3.280	1.260	0.06	20.65	21.50	1.216	1.532	22.5
Front side	100	QPSK 1_137	509202/2546.01	100%	2.570	1.290	0.13	20.49	21.50	1.262	1.628	22.5
Front side	100	QPSK 1_137	513900/2569.5	100%	3.040	1.380	-0.06	20.63	21.50	1.222	1.686	22.5
Front side	100	QPSK 1_137	523302/2616.51	100%	3.240	1.450	0.05	20.36	21.50	1.300	1.885	22.5
Front side	100	QPSK 1_1	528000/2640	100%	2.260	1.030	0.15	20.56	21.50	1.242	1.279	22.5
Left side	100	QPSK 1_137	509202/2546.01	100%	3.730	1.600	-0.13	20.49	21.50	1.262	2.019	22.5
Left side	100	QPSK 1_137	513900/2569.5	100%	3.960	1.600	-0.09	20.63	21.50	1.222	1.955	22.5
Left side	100	QPSK 1_137	523302/2616.51	100%	3.840	1.560	0.05	20.36	21.50	1.300	2.028	22.5
Left side	100	QPSK 1_1	528000/2640	100%	2.920	1.220	-0.04	20.56	21.50	1.242	1.515	22.5
Top side	100	QPSK 1_137	509202/2546.01	100%	3.190	1.250	0.00	20.49	21.50	1.262	1.577	22.5
Top side	100	QPSK 1_137	513900/2569.5	100%	3.190	1.240	0.08	20.63	21.50	1.222	1.515	22.5
Top side	100	QPSK 1_137	523302/2616.51	100%	3.150	1.220	-0.11	20.36	21.50	1.300	1.586	22.5
Top side	100	QPSK 1_1	528000/2640	100%	2.170	0.980	-0.15	20.56	21.50	1.242	1.217	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	100	QPSK 135_69	513900/2569.5	100%	3.300	1.560	-0.07	20.68	21.50	1.208	1.884	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	1.510	0.670	0.03	20.68	21.50	1.208	0.809	22.5
Left side	100	QPSK 135_69	513900/2569.5	100%	4.220	1.690	0.00	20.68	21.50	1.208	2.041	22.5
Top side	100	QPSK 135_69	513900/2569.5	100%	3.430	1.330	-0.09	20.68	21.50	1.208	1.606	22.5
Front side	100	QPSK 135_69	509202/2546.01	100%	2.910	1.330	0.01	20.65	21.50	1.216	1.618	22.5
Front side	100	QPSK 135_69	518598/2592.99	100%	3.230	1.450	0.11	20.59	21.50	1.233	1.788	22.5
Front side	100	QPSK 135_69	523302/2616.51	100%	3.150	1.440	0.17	20.57	21.50	1.239	1.784	22.5
Front side	100	QPSK 135_69	528000/2640	100%	2.680	1.200	0.13	20.45	21.50	1.274	1.528	22.5
Left side	100	QPSK 135_69	509202/2546.01	100%	4.150	1.680	0.03	20.65	21.50	1.216	2.043	22.5
Left side	100	QPSK 135_69	518598/2592.99	100%	4.120	1.740	0.18	20.59	21.50	1.233	2.146	22.5
Left side with Sample2	100	QPSK 135_69	518598/2592.99	100%	3.980	1.660	0.11	20.59	21.50	1.233	2.047	22.5
Left side	100	QPSK 135_69	523302/2616.51	100%	4.100	1.700	0.05	20.57	21.50	1.239	2.106	22.5
Left side	100	QPSK 135_69	528000/2640	100%	3.790	1.540	-0.09	20.45	21.50	1.274	1.961	22.5
Top side	100	QPSK 135_69	509202/2546.01	100%	3.450	1.330	-0.13	20.65	21.50	1.216	1.618	22.5
Top side	100	QPSK 135_69	518598/2592.99	100%	3.440	1.320	-0.03	20.59	21.50	1.233	1.628	22.5
Top side	100	QPSK 135_69	523302/2616.51	100%	3.380	1.300	-0.14	20.57	21.50	1.239	1.610	22.5



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Top side	100	QPSK 135_69	528000/2640	100%	2.980	1.140	0.13	20.45	21.50	1.274	1.452	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Left side	100	QPSK 270_0	523302/2616.51	100%	3.860	1.410	-0.09	19.43	20.50	1.279	1.804	22.5
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	100	QPSK 1_137	518598/2592.99	100%	0.378	0.208	-0.04	22.08	23.00	1.236	0.257	22.5
Back side 7mm	100	QPSK 1_137	518598/2592.99	100%	1.400	0.596	-0.04	22.08	23.00	1.236	0.737	22.5
Left side 7mm	100	QPSK 1_137	518598/2592.99	100%	0.851	0.421	-0.10	22.08	23.00	1.236	0.520	22.5
Top side 12mm	100	QPSK 1_137	518598/2592.99	100%	0.788	0.355	-0.18	22.08	23.00	1.236	0.439	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	100	QPSK 135_69	513900/2569.5	100%	0.368	0.202	-0.11	22.18	23.00	1.208	0.244	22.5
Back side 7mm	100	QPSK 135_69	513900/2569.5	100%	1.420	0.604	0.07	22.18	23.00	1.208	0.730	22.5
Left side 7mm	100	QPSK 135_69	513900/2569.5	100%	0.829	0.413	-0.03	22.18	23.00	1.208	0.499	22.5
Top side 12mm	100	QPSK 135_69	513900/2569.5	100%	0.816	0.368	-0.08	22.18	23.00	1.208	0.444	22.5
Ant 2 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) ECI 2												
Left cheek	100	QPSK 1_1	513900/2569.5	100%	0.110	0.063	0.06	22.64	23.50	1.219	0.134	22.5
Left tilted	100	QPSK 1_1	513900/2569.5	100%	0.096	0.049	0.19	22.64	23.50	1.219	0.117	22.5
Right cheek	100	QPSK 1_1	513900/2569.5	100%	0.196	0.106	0.08	22.64	23.50	1.219	0.239	22.5
Right cheek with Sample2	100	QPSK 1_1	513900/2569.5	100%	0.189	0.101	0.06	22.64	23.50	1.219	0.230	22.5
Right tilted	100	QPSK 1_1	513900/2569.5	100%	0.047	0.025	0.08	22.64	23.50	1.219	0.057	22.5
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	513900/2569.5	100%	0.109	0.060	-0.19	22.65	23.50	1.216	0.133	22.5
Left tilted	100	QPSK 135_69	513900/2569.5	100%	0.091	0.047	-0.11	22.65	23.50	1.216	0.111	22.5
Right cheek	100	QPSK 135_69	513900/2569.5	100%	0.178	0.096	0.17	22.65	23.50	1.216	0.216	22.5
Right tilted	100	QPSK 135_69	513900/2569.5	100%	0.042	0.022	0.07	22.65	23.50	1.216	0.051	22.5
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	100	QPSK 1_1	513900/2569.5	100%	0.751	0.426	-0.09	22.64	23.50	1.219	0.915	22.5
Back side	100	QPSK 1_1	513900/2569.5	100%	0.612	0.316	-0.01	22.64	23.50	1.219	0.746	22.5
Front side	100	QPSK 1_271	509202/2546.01	100%	0.681	0.388	0.06	22.53	23.50	1.250	0.851	22.5
Front side	100	QPSK 1_137	518598/2592.99	100%	0.725	0.395	-0.08	22.59	23.50	1.233	0.894	22.5
Front side	100	QPSK 1_1	523302/2616.51	100%	0.681	0.377	0.11	22.49	23.50	1.262	0.859	22.5
Front side	100	QPSK 1_1	528000/2640	100%	0.710	0.385	-0.06	22.52	23.50	1.253	0.890	22.5
Back side	100	QPSK 1_271	509202/2546.01	100%	0.555	0.287	-0.05	22.53	23.50	1.250	0.694	22.5
Back side	100	QPSK 1_137	518598/2592.99	100%	0.590	0.293	-0.08	22.59	23.50	1.233	0.728	22.5
Back side	100	QPSK 1_1	523302/2616.51	100%	0.555	0.279	0.00	22.49	23.50	1.262	0.700	22.5
Back side	100	QPSK 1_1	528000/2640	100%	0.579	0.285	-0.13	22.52	23.50	1.253	0.726	22.5
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.686	0.403	-0.10	22.65	23.50	1.216	0.834	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	0.588	0.278	-0.06	22.65	23.50	1.216	0.715	22.5
Front side	100	QPSK 135_69	509202/2546.01	100%	0.758	0.419	0.04	22.59	23.50	1.233	0.935	22.5
Front side	100	QPSK 135_69	518598/2592.99	100%	0.729	0.406	0.19	22.62	23.50	1.225	0.893	22.5
Front side	100	QPSK 135_69	523302/2616.51	100%	0.848	0.435	-0.08	22.56	23.50	1.242	1.053	22.5
Front side	100	QPSK 135_69	528000/2640	100%	0.775	0.420	0.05	22.48	23.50	1.265	0.980	22.5



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Back side	100	QPSK 135_69	509202/2546.01	100%	0.618	0.310	0.17	22.59	23.50	1.233	0.762	22.5
Back side	100	QPSK 135_69	518598/2592.99	100%	0.594	0.300	0.02	22.62	23.50	1.225	0.727	22.5
Back side	100	QPSK 135_69	523302/2616.51	100%	0.691	0.322	0.14	22.56	23.50	1.242	0.858	22.5
Back side	100	QPSK 135_69	528000/2640	100%	0.631	0.311	0.19	22.48	23.50	1.265	0.798	22.5
Body worn Test data (Separate 5mm 100%RB) ECI 3												
Front side	100	QPSK 270_0	523302/2616.51	100%	0.591	0.335	0.07	21.52	22.50	1.253	0.741	22.5
Back side	100	QPSK 270_0	523302/2616.51	100%	0.481	0.248	0.13	21.52	22.50	1.253	0.603	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_1	513900/2569.5	100%	0.601	0.321	-0.06	20.29	21.00	1.178	0.708	22.5
Back side	100	QPSK 1_1	513900/2569.5	100%	0.488	0.238	-0.11	20.29	21.00	1.178	0.575	22.5
Right side	100	QPSK 1_1	513900/2569.5	100%	0.191	0.093	-0.08	20.29	21.00	1.178	0.225	22.5
Bottom side	100	QPSK 1_1	513900/2569.5	100%	0.753	0.352	-0.10	20.29	21.00	1.178	0.887	22.5
Front side	100	QPSK 1_271	509202/2546.01	100%	0.587	0.275	-0.01	20.10	21.00	1.230	0.722	22.5
Front side	100	QPSK 1_137	518598/2592.99	100%	0.703	0.335	-0.10	20.19	21.00	1.205	0.847	22.5
Front side	100	QPSK 1_1	523302/2616.51	100%	0.579	0.270	-0.01	20.10	21.00	1.230	0.712	22.5
Front side	100	QPSK 1_1	528000/2640	100%	0.634	0.295	-0.15	20.17	21.00	1.211	0.768	22.5
Bottom side	100	QPSK 1_271	509202/2546.01	100%	0.735	0.344	-0.10	20.10	21.00	1.230	0.904	22.5
Bottom side	100	QPSK 1_137	518598/2592.99	100%	0.915	0.420	0.03	20.19	21.00	1.205	1.103	22.5
Bottom side	100	QPSK 1_1	523302/2616.51	100%	0.726	0.338	-0.03	20.10	21.00	1.230	0.893	22.5
Bottom side	100	QPSK 1_1	528000/2640	100%	0.794	0.370	0.11	20.17	21.00	1.211	0.961	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.549	0.303	-0.01	20.24	21.00	1.191	0.654	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	0.469	0.210	-0.01	20.24	21.00	1.191	0.559	22.5
Right side	100	QPSK 135_69	513900/2569.5	100%	0.158	0.076	-0.09	20.24	21.00	1.191	0.188	22.5
Bottom side	100	QPSK 135_69	513900/2569.5	100%	0.823	0.376	-0.02	20.24	21.00	1.191	0.980	22.5
Front side	100	QPSK 135_69	509202/2546.01	100%	0.526	0.298	0.04	20.22	21.00	1.197	0.629	22.5
Front side	100	QPSK 135_69	518598/2592.99	100%	0.572	0.317	0.04	20.22	21.00	1.197	0.685	22.5
Front side	100	QPSK 135_69	523302/2616.51	100%	0.594	0.336	0.12	20.15	21.00	1.216	0.722	22.5
Front side	100	QPSK 135_69	528000/2640	100%	0.587	0.325	-0.09	20.05	21.00	1.245	0.731	22.5
Bottom side	100	QPSK 135_69	509202/2546.01	100%	0.789	0.370	0.14	20.22	21.00	1.197	0.944	22.5
Bottom side	100	QPSK 135_69	518598/2592.99	100%	0.857	0.393	0.10	20.22	21.00	1.197	1.026	22.5
Bottom side	100	QPSK 135_69	523302/2616.51	100%	0.891	0.417	-0.13	20.15	21.00	1.216	1.084	22.5
Bottom side	100	QPSK 135_69	528000/2640	100%	0.880	0.403	0.07	20.05	21.00	1.245	1.095	22.5
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Front side	100	QPSK 270_0	518598/2592.99	100%	0.504	0.324	-0.13	19.08	20.00	1.236	0.623	22.5
Bottom side	100	QPSK 270_0	518598/2592.99	100%	0.632	0.355	-0.03	19.08	20.00	1.236	0.781	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	100	QPSK 1_1	513900/2569.5	100%	1.920	0.881	0.15	21.33	22.00	1.167	1.028	22.5
Bottom side	100	QPSK 1_1	513900/2569.5	100%	4.830	1.820	0.00	21.33	22.00	1.167	2.124	22.5
Bottom side	100	QPSK 1_271	509202/2546.01	100%	3.940	1.490	0.07	21.12	22.00	1.225	1.825	22.5
Bottom side	100	QPSK 1_137	518598/2592.99	100%	5.410	2.130	0.02	21.24	22.00	1.191	2.537	22.5
Bottom side	100	QPSK 1_1	523302/2616.51	100%	5.280	1.970	0.09	21.07	22.00	1.239	2.440	22.5
Bottom side	100	QPSK 1_1	528000/2640	100%	5.170	2.020	0.01	21.22	22.00	1.197	2.417	22.5



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Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	100	QPSK 135_69	513900/2569.5	100%	1.610	0.740	0.18	21.28	22.00	1.180	0.873	22.5
Bottom side	100	QPSK 135_69	513900/2569.5	100%	5.720	2.180	0.04	21.28	22.00	1.180	2.573	22.5
Bottom side	100	QPSK 135_69	509202/2546.01	100%	4.640	1.750	-0.12	21.21	22.00	1.199	2.099	22.5
Bottom side	100	QPSK 135_69	518598/2592.99	100%	6.660	2.360	0.08	21.26	22.00	1.186	2.798	22.5
Bottom side-Repeated	100	QPSK 135_69	518598/2592.99	100%	6.590	2.300	-0.07	21.26	22.00	1.186	2.727	22.5
Bottom side	100	QPSK 135_69	523302/2616.51	100%	6.500	2.230	0.12	21.17	22.00	1.211	2.700	22.5
Bottom side	100	QPSK 135_69	528000/2640	100%	6.370	2.200	-0.11	21.08	22.00	1.236	2.719	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Bottom side	100	QPSK 270_0	518598/2592.99	100%	4.230	1.610	-0.13	20.11	21.00	1.227	1.976	22.5
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 5mm	100	QPSK 1_1	513900/2569.5	100%	0.628	0.324	-0.16	22.64	23.50	1.219	0.395	22.5
Bottom side 9mm	100	QPSK 1_1	513900/2569.5	100%	0.590	0.292	0.17	22.64	23.50	1.219	0.356	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 5mm	100	QPSK 135_69	513900/2569.5	100%	0.600	0.310	0.05	22.65	23.50	1.216	0.377	22.5
Bottom side 9mm	100	QPSK 135_69	513900/2569.5	100%	0.568	0.284	-0.10	22.65	23.50	1.216	0.345	22.5
Ant 9 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	100	QPSK 1_1	513900/2569.5	100%	0.360	0.137	0.14	18.08	19.00	1.236	0.445	22.5
Left tilted	100	QPSK 1_1	513900/2569.5	100%	0.041	0.021	-0.05	18.08	19.00	1.236	0.051	22.5
Right cheek	100	QPSK 1_1	513900/2569.5	100%	0.541	0.207	-0.10	18.08	19.00	1.236	0.669	22.5
Right tilted	100	QPSK 1_1	513900/2569.5	100%	0.069	0.036	0.11	18.08	19.00	1.236	0.085	22.5
Right cheek	100	QPSK 1_1	509202/2546.01	100%	0.373	0.141	0.03	18.02	19.00	1.253	0.467	22.5
Right cheek	100	QPSK 1_137	518598/2592.99	100%	0.476	0.179	-0.14	18.06	19.00	1.242	0.591	22.5
Right cheek	100	QPSK 1_1	523302/2616.51	100%	0.489	0.184	-0.11	17.91	19.00	1.285	0.629	22.5
Right cheek	100	QPSK 1_1	528000/2640	100%	0.319	0.118	-0.19	18.05	19.00	1.245	0.397	22.5
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	523302/2616.51	100%	0.471	0.173	0.07	18.08	19.00	1.236	0.582	22.5
Left tilted	100	QPSK 135_69	523302/2616.51	100%	0.057	0.274	-0.08	18.08	19.00	1.236	0.070	22.5
Right cheek	100	QPSK 135_69	523302/2616.51	100%	0.566	0.237	-0.03	18.08	19.00	1.236	0.700	22.5
Right tilted	100	QPSK 135_69	523302/2616.51	100%	0.066	0.033	-0.18	18.08	19.00	1.236	0.082	22.5
Right cheek	100	QPSK 135_69	509202/2546.01	100%	0.538	0.230	-0.16	18.05	19.00	1.245	0.670	22.5
Right cheek	100	QPSK 135_69	513900/2569.5	100%	0.509	0.216	-0.01	18.07	19.00	1.239	0.631	22.5
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.489	0.206	0.05	18.06	19.00	1.242	0.607	22.5
Right cheek	100	QPSK 135_69	528000/2640	100%	0.428	0.176	0.03	17.99	19.00	1.262	0.540	22.5
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_1	513900/2569.5	100%	0.267	0.123	-0.18	16.09	17.00	1.233	0.329	22.5
Back side	100	QPSK 1_1	513900/2569.5	100%	0.494	0.209	0.07	16.09	17.00	1.233	0.609	22.5
Back side	100	QPSK 1_1	509202/2546.01	100%	0.602	0.224	0.07	16.08	17.00	1.236	0.744	22.5
Back side	100	QPSK 1_137	518598/2592.99	100%	0.452	0.183	-0.01	16.04	17.00	1.247	0.564	22.5
Back side	100	QPSK 1_1	523302/2616.51	100%	0.466	0.188	0.04	15.94	17.00	1.276	0.595	22.5
Back side	100	QPSK 1_1	528000/2640	100%	0.443	0.163	-0.03	15.54	17.00	1.400	0.620	22.5



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Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.320	0.101	-0.17	16.06	17.00	1.242	0.397	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	0.476	0.197	-0.19	16.06	17.00	1.242	0.591	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_1	513900/2569.5	100%	0.299	0.135	0.05	22.46	23.50	1.271	0.380	22.5
Back side 14mm	100	QPSK 1_1	513900/2569.5	100%	0.327	0.157	0.11	22.46	23.50	1.271	0.415	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	513900/2569.5	100%	0.318	0.146	-0.04	22.48	23.50	1.265	0.402	22.5
Back side 14mm	100	QPSK 135_69	513900/2569.5	100%	0.431	0.203	0.09	22.48	23.50	1.265	0.545	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_1	513900/2569.5	100%	0.084	0.036	0.19	10.58	11.50	1.236	0.104	22.5
Back side	100	QPSK 1_1	513900/2569.5	100%	0.143	0.053	0.17	10.58	11.50	1.236	0.177	22.5
Left side	100	QPSK 1_1	513900/2569.5	100%	0.354	0.128	0.06	10.58	11.50	1.236	0.438	22.5
Top side	100	QPSK 1_1	513900/2569.5	100%	0.004	0.002	0.17	10.58	11.50	1.236	0.005	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.101	0.030	-0.12	10.57	11.50	1.239	0.125	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	0.153	0.058	-0.05	10.57	11.50	1.239	0.190	22.5
Left side	100	QPSK 135_69	513900/2569.5	100%	0.401	0.135	0.03	10.57	11.50	1.239	0.497	22.5
Top side	100	QPSK 135_69	513900/2569.5	100%	0.006	0.003	0.18	10.57	11.50	1.239	0.007	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	100	QPSK 1_1	513900/2569.5	100%	1.480	0.466	0.06	16.09	17.00	1.233	0.575	22.5
Back side	100	QPSK 1_1	513900/2569.5	100%	2.200	0.799	0.18	16.09	17.00	1.233	0.985	22.5
Left side	100	QPSK 1_1	513900/2569.5	100%	5.222	1.590	-0.08	16.09	17.00	1.233	1.961	22.5
Left side	100	QPSK 1_1	509202/2546.01	100%	5.144	1.568	-0.08	16.08	17.00	1.236	1.938	22.5
Left side	100	QPSK 1_137	518598/2592.99	100%	4.858	1.470	0.08	16.04	17.00	1.247	1.834	22.5
Left side	100	QPSK 1_1	523302/2616.51	100%	4.572	1.494	-0.12	15.94	17.00	1.276	1.907	22.5
Left side	100	QPSK 1_1	528000/2640	100%	4.410	1.410	0.09	15.54	17.00	1.400	1.973	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	100	QPSK 135_69	513900/2569.5	100%	1.210	0.493	0.14	16.06	17.00	1.242	0.612	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	2.330	0.847	0.10	16.06	17.00	1.242	1.052	22.5
Left side	100	QPSK 135_69	513900/2569.5	100%	4.502	1.453	0.06	16.06	17.00	1.242	1.804	22.5
Left side	100	QPSK 135_69	509202/2546.01	100%	4.261	1.325	0.18	16.02	17.00	1.253	1.660	22.5
Left side	100	QPSK 135_69	518598/2592.99	100%	5.170	1.590	0.16	16.06	17.00	1.242	1.974	22.5
Left side	100	QPSK 135_69	523302/2616.51	100%	4.754	1.490	0.01	16.03	17.00	1.250	1.863	22.5
Left side	100	QPSK 135_69	528000/2640	100%	4.469	1.396	0.13	16.06	17.00	1.242	1.733	22.5
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	100	QPSK 1_1	513900/2569.5	100%	0.448	0.206	-0.14	22.46	23.50	1.271	0.262	22.5
Back side 7mm	100	QPSK 1_1	513900/2569.5	100%	0.918	0.406	0.15	22.46	23.50	1.271	0.516	22.5
Left side 7mm	100	QPSK 1_1	513900/2569.5	100%	3.040	1.130	0.19	22.46	23.50	1.271	1.436	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	100	QPSK 135_69	513900/2569.5	100%	0.467	0.223	0.17	22.48	23.50	1.265	0.282	22.5
Back side 7mm	100	QPSK 135_69	513900/2569.5	100%	0.992	0.442	-0.15	22.48	23.50	1.265	0.559	22.5



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Left side 7mm	100	QPSK 135_69	513900/2569.5	100%	3.210	1.250	-0.10	22.48	23.50	1.265	1.581	22.5

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	528000/2640	0.921	0.903	1.020	N/A	N/A
Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Bottom side	518598/2592.99	2.360	2.300	1.026	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.16 SAR Result of NR Band n66

N66 SAR Test Record												
Ant 1 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	45	QPSK 1_121	349000/1745	100%	0.340	0.160	0.04	14.28	15.00	1.180	0.401	22.2
Left tilted	45	QPSK 1_121	349000/1745	100%	0.449	0.208	-0.04	14.28	15.00	1.180	0.530	22.2
Right cheek	45	QPSK 1_121	349000/1745	100%	0.542	0.262	-0.07	14.28	15.00	1.180	0.640	22.2
Right tilted	45	QPSK 1_121	349000/1745	100%	0.613	0.282	0.11	14.28	15.00	1.180	0.724	22.2
Head Test Data (50%RB) ECI 2												
Left cheek	45	QPSK 120_60	346500/1732.5	100%	0.271	0.128	-0.15	14.31	15.00	1.172	0.318	22.2
Left tilted	45	QPSK 120_60	346500/1732.5	100%	0.373	0.175	0.07	14.31	15.00	1.172	0.437	22.2
Right cheek	45	QPSK 120_60	346500/1732.5	100%	0.395	0.191	0.03	14.31	15.00	1.172	0.463	22.2
Right tilted	45	QPSK 120_60	346500/1732.5	100%	0.516	0.243	0.02	14.31	15.00	1.172	0.605	22.2
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	45	QPSK 1_121	349000/1745	100%	0.416	0.196	0.04	15.75	16.50	1.189	0.494	22.5
Back side	45	QPSK 1_121	349000/1745	100%	0.648	0.298	-0.09	15.75	16.50	1.189	0.770	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	45	QPSK 120_60	346500/1732.5	100%	0.335	0.156	0.10	15.84	16.50	1.164	0.390	22.5
Back side	45	QPSK 120_60	346500/1732.5	100%	0.520	0.251	0.11	15.84	16.50	1.164	0.605	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	45	QPSK 1_121	349000/1745	100%	0.313	0.159	0.19	21.13	22.00	1.222	0.382	22.5
Back side 14mm	45	QPSK 1_121	349000/1745	100%	0.409	0.228	0.08	21.13	22.00	1.222	0.500	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	45	QPSK 120_60	346500/1732.5	100%	0.304	0.155	0.18	21.20	22.00	1.202	0.365	22.5
Back side 14mm	45	QPSK 120_60	346500/1732.5	100%	0.383	0.213	0.10	21.20	22.00	1.202	0.460	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	45	QPSK 1_121	349000/1745	100%	0.191	0.093	-0.08	12.26	13.00	1.186	0.226	22.5
Back side	45	QPSK 1_121	349000/1745	100%	0.297	0.142	0.09	12.26	13.00	1.186	0.352	22.5
Left side	45	QPSK 1_121	349000/1745	100%	0.030	0.016	0.17	12.26	13.00	1.186	0.036	22.5
Top side	45	QPSK 1_121	349000/1745	100%	0.402	0.180	-0.14	12.26	13.00	1.186	0.477	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	45	QPSK 120_60	346500/1732.5	100%	0.154	0.073	-0.14	12.33	13.00	1.167	0.180	22.5
Back side	45	QPSK 120_60	346500/1732.5	100%	0.239	0.117	0.14	12.33	13.00	1.167	0.279	22.5
Left side	45	QPSK 120_60	346500/1732.5	100%	0.021	0.011	-0.06	12.33	13.00	1.167	0.025	22.5
Top side	45	QPSK 120_60	346500/1732.5	100%	0.338	0.145	0.00	12.33	13.00	1.167	0.394	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	45	QPSK 1_121	351500/1757.5	100%	2.370	0.969	-0.09	17.87	18.50	1.156	1.120	22.5
Back side	45	QPSK 1_121	351500/1757.5	100%	1.260	0.560	0.00	17.87	18.50	1.156	0.647	22.5
Top side	45	QPSK 1_121	351500/1757.5	100%	4.570	1.820	0.01	18.87	19.50	1.156	2.104	22.5
Top side	45	QPSK 1_121	349000/1745	100%	2.770	1.200	-0.05	17.92	18.50	1.143	1.371	22.5



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Top side	45	QPSK 1_121	346500/1732.5	100%	2.800	1.210	-0.10	17.76	18.50	1.186	1.435	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	45	QPSK 120_60	349000/1745	100%	2.300	0.938	0.00	17.90	18.50	1.148	1.077	22.5
Back side	45	QPSK 120_60	349000/1745	100%	1.030	0.493	-0.07	17.90	18.50	1.148	0.566	22.5
Top side	45	QPSK 120_60	349000/1745	100%	3.520	1.450	0.00	17.90	18.50	1.148	1.665	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Top side	45	QPSK 240_0	351500/1757.5	100%	3.370	1.390	0.03	16.83	17.50	1.167	1.622	22.5
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	45	QPSK 1_121	349000/1745	100%	0.429	0.231	-0.12	21.13	22.00	1.222	0.282	22.5
Back side 7mm	45	QPSK 1_121	349000/1745	100%	1.300	0.634	-0.03	21.13	22.00	1.222	0.775	22.5
Top side 12mm	45	QPSK 1_121	349000/1745	100%	0.815	0.417	0.09	21.13	22.00	1.222	0.509	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	45	QPSK 120_60	346500/1732.5	100%	0.380	0.206	0.05	21.20	22.00	1.202	0.248	22.5
Back side 7mm	45	QPSK 120_60	346500/1732.5	100%	1.210	0.593	0.09	21.20	22.00	1.202	0.713	22.5
Top side 12mm	45	QPSK 120_60	346500/1732.5	100%	0.722	0.371	0.08	21.20	22.00	1.202	0.446	22.5
Ant 2 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	45	QPSK 1_1	346500/1732.5	100%	0.069	0.046	0.12	22.74	23.50	1.191	0.082	22.5
Left tilted	45	QPSK 1_1	346500/1732.5	100%	0.055	0.034	-0.11	22.74	23.50	1.191	0.066	22.5
Right cheek	45	QPSK 1_1	346500/1732.5	100%	0.133	0.084	-0.03	22.74	23.50	1.191	0.158	22.5
Right tilted	45	QPSK 1_1	346500/1732.5	100%	0.049	0.031	-0.10	22.74	23.50	1.191	0.058	22.5
Head Test Data (50%RB) ECI 2												
Left cheek	45	QPSK 120_60	346500/1732.5	100%	0.056	0.038	0.13	22.65	23.50	1.216	0.068	22.5
Left tilted	45	QPSK 120_60	346500/1732.5	100%	0.053	0.032	0.15	22.65	23.50	1.216	0.064	22.5
Right cheek	45	QPSK 120_60	346500/1732.5	100%	0.115	0.072	-0.03	22.65	23.50	1.216	0.140	22.5
Right tilted	45	QPSK 120_60	346500/1732.5	100%	0.045	0.028	0.18	22.65	23.50	1.216	0.055	22.5
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	45	QPSK 1_1	346500/1732.5	100%	0.797	0.419	0.03	22.74	23.50	1.191	0.949	22.6
Back side	45	QPSK 1_1	346500/1732.5	100%	0.882	0.504	-0.18	22.74	23.50	1.191	1.051	22.6
Front side	45	QPSK 1_121	349000/1745	100%	0.922	0.485	-0.05	22.73	23.50	1.194	1.101	22.6
Front side	45	QPSK 1_121	351500/1757.5	100%	0.764	0.403	0.02	22.67	23.50	1.211	0.925	22.6
Back side	45	QPSK 1_121	349000/1745	100%	1.020	0.584	-0.09	22.73	23.50	1.194	1.218	22.6
Back side-Repeated	45	QPSK 1_121	349000/1745	100%	0.982	0.568	-0.10	22.73	23.50	1.194	1.172	22.6
Back side with Sample2	45	QPSK 1_121	349000/1745	100%	0.948	0.549	-0.04	22.73	23.50	1.194	1.132	22.6
Back side	45	QPSK 1_121	351500/1757.5	100%	0.846	0.485	0.05	22.67	23.50	1.211	1.024	22.6
Back side with Headset	45	QPSK 1_121	349000/1745	100%	0.875	0.462	-0.19	22.73	23.50	1.194	1.045	22.6
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	45	QPSK 120_60	346500/1732.5	100%	0.788	0.467	0.15	22.65	23.50	1.216	0.958	22.6
Back side	45	QPSK 120_60	346500/1732.5	100%	0.811	0.453	0.19	22.65	23.50	1.216	0.986	22.6
Front side	45	QPSK 120_60	349000/1745	100%	0.797	0.428	0.01	22.58	23.50	1.236	0.985	22.6
Front side	45	QPSK 120_60	351500/1757.5	100%	0.751	0.394	0.15	22.58	23.50	1.236	0.928	22.6
Back side	45	QPSK 120_60	349000/1745	100%	0.882	0.516	0.08	22.58	23.50	1.236	1.090	22.6
Back side	45	QPSK 120_60	351500/1757.5	100%	0.831	0.475	0.09	22.58	23.50	1.236	1.027	22.6



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Body worn Test data (Separate 5mm 100%RB) ECI 3												
Front side	45	QPSK 240_0	346500/1732.5	100%	0.424	0.224	-0.04	21.61	22.50	1.227	0.520	22.6
Back side	45	QPSK 240_0	346500/1732.5	100%	0.509	0.285	0.10	21.61	22.50	1.227	0.625	22.6
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	45	QPSK 1_1	346500/1732.5	100%	0.640	0.329	0.08	21.08	22.00	1.236	0.791	22.6
Back side	45	QPSK 1_1	346500/1732.5	100%	0.722	0.396	-0.04	21.08	22.00	1.236	0.892	22.6
Right side	45	QPSK 1_1	346500/1732.5	100%	0.378	0.190	-0.08	21.08	22.00	1.236	0.467	22.6
Bottom side	45	QPSK 1_1	346500/1732.5	100%	0.954	0.487	-0.05	21.08	22.00	1.236	1.179	22.6
Bottom side-Repeated	45	QPSK 1_1	346500/1732.5	100%	0.931	0.473	0.16	21.08	22.00	1.236	1.151	22.6
Bottom side with Sample2	45	QPSK 1_1	346500/1732.5	100%	0.711	0.380	-0.02	21.08	22.00	1.236	0.879	22.6
Back side	45	QPSK 1_121	349000/1745	100%	0.670	0.369	-0.09	21.06	22.00	1.242	0.832	22.6
Back side	45	QPSK 1_121	351500/1757.5	100%	0.571	0.298	0.13	20.96	22.00	1.271	0.725	22.6
Bottom side	45	QPSK 1_121	349000/1745	100%	0.906	0.469	-0.04	21.06	22.00	1.242	1.125	22.6
Bottom side	45	QPSK 1_121	351500/1757.5	100%	0.772	0.379	-0.11	20.96	22.00	1.271	0.981	22.6
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	45	QPSK 120_60	346500/1732.5	100%	0.625	0.367	-0.13	21.16	22.00	1.213	0.758	22.6
Back side	45	QPSK 120_60	346500/1732.5	100%	0.653	0.355	-0.08	21.16	22.00	1.213	0.792	22.6
Right side	45	QPSK 120_60	346500/1732.5	100%	0.309	0.154	-0.12	21.16	22.00	1.213	0.375	22.6
Bottom side	45	QPSK 120_60	346500/1732.5	100%	0.807	0.411	-0.17	21.16	22.00	1.213	0.979	22.6
Bottom side	45	QPSK 120_60	349000/1745	100%	0.885	0.450	-0.14	21.06	22.00	1.242	1.099	22.6
Bottom side	45	QPSK 120_60	351500/1757.5	100%	0.772	0.394	-0.18	21.13	22.00	1.222	0.943	22.6
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	45	QPSK 120_60	346500/1732.5	100%	0.490	0.268	0.07	20.07	21.00	1.239	0.607	22.6
Bottom side	45	QPSK 120_60	346500/1732.5	100%	0.509	0.234	0.03	20.07	21.00	1.239	0.631	22.6
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 6												
Back side	45	QPSK 1_1	346500/1732.5	100%	3.370	1.600	0.19	22.74	23.50	1.191	1.906	22.6
Bottom side	45	QPSK 1_1	346500/1732.5	100%	3.010	1.420	-0.12	22.74	23.50	1.191	1.692	22.6
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 6												
Back side	45	QPSK 120_60	346500/1732.5	100%	3.120	1.430	0.08	22.65	23.50	1.216	1.739	22.6
Bottom side	45	QPSK 120_60	346500/1732.5	100%	2.970	1.220	0.01	22.65	23.50	1.216	1.484	22.6

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	349000/1745	1.020	0.932	1.094	N/A	N/A
Bottom side	346500/1732.5	0.954	0.931	1.025	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.17 SAR Result of NR Band n77 (3450-3550)

N77 SAR Test Record												
Ant 4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.395	0.144	-0.01	12.97	13.50	1.130	0.446	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.419	0.143	0.04	12.97	13.50	1.130	0.473	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.228	0.081	0.03	12.97	13.50	1.130	0.258	22.1
Right tilted	100	QPSK 1_271	633334/3500	100%	0.262	0.088	-0.18	12.97	13.50	1.130	0.296	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.388	0.144	0.01	12.87	13.50	1.156	0.449	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.412	0.142	0.01	12.87	13.50	1.156	0.476	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.212	0.077	-0.14	12.87	13.50	1.156	0.245	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.228	0.079	-0.04	12.87	13.50	1.156	0.264	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_271	633334/3500	100%	0.232	0.097	0.00	13.50	14.00	1.122	0.260	22.5
Back side	100	QPSK 1_271	633334/3500	100%	0.431	0.177	-0.10	13.50	14.00	1.122	0.484	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.196	0.086	-0.03	13.35	14.00	1.161	0.228	22.5
Back side	100	QPSK 135_69	633334/3500	100%	0.384	0.157	0.15	13.35	14.00	1.161	0.446	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 15mm	100	QPSK 1_271	633334/3500	100%	0.142	0.070	0.10	21.37	22.00	1.156	0.164	22.5
Back side 19mm	100	QPSK 1_271	633334/3500	100%	0.290	0.140	0.05	21.37	22.00	1.156	0.335	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 15mm	100	QPSK 135_69	633334/3500	100%	0.137	0.067	-0.09	21.22	22.00	1.197	0.164	22.5
Back side 19mm	100	QPSK 135_69	633334/3500	100%	0.272	0.133	0.00	21.22	22.00	1.197	0.326	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_271	633334/3500	100%	0.164	0.069	-0.18	12.17	12.50	1.079	0.177	22.5
Back side	100	QPSK 1_271	633334/3500	100%	0.305	0.125	-0.19	12.17	12.50	1.079	0.329	22.5
Right side	100	QPSK 1_271	633334/3500	100%	0.066	0.031	0.05	12.17	12.50	1.079	0.071	22.5
Top side	100	QPSK 1_271	633334/3500	100%	0.203	0.078	0.04	12.17	12.50	1.079	0.219	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	633334/3500	100%	0.139	0.061	0.10	12.01	12.50	1.119	0.156	22.5
Back side	100	QPSK 135_69	633334/3500	100%	0.272	0.111	0.18	12.01	12.50	1.119	0.304	22.5
Right side	100	QPSK 135_69	633334/3500	100%	0.071	0.032	0.01	12.01	12.50	1.119	0.079	22.5
Top side	100	QPSK 135_69	633334/3500	100%	0.181	0.071	0.14	12.01	12.50	1.119	0.203	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	100	QPSK 1_271	633334/3500	100%	2.130	0.733	-0.02	18.36	18.50	1.033	0.757	22.3
Back side	100	QPSK 1_271	633334/3500	100%	1.120	0.510	0.02	18.36	18.50	1.033	0.527	22.3
Top side	100	QPSK 1_271	633334/3500	100%	6.750	1.790	-0.08	18.36	18.50	1.033	1.849	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												



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Front side	100	QPSK 135_69	633334/3500	100%	1.660	0.655	0.16	17.90	18.50	1.148	0.752	22.3
Back side	100	QPSK 135_69	633334/3500	100%	1.290	0.502	-0.14	17.90	18.50	1.148	0.576	22.3
Top side	100	QPSK 135_69	633334/3500	100%	6.880	1.810	0.16	17.90	18.50	1.148	2.078	22.3
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Top side	100	QPSK 270_0	633334/3500	100%	5.770	1.610	0.05	17.04	17.50	1.112	1.790	22.3
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 7mm	100	QPSK 1_271	633334/3500	100%	0.846	0.368	0.09	21.37	19.50	0.650	0.239	22.3
Back side 12mm	100	QPSK 1_271	633334/3500	100%	0.562	0.263	-0.10	21.37	19.50	0.650	0.171	22.3
Top side 12mm	100	QPSK 1_271	633334/3500	100%	0.482	0.201	-0.13	21.37	19.50	0.650	0.131	22.3
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 7mm	100	QPSK 135_69	633334/3500	100%	0.750	0.334	0.17	21.22	19.50	0.673	0.225	22.3
Back side 12mm	100	QPSK 135_69	633334/3500	100%	0.535	0.251	-0.03	21.22	19.50	0.673	0.169	22.3
Top side 12mm	100	QPSK 135_69	633334/3500	100%	0.386	0.162	0.06	21.22	19.50	0.673	0.109	22.3
Ant 7 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.170	0.082	-0.05	14.47	15.00	1.130	0.192	22.1
Left tilted	100	QPSK 1_1	633334/3500	100%	0.085	0.039	0.13	14.47	15.00	1.130	0.096	22.1
Right cheek	100	QPSK 1_1	633334/3500	100%	0.524	0.184	-0.11	14.47	15.00	1.130	0.592	22.1
Right tilted	100	QPSK 1_1	633334/3500	100%	0.188	0.082	0.15	14.47	15.00	1.130	0.212	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.194	0.094	-0.02	14.03	15.00	1.250	0.243	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.091	0.043	-0.13	14.03	15.00	1.250	0.114	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.598	0.210	-0.09	14.03	15.00	1.250	0.748	22.1
Right cheek with Sample2	100	QPSK 135_69	633334/3500	100%	0.569	0.198	-0.03	14.03	15.00	1.250	0.711	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.210	0.092	-0.05	14.03	15.00	1.250	0.263	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_1	633334/3500	100%	0.333	0.144	-0.15	15.98	16.50	1.127	0.375	22.5
Back side	100	QPSK 1_1	633334/3500	100%	0.603	0.267	-0.18	15.98	16.50	1.127	0.680	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.317	0.127	0.02	15.56	16.50	1.242	0.394	22.5
Back side	100	QPSK 135_69	633334/3500	100%	0.624	0.261	0.13	15.56	16.50	1.242	0.775	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_1	633334/3500	100%	0.336	0.167	0.04	22.84	23.50	1.164	0.391	22.5
Back side 19mm	100	QPSK 1_1	633334/3500	100%	0.329	0.163	0.07	22.84	23.50	1.164	0.383	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	633334/3500	100%	0.376	0.188	0.01	22.47	23.50	1.268	0.477	22.5
Back side 19mm	100	QPSK 135_69	633334/3500	100%	0.366	0.179	0.14	22.47	23.50	1.268	0.464	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_1	633334/3500	100%	0.133	0.057	-0.17	11.89	12.50	1.151	0.153	22.5
Back side	100	QPSK 1_1	633334/3500	100%	0.240	0.106	0.12	11.89	12.50	1.151	0.276	22.5
Left side	100	QPSK 1_1	633334/3500	100%	0.310	0.122	0.16	11.89	12.50	1.151	0.357	22.5
Top side	100	QPSK 1_1	633334/3500	100%	0.048	0.021	0.04	11.89	12.50	1.151	0.055	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												



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Front side	100	QPSK 135_69	633334/3500	100%	0.126	0.051	0.02	11.53	12.50	1.250	0.158	22.5
Back side	100	QPSK 135_69	633334/3500	100%	0.255	0.104	-0.13	11.53	12.50	1.250	0.319	22.5
Left side	100	QPSK 135_69	633334/3500	100%	0.286	0.108	-0.05	11.53	12.50	1.250	0.358	22.5
Top side	100	QPSK 135_69	633334/3500	100%	0.044	0.020	-0.17	11.53	12.50	1.250	0.055	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	100	QPSK 1_1	633334/3500	100%	1.490	0.523	-0.02	17.33	18.00	1.167	0.610	22.3
Back side	100	QPSK 1_1	633334/3500	100%	2.830	1.180	-0.03	17.33	18.00	1.167	1.377	22.3
Left side	100	QPSK 1_1	633334/3500	100%	4.690	1.520	-0.17	17.33	18.00	1.167	1.774	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	100	QPSK 135_69	633334/3500	100%	1.540	0.584	-0.16	17.06	18.00	1.242	0.725	22.3
Back side	100	QPSK 135_69	633334/3500	100%	3.750	1.360	-0.19	17.06	18.00	1.242	1.689	22.3
Left side	100	QPSK 135_69	633334/3500	100%	4.770	1.540	-0.08	17.06	18.00	1.242	1.912	22.3
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	100	QPSK 1_1	633334/3500	100%	0.544	0.262	0.14	22.84	23.50	1.164	0.305	22.3
Back side 7mm	100	QPSK 1_1	633334/3500	100%	0.439	0.199	0.06	22.84	23.50	1.164	0.232	22.3
Left side 7mm	100	QPSK 1_1	633334/3500	100%	1.810	0.777	0.04	22.84	23.50	1.164	0.905	22.3
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	100	QPSK 135_69	633334/3500	100%	0.606	0.291	0.11	22.47	23.50	1.268	0.369	22.3
Back side 7mm	100	QPSK 135_69	633334/3500	100%	0.454	0.205	-0.11	22.47	23.50	1.268	0.260	22.3
Left side 7mm	100	QPSK 135_69	633334/3500	100%	2.060	0.877	0.12	22.47	23.50	1.268	1.112	22.3
Ant 8 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) ECI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.172	0.079	0.12	22.57	23.50	1.239	0.213	22.6
Left tilted	100	QPSK 1_271	633334/3500	100%	0.162	0.070	0.10	22.57	23.50	1.239	0.201	22.6
Right cheek	100	QPSK 1_271	633334/3500	100%	0.269	0.119	-0.18	22.57	23.50	1.239	0.333	22.6
Right tilted	100	QPSK 1_271	633334/3500	100%	0.095	0.044	0.13	22.57	23.50	1.239	0.118	22.6
Head Test Data(50%RB) ECI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.168	0.079	0.07	22.52	23.50	1.253	0.211	22.6
Left tilted	100	QPSK 135_69	633334/3500	100%	0.140	0.062	0.08	22.52	23.50	1.253	0.175	22.6
Right cheek	100	QPSK 135_69	633334/3500	100%	0.245	0.108	-0.16	22.52	23.50	1.253	0.307	22.6
Right tilted	100	QPSK 135_69	633334/3500	100%	0.084	0.039	-0.13	22.52	23.50	1.253	0.105	22.6
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_271	633334/3500	100%	0.251	0.086	0.17	19.47	20.50	1.268	0.318	22.5
Back side	100	QPSK 1_271	633334/3500	100%	0.369	0.125	0.04	19.47	20.50	1.268	0.468	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.218	0.075	0.02	19.38	20.50	1.294	0.282	22.5
Back side	100	QPSK 135_69	633334/3500	100%	0.322	0.113	-0.12	19.38	20.50	1.294	0.417	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_271	633334/3500	100%	0.095	0.044	-0.11	22.57	23.50	1.239	0.118	22.5
Back side 19mm	100	QPSK 1_271	633334/3500	100%	0.111	0.051	-0.06	22.57	23.50	1.239	0.138	22.5



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Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	633334/3500	100%	0.098	0.044	-0.06	22.52	23.50	1.253	0.123	22.5
Back side 19mm	100	QPSK 135_69	633334/3500	100%	0.111	0.050	0.09	22.52	23.50	1.253	0.139	22.5
Hotspot Test data(Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_271	633334/3500	100%	0.126	0.043	0.10	16.30	17.50	1.318	0.166	22.5
Back side	100	QPSK 1_271	633334/3500	100%	0.185	0.063	0.06	16.30	17.50	1.318	0.244	22.5
Right side	100	QPSK 1_271	633334/3500	100%	0.407	0.110	-0.04	16.30	17.50	1.318	0.537	22.5
Bottom side	100	QPSK 1_271	633334/3500	100%	0.042	0.020	-0.10	16.30	17.50	1.318	0.055	22.5
Hotspot Test data(Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	633334/3500	100%	0.109	0.038	0.03	16.22	17.50	1.343	0.146	22.5
Back side	100	QPSK 135_69	633334/3500	100%	0.161	0.057	0.14	16.22	17.50	1.343	0.216	22.5
Right side	100	QPSK 135_69	633334/3500	100%	0.251	0.084	-0.18	16.22	17.50	1.343	0.337	22.5
Bottom side	100	QPSK 135_69	633334/3500	100%	0.041	0.017	-0.07	16.22	17.50	1.343	0.055	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 6												
Right side	100	QPSK 1_271	633334/3500	100%	4.930	1.710	0.13	19.47	20.50	1.268	2.168	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 6												
Right side	100	QPSK 135_69	633334/3500	100%	5.570	1.860	0.08	19.38	20.50	1.294	2.407	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) ECI 6												
Right side	100	QPSK 270_0	633334/3500	100%	4.410	1.510	0.03	18.38	19.50	1.294	1.954	22.5
Ant 10 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) ECI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.278	0.126	0.17	22.25	23.00	1.189	0.330	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.298	0.135	0.08	22.25	23.00	1.189	0.354	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.135	0.067	-0.16	22.25	23.00	1.189	0.160	22.1
Right tilted	100	QPSK 1_271	633334/3500	100%	0.160	0.081	-0.07	22.25	23.00	1.189	0.190	22.1
Head Test Data(50%RB) ECI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.238	0.107	-0.14	21.89	23.00	1.291	0.307	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.272	0.124	-0.12	21.89	23.00	1.291	0.351	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.127	0.060	-0.09	21.89	23.00	1.291	0.164	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.153	0.079	-0.14	21.89	23.00	1.291	0.198	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_271	633334/3500	100%	0.009	0.005	0.07	10.28	11.00	1.180	0.011	22.5
Back side	100	QPSK 1_271	633334/3500	100%	0.310	0.129	0.01	10.28	11.00	1.180	0.366	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.010	0.005	0.18	9.89	11.00	1.291	0.013	22.5
Back side	100	QPSK 135_69	633334/3500	100%	0.311	0.129	0.02	9.89	11.00	1.291	0.402	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 15mm	100	QPSK 1_271	633334/3500	100%	0.100	0.022	-0.09	18.63	19.50	1.222	0.122	22.5
Back side 19mm	100	QPSK 1_271	633334/3500	100%	0.406	0.197	0.05	18.63	19.50	1.222	0.496	22.5



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Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 15mm	100	QPSK 135_69	633334/3500	100%	0.097	0.033	0.13	18.32	19.50	1.312	0.127	22.5
Back side 19mm	100	QPSK 135_69	633334/3500	100%	0.398	0.195	-0.12	18.32	19.50	1.312	0.522	22.5
Hotspot Test data(Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_271	633334/3500	100%	0.007	0.003	0.15	8.68	9.50	1.208	0.008	22.5
Back side	100	QPSK 1_271	633334/3500	100%	0.220	0.091	0.18	8.68	9.50	1.208	0.266	22.5
Right side	100	QPSK 1_271	633334/3500	100%	0.042	0.018	0.13	8.68	9.50	1.208	0.051	22.5
Top side	100	QPSK 1_271	633334/3500	100%	0.035	0.018	0.19	8.68	9.50	1.208	0.042	22.5
Hotspot Test data(Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	633334/3500	100%	0.007	0.003	0.14	8.39	9.50	1.291	0.009	22.5
Back side	100	QPSK 135_69	633334/3500	100%	0.220	0.092	-0.03	8.39	9.50	1.291	0.284	22.5
Right side	100	QPSK 135_69	633334/3500	100%	0.043	0.017	-0.18	8.39	9.50	1.291	0.056	22.5
Top side	100	QPSK 135_69	633334/3500	100%	0.036	0.018	-0.03	8.39	9.50	1.291	0.046	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Back side	100	QPSK 1_271	633334/3500	100%	2.720	0.945	0.12	15.68	16.50	1.208	1.141	22.3
Right side	100	QPSK 1_271	633334/3500	100%	0.467	0.173	0.06	15.68	16.50	1.208	0.209	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Back side	100	QPSK 135_69	633334/3500	100%	2.260	0.776	0.19	15.39	16.50	1.291	1.002	22.3
Right side	100	QPSK 135_69	633334/3500	100%	0.477	0.176	-0.17	15.39	16.50	1.291	0.227	22.3
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Back side 12mm	100	QPSK 1_271	633334/3500	100%	0.710	0.322	-0.01	18.63	19.50	1.222	0.393	22.3
Right side 7mm	100	QPSK 1_271	633334/3500	100%	0.303	0.133	-0.09	18.63	19.50	1.222	0.162	22.3
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Back side 12mm	100	QPSK 135_69	633334/3500	100%	0.724	0.326	-0.18	18.32	19.50	1.312	0.428	22.3
Right side 7mm	100	QPSK 135_69	633334/3500	100%	0.307	0.135	0.01	18.32	19.50	1.312	0.177	22.3



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10.2.18 SAR Result of NR Band n77 (3700-3980)

N77 SAR Test Record												
Ant 4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	100	QPSK 1_1	650000/3750	100%	0.483	0.200	-0.06	12.74	13.50	1.191	0.575	22.1
Left tilted	100	QPSK 1_1	650000/3750	100%	0.599	0.213	0.09	12.74	13.50	1.191	0.714	22.1
Right cheek	100	QPSK 1_1	650000/3750	100%	0.283	0.115	0.17	12.74	13.50	1.191	0.337	22.1
Right tilted	100	QPSK 1_1	650000/3750	100%	0.354	0.133	-0.13	12.74	13.50	1.191	0.422	22.1
Left cheek	100	QPSK 1_1	652400/3786	100%	0.492	0.186	0.08	12.36	13.50	1.300	0.640	22.1
Left cheek	100	QPSK 1_1	654800/3822	100%	0.290	0.132	-0.17	12.32	13.50	1.312	0.381	22.1
Left cheek	100	QPSK 1_1	657200/3858	100%	0.260	0.121	0.09	12.14	13.50	1.368	0.356	22.1
Left cheek	100	QPSK 1_1	659600/3894	100%	0.216	0.099	-0.05	12.13	13.50	1.371	0.296	22.1
Left cheek	100	QPSK 1_1	662000/3930	100%	0.189	0.085	-0.05	11.89	13.50	1.449	0.274	22.1
Left tilted	100	QPSK 1_1	652400/3786	100%	0.610	0.198	0.01	12.41	13.50	1.285	0.784	22.1
Left tilted with Sample2	100	QPSK 1_1	652400/3786	100%	0.597	0.190	0.08	12.41	13.50	1.285	0.767	22.1
Left tilted	100	QPSK 1_1	654800/3822	100%	0.360	0.141	0.09	12.32	13.50	1.312	0.472	22.1
Left tilted	100	QPSK 1_1	657200/3858	100%	0.323	0.129	-0.12	12.14	13.50	1.368	0.442	22.1
Left tilted	100	QPSK 1_1	659600/3894	100%	0.268	0.105	-0.17	12.13	13.50	1.371	0.367	22.1
Left tilted	100	QPSK 1_1	662000/3930	100%	0.235	0.091	-0.02	11.89	13.50	1.449	0.340	22.1
Right tilted	100	QPSK 1_1	652400/3786	100%	0.361	0.124	-0.05	12.36	13.50	1.300	0.469	22.1
Right tilted	100	QPSK 1_1	654800/3822	100%	0.213	0.088	-0.10	12.32	13.50	1.312	0.279	22.1
Right tilted	100	QPSK 1_1	657200/3858	100%	0.191	0.081	-0.06	12.14	13.50	1.368	0.261	22.1
Right tilted	100	QPSK 1_1	659600/3894	100%	0.158	0.066	0.11	12.13	13.50	1.371	0.217	22.1
Right tilted	100	QPSK 1_1	662000/3930	100%	0.139	0.057	-0.02	11.89	13.50	1.449	0.201	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.423	0.179	0.10	12.32	13.50	1.312	0.555	22.1
Left tilted	100	QPSK 135_69	650000/3750	100%	0.551	0.208	-0.04	12.32	13.50	1.312	0.723	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.297	0.113	-0.02	12.32	13.50	1.312	0.390	22.1
Right tilted	100	QPSK 135_69	650000/3750	100%	0.340	0.129	-0.09	12.32	13.50	1.312	0.446	22.1
Left cheek	100	QPSK 135_69	652400/3786	100%	0.425	0.158	-0.13	12.26	13.50	1.330	0.565	22.1
Left cheek	100	QPSK 135_69	654800/3822	100%	0.245	0.108	-0.13	12.22	13.50	1.343	0.329	22.1
Left cheek	100	QPSK 135_69	657200/3858	100%	0.205	0.090	-0.16	12.02	13.50	1.406	0.288	22.1
Left cheek	100	QPSK 135_69	659600/3894	100%	0.187	0.083	0.00	11.81	13.50	1.476	0.276	22.1
Left cheek	100	QPSK 135_69	662000/3930	100%	0.177	0.079	-0.10	11.59	13.50	1.552	0.275	22.1
Left tilted	100	QPSK 135_69	652400/3786	100%	0.554	0.184	0.13	12.26	13.50	1.330	0.737	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.319	0.126	-0.13	12.22	13.50	1.343	0.428	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.267	0.104	-0.08	12.02	13.50	1.406	0.375	22.1
Left tilted	100	QPSK 135_69	659600/3894	100%	0.244	0.097	0.19	11.81	13.50	1.476	0.360	22.1
Left tilted	100	QPSK 135_69	662000/3930	100%	0.230	0.092	0.15	11.59	13.50	1.552	0.357	22.1
Right tilted	100	QPSK 135_69	652400/3786	100%	0.342	0.114	0.05	12.26	13.50	1.330	0.455	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.197	0.078	0.10	12.22	13.50	1.343	0.265	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.165	0.065	0.07	12.02	13.50	1.406	0.232	22.1



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Right tilted	100	QPSK 135_69	659600/3894	100%	0.151	0.060	-0.14	11.81	13.50	1.476	0.223	22.1
Right tilted	100	QPSK 135_69	662000/3930	100%	0.142	0.057	-0.13	11.59	13.50	1.552	0.220	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_1	650000/3750	100%	0.300	0.120	-0.01	13.29	14.00	1.178	0.353	22.5
Back side	100	QPSK 1_1	650000/3750	100%	0.514	0.217	0.08	13.29	14.00	1.178	0.605	22.5
Back side	100	QPSK 1_1	652400/3786	100%	0.576	0.235	-0.15	12.88	14.00	1.294	0.745	22.5
Back side	100	QPSK 1_1	654800/3822	100%	0.574	0.235	0.05	12.77	14.00	1.327	0.762	22.5
Back side	100	QPSK 1_1	657200/3858	100%	0.578	0.239	0.15	12.70	14.00	1.349	0.780	22.5
Back side	100	QPSK 1_1	659600/3894	100%	0.547	0.232	-0.06	12.63	14.00	1.371	0.750	22.5
Back side	100	QPSK 1_1	662000/3930	100%	0.513	0.224	0.01	12.34	14.00	1.466	0.752	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	650000/3750	100%	0.278	0.113	0.10	12.84	14.00	1.306	0.363	22.5
Back side	100	QPSK 135_69	650000/3750	100%	0.542	0.233	0.00	12.84	14.00	1.306	0.708	22.5
Back side	100	QPSK 135_69	652400/3786	100%	0.598	0.247	0.06	12.78	14.00	1.324	0.792	22.5
Back side	100	QPSK 135_69	654800/3822	100%	0.584	0.244	-0.15	12.77	14.00	1.327	0.775	22.5
Back side	100	QPSK 135_69	657200/3858	100%	0.549	0.237	-0.10	12.54	14.00	1.400	0.768	22.5
Back side	100	QPSK 135_69	659600/3894	100%	0.532	0.233	0.11	12.26	14.00	1.493	0.794	22.5
Back side	100	QPSK 135_69	662000/3930	100%	0.562	0.241	0.09	12.14	14.00	1.535	0.862	22.5
Back side with Sample2	100	QPSK 135_69	662000/3930	100%	0.538	0.230	0.03	12.14	14.00	1.535	0.826	22.5
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	100	QPSK 270_0	650000/3750	100%	0.485	0.192	0.17	11.93	13.00	1.279	0.620	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 15mm	100	QPSK 1_1	650000/3750	100%	0.215	0.098	0.00	21.24	22.00	1.191	0.256	22.5
Back side 19mm	100	QPSK 1_1	650000/3750	100%	0.526	0.244	0.03	21.24	22.00	1.191	0.627	22.5
Back side 19mm	100	QPSK 1_1	652400/3786	100%	0.530	0.239	0.19	20.86	22.00	1.300	0.689	22.5
Back side 19mm	100	QPSK 1_1	654800/3822	100%	0.526	0.241	-0.11	20.79	22.00	1.321	0.695	22.5
Back side 19mm	100	QPSK 1_1	657200/3858	100%	0.504	0.232	-0.11	20.65	22.00	1.365	0.688	22.5
Back side 19mm	100	QPSK 1_1	659600/3894	100%	0.517	0.238	0.02	20.62	22.00	1.374	0.710	22.5
Back side 19mm	100	QPSK 1_1	662000/3930	100%	0.543	0.250	-0.15	20.39	22.00	1.449	0.787	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 15mm	100	QPSK 135_69	650000/3750	100%	0.181	0.084	-0.05	20.86	22.00	1.300	0.235	22.5
Back side 19mm	100	QPSK 135_69	650000/3750	100%	0.538	0.248	0.04	20.86	22.00	1.300	0.699	22.5
Back side 19mm	100	QPSK 135_69	652400/3786	100%	0.521	0.241	-0.16	20.77	22.00	1.327	0.692	22.5
Back side 19mm	100	QPSK 135_69	654800/3822	100%	0.517	0.238	-0.02	20.75	22.00	1.334	0.689	22.5
Back side 19mm	100	QPSK 135_69	657200/3858	100%	0.526	0.244	0.15	20.54	22.00	1.400	0.736	22.5
Back side 19mm	100	QPSK 135_69	659600/3894	100%	0.550	0.254	-0.02	20.32	22.00	1.472	0.810	22.5
Back side 19mm	100	QPSK 135_69	662000/3930	100%	0.576	0.266	-0.14	20.39	22.00	1.449	0.834	22.5
Body worn Test data (Separate 100%RB) Sensor off ECI 4												
Back side 19mm	100	QPSK 270_0	650000/3750	100%	0.424	0.195	0.06	19.92	21.00	1.282	0.544	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_1	650000/3750	100%	0.212	0.085	-0.12	11.76	12.50	1.186	0.251	22.5
Back side	100	QPSK 1_1	650000/3750	100%	0.357	0.147	0.00	11.76	12.50	1.186	0.423	22.5
Right side	100	QPSK 1_1	650000/3750	100%	0.080	0.037	-0.06	11.76	12.50	1.186	0.095	22.5
Top side	100	QPSK 1_1	650000/3750	100%	0.282	0.104	0.05	11.76	12.50	1.186	0.334	22.5



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Back side	100	QPSK 1_1	652400/3786	100%	0.356	0.150	0.03	11.39	12.50	1.291	0.460	22.5
Back side	100	QPSK 1_1	654800/3822	100%	0.366	0.153	-0.16	11.33	12.50	1.309	0.479	22.5
Back side	100	QPSK 1_1	657200/3858	100%	0.383	0.157	-0.09	11.19	12.50	1.352	0.518	22.5
Back side	100	QPSK 1_1	659600/3894	100%	0.381	0.154	0.12	11.08	12.50	1.387	0.528	22.5
Back side	100	QPSK 1_1	662000/3930	100%	0.369	0.151	0.04	10.84	12.50	1.466	0.541	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	650000/3750	100%	0.194	0.078	-0.06	11.40	12.50	1.288	0.250	22.5
Back side	100	QPSK 135_69	650000/3750	100%	0.332	0.146	0.12	11.40	12.50	1.288	0.428	22.5
Right side	100	QPSK 135_69	650000/3750	100%	0.062	0.029	-0.12	11.40	12.50	1.288	0.080	22.5
Top side	100	QPSK 135_69	650000/3750	100%	0.306	0.116	0.15	11.40	12.50	1.288	0.394	22.5
Back side	100	QPSK 135_69	652400/3786	100%	0.376	0.157	-0.07	11.29	12.50	1.321	0.497	22.5
Back side	100	QPSK 135_69	654800/3822	100%	0.398	0.163	0.01	11.23	12.50	1.340	0.533	22.5
Back side	100	QPSK 135_69	657200/3858	100%	0.385	0.156	-0.02	11.07	12.50	1.390	0.535	22.5
Back side	100	QPSK 135_69	659600/3894	100%	0.377	0.155	-0.08	10.83	12.50	1.469	0.554	22.5
Back side	100	QPSK 135_69	662000/3930	100%	0.372	0.159	0.00	10.72	12.50	1.507	0.560	22.5
Back side with Sample2	100	QPSK 135_69	662000/3930	100%	0.354	0.147	0.07	10.72	12.50	1.507	0.533	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	100	QPSK 1_1	650000/3750	100%	2.610	0.963	-0.06	17.93	18.50	1.140	1.098	22.5
Back side	100	QPSK 1_1	650000/3750	100%	1.740	0.739	0.05	17.93	18.50	1.140	0.843	22.5
Top side	100	QPSK 1_1	650000/3750	100%	5.490	1.470	0.18	17.93	18.50	1.140	1.676	22.5
Front side	100	QPSK 1_1	652400/3786	100%	2.440	0.832	-0.18	17.24	18.50	1.337	1.112	22.5
Front side	100	QPSK 1_1	654800/3822	100%	2.230	0.763	-0.17	17.19	18.50	1.352	1.032	22.5
Front side	100	QPSK 1_1	657200/3858	100%	1.950	0.674	-0.01	17.07	18.50	1.390	0.937	22.5
Front side	100	QPSK 1_1	659600/3894	100%	1.710	0.599	-0.16	16.96	18.50	1.426	0.854	22.5
Front side	100	QPSK 1_1	662000/3930	100%	1.540	0.556	-0.16	16.80	18.50	1.479	0.822	22.5
Top side	100	QPSK 1_1	652400/3786	100%	4.090	1.290	0.17	17.24	18.50	1.337	1.724	22.5
Top side	100	QPSK 1_1	654800/3822	100%	4.270	1.300	0.15	17.19	18.50	1.352	1.758	22.5
Top side	100	QPSK 1_1	657200/3858	100%	4.470	1.330	0.12	17.07	18.50	1.390	1.849	22.5
Top side	100	QPSK 1_1	659600/3894	100%	4.460	1.350	0.03	16.96	18.50	1.426	1.925	22.5
Top side	100	QPSK 1_1	662000/3930	100%	4.470	1.380	0.10	16.80	18.50	1.479	2.041	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	100	QPSK 135_69	650000/3750	100%	2.510	0.884	0.11	17.53	18.50	1.250	1.105	22.5
Back side	100	QPSK 135_69	650000/3750	100%	1.760	0.720	0.10	17.53	18.50	1.250	0.900	22.5
Top side	100	QPSK 135_69	650000/3750	100%	5.120	1.390	0.09	17.53	18.50	1.250	1.738	22.5
Front side	100	QPSK 135_69	652400/3786	100%	2.220	0.832	-0.11	17.32	18.50	1.312	1.092	22.5
Front side	100	QPSK 135_69	654800/3822	100%	2.300	0.861	-0.17	17.19	18.50	1.352	1.164	22.5
Front side	100	QPSK 135_69	657200/3858	100%	2.340	0.867	0.09	17.16	18.50	1.361	1.180	22.5
Front side	100	QPSK 135_69	659600/3894	100%	2.330	0.879	0.07	16.85	18.50	1.462	1.285	22.5
Front side	100	QPSK 135_69	662000/3930	100%	2.350	0.889	0.09	16.61	18.50	1.545	1.374	22.5
Top side	100	QPSK 135_69	652400/3786	100%	4.440	1.300	-0.09	17.32	18.50	1.312	1.706	22.5
Top side	100	QPSK 135_69	654800/3822	100%	4.600	1.350	-0.13	17.19	18.50	1.352	1.825	22.5
Top side	100	QPSK 135_69	657200/3858	100%	4.660	1.350	-0.06	17.16	18.50	1.361	1.838	22.5
Top side	100	QPSK 135_69	659600/3894	100%	4.650	1.370	-0.14	16.85	18.50	1.462	2.003	22.5



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Top side	100	QPSK 135_69	662000/3930	100%	4.700	1.390	-0.11	16.61	18.50	1.545	2.148	22.5
Top side with Sample2	100	QPSK 135_69	662000/3930	100%	4.530	1.300	-0.17	16.61	18.50	1.545	2.009	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Top side	100	QPSK 270_0	652400/3786	100%	3.370	1.040	0.01	16.30	17.50	1.318	1.371	22.5
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 7mm	100	QPSK 1_1	650000/3750	100%	0.994	0.430	0.14	21.24	22.00	1.191	0.512	22.5
Back side 12mm	100	QPSK 1_1	650000/3750	100%	0.941	0.405	-0.12	21.24	22.00	1.191	0.482	22.5
Top side 12mm	100	QPSK 1_1	650000/3750	100%	0.832	0.336	-0.13	21.24	22.00	1.191	0.400	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 7mm	100	QPSK 135_69	650000/3750	100%	0.841	0.365	-0.01	20.86	22.00	1.300	0.475	22.5
Back side 12mm	100	QPSK 135_69	650000/3750	100%	0.969	0.430	-0.05	20.86	22.00	1.300	0.559	22.5
Top side 12mm	100	QPSK 135_69	650000/3750	100%	0.790	0.322	0.13	20.86	22.00	1.300	0.419	22.5
Ant 7 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) ECI 2												
Left cheek	100	QPSK 1_1	650000/3750	100%	0.231	0.110	-0.10	14.28	15.00	1.180	0.273	22.1
Left tilted	100	QPSK 1_1	650000/3750	100%	0.105	0.046	-0.08	14.28	15.00	1.180	0.124	22.1
Right cheek	100	QPSK 1_1	650000/3750	100%	0.556	0.200	-0.18	14.28	15.00	1.180	0.656	22.1
Right tilted	100	QPSK 1_1	650000/3750	100%	0.227	0.099	0.09	14.28	15.00	1.180	0.268	22.1
Right cheek	100	QPSK 1_1	652400/3786	100%	0.515	0.198	0.03	13.96	15.00	1.271	0.654	22.1
Right cheek	100	QPSK 1_271	654800/3822	100%	0.472	0.180	0.07	13.80	15.00	1.318	0.622	22.1
Right cheek	100	QPSK 1_271	657200/3858	100%	0.449	0.171	-0.06	13.84	15.00	1.306	0.586	22.1
Right cheek	100	QPSK 1_271	659600/3894	100%	0.432	0.163	-0.11	13.82	15.00	1.312	0.567	22.1
Right cheek	100	QPSK 1_271	662000/3930	100%	0.430	0.162	0.11	13.95	15.00	1.274	0.548	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	659600/3894	100%	0.173	0.083	-0.19	13.89	15.00	1.291	0.223	22.1
Left tilted	100	QPSK 135_69	659600/3894	100%	0.076	0.033	-0.01	13.89	15.00	1.291	0.098	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.344	0.135	-0.09	13.89	15.00	1.291	0.444	22.1
Right tilted	100	QPSK 135_69	659600/3894	100%	0.169	0.070	0.02	13.89	15.00	1.291	0.218	22.1
Right cheek	100	QPSK 1_271	650000/3750	100%	0.410	0.164	0.02	13.87	15.00	1.297	0.532	22.1
Right cheek	100	QPSK 1_271	652400/3786	100%	0.376	0.149	0.01	13.59	15.00	1.384	0.520	22.1
Right cheek	100	QPSK 1_271	654800/3822	100%	0.358	0.142	0.14	13.53	15.00	1.403	0.502	22.1
Right cheek	100	QPSK 1_271	657200/3858	100%	0.344	0.135	-0.16	13.61	15.00	1.377	0.474	22.1
Right cheek	100	QPSK 1_271	662000/3930	100%	0.342	0.134	0.12	13.88	15.00	1.294	0.443	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_1	650000/3750	100%	0.384	0.159	-0.05	15.71	16.50	1.199	0.461	22.5
Back side	100	QPSK 1_1	650000/3750	100%	0.694	0.278	-0.11	15.71	16.50	1.199	0.832	22.5
Front side	100	QPSK 1_1	652400/3786	100%	0.346	0.147	0.08	15.48	16.50	1.265	0.438	22.5
Front side	100	QPSK 1_271	654800/3822	100%	0.323	0.136	-0.02	15.28	16.50	1.324	0.428	22.5
Front side	100	QPSK 1_271	657200/3858	100%	0.313	0.129	-0.04	15.30	16.50	1.318	0.413	22.5
Front side	100	QPSK 1_271	659600/3894	100%	0.322	0.132	-0.19	15.39	16.50	1.291	0.416	22.5
Front side	100	QPSK 1_271	662000/3930	100%	0.341	0.134	0.12	15.47	16.50	1.268	0.432	22.5
Back side	100	QPSK 1_1	652400/3786	100%	0.626	0.257	-0.09	15.48	16.50	1.265	0.792	22.5



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Back side	100	QPSK 1_271	654800/3822	100%	0.583	0.237	-0.16	15.28	16.50	1.324	0.772	22.5
Back side	100	QPSK 1_271	657200/3858	100%	0.566	0.226	0.04	15.30	16.50	1.318	0.746	22.5
Back side	100	QPSK 1_271	659600/3894	100%	0.582	0.230	0.03	15.39	16.50	1.291	0.751	22.5
Back side	100	QPSK 1_271	662000/3930	100%	0.617	0.235	-0.09	15.47	16.50	1.268	0.782	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	650000/3750	100%	0.372	0.148	-0.01	15.38	16.50	1.294	0.481	22.5
Back side	100	QPSK 135_69	650000/3750	100%	0.660	0.263	0.12	15.38	16.50	1.294	0.854	22.5
Back side with Sample2	100	QPSK 135_69	650000/3750	100%	0.646	0.256	0.10	15.38	16.50	1.294	0.836	22.5
Front side	100	QPSK 135_69	652400/3786	100%	0.336	0.138	-0.02	15.14	16.50	1.368	0.460	22.5
Front side	100	QPSK 135_69	654800/3822	100%	0.322	0.132	-0.11	14.95	16.50	1.429	0.460	22.5
Front side	100	QPSK 135_69	657200/3858	100%	0.330	0.134	-0.04	15.16	16.50	1.361	0.449	22.5
Front side	100	QPSK 135_69	659600/3894	100%	0.339	0.134	0.05	15.32	16.50	1.312	0.445	22.5
Front side	100	QPSK 135_69	662000/3930	100%	0.343	0.136	-0.18	15.36	16.50	1.300	0.446	22.5
Back side	100	QPSK 135_69	652400/3786	100%	0.596	0.245	0.11	15.14	16.50	1.368	0.815	22.5
Back side	100	QPSK 135_69	654800/3822	100%	0.571	0.234	-0.14	14.95	16.50	1.429	0.816	22.5
Back side	100	QPSK 135_69	657200/3858	100%	0.585	0.238	-0.16	15.16	16.50	1.361	0.796	22.5
Back side	100	QPSK 135_69	659600/3894	100%	0.601	0.239	0.11	15.32	16.50	1.312	0.789	22.5
Back side	100	QPSK 135_69	662000/3930	100%	0.609	0.241	0.07	15.36	16.50	1.300	0.792	22.5
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	100	QPSK 270_0	650000/3750	100%	0.407	0.185	0.04	14.45	15.50	1.274	0.518	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_1	650000/3750	100%	0.470	0.208	-0.06	22.66	23.50	1.213	0.570	22.5
Back side 19mm	100	QPSK 1_1	650000/3750	100%	0.438	0.205	0.03	22.66	23.50	1.213	0.531	22.5
Front side 14mm	100	QPSK 1_1	652400/3786	100%	0.439	0.198	0.15	22.41	23.50	1.285	0.564	22.5
Front side 14mm	100	QPSK 1_271	654800/3822	100%	0.433	0.196	-0.04	22.21	23.50	1.346	0.583	22.5
Front side 14mm	100	QPSK 1_271	657200/3858	100%	0.434	0.196	-0.03	22.26	23.50	1.330	0.577	22.5
Front side 14mm	100	QPSK 1_271	659600/3894	100%	0.436	0.196	-0.02	22.24	23.50	1.337	0.583	22.5
Front side 14mm	100	QPSK 1_271	662000/3930	100%	0.438	0.198	-0.11	22.35	23.50	1.303	0.571	22.5
Back side 19mm	100	QPSK 1_1	652400/3786	100%	0.424	0.199	-0.07	22.41	23.50	1.285	0.545	22.5
Back side 19mm	100	QPSK 1_271	654800/3822	100%	0.419	0.196	0.15	22.21	23.50	1.346	0.564	22.5
Back side 19mm	100	QPSK 1_271	657200/3858	100%	0.419	0.197	0.00	22.26	23.50	1.330	0.557	22.5
Back side 19mm	100	QPSK 1_271	659600/3894	100%	0.421	0.197	0.09	22.24	23.50	1.337	0.563	22.5
Back side 19mm	100	QPSK 1_271	662000/3930	100%	0.423	0.199	0.17	22.35	23.50	1.303	0.551	22.5
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	650000/3750	100%	0.461	0.201	0.02	22.30	23.50	1.318	0.608	22.5
Back side 19mm	100	QPSK 135_69	650000/3750	100%	0.441	0.208	0.17	22.30	23.50	1.318	0.581	22.5
Front side 14mm	100	QPSK 135_69	652400/3786	100%	0.431	0.194	0.02	22.11	23.50	1.377	0.594	22.5
Front side 14mm	100	QPSK 135_69	654800/3822	100%	0.426	0.193	0.06	21.98	23.50	1.419	0.605	22.5
Front side 14mm	100	QPSK 135_69	657200/3858	100%	0.426	0.193	-0.12	22.03	23.50	1.403	0.598	22.5
Front side 14mm	100	QPSK 135_69	659600/3894	100%	0.427	0.193	0.00	22.25	23.50	1.334	0.569	22.5
Front side 14mm	100	QPSK 135_69	662000/3930	100%	0.429	0.194	0.01	22.30	23.50	1.318	0.566	22.5
Back side 19mm	100	QPSK 135_69	652400/3786	100%	0.405	0.190	0.15	22.11	23.50	1.377	0.558	22.5
Back side 19mm	100	QPSK 135_69	654800/3822	100%	0.398	0.187	0.02	21.92	23.50	1.439	0.573	22.5
Back side 19mm	100	QPSK 135_69	657200/3858	100%	0.399	0.188	0.03	22.03	23.50	1.403	0.560	22.5



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Back side 19mm	100	QPSK 135_69	659600/3894	100%	0.401	0.188	0.13	22.25	23.50	1.334	0.535	22.5
Back side 19mm	100	QPSK 135_69	662000/3930	100%	0.403	0.190	-0.07	22.30	23.50	1.318	0.531	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_1	650000/3750	100%	0.163	0.067	0.15	11.73	12.50	1.194	0.195	22.5
Back side	100	QPSK 1_1	650000/3750	100%	0.275	0.112	0.05	11.73	12.50	1.194	0.328	22.5
Left side	100	QPSK 1_1	650000/3750	100%	0.362	0.128	-0.10	11.73	12.50	1.194	0.432	22.5
Top side	100	QPSK 1_1	650000/3750	100%	0.042	0.017	-0.02	11.73	12.50	1.194	0.050	22.5
Left side	100	QPSK 1_1	652400/3786	100%	0.344	0.117	-0.06	11.52	12.50	1.253	0.431	22.5
Left side	100	QPSK 1_271	654800/3822	100%	0.346	0.115	0.04	11.35	12.50	1.303	0.451	22.5
Left side	100	QPSK 1_271	657200/3858	100%	0.350	0.116	0.14	11.32	12.50	1.312	0.459	22.5
Left side	100	QPSK 1_271	659600/3894	100%	0.350	0.117	0.09	11.37	12.50	1.297	0.454	22.5
Left side	100	QPSK 1_271	662000/3930	100%	0.363	0.119	-0.14	11.46	12.50	1.271	0.461	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	662000/3930	100%	0.117	0.048	-0.06	11.43	12.50	1.279	0.150	22.5
Back side	100	QPSK 135_69	662000/3930	100%	0.247	0.096	-0.08	11.43	12.50	1.279	0.316	22.5
Left side	100	QPSK 135_69	662000/3930	100%	0.339	0.132	-0.04	11.43	12.50	1.279	0.434	22.5
Top side	100	QPSK 135_69	662000/3930	100%	0.042	0.019	0.15	11.43	12.50	1.279	0.054	22.5
Left side	100	QPSK 135_69	650000/3750	100%	0.351	0.119	-0.03	11.38	12.50	1.294	0.454	22.5
Left side	100	QPSK 135_69	652400/3786	100%	0.352	0.119	0.11	11.20	12.50	1.349	0.475	22.5
Left side	100	QPSK 135_69	654800/3822	100%	0.353	0.119	-0.09	11.03	12.50	1.403	0.495	22.5
Left side	100	QPSK 135_69	657200/3858	100%	0.363	0.119	-0.06	11.28	12.50	1.324	0.481	22.5
Left side	100	QPSK 135_69	659600/3894	100%	0.372	0.123	0.05	11.45	12.50	1.274	0.474	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	100	QPSK 1_1	650000/3750	100%	1.730	0.654	-0.15	17.40	18.00	1.148	0.751	22.5
Back side	100	QPSK 1_1	650000/3750	100%	3.840	1.390	0.12	17.40	18.00	1.148	1.596	22.5
Left side	100	QPSK 1_1	650000/3750	100%	5.650	1.660	0.15	17.40	18.00	1.148	1.906	22.5
Back side	100	QPSK 1_1	652400/3786	100%	3.540	1.190	-0.19	17.17	18.00	1.211	1.441	22.5
Back side	100	QPSK 1_271	654800/3822	100%	3.550	1.200	0.01	17.05	18.00	1.245	1.493	22.5
Back side	100	QPSK 1_271	657200/3858	100%	3.560	1.210	-0.04	17.01	18.00	1.256	1.520	22.5
Back side	100	QPSK 1_271	659600/3894	100%	3.620	1.240	0.02	17.01	18.00	1.256	1.557	22.5
Back side	100	QPSK 1_271	662000/3930	100%	3.630	1.240	-0.12	17.16	18.00	1.213	1.505	22.5
Left side	100	QPSK 1_1	652400/3786	100%	5.210	1.420	0.01	17.17	18.00	1.211	1.719	22.5
Left side	100	QPSK 1_271	654800/3822	100%	5.220	1.440	0.15	17.05	18.00	1.245	1.792	22.5
Left side	100	QPSK 1_271	657200/3858	100%	5.240	1.450	0.03	17.01	18.00	1.256	1.821	22.5
Left side	100	QPSK 1_271	659600/3894	100%	5.320	1.480	0.08	17.01	18.00	1.256	1.859	22.5
Left side	100	QPSK 1_271	662000/3930	100%	5.340	1.480	0.05	17.16	18.00	1.213	1.796	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	100	QPSK 135_69	662000/3930	100%	1.580	0.505		17.13	18.00	1.222	0.617	22.5
Back side	100	QPSK 135_69	662000/3930	100%	3.310	1.110	-0.12	17.13	18.00	1.222	1.356	22.5
Left side	100	QPSK 135_69	662000/3930	100%	6.180	1.800	0.09	17.13	18.00	1.222	2.199	22.5
Back side	100	QPSK 135_69	650000/3750	100%	3.050	0.950	0.18	16.85	18.00	1.303	1.238	22.5
Back side	100	QPSK 135_69	652400/3786	100%	3.050	0.962	-0.05	16.74	18.00	1.337	1.286	22.5
Back side	100	QPSK 135_69	654800/3822	100%	3.060	0.968	-0.08	16.49	18.00	1.416	1.370	22.5



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Back side	100	QPSK 135_69	657200/3858	100%	3.110	0.987	-0.18	16.76	18.00	1.330	1.313	22.5
Back side	100	QPSK 135_69	659600/3894	100%	3.120	0.987	0.12	16.80	18.00	1.318	1.301	22.5
Left side	100	QPSK 135_69	650000/3750	100%	5.700	1.540	0.01	16.85	18.00	1.303	2.007	22.5
Left side	100	QPSK 135_69	652400/3786	100%	5.710	1.560	-0.14	16.74	18.00	1.337	2.085	22.5
Left side	100	QPSK 135_69	654800/3822	100%	5.730	1.570	0.07	16.49	18.00	1.416	2.223	22.5
Left side	100	QPSK 135_69	657200/3858	100%	5.820	1.600	0.19	16.76	18.00	1.330	2.129	22.5
Left side	100	QPSK 135_69	659600/3894	100%	5.840	1.600	0.01	16.80	18.00	1.318	2.109	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Left side	100	QPSK 270_0	650000/3750	100%	4.430	1.200	-0.07	16.11	17.00	1.227	1.473	22.5
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 11mm	100	QPSK 1_1	650000/3750	100%	0.663	0.296	-0.10	22.66	23.50	1.213	0.359	22.5
Back side 7mm	100	QPSK 1_1	650000/3750	100%	1.950	0.811	0.16	22.66	23.50	1.213	0.984	22.5
Left side 7mm	100	QPSK 1_1	650000/3750	100%	2.830	1.070	-0.13	22.66	23.50	1.213	1.298	22.5
Left side 7mm	100	QPSK 1_1	652400/3786	100%	2.850	1.090	0.02	22.41	23.50	1.285	1.401	22.5
Left side 7mm	100	QPSK 1_271	654800/3822	100%	2.870	1.100	-0.04	22.21	23.50	1.346	1.480	22.5
Left side 7mm	100	QPSK 1_271	657200/3858	100%	2.920	1.110	0.02	22.26	23.50	1.330	1.477	22.5
Left side 7mm	100	QPSK 1_271	659600/3894	100%	2.980	1.100	0.18	22.24	23.50	1.337	1.470	22.5
Left side 7mm	100	QPSK 1_271	662000/3930	100%	2.970	1.120	0.06	22.35	23.50	1.303	1.460	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 11mm	100	QPSK 135_69	650000/3750	100%	0.618	0.273	-0.05	22.30	23.50	1.318	0.360	22.5
Back side 7mm	100	QPSK 135_69	650000/3750	100%	1.800	0.752	-0.17	22.30	23.50	1.318	0.991	22.5
Left side 7mm	100	QPSK 135_69	650000/3750	100%	2.920	1.090	0.06	22.30	23.50	1.318	1.437	22.5
Left side 7mm	100	QPSK 135_69	652400/3786	100%	2.950	1.100	-0.12	22.11	23.50	1.377	1.515	22.5
Left side 7mm	100	QPSK 135_69	654800/3822	100%	2.960	1.110	0.00	21.98	23.50	1.419	1.575	22.5
Left side 7mm	100	QPSK 135_69	657200/3858	100%	3.010	1.120	-0.07	22.03	23.50	1.403	1.571	22.5
Left side 7mm	100	QPSK 135_69	659600/3894	100%	3.080	1.140	0.13	22.25	23.50	1.334	1.520	22.5
Left side 7mm	100	QPSK 135_69	662000/3930	100%	3.060	1.130	-0.04	22.30	23.50	1.318	1.490	22.5
Ant 8 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) ECI 2												
Left cheek	100	QPSK 1_137	650000/3750	100%	0.309	0.141	0.12	22.55	23.50	1.245	0.385	22.6
Left tilted	100	QPSK 1_137	650000/3750	100%	0.299	0.127	0.02	22.55	23.50	1.245	0.372	22.6
Right cheek	100	QPSK 1_137	650000/3750	100%	0.660	0.299	-0.03	22.55	23.50	1.245	0.821	22.6
Right tilted	100	QPSK 1_137	650000/3750	100%	0.212	0.096	0.08	22.55	23.50	1.245	0.264	22.6
Right cheek	100	QPSK 1_1	652400/3786	100%	0.630	0.282	0.06	22.52	23.50	1.253	0.789	22.6
Right cheek	100	QPSK 1_1	654800/3822	100%	0.566	0.253	-0.12	22.11	23.50	1.377	0.780	22.6
Right cheek	100	QPSK 1_137	657200/3858	100%	0.558	0.249	0.10	22.53	23.50	1.250	0.698	22.6
Right cheek	100	QPSK 1_1	659600/3894	100%	0.533	0.238	0.07	21.98	23.50	1.419	0.756	22.6
Right cheek	100	QPSK 1_1	662000/3930	100%	0.551	0.244	-0.17	21.80	23.50	1.479	0.815	22.6
Head Test Data(50%RB) ECI 2												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.292	0.135	-0.07	22.57	23.50	1.239	0.362	22.6
Left tilted	100	QPSK 135_69	650000/3750	100%	0.292	0.124	-0.05	22.57	23.50	1.239	0.362	22.6
Right cheek	100	QPSK 135_69	650000/3750	100%	0.635	0.286	0.04	22.57	23.50	1.239	0.787	22.6



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Right tilted	100	QPSK 135_69	650000/3750	100%	0.198	0.091	-0.15	22.57	23.50	1.239	0.245	22.6
Right cheek	100	QPSK 135_69	652400/3786	100%	0.584	0.262	-0.11	22.27	23.50	1.327	0.775	22.6
Right cheek	100	QPSK 135_69	654800/3822	100%	0.558	0.250	0.00	22.19	23.50	1.352	0.754	22.6
Right cheek	100	QPSK 135_69	657200/3858	100%	0.563	0.252	0.17	22.57	23.50	1.239	0.697	22.6
Right cheek	100	QPSK 135_69	659600/3894	100%	0.597	0.264	0.15	21.82	23.50	1.472	0.879	22.6
Right cheek	100	QPSK 135_69	662000/3930	100%	0.714	0.314	0.04	21.83	23.50	1.469	1.049	22.6
Right cheek with Sample2	100	QPSK 135_69	662000/3930	100%	0.701	0.307	0.08	21.83	23.50	1.469	1.030	22.6
Head Test Data(100%RB) ECI 2												
Right cheek	100	QPSK 270_0	657200/3858	100%	0.502	0.225	-0.03	21.55	22.50	1.245	0.625	22.6
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_1	657200/3858	100%	0.371	0.126	-0.04	19.68	20.50	1.208	0.448	22.6
Back side	100	QPSK 1_1	657200/3858	100%	0.613	0.196	-0.19	19.68	20.50	1.208	0.740	22.6
Front side	100	QPSK 1_137	650000/3750	100%	0.320	0.116	0.14	19.63	20.50	1.222	0.391	22.6
Front side	100	QPSK 1_1	652400/3786	100%	0.324	0.118	-0.14	19.67	20.50	1.211	0.392	22.6
Front side	100	QPSK 1_1	654800/3822	100%	0.304	0.109	-0.01	19.26	20.50	1.330	0.404	22.6
Front side	100	QPSK 1_1	659600/3894	100%	0.271	0.099	0.00	19.13	20.50	1.371	0.372	22.6
Front side	100	QPSK 1_1	662000/3930	100%	0.274	0.101	0.17	18.90	20.50	1.445	0.396	22.6
Back side	100	QPSK 1_137	650000/3750	100%	0.528	0.180	-0.16	19.63	20.50	1.222	0.645	22.6
Back side	100	QPSK 1_1	652400/3786	100%	0.535	0.183	0.02	19.67	20.50	1.211	0.648	22.6
Back side	100	QPSK 1_1	654800/3822	100%	0.502	0.169	0.12	19.26	20.50	1.330	0.668	22.6
Back side	100	QPSK 1_1	659600/3894	100%	0.447	0.154	-0.14	19.13	20.50	1.371	0.613	22.6
Back side	100	QPSK 1_1	662000/3930	100%	0.453	0.157	0.07	18.90	20.50	1.445	0.655	22.6
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	650000/3750	100%	0.443	0.150	0.08	19.69	20.50	1.205	0.534	22.6
Back side	100	QPSK 135_69	650000/3750	100%	0.699	0.224	0.03	19.69	20.50	1.205	0.842	22.6
Back side with Sample2	100	QPSK 135_69	650000/3750	100%	0.676	0.211	0.06	19.69	20.50	1.205	0.815	22.6
Front side	100	QPSK 135_69	652400/3786	100%	0.321	0.115	-0.05	19.38	20.50	1.294	0.415	22.6
Front side	100	QPSK 135_69	654800/3822	100%	0.302	0.109	-0.17	19.24	20.50	1.337	0.404	22.6
Front side	100	QPSK 135_69	657200/3858	100%	0.297	0.110	-0.12	19.67	20.50	1.211	0.360	22.6
Front side	100	QPSK 135_69	659600/3894	100%	0.304	0.113	0.16	18.88	20.50	1.452	0.441	22.6
Front side	100	QPSK 135_69	662000/3930	100%	0.341	0.131	0.09	18.88	20.50	1.452	0.495	22.6
Back side	100	QPSK 135_69	652400/3786	100%	0.506	0.172	-0.12	19.38	20.50	1.294	0.655	22.6
Back side	100	QPSK 135_69	654800/3822	100%	0.477	0.163	-0.08	19.24	20.50	1.337	0.638	22.6
Back side	100	QPSK 135_69	657200/3858	100%	0.468	0.164	-0.07	19.67	20.50	1.211	0.567	22.6
Back side	100	QPSK 135_69	659600/3894	100%	0.480	0.169	-0.10	18.88	20.50	1.452	0.697	22.6
Back side	100	QPSK 135_69	662000/3930	100%	0.538	0.196	0.01	18.88	20.50	1.452	0.781	22.6
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	100	QPSK 135_69	650000/3750	100%	0.555	0.178	-0.17	18.70	19.50	1.202	0.667	22.6
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_137	650000/3750	100%	0.178	0.180	0.03	22.55	23.50	1.245	0.222	22.6
Back side 19mm	100	QPSK 1_137	650000/3750	100%	0.217	0.100	0.11	22.55	23.50	1.245	0.270	22.6
Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	650000/3750	100%	0.172	0.076	0.05	22.57	23.50	1.239	0.213	22.6



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Back side 19mm	100	QPSK 135_69	650000/3750	100%	0.233	0.103	-0.12	22.57	23.50	1.239	0.289	22.6
Hotspot Test data(Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_1	652400/3786	100%	0.210	0.071	0.14	16.65	17.50	1.216	0.255	22.6
Back side	100	QPSK 1_1	652400/3786	100%	0.224	0.085	-0.16	16.65	17.50	1.216	0.272	22.6
Right side	100	QPSK 1_1	652400/3786	100%	0.560	0.184	0.02	16.65	17.50	1.216	0.681	22.6
Bottom side	100	QPSK 1_1	652400/3786	100%	0.059	0.026	0.09	16.65	17.50	1.216	0.072	22.6
Right side	100	QPSK 1_1	650000/3750	100%	0.641	0.208	0.13	16.59	17.50	1.233	0.790	22.6
Right side	100	QPSK 1_1	654800/3822	100%	0.580	0.187	0.00	16.26	17.50	1.330	0.772	22.6
Right side	100	QPSK 1_1	657200/3858	100%	0.555	0.178	0.02	16.63	17.50	1.222	0.678	22.6
Right side	100	QPSK 1_1	659600/3894	100%	0.549	0.176	0.14	16.13	17.50	1.371	0.753	22.6
Right side	100	QPSK 1_1	662000/3930	100%	0.546	0.175	0.05	15.89	17.50	1.449	0.791	22.6
Hotspot Test data(Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	650000/3750	100%	0.181	0.069	-0.16	16.65	17.50	1.216	0.220	22.6
Back side	100	QPSK 135_69	650000/3750	100%	0.237	0.089	-0.02	16.65	17.50	1.216	0.288	22.6
Right side	100	QPSK 135_69	650000/3750	100%	0.597	0.177	-0.03	16.65	17.50	1.216	0.726	22.6
Bottom side	100	QPSK 135_69	650000/3750	100%	0.060	0.028	0.11	16.65	17.50	1.216	0.073	22.6
Right side	100	QPSK 135_69	652400/3786	100%	0.601	0.192	-0.02	16.41	17.50	1.285	0.772	22.6
Right side	100	QPSK 135_69	654800/3822	100%	0.574	0.183	0.18	16.30	17.50	1.318	0.757	22.6
Right side	100	QPSK 135_69	657200/3858	100%	0.565	0.181	0.08	16.64	17.50	1.219	0.689	22.6
Right side	100	QPSK 135_69	659600/3894	100%	0.579	0.184	0.09	15.89	17.50	1.449	0.839	22.6
Right side	100	QPSK 135_69	662000/3930	100%	0.689	0.193	0.06	16.05	17.50	1.396	0.962	22.6
Right side with Sample2	100	QPSK 135_69	662000/3930	100%	0.668	0.182	0.01	16.05	17.50	1.396	0.933	22.6
Hotspot Test data(Separate 5mm 100%RB) ECI 7												
Right side	100	QPSK 270_0	657200/3858	100%	0.394	0.129	0.03	15.65	16.50	1.216	0.479	22.6
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 6												
Right side	100	QPSK 1_1	657200/3858	100%	4.560	1.570	0.09	19.68	20.50	1.208	1.896	22.6
Right side	100	QPSK 1_137	650000/3750	100%	4.160	1.380	-0.14	19.63	20.50	1.222	1.686	22.6
Right side	100	QPSK 1_1	652400/3786	100%	3.750	1.320	-0.01	19.67	20.50	1.211	1.598	22.6
Right side	100	QPSK 1_1	654800/3822	100%	3.310	1.190	-0.17	19.26	20.50	1.330	1.583	22.6
Right side	100	QPSK 1_1	659600/3894	100%	3.020	1.110	0.05	19.13	20.50	1.371	1.522	22.6
Right side	100	QPSK 1_1	662000/3930	100%	2.920	1.090	0.02	18.90	20.50	1.445	1.576	22.6
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 6												
Right side	100	QPSK 135_69	650000/3750	100%	7.710	2.040	-0.04	19.69	20.50	1.205	2.458	22.6
Right side-Repeated	100	QPSK 135_69	650000/3750	100%	5.630	1.970	0.05	19.69	20.50	1.205	2.374	22.6
Right side	100	QPSK 135_69	652400/3786	100%	5.220	1.790	-0.02	19.38	20.50	1.294	2.317	22.6
Right side	100	QPSK 135_69	654800/3822	100%	4.700	1.720	0.08	19.24	20.50	1.337	2.299	22.6
Right side	100	QPSK 135_69	657200/3858	100%	4.150	1.550	-0.02	19.67	20.50	1.211	1.876	22.6
Right side	100	QPSK 135_69	659600/3894	100%	3.790	1.440	-0.15	18.88	20.50	1.452	2.091	22.6
Right side	100	QPSK 135_69	662000/3930	100%	3.660	1.420	-0.01	18.88	20.50	1.452	2.062	22.6
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 6												
Right side	100	QPSK 270_0	657200/3858	100%	3.740	1.330	-0.16	18.70	19.50	1.202	1.599	22.6



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Ant 10 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) ECI 2												
Left cheek	100	QPSK 1_1	650000/3750	100%	0.202	0.097	0.04	22.27	23.00	1.183	0.239	22.1
Left tilted	100	QPSK 1_1	650000/3750	100%	0.324	0.141	0.17	22.27	23.00	1.183	0.383	22.1
Right cheek	100	QPSK 1_1	650000/3750	100%	0.134	0.068	-0.11	22.27	23.00	1.183	0.159	22.1
Right tilted	100	QPSK 1_1	650000/3750	100%	0.200	0.099	-0.15	22.27	23.00	1.183	0.237	22.1
Head Test Data(50%RB) ECI 2												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.222	0.095	0.07	22.05	23.00	1.250	0.278	22.1
Left tilted	100	QPSK 135_69	650000/3750	100%	0.327	0.131	-0.13	22.05	23.00	1.245	0.407	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.147	0.061	0.16	22.05	23.00	1.245	0.183	22.1
Right tilted	100	QPSK 135_69	650000/3750	100%	0.238	0.101	0.18	22.05	23.00	1.245	0.296	22.1
Left tilted	100	QPSK 135_69	652400/3786	100%	0.399	0.152	0.19	21.80	23.00	1.318	0.526	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.461	0.173	-0.14	21.53	23.00	1.403	0.647	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.516	0.190	0.01	21.38	23.00	1.452	0.749	22.1
Left tilted	100	QPSK 135_69	659600/3894	100%	0.533	0.192	0.09	21.43	23.00	1.435	0.765	22.1
Left tilted with Sample2	100	QPSK 135_69	659600/3894	100%	0.519	0.184	0.05	21.43	23.00	1.435	0.745	22.1
Left tilted	100	QPSK 135_69	662000/3930	100%	0.528	0.192	-0.10	21.46	23.00	1.426	0.753	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_1	650000/3750	100%	0.042	0.010	0.06	10.32	11.00	1.169	0.049	22.5
Back side	100	QPSK 1_1	650000/3750	100%	0.478	0.180	0.19	10.32	11.00	1.169	0.559	22.5
Back side	100	QPSK 1_1	652400/3786	100%	0.366	0.139	0.06	10.17	11.00	1.211	0.443	22.5
Back side	100	QPSK 1_1	654800/3822	100%	0.388	0.146	-0.08	9.78	11.00	1.324	0.514	22.5
Back side	100	QPSK 1_1	657200/3858	100%	0.419	0.157	-0.14	9.54	11.00	1.400	0.586	22.5
Back side	100	QPSK 1_271	659600/3894	100%	0.427	0.158	-0.12	9.32	11.00	1.472	0.629	22.5
Back side	100	QPSK 1_271	662000/3930	100%	0.413	0.152	0.07	9.46	11.00	1.426	0.589	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	650000/3750	100%	0.047	0.010	0.06	10.03	11.00	1.250	0.059	22.5
Back side	100	QPSK 135_69	650000/3750	100%	0.566	0.211	-0.04	10.03	11.00	1.250	0.708	22.5
Back side	100	QPSK 135_69	652400/3786	100%	0.415	0.157	-0.17	9.71	11.00	1.346	0.559	22.5
Back side	100	QPSK 135_69	654800/3822	100%	0.444	0.166	-0.12	9.50	11.00	1.413	0.627	22.5
Back side	100	QPSK 135_69	657200/3858	100%	0.453	0.168	-0.07	9.44	11.00	1.432	0.649	22.5
Back side	100	QPSK 135_69	659600/3894	100%	0.451	0.167	-0.03	9.35	11.00	1.462	0.659	22.5
Back side	100	QPSK 135_69	662000/3930	100%	0.455	0.168	0.11	9.39	11.00	1.449	0.659	22.5
Body worn Test data (Separate 1RB) Sensor off ECI 4												
Front side 15mm	100	QPSK 1_1	650000/3750	100%	0.092	0.041	0.10	18.77	19.50	1.183	0.109	22.5
Back side 19mm	100	QPSK 1_1	650000/3750	100%	0.577	0.274	0.06	18.77	19.50	1.183	0.683	22.5
Back side 19mm	100	QPSK 1_1	652400/3786	100%	0.442	0.211	-0.03	18.56	19.50	1.242	0.549	22.5
Back side 19mm	100	QPSK 1_1	654800/3822	100%	0.470	0.222	-0.15	18.23	19.50	1.340	0.630	22.5
Back side 19mm	100	QPSK 1_1	657200/3858	100%	0.506	0.239	0.18	17.95	19.50	1.429	0.723	22.5
Back side 19mm	100	QPSK 1_271	659600/3894	100%	0.518	0.240	-0.02	17.74	19.50	1.500	0.777	22.5
Back side 19mm	100	QPSK 1_271	662000/3930	100%	0.498	0.232	0.12	17.81	19.50	1.476	0.735	22.5



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Body worn Test data (Separate 50%RB) Sensor off ECI 4												
Front side 15mm	100	QPSK 135_69	650000/3750	100%	0.094	0.047	0.18	18.55	19.50	1.245	0.117	22.5
Back side 19mm	100	QPSK 135_69	650000/3750	100%	0.677	0.321	-0.06	18.55	19.50	1.245	0.843	22.5
Back side 19mm with Sample2	100	QPSK 135_69	650000/3750	100%	0.649	0.308	-0.01	18.55	19.50	1.245	0.808	22.5
Back side 19mm	100	QPSK 135_69	652400/3786	100%	0.498	0.239	0.04	18.16	19.50	1.361	0.678	22.5
Back side 19mm	100	QPSK 135_69	654800/3822	100%	0.533	0.252	0.10	17.89	19.50	1.449	0.772	22.5
Back side 19mm	100	QPSK 135_69	657200/3858	100%	0.541	0.256	-0.17	17.79	19.50	1.483	0.802	22.5
Back side 19mm	100	QPSK 135_69	659600/3894	100%	0.541	0.255	0.12	17.73	19.50	1.503	0.813	22.5
Back side 19mm	100	QPSK 135_69	662000/3930	100%	0.545	0.256	-0.12	17.84	19.50	1.466	0.799	22.5
Body worn Test data (Separate 100%RB) Sensor off ECI 4												
Back side 19mm	100	QPSK 135_69	650000/3750	100%	0.607	0.289	0.18	17.38	18.50	1.294	0.786	22.5
Hotspot Test data(Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_1	650000/3750	100%	0.035	0.010	-0.08	8.76	9.50	1.186	0.042	22.5
Back side	100	QPSK 1_1	650000/3750	100%	0.334	0.125	-0.12	8.76	9.50	1.186	0.396	22.5
Right side	100	QPSK 1_1	650000/3750	100%	0.039	0.017	-0.08	8.76	9.50	1.186	0.046	22.5
Top side	100	QPSK 1_1	650000/3750	100%	0.046	0.011	-0.17	8.76	9.50	1.186	0.055	22.5
Hotspot Test data(Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	650000/3750	100%	0.045	0.011	-0.02	8.50	9.50	1.259	0.057	22.5
Back side	100	QPSK 135_69	650000/3750	100%	0.389	0.140	-0.09	8.50	9.50	1.259	0.490	22.5
Right side	100	QPSK 135_69	650000/3750	100%	0.049	0.021	-0.17	8.50	9.50	1.259	0.062	22.5
Top side	100	QPSK 135_69	650000/3750	100%	0.053	0.024	-0.05	8.50	9.50	1.259	0.067	22.5
Back side	100	QPSK 135_69	652400/3786	100%	0.345	0.132	-0.16	8.24	9.50	1.337	0.461	22.5
Back side	100	QPSK 135_69	654800/3822	100%	0.362	0.138	-0.17	7.95	9.50	1.429	0.517	22.5
Back side	100	QPSK 135_69	657200/3858	100%	0.362	0.138	-0.17	7.93	9.50	1.435	0.520	22.5
Back side	100	QPSK 135_69	659600/3894	100%	0.364	0.139	0.10	7.80	9.50	1.479	0.538	22.5
Back side with Sample2	100	QPSK 135_69	659600/3894	100%	0.351	0.132	0.15	7.80	9.50	1.479	0.519	22.5
Back side	100	QPSK 135_69	662000/3930	100%	0.360	0.137	-0.19	7.89	9.50	1.449	0.522	22.5
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 6												
Front side	100	QPSK 1_1	650000/3750	100%	0.065	0.029	-0.02	15.85	16.50	1.161	0.034	22.5
Back side	100	QPSK 1_1	650000/3750	100%	3.330	1.150	0.06	15.85	16.50	1.161	1.336	22.5
Right side	100	QPSK 1_1	650000/3750	100%	0.536	0.196	0.16	15.85	16.50	1.161	0.228	22.5
Top side	100	QPSK 1_1	650000/3750	100%	0.589	0.248	0.05	15.85	16.50	1.161	0.288	22.5
Back side	100	QPSK 1_1	652400/3786	100%	2.910	1.090	0.07	15.54	16.50	1.247	1.360	22.5
Back side	100	QPSK 1_1	654800/3822	100%	3.050	1.130	0.07	15.11	16.50	1.377	1.556	22.5
Back side	100	QPSK 1_1	657200/3858	100%	3.060	1.120	-0.15	15.05	16.50	1.396	1.564	22.5
Back side	100	QPSK 1_1	659600/3894	100%	3.000	1.100	0.00	14.88	16.50	1.452	1.597	22.5
Back side	100	QPSK 1_271	662000/3930	100%	2.740	0.993	-0.05	14.98	16.50	1.419	1.409	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 6												
Front side	100	QPSK 135_69	652400/3786	100%	0.081	0.023	0.07	15.39	16.50	1.291	0.030	22.5
Back side	100	QPSK 135_69	652400/3786	100%	3.450	1.290	0.01	15.39	16.50	1.291	1.666	22.5
Right side	100	QPSK 135_69	652400/3786	100%	0.602	0.222	0.14	15.39	16.50	1.291	0.287	22.5
Top side	100	QPSK 135_69	652400/3786	100%	0.657	0.258	0.08	15.39	16.50	1.291	0.333	22.5



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Back side	100	QPSK 135_69	650000/3750	100%	4.410	1.390	0.05	15.30	16.50	1.318	1.832	22.5
Back side	100	QPSK 135_69	654800/3822	100%	4.570	1.420	0.00	14.89	16.50	1.449	2.057	22.5
Back side	100	QPSK 135_69	657200/3858	100%	4.550	1.410	-0.03	15.00	16.50	1.413	1.992	22.5
Back side	100	QPSK 135_69	659600/3894	100%	4.520	1.390	0.01	14.70	16.50	1.514	2.104	22.5
Back side	100	QPSK 135_69	662000/3930	100%	4.490	1.370	0.19	14.96	16.50	1.426	1.953	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 6												
Back side	100	QPSK 270_0	650000/3750	100%	3.510	1.100	-0.03	14.54	15.50	1.247	1.372	22.5
Product specific 10g SAR Test data (Separate 1RB) Sensor off ECI 4												
Front side 7mm	100	QPSK 1_1	650000/3750	100%	0.184	0.082	-0.15	18.77	19.50	1.183	0.097	22.5
Back side 12mm	100	QPSK 1_1	650000/3750	100%	0.951	0.412	0.00	18.77	19.50	1.183	0.487	22.5
Right side 7mm	100	QPSK 1_1	650000/3750	100%	0.330	0.146	0.15	18.77	19.50	1.183	0.173	22.5
Top side 12mm	100	QPSK 1_1	650000/3750	100%	0.244	0.125	0.07	18.77	19.50	1.183	0.148	22.5
Product specific 10g SAR Test data (Separate 50%RB) Sensor off ECI 4												
Front side 7mm	100	QPSK 135_69	650000/3750	100%	0.216	0.098	0.09	18.55	19.50	1.245	0.122	22.5
Back side 12mm	100	QPSK 135_69	650000/3750	100%	1.110	0.474	-0.11	18.55	19.50	1.245	0.590	22.5
Right side 7mm	100	QPSK 135_69	650000/3750	100%	0.366	0.162	-0.02	18.55	19.50	1.245	0.202	22.5
Top side 12mm	100	QPSK 135_69	650000/3750	100%	0.311	0.157	-0.01	18.55	19.50	1.245	0.195	22.5

Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Right side	650000/3750	2.040	1.97	1.036	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.19 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record												
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	802.11b	1/2412	100.00%	1.000	0.817	0.409	0.03	23.02	24.00	1.253	1.024	22.3
Left tilted	802.11b	1/2412	100.00%	1.000	0.626	0.317	-0.19	23.02	24.00	1.253	0.784	22.3
Right cheek	802.11b	1/2412	100.00%	1.000	0.511	0.298	0.17	23.02	24.00	1.253	0.640	22.3
Right tilted	802.11b	1/2412	100.00%	1.000	0.611	0.312	-0.06	23.02	24.00	1.253	0.766	22.3
Left cheek	802.11b	6/2437	100.00%	1.000	0.831	0.439	-0.06	22.95	24.00	1.274	1.058	22.3
Left cheek-Repeated	802.11b	6/2437	100.00%	1.000	0.817	0.428	-0.03	22.95	24.00	1.274	1.040	22.3
Left cheek with Sample2	802.11b	6/2437	100.00%	1.000	0.822	0.435	0.07	22.95	24.00	1.274	1.047	22.3
Left tilted	802.11b	6/2437	100.00%	1.000	0.669	0.337	0.14	22.95	24.00	1.274	0.852	22.3
Head Test Data with Non-DBS												
Left cheek	802.11b	1/2412	100.00%	1.000	0.817	0.409	0.03	23.02	19.50	0.445	0.363	22.3
Left tilted	802.11b	1/2412	100.00%	1.000	0.626	0.317	-0.19	23.02	19.50	0.445	0.278	22.3
Right cheek	802.11b	1/2412	100.00%	1.000	0.511	0.298	0.17	23.02	19.50	0.445	0.227	22.3
Right tilted	802.11b	1/2412	100.00%	1.000	0.611	0.312	-0.06	23.02	19.50	0.445	0.272	22.3
Left cheek	802.11b	6/2437	100.00%	1.000	0.831	0.439	-0.06	22.95	19.50	0.452	0.375	22.3
Left tilted	802.11b	6/2437	100.00%	1.000	0.669	0.337	0.14	22.95	19.50	0.452	0.302	22.3
Head Test Data with DBS												
Left cheek	802.11b	1/2412	100.00%	1.000	0.817	0.409	0.03	23.02	16.50	0.223	0.182	22.3
Left tilted	802.11b	1/2412	100.00%	1.000	0.626	0.317	-0.19	23.02	16.50	0.223	0.140	22.3
Right cheek	802.11b	1/2412	100.00%	1.000	0.511	0.298	0.17	23.02	16.50	0.223	0.114	22.3
Right tilted	802.11b	1/2412	100.00%	1.000	0.611	0.312	-0.06	23.02	16.50	0.223	0.136	22.3
Left cheek	802.11b	6/2437	100.00%	1.000	0.831	0.439	-0.06	22.95	16.50	0.226	0.188	22.3
Left tilted	802.11b	6/2437	100.00%	1.000	0.669	0.337	0.14	22.95	16.50	0.226	0.152	22.3
Body worn Test data (Separate 5mm) Sensor on												
Front side	802.11b	1/2412	100.00%	1.000	0.367	0.200	0.18	22.04	23.00	1.247	0.458	22.3
Back side	802.11b	1/2412	100.00%	1.000	0.780	0.393	0.07	22.04	23.00	1.247	0.973	22.3
Back side	802.11b	11/2462	100.00%	1.000	1.030	0.475	-0.08	21.90	23.00	1.288	1.327	22.3
Back side-Repeated	802.11b	11/2462	100.00%	1.000	0.996	0.467	-0.04	21.90	23.00	1.288	1.283	22.3
Back side with Sample2	802.11b	11/2462	100.00%	1.000	0.804	0.392	-0.02	21.90	23.00	1.288	1.036	22.3
Back side	802.11b	6/2437	100.00%	1.000	0.842	0.424	0.06	21.86	23.00	1.300	1.095	22.3
Body worn Test data (Separate 5mm) Sensor on with Non-DBS												
Front side	802.11b	1/2412	100.00%	1.000	0.367	0.200	0.18	22.04	17.00	0.313	0.115	22.3
Back side	802.11b	1/2412	100.00%	1.000	0.780	0.393	0.07	22.04	17.00	0.313	0.244	22.3
Back side	802.11b	11/2462	100.00%	1.000	1.030	0.475	-0.08	21.90	17.00	0.324	0.333	22.3
Back side	802.11b	6/2437	100.00%	1.000	0.842	0.424	0.06	21.86	17.00	0.327	0.275	22.3
Body worn Test data Sensor off												
Front side 15mm	802.11b	1/2412	100.00%	1.000	0.193	0.104	-0.15	25.87	27.00	1.297	0.250	22.3
Back side 19mm	802.11b	1/2412	100.00%	1.000	0.254	0.138	-0.12	25.87	27.00	1.297	0.329	22.3



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Body worn Test data (Separate 5mm) Sensor on with DBS												
Front side	802.11b	1/2412	100.00%	1.000	0.367	0.200	0.18	22.04	14.50	0.176	0.065	22.3
Back side	802.11b	1/2412	100.00%	1.000	0.780	0.393	0.07	22.04	14.50	0.176	0.137	22.3
Back side	802.11b	11/2462	100.00%	1.000	1.030	0.475	-0.08	21.90	14.50	0.182	0.187	22.3
Back side	802.11b	6/2437	100.00%	1.000	0.842	0.424	0.06	21.86	14.50	0.184	0.155	22.3
Body worn Test data Sensor off with DBS												
Front side 15mm	802.11b	1/2412	100.00%	1.000	0.193	0.104	-0.15	25.87	24.00	0.650	0.125	22.3
Back side 19mm	802.11b	1/2412	100.00%	1.000	0.254	0.138	-0.12	25.87	24.00	0.650	0.165	22.3
Hotspot Test data (Separate 5mm)												
Front side	802.11b	6/2437	100.00%	1.000	0.151	0.080	0.14	17.47	18.50	1.268	0.191	22.3
Back side	802.11b	6/2437	100.00%	1.000	0.321	0.156	-0.06	17.47	18.50	1.268	0.407	22.3
Right side	802.11b	6/2437	100.00%	1.000	0.469	0.192	0.04	17.47	18.50	1.268	0.595	22.3
Top side	802.11b	6/2437	100.00%	1.000	0.145	0.068	0.18	17.47	18.50	1.268	0.184	22.3
Hotspot Test data (Separate 5mm) with DBS												
Front side	802.11b	6/2437	100.00%	1.000	0.151	0.080	0.14	17.47	15.50	0.635	0.096	22.3
Back side	802.11b	6/2437	100.00%	1.000	0.321	0.156	-0.06	17.47	15.50	0.635	0.204	22.3
Right side	802.11b	6/2437	100.00%	1.000	0.469	0.192	0.04	17.47	15.50	0.635	0.298	22.3
Top side	802.11b	6/2437	100.00%	1.000	0.145	0.068	0.18	17.47	15.50	0.635	0.092	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm) Sensor on												
Right side	802.11b	1/2412	100.00%	1.000	7.340	2.680	0.06	24.86	26.00	1.300	3.484	22.3
Right side-Repeated	802.11b	1/2412	100.00%	1.000	7.190	2.610	0.13	24.86	26.00	1.300	3.393	22.3
Right side with Sample2	802.11b	1/2412	100.00%	1.000	5.860	2.250	0.06	24.86	26.00	1.300	2.925	22.3
Right side	802.11b	6/2437	100.00%	1.000	5.350	2.250	0.14	24.77	26.00	1.327	2.987	22.3
Product specific 10g SAR Test data Sensor off												
Right side 7mm	802.11b	1/2412	100.00%	1.000	1.450	0.664	-0.06	25.87	27.00	1.297	0.861	22.3
Product specific 10g SAR Test data (Separate 0mm) Sensor on with Non-DBS												
Right side	802.11b	1/2412	100.00%	1.000	7.340	2.680	0.06	24.86	20.50	0.366	0.982	22.3
Right side	802.11b	6/2437	100.00%	1.000	5.350	2.250	0.14	24.77	20.50	0.374	0.842	22.3
Product specific 10g SAR Test data (Separate 0mm) Sensor on with DBS												
Right side	802.11b	1/2412	100.00%	1.000	7.340	2.680	0.06	24.86	17.00	0.164	0.439	22.3
Right side	802.11b	6/2437	100.00%	1.000	5.350	2.250	0.14	24.77	17.00	0.167	0.376	22.3
Product specific 10g SAR Test data Sensor off with DBS												
Right side 7mm	802.11b	1/2412	100.00%	1.000	1.450	0.664	-0.06	25.87	24.00	0.650	0.432	22.3

Mode	Tune-up (dBm)	Tune-up (mw)	Highest Reported SAR1-g(W/kg)	Adjusted SAR1-g(W/kg)	SAR test
Body worn Test data(Separate 5mm)					
802.11b	24.00	251.19	1.327	/	Yes
802.11g	22.00	158.49	/	0.837	No
802.11n 20M	21.50	141.25	/	0.746	No
802.11n 40M	22.00	158.49	/	0.837	No
802.11ax 20M	22.00	158.49	/	0.837	No



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802.11ax 40M	22.00	158.49	/	0.837	No
Product specific 10g SAR Test data (Separate 0mm)					
802.11b	26.00	398.11	3.484	/	Yes
802.11g	24.00	251.19	/	2.198	No
802.11n 20M	23.50	223.87	/	1.959	No
802.11n 40M	24.00	251.19	/	2.198	No
802.11ax 20M	24.00	251.19	/	2.198	No
802.11ax 40M	24.00	251.19	/	2.198	No

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	6/2437	0.831	0.817	1.017	N/A	N/A
Back side	11/2462	1.030	0.996	1.034	N/A	N/A
Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Right side	1/2412	2.680	2.61	1.027	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.20 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record												
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A												
Left cheek	802.11n-HT40	54/5270	100.00%	1.000	0.734	0.193	-0.01	15.01	16.00	1.256	0.922	22.3
Left tilted	802.11n-HT40	54/5270	100.00%	1.000	0.743	0.192	0.02	15.01	16.00	1.256	0.933	22.3
Right cheek	802.11n-HT40	54/5270	100.00%	1.000	0.366	0.105	0.10	15.01	16.00	1.256	0.460	22.3
Right tilted	802.11n-HT40	54/5270	100.00%	1.000	0.456	0.133	0.12	15.01	16.00	1.256	0.573	22.3
Left cheek	802.11n-HT40	62/5310	100.00%	1.000	0.593	0.158	-0.14	14.93	16.00	1.279	0.759	22.3
Left tilted	802.11n-HT40	62/5310	100.00%	1.000	0.611	0.165	-0.07	14.93	16.00	1.279	0.782	22.3
Head Test Data of U-NII-2C												
Left cheek	802.11n-HT40	102/5510	100.00%	1.000	0.804	0.241	-0.08	16.84	17.50	1.164	0.936	22.3
Left tilted	802.11n-HT40	102/5510	100.00%	1.000	0.825	0.224	0.01	16.84	17.50	1.164	0.960	22.3
Left tilted-Repeated	802.11n-HT40	102/5510	100.00%	1.000	0.813	0.218	-0.16	16.84	17.50	1.164	0.946	22.3
Right cheek	802.11n-HT40	102/5510	100.00%	1.000	0.470	0.136	-0.14	16.84	17.50	1.164	0.547	22.3
Right tilted	802.11n-HT40	102/5510	100.00%	1.000	0.541	0.157	-0.05	16.84	17.50	1.164	0.630	22.3
Left cheek	802.11n-HT40	110/5550	100.00%	1.000	0.722	0.210	0.08	16.76	17.50	1.186	0.856	22.3
Left tilted	802.11n-HT40	110/5550	100.00%	1.000	0.741	0.195	0.09	16.76	17.50	1.186	0.879	22.3
Head Test Data of U-NII-3												
Left cheek	802.11a	165/5825	100.00%	1.000	0.646	0.178	0.02	15.18	15.50	1.076	0.695	22.3
Left tilted	802.11a	165/5825	100.00%	1.000	0.763	0.210	-0.02	15.18	15.50	1.076	0.821	22.3
Right cheek	802.11a	165/5825	100.00%	1.000	0.370	0.117	-0.14	15.18	15.50	1.076	0.398	22.3
Right tilted	802.11a	165/5825	100.00%	1.000	0.432	0.136	-0.14	15.18	15.50	1.076	0.465	22.3
Left tilted	802.11a	157/5785	100.00%	1.000	0.818	0.215	0.09	14.71	15.50	1.199	0.981	22.3
Head Test Data of U-NII-2A with Non-DBS												
Left cheek	802.11n-HT40	54/5270	100.00%	1.000	0.734	0.193	-0.01	15.01	12.00	0.500	0.367	22.3
Left tilted	802.11n-HT40	54/5270	100.00%	1.000	0.743	0.192	0.02	15.01	12.00	0.500	0.372	22.3
Right cheek	802.11n-HT40	54/5270	100.00%	1.000	0.366	0.105	0.10	15.01	12.00	0.500	0.183	22.3
Right tilted	802.11n-HT40	54/5270	100.00%	1.000	0.456	0.133	0.12	15.01	12.00	0.500	0.228	22.3
Left cheek	802.11n-HT40	62/5310	100.00%	1.000	0.593	0.158	-0.14	14.93	12.00	0.509	0.302	22.3
Left tilted	802.11n-HT40	62/5310	100.00%	1.000	0.611	0.165	-0.07	14.93	12.00	0.509	0.311	22.3
Head Test Data of U-NII-2C with Non-DBS												
Left cheek	802.11n-HT40	102/5510	100.00%	1.000	0.804	0.241	-0.08	16.84	13.50	0.463	0.373	22.3
Left tilted	802.11n-HT40	102/5510	100.00%	1.000	0.825	0.224	0.01	16.84	13.50	0.463	0.382	22.3
Right cheek	802.11n-HT40	102/5510	100.00%	1.000	0.470	0.136	-0.14	16.84	13.50	0.463	0.218	22.3
Right tilted	802.11n-HT40	102/5510	100.00%	1.000	0.541	0.157	-0.05	16.84	13.50	0.463	0.251	22.3
Left cheek	802.11n-HT40	110/5550	100.00%	1.000	0.722	0.210	0.08	16.76	13.50	0.472	0.341	22.3
Left tilted	802.11n-HT40	110/5550	100.00%	1.000	0.741	0.195	0.09	16.76	13.50	0.472	0.350	22.3
Head Test Data of U-NII-3 with Non-DBS												
Left cheek	802.11a	165/5825	100.00%	1.000	0.646	0.178	0.02	15.18	11.50	0.429	0.277	22.3
Left tilted	802.11a	165/5825	100.00%	1.000	0.763	0.210	-0.02	15.18	11.50	0.429	0.327	22.3



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Right cheek	802.11a	165/5825	100.00%	1.000	0.370	0.117	-0.14	15.18	11.50	0.429	0.159	22.3
Right tilted	802.11a	165/5825	100.00%	1.000	0.432	0.136	-0.14	15.18	11.50	0.429	0.185	22.3
Left tilted	802.11a	157/5785	100.00%	1.000	0.818	0.215	0.09	14.71	11.50	0.478	0.391	22.3
Head Test Data of U-NII-2A with DBS												
Left cheek	802.11n-HT40	54/5270	100.00%	1.000	0.734	0.193	-0.01	15.01	9.00	0.251	0.184	22.3
Left tilted	802.11n-HT40	54/5270	100.00%	1.000	0.743	0.192	0.02	15.01	9.00	0.251	0.186	22.3
Right cheek	802.11n-HT40	54/5270	100.00%	1.000	0.366	0.105	0.10	15.01	9.00	0.251	0.092	22.3
Right tilted	802.11n-HT40	54/5270	100.00%	1.000	0.456	0.133	0.12	15.01	9.00	0.251	0.114	22.3
Left cheek	802.11n-HT40	62/5310	100.00%	1.000	0.593	0.158	-0.14	14.93	9.00	0.255	0.151	22.3
Left tilted	802.11n-HT40	62/5310	100.00%	1.000	0.611	0.165	-0.07	14.93	9.00	0.255	0.156	22.3
Head Test Data of U-NII-2C with DBS												
Left cheek	802.11n-HT40	102/5510	100.00%	1.000	0.804	0.241	-0.08	16.84	10.50	0.232	0.187	22.3
Left tilted	802.11n-HT40	102/5510	100.00%	1.000	0.825	0.224	0.01	16.84	10.50	0.232	0.192	22.3
Right cheek	802.11n-HT40	102/5510	100.00%	1.000	0.470	0.136	-0.14	16.84	10.50	0.232	0.109	22.3
Right tilted	802.11n-HT40	102/5510	100.00%	1.000	0.541	0.157	-0.05	16.84	10.50	0.232	0.126	22.3
Left cheek	802.11n-HT40	110/5550	100.00%	1.000	0.722	0.210	0.08	16.76	10.50	0.237	0.171	22.3
Left tilted	802.11n-HT40	110/5550	100.00%	1.000	0.741	0.195	0.09	16.76	10.50	0.237	0.175	22.3
Head Test Data of U-NII-3 with DBS												
Left cheek	802.11a	165/5825	100.00%	1.000	0.646	0.178	0.02	15.18	8.50	0.215	0.139	22.3
Left tilted	802.11a	165/5825	100.00%	1.000	0.763	0.210	-0.02	15.18	8.50	0.215	0.164	22.3
Right cheek	802.11a	165/5825	100.00%	1.000	0.370	0.117	-0.14	15.18	8.50	0.215	0.079	22.3
Right tilted	802.11a	165/5825	100.00%	1.000	0.432	0.136	-0.14	15.18	8.50	0.215	0.093	22.3
Left tilted	802.11a	157/5785	100.00%	1.000	0.818	0.215	0.09	14.71	8.50	0.239	0.196	22.3
Body worn Test data of U-NII-2A (Separate 5mm) Sensor on												
Front side	802.11n-HT40	62/5310	100.00%	1.000	0.596	0.173	-0.15	19.48	20.50	1.265	0.754	22.3
Back side	802.11n-HT40	62/5310	100.00%	1.000	0.655	0.216	0.03	19.48	20.50	1.265	0.828	22.3
Back side	802.11n-HT40	54/5270	100.00%	1.000	0.768	0.247	0.08	19.28	20.50	1.324	1.017	22.3
Body worn Test data of U-NII-2C (Separate 5mm) Sensor on												
Front side	802.11n-HT40	102/5510	100.00%	1.000	0.449	0.157	-0.01	19.84	20.50	1.164	0.523	22.3
Back side	802.11n-HT40	102/5510	100.00%	1.000	0.727	0.255	0.01	19.84	20.50	1.164	0.846	22.3
Back side	802.11n-HT40	110/5550	100.00%	1.000	0.742	0.264	-0.18	19.68	20.50	1.208	0.896	22.3
Body worn Test data of U-NII-3 (Separate 5mm) Sensor on												
Front side	802.11a	165/5825	100.00%	1.000	0.631	0.242	-0.19	22.19	22.50	1.074	0.678	22.3
Back side	802.11a	165/5825	100.00%	1.000	0.827	0.326	0.07	22.19	22.50	1.074	0.888	22.3
Back side	802.11a	157/5785	100.00%	1.000	0.890	0.326	0.05	21.76	22.50	1.186	1.055	22.4
Back side-Repeated	802.11a	157/5785	100.00%	1.000	0.876	0.318	0.08	21.76	22.50	1.186	1.039	22.4
Body worn Test data of U-NII-2A Sensor off												
Front side 15mm	802.11n-HT40	62/5310	100.00%	1.000	0.510	0.193	0.04	22.59	23.50	1.233	0.629	22.3
Back side 19mm	802.11n-HT40	62/5310	100.00%	1.000	0.346	0.131	0.13	22.59	23.50	1.233	0.427	22.3
Body worn Test data of U-NII-2C Sensor off												
Front side 15mm	802.11n-HT40	102/5510	100.00%	1.000	0.504	0.188	-0.06	22.78	23.50	1.180	0.595	22.3
Back side 19mm	802.11n-HT40	102/5510	100.00%	1.000	0.304	0.124	0.02	22.78	23.50	1.180	0.359	22.3
Body worn Test data of U-NII-3 Sensor off												
Front side 15mm	802.11a	165/5825	100.00%	1.000	0.553	0.211	-0.11	24.14	24.50	1.086	0.601	22.3



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Back side 19mm	802.11a	165/5825	100.00%	1.000	0.361	0.147	0.09	24.14	24.50	1.086	0.392	22.3
Body worn Test data of U-NII-2A (Separate 5mm) Sensor on with Non-DBS												
Front side	802.11n-HT40	62/5310	100.00%	1.000	0.596	0.173	-0.15	19.48	15.50	0.400	0.238	22.3
Back side	802.11n-HT40	62/5310	100.00%	1.000	0.655	0.216	0.03	19.48	15.50	0.400	0.262	22.3
Back side	802.11n-HT40	54/5270	100.00%	1.000	0.768	0.247	0.08	19.28	15.50	0.419	0.322	22.3
Body worn Test data of U-NII-2C (Separate 5mm) Sensor on with Non-DBS												
Front side	802.11n-HT40	102/5510	100.00%	1.000	0.449	0.157	-0.01	19.84	15.50	0.368	0.165	22.3
Back side	802.11n-HT40	102/5510	100.00%	1.000	0.727	0.255	0.01	19.84	15.50	0.368	0.268	22.3
Back side	802.11n-HT40	110/5550	100.00%	1.000	0.742	0.264	-0.18	19.68	15.50	0.382	0.283	22.3
Body worn Test data of U-NII-3 (Separate 5mm) Sensor on with Non-DBS												
Front side	802.11a	165/5825	100.00%	1.000	0.631	0.242	-0.19	22.19	17.50	0.340	0.214	22.3
Back side	802.11a	165/5825	100.00%	1.000	0.827	0.326	0.07	22.19	17.50	0.340	0.281	22.3
Back side	802.11a	157/5785	100.00%	1.000	0.890	0.326	0.05	21.76	17.50	0.375	0.334	22.4
Body worn Test data of U-NII-2A Sensor off with Non-DBS												
Front side 15mm	802.11n-HT40	62/5310	100.00%	1.000	0.510	0.193	0.04	22.59	21.00	0.693	0.354	22.3
Back side 19mm	802.11n-HT40	62/5310	100.00%	1.000	0.346	0.131	0.13	22.59	21.00	0.693	0.240	22.3
Body worn Test data of U-NII-2C Sensor off with Non-DBS												
Front side 15mm	802.11n-HT40	102/5510	100.00%	1.000	0.504	0.188	-0.06	22.78	21.00	0.664	0.335	22.3
Back side 19mm	802.11n-HT40	102/5510	100.00%	1.000	0.304	0.124	0.02	22.78	21.00	0.664	0.202	22.3
Body worn Test data of U-NII-3 Sensor off with Non-DBS												
Front side 15mm	802.11a	165/5825	100.00%	1.000	0.553	0.211	-0.11	24.14	22.00	0.611	0.338	22.3
Back side 19mm	802.11a	165/5825	100.00%	1.000	0.361	0.147	0.09	24.14	22.00	0.611	0.221	22.3
Body worn Test data of U-NII-2A (Separate 5mm) Sensor on with DBS												
Front side	802.11n-HT40	62/5310	100.00%	1.000	0.596	0.173	-0.15	19.48	13.00	0.225	0.134	22.3
Back side	802.11n-HT40	62/5310	100.00%	1.000	0.655	0.216	0.03	19.48	13.00	0.225	0.147	22.3
Back side	802.11n-HT40	54/5270	100.00%	1.000	0.768	0.247	0.08	19.28	13.00	0.236	0.181	22.3
Body worn Test data of U-NII-2C (Separate 5mm) Sensor on with DBS												
Front side	802.11n-HT40	102/5510	100.00%	1.000	0.449	0.157	-0.01	19.84	13.00	0.207	0.093	22.3
Back side	802.11n-HT40	102/5510	100.00%	1.000	0.727	0.255	0.01	19.84	13.00	0.207	0.150	22.3
Back side	802.11n-HT40	110/5550	100.00%	1.000	0.742	0.264	-0.18	19.68	13.00	0.215	0.159	22.3
Body worn Test data of U-NII-3 (Separate 5mm) Sensor on with DBS												
Front side	802.11a	165/5825	100.00%	1.000	0.631	0.242	-0.19	22.19	15.00	0.191	0.121	22.3
Back side	802.11a	165/5825	100.00%	1.000	0.827	0.326	0.07	22.19	15.00	0.191	0.158	22.3
Back side	802.11a	157/5785	100.00%	1.000	0.890	0.326	0.05	21.76	15.00	0.211	0.188	22.4
Body worn Test data of U-NII-2A Sensor off with DBS												
Front side 15mm	802.11n-HT40	62/5310	100.00%	1.000	0.510	0.193	0.04	22.59	18.50	0.390	0.199	22.3
Back side 19mm	802.11n-HT40	62/5310	100.00%	1.000	0.346	0.131	0.13	22.59	18.50	0.390	0.135	22.3
Body worn Test data of U-NII-2C Sensor off with DBS												
Front side 15mm	802.11n-HT40	102/5510	100.00%	1.000	0.504	0.188	-0.06	22.78	18.50	0.373	0.188	22.3
Back side 19mm	802.11n-HT40	102/5510	100.00%	1.000	0.304	0.124	0.02	22.78	18.50	0.373	0.113	22.3
Body worn Test data of U-NII-3 Sensor off with DBS												
Front side 15mm	802.11a	165/5825	100.00%	1.000	0.553	0.211	-0.11	24.14	19.50	0.344	0.190	22.3
Back side 19mm	802.11a	165/5825	100.00%	1.000	0.361	0.147	0.09	24.14	19.50	0.344	0.124	22.3
Hotspot Test data of U-NII-1 (Separate 5mm)												



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Front side	802.11n-HT40	46/5230	100.00%	1.000	0.189	0.066	0.18	15.27	16.00	1.183	0.224	22.3
Back side	802.11n-HT40	46/5230	100.00%	1.000	0.264	0.089	0.05	15.27	16.00	1.183	0.312	22.3
Right side	802.11n-HT40	46/5230	100.00%	1.000	0.177	0.058	-0.12	15.27	16.00	1.183	0.209	22.3
Top side	802.11n-HT40	46/5230	100.00%	1.000	0.518	0.139	-0.08	15.27	16.00	1.183	0.613	22.4
Top side with Sample2	802.11n-HT40	46/5230	100.00%	1.000	0.509	0.134	-0.02	15.27	16.00	1.183	0.602	22.4
Hotspot Test data of U-NII-3 (Separate 5mm)												
Front side	802.11a	165/5825	100.00%	1.000	0.266	0.095	0.03	15.59	16.00	1.099	0.292	22.3
Back side	802.11a	165/5825	100.00%	1.000	0.348	0.127	0.03	15.59	16.00	1.099	0.382	22.3
Right side	802.11a	165/5825	100.00%	1.000	0.284	0.086	0.10	15.59	16.00	1.099	0.312	22.3
Top side	802.11a	165/5825	100.00%	1.000	0.529	0.162	0.17	15.59	16.00	1.099	0.581	22.4
Hotspot Test data of U-NII-1 (Separate 5mm) with DBS												
Front side	802.11n-HT40	46/5230	100.00%	1.000	0.189	0.066	0.18	15.27	13.00	0.593	0.112	22.3
Back side	802.11n-HT40	46/5230	100.00%	1.000	0.264	0.089	0.05	15.27	13.00	0.593	0.157	22.3
Right side	802.11n-HT40	46/5230	100.00%	1.000	0.177	0.058	-0.12	15.27	13.00	0.593	0.105	22.3
Top side	802.11n-HT40	46/5230	100.00%	1.000	0.518	0.139	-0.08	15.27	13.00	0.593	0.307	22.4
Hotspot Test data of U-NII-3 (Separate 5mm) with DBS												
Front side	802.11a	165/5825	100.00%	1.000	0.266	0.095	0.03	15.59	13.00	0.551	0.147	22.3
Back side	802.11a	165/5825	100.00%	1.000	0.348	0.127	0.03	15.59	13.00	0.551	0.192	22.3
Right side	802.11a	165/5825	100.00%	1.000	0.284	0.086	0.10	15.59	13.00	0.551	0.156	22.3
Top side	802.11a	165/5825	100.00%	1.000	0.529	0.162	0.17	15.59	13.00	0.551	0.291	22.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-1 (Separate 0mm)												
Front side	802.11n-HT40	46/5230	100.00%	1.000	4.500	1.420	0.05	22.55	23.50	1.245	1.767	22.3
Back side	802.11n-HT40	46/5230	100.00%	1.000	1.760	0.602	0.04	22.55	23.50	1.245	0.749	22.3
Right side	802.11n-HT40	46/5230	100.00%	1.000	5.840	1.460	0.05	22.55	23.50	1.245	1.817	22.3
Top side	802.11n-HT40	46/5230	100.00%	1.000	6.740	2.010	0.15	22.55	23.50	1.245	2.501	22.3
Top side	802.11n-HT40	38/5190	100.00%	1.000	7.220	1.870	-0.08	22.54	23.50	1.247	2.333	22.3
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm)												
Front side	802.11n-HT40	62/5310	100.00%	1.000	4.500	1.150	0.12	22.59	23.50	1.232	1.417	22.3
Back side	802.11n-HT40	62/5310	100.00%	1.000	1.770	0.473	0.13	22.59	23.50	1.232	0.583	22.3
Right side	802.11n-HT40	62/5310	100.00%	1.000	6.120	1.360	0.17	22.59	23.50	1.232	1.676	22.3
Top side	802.11n-HT40	62/5310	100.00%	1.000	11.800	2.200	-0.06	22.59	23.50	1.232	2.711	22.3
Top side-Repeated	802.11n-HT40	62/5310	100.00%	1.000	10.900	2.160	-0.02	22.59	23.50	1.232	2.662	22.3
Top side	802.11n-HT40	54/5270	100.00%	1.000	11.110	1.930	0.05	22.39	23.50	1.291	2.492	22.3
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm)												
Front side	802.11n-HT40	102/5510	100.00%	1.000	4.180	1.240	-0.19	22.46	23.50	1.272	1.577	22.3
Back side	802.11n-HT40	102/5510	100.00%	1.000	1.510	0.558	0.05	22.46	23.50	1.272	0.710	22.3
Right side	802.11n-HT40	102/5510	100.00%	1.000	4.460	1.190	-0.14	22.46	23.50	1.272	1.513	22.3
Top side	802.11n-HT40	102/5510	100.00%	1.000	8.250	2.020	-0.12	22.46	23.50	1.272	2.569	22.3
Top side	802.11n-HT40	122/5610	100.00%	1.000	5.580	1.570	0.09	22.33	23.50	1.309	2.055	22.3
Product specific 10gSAR Test data of U-NII-3 (Separate 0mm)												
Front side	802.11a	165/5825	100.00%	1.000	5.350	1.710	-0.18	24.14	24.50	1.086	1.858	22.3



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Back side	802.11a	165/5825	100.00%	1.000	2.040	0.796	0.06	24.14	24.50	1.086	0.865	22.3
Right side	802.11a	165/5825	100.00%	1.000	4.370	1.460	-0.11	24.14	24.50	1.086	1.586	22.3
Top side	802.11a	165/5825	100.00%	1.000	9.700	1.820	-0.15	24.14	24.50	1.086	1.977	22.3
Product specific 10gSAR Test data of U-NII-1 (Separate 0mm) with Non-DBS												
Front side	802.11n-HT40	46/5230	100.00%	1.000	4.500	1.420	0.05	22.55	19.00	0.442	0.627	22.3
Back side	802.11n-HT40	46/5230	100.00%	1.000	1.760	0.602	0.04	22.55	19.00	0.442	0.266	22.3
Right side	802.11n-HT40	46/5230	100.00%	1.000	5.840	1.460	0.05	22.55	19.00	0.442	0.645	22.3
Top side	802.11n-HT40	46/5230	100.00%	1.000	6.740	2.010	0.15	22.55	19.00	0.442	0.888	22.3
Top side	802.11n-HT40	38/5190	100.00%	1.000	7.220	1.870	-0.08	22.54	19.00	0.443	0.828	22.3
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm) with Non-DBS												
Front side	802.11n-HT40	62/5310	100.00%	1.000	4.500	1.150	0.12	22.59	19.00	0.437	0.503	22.3
Back side	802.11n-HT40	62/5310	100.00%	1.000	1.770	0.473	0.13	22.59	19.00	0.437	0.207	22.3
Right side	802.11n-HT40	62/5310	100.00%	1.000	6.120	1.360	0.17	22.59	19.00	0.437	0.595	22.3
Top side	802.11n-HT40	62/5310	100.00%	1.000	11.800	2.200	-0.06	22.59	19.00	0.437	0.962	22.3
Top side	802.11n-HT40	54/5270	100.00%	1.000	11.110	1.930	0.05	22.39	19.00	0.458	0.884	22.3
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) with Non-DBS												
Front side	802.11n-HT40	102/5510	100.00%	1.000	4.180	1.240	-0.19	22.46	19.00	0.451	0.560	22.3
Back side	802.11n-HT40	102/5510	100.00%	1.000	1.510	0.558	0.05	22.46	19.00	0.451	0.252	22.3
Right side	802.11n-HT40	102/5510	100.00%	1.000	4.460	1.190	-0.14	22.46	19.00	0.451	0.537	22.3
Top side	802.11n-HT40	102/5510	100.00%	1.000	8.250	2.020	-0.12	22.46	19.00	0.451	0.912	22.3
Top side	802.11n-HT40	122/5610	100.00%	1.000	5.580	1.570	0.09	22.33	19.00	0.464	0.729	22.3
Product specific 10gSAR Test data of U-NII-3 (Separate 0mm) with Non-DBS												
Front side	802.11a	165/5825	100.00%	1.000	5.350	1.710	-0.18	24.14	20.00	0.385	0.659	22.3
Back side	802.11a	165/5825	100.00%	1.000	2.040	0.796	0.06	24.14	20.00	0.385	0.307	22.3
Right side	802.11a	165/5825	100.00%	1.000	4.370	1.460	-0.11	24.14	20.00	0.385	0.563	22.3
Top side	802.11a	165/5825	100.00%	1.000	9.700	1.820	-0.15	24.14	20.00	0.385	0.702	22.3
Product specific 10gSAR Test data of U-NII-1 (Separate 0mm) with DBS												
Front side	802.11n-HT40	46/5230	100.00%	1.000	4.500	1.420	0.05	22.55	18.00	0.351	0.498	22.3
Back side	802.11n-HT40	46/5230	100.00%	1.000	1.760	0.602	0.04	22.55	18.00	0.351	0.211	22.3
Right side	802.11n-HT40	46/5230	100.00%	1.000	5.840	1.460	0.05	22.55	18.00	0.351	0.512	22.3
Top side	802.11n-HT40	46/5230	100.00%	1.000	6.740	2.010	0.15	22.55	18.00	0.351	0.705	22.3
Top side	802.11n-HT40	38/5190	100.00%	1.000	7.220	1.870	-0.08	22.54	18.00	0.352	0.657	22.3
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm) with DBS												
Front side	802.11n-HT40	62/5310	100.00%	1.000	4.500	1.150	0.12	22.59	18.00	0.347	0.399	22.3
Back side	802.11n-HT40	62/5310	100.00%	1.000	1.770	0.473	0.13	22.59	18.00	0.347	0.164	22.3
Right side	802.11n-HT40	62/5310	100.00%	1.000	6.120	1.360	0.17	22.59	18.00	0.347	0.472	22.3
Top side	802.11n-HT40	62/5310	100.00%	1.000	11.800	2.200	-0.06	22.59	18.00	0.347	0.764	22.3
Top side	802.11n-HT40	54/5270	100.00%	1.000	11.110	1.930	0.05	22.39	18.00	0.364	0.702	22.3
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) with DBS												
Front side	802.11n-HT40	102/5510	100.00%	1.000	4.180	1.240	-0.19	22.46	18.00	0.358	0.444	22.3
Back side	802.11n-HT40	102/5510	100.00%	1.000	1.510	0.558	0.05	22.46	18.00	0.358	0.200	22.3
Right side	802.11n-HT40	102/5510	100.00%	1.000	4.460	1.190	-0.14	22.46	18.00	0.358	0.427	22.3
Top side	802.11n-HT40	102/5510	100.00%	1.000	8.250	2.020	-0.12	22.46	18.00	0.358	0.724	22.3
Top side	802.11n-HT40	122/5610	100.00%	1.000	5.580	1.570	0.09	22.33	18.00	0.369	0.579	22.3



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Product specific 10gSAR Test data of U-NII-3 (Separate 0mm) with DBS												
Front side	802.11a	165/5825	100.00%	1.000	5.350	1.710	-0.18	24.14	19.00	0.306	0.524	22.3
Back side	802.11a	165/5825	100.00%	1.000	2.040	0.796	0.06	24.14	19.00	0.306	0.244	22.3
Right side	802.11a	165/5825	100.00%	1.000	4.370	1.460	-0.11	24.14	19.00	0.306	0.447	22.3
Top side	802.11a	165/5825	100.00%	1.000	9.700	1.820	-0.15	24.14	19.00	0.306	0.557	22.3

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	102/5510	0.825	0.813	1.015	N/A	N/A
Back side	157/5785	0.890	0.876	1.016	N/A	N/A
Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Top side	62/5310	2.200	2.160	1.019	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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10.2.21 SAR Result of WIFI 6E

Wi-Fi 6E SAR Test Record													
MIMO Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	APD W/m ² (4cm ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-5													
Left cheek	802.11ax 160M	79/6345	100.00%	1.000	0.554	0.223	3.570	0.13	20.98	21.50	1.127	0.624	22.3
Left tilted	802.11ax 160M	79/6345	100.00%	1.000	0.654	0.187	4.210	-0.05	20.98	21.50	1.127	0.737	22.3
Right cheek	802.11ax 160M	79/6345	100.00%	1.000	0.461	0.159	2.970	-0.12	20.98	21.50	1.127	0.520	22.3
Right tilted	802.11ax 160M	79/6345	100.00%	1.000	0.472	0.169	3.040	0.04	20.98	21.50	1.127	0.532	22.3
Head Test Data of U-NII-6													
Left cheek	802.11ax 160M	111/6505	100.00%	1.000	0.356	0.138	2.290	0.15	21.12	21.50	1.092	0.389	22.3
Left tilted	802.11ax 160M	111/6505	100.00%	1.000	0.464	0.183	2.990	0.10	21.12	21.50	1.092	0.507	22.3
Right cheek	802.11ax 160M	111/6505	100.00%	1.000	0.349	0.122	2.250	0.06	21.12	21.50	1.092	0.381	22.3
Right tilted	802.11ax 160M	111/6505	100.00%	1.000	0.344	0.123	2.210	0.16	21.12	21.50	1.092	0.376	22.3
Head Test Data of U-NII-7													
Left cheek	802.11ax 160M	143/6665	100.00%	1.000	0.333	0.113	2.140	0.03	20.02	21.00	1.252	0.417	22.3
Left tilted	802.11ax 160M	143/6665	100.00%	1.000	0.352	0.139	2.270	-0.08	20.02	21.00	1.252	0.441	22.3
Right cheek	802.11ax 160M	143/6665	100.00%	1.000	0.204	0.076	1.310	-0.03	20.02	21.00	1.252	0.255	22.3
Right tilted	802.11ax 160M	143/6665	100.00%	1.000	0.239	0.089	1.540	-0.15	20.02	21.00	1.252	0.299	22.3
Head Test Data of U-NII-8													
Left cheek	802.11ax 160M	207/6985	100.00%	1.000	0.247	0.090	1.590	-0.17	20.43	21.50	1.278	0.316	22.3
Left tilted	802.11ax 160M	207/6985	100.00%	1.000	0.270	0.103	1.740	0.16	20.43	21.50	1.278	0.345	22.3
Right cheek	802.11ax 160M	207/6985	100.00%	1.000	0.190	0.068	1.220	0.14	20.43	21.50	1.278	0.243	22.3
Right tilted	802.11ax 160M	207/6985	100.00%	1.000	0.199	0.078	1.280	0.10	20.43	21.50	1.278	0.254	22.3
Head Test Data of U-NII-5 with Non-DBS													
Left cheek	802.11ax 160M	79/6345	100.00%	1.000	0.554	0.223	3.570	0.13	20.98	18.50	0.565	0.313	22.3
Left tilted	802.11ax 160M	79/6345	100.00%	1.000	0.654	0.187	4.210	-0.05	20.98	18.50	0.565	0.369	22.3
Right cheek	802.11ax 160M	79/6345	100.00%	1.000	0.461	0.159	2.970	-0.12	20.98	18.50	0.565	0.260	22.3
Right tilted	802.11ax 160M	79/6345	100.00%	1.000	0.472	0.169	3.040	0.04	20.98	18.50	0.565	0.267	22.3
Head Test Data of U-NII-6 with Non-DBS													
Left cheek	802.11ax 160M	111/6505	100.00%	1.000	0.356	0.138	2.290	0.15	21.12	18.50	0.547	0.195	22.3
Left tilted	802.11ax 160M	111/6505	100.00%	1.000	0.464	0.183	2.990	0.10	21.12	18.50	0.547	0.254	22.3
Right cheek	802.11ax 160M	111/6505	100.00%	1.000	0.349	0.122	2.250	0.06	21.12	18.50	0.547	0.191	22.3
Right tilted	802.11ax 160M	111/6505	100.00%	1.000	0.344	0.123	2.210	0.16	21.12	18.50	0.547	0.188	22.3
Head Test Data of U-NII-7 with Non-DBS													
Left cheek	802.11ax 160M	143/6665	100.00%	1.000	0.333	0.113	2.140	0.03	20.02	18.00	0.627	0.209	22.3
Left tilted	802.11ax 160M	143/6665	100.00%	1.000	0.352	0.139	2.270	-0.08	20.02	18.00	0.627	0.221	22.3
Right cheek	802.11ax 160M	143/6665	100.00%	1.000	0.204	0.076	1.310	-0.03	20.02	18.00	0.627	0.128	22.3
Right tilted	802.11ax 160M	143/6665	100.00%	1.000	0.239	0.089	1.540	-0.15	20.02	18.00	0.627	0.150	22.3
Head Test Data of U-NII-8 with Non-DBS													
Left cheek	802.11ax 160M	207/6985	100.00%	1.000	0.247	0.090	1.590	-0.17	20.43	18.50	0.640	0.158	22.3
Left tilted	802.11ax 160M	207/6985	100.00%	1.000	0.270	0.103	1.740	0.16	20.43	18.50	0.640	0.173	22.3



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Right cheek	802.11ax 160M	207/6985	100.00%	1.000	0.190	0.068	1.220	0.14	20.43	18.50	0.640	0.122	22.3
Right tilted	802.11ax 160M	207/6985	100.00%	1.000	0.199	0.078	1.280	0.10	20.43	18.50	0.640	0.127	22.3
Head Test Data of U-NII-5 with DBS													
Left cheek	802.11ax 160M	79/6345	100.00%	1.000	0.554	0.223	3.570	0.13	20.98	15.50	0.283	0.157	22.3
Left tilted	802.11ax 160M	79/6345	100.00%	1.000	0.654	0.187	4.210	-0.05	20.98	15.50	0.283	0.185	22.3
Right cheek	802.11ax 160M	79/6345	100.00%	1.000	0.461	0.159	2.970	-0.12	20.98	15.50	0.283	0.131	22.3
Right tilted	802.11ax 160M	79/6345	100.00%	1.000	0.472	0.169	3.040	0.04	20.98	15.50	0.283	0.134	22.3
Head Test Data of U-NII-6 with DBS													
Left cheek	802.11ax 160M	111/6505	100.00%	1.000	0.356	0.138	2.290	0.15	21.12	15.50	0.274	0.098	22.3
Left tilted	802.11ax 160M	111/6505	100.00%	1.000	0.464	0.183	2.990	0.10	21.12	15.50	0.274	0.127	22.3
Right cheek	802.11ax 160M	111/6505	100.00%	1.000	0.349	0.122	2.250	0.06	21.12	15.50	0.274	0.096	22.3
Right tilted	802.11ax 160M	111/6505	100.00%	1.000	0.344	0.123	2.210	0.16	21.12	15.50	0.274	0.094	22.3
Head Test Data of U-NII-7 with DBS													
Left cheek	802.11ax 160M	143/6665	100.00%	1.000	0.333	0.113	2.140	0.03	20.02	15.00	0.314	0.105	22.3
Left tilted	802.11ax 160M	143/6665	100.00%	1.000	0.352	0.139	2.270	-0.08	20.02	15.00	0.314	0.111	22.3
Right cheek	802.11ax 160M	143/6665	100.00%	1.000	0.204	0.076	1.310	-0.03	20.02	15.00	0.314	0.064	22.3
Right tilted	802.11ax 160M	143/6665	100.00%	1.000	0.239	0.089	1.540	-0.15	20.02	15.00	0.314	0.075	22.3
Head Test Data of U-NII-8 with DBS													
Left cheek	802.11ax 160M	207/6985	100.00%	1.000	0.247	0.090	1.590	-0.17	20.43	15.50	0.321	0.079	22.3
Left tilted	802.11ax 160M	207/6985	100.00%	1.000	0.270	0.103	1.740	0.16	20.43	15.50	0.321	0.087	22.3
Right cheek	802.11ax 160M	207/6985	100.00%	1.000	0.190	0.068	1.220	0.14	20.43	15.50	0.321	0.061	22.3
Right tilted	802.11ax 160M	207/6985	100.00%	1.000	0.199	0.078	1.280	0.10	20.43	15.50	0.321	0.064	22.3
Body worn Test data of U-NII-5 (Separate 5mm)													
Front side	802.11ax 160M	79/6345	100.00%	1.000	0.262	0.096	1.790	0.14	20.98	21.50	1.127	0.295	22.3
Back side	802.11ax 160M	79/6345	100.00%	1.000	0.468	0.141	3.200	-0.08	20.98	21.50	1.127	0.527	22.3
Body worn Test data of U-NII-6 (Separate 5mm)													
Front side	802.11ax 160M	111/6505	100.00%	1.000	0.223	0.077	1.520	-0.03	21.12	21.50	1.092	0.244	22.3
Back side	802.11ax 160M	111/6505	100.00%	1.000	0.300	0.105	2.050	0.11	21.12	21.50	1.092	0.328	22.3
Body worn Test data of U-NII-7 (Separate 5mm)													
Front side	802.11ax 160M	143/6665	100.00%	1.000	0.180	0.059	1.230	-0.18	20.02	21.00	1.252	0.225	22.3
Back side	802.11ax 160M	143/6665	100.00%	1.000	0.329	0.103	2.250	-0.16	20.02	21.00	1.252	0.412	22.3
Body worn Test data of U-NII-8 (Separate 5mm)													
Front side	802.11ax 160M	207/6985	100.00%	1.000	0.137	0.045	0.940	-0.02	20.43	21.50	1.278	0.175	22.3
Back side	802.11ax 160M	207/6985	100.00%	1.000	0.334	0.115	2.280	0.10	20.43	21.50	1.278	0.427	22.3
Body worn Test data of U-NII-5 (Separate 5mm) with Non-DBS													
Front side	802.11ax 160M	79/6345	100.00%	1.000	0.262	0.096	1.790	0.14	20.98	19.50	0.711	0.186	22.3
Back side	802.11ax 160M	79/6345	100.00%	1.000	0.468	0.141	3.200	-0.08	20.98	19.50	0.711	0.333	22.3
Body worn Test data of U-NII-6 (Separate 5mm) with Non-DBS													
Front side	802.11ax 160M	111/6505	100.00%	1.000	0.223	0.077	1.520	-0.03	21.12	19.50	0.689	0.154	22.3
Back side	802.11ax 160M	111/6505	100.00%	1.000	0.300	0.105	2.050	0.11	21.12	19.50	0.689	0.207	22.3
Body worn Test data of U-NII-7 (Separate 5mm) with Non-DBS													
Front side	802.11ax 160M	143/6665	100.00%	1.000	0.180	0.059	1.230	-0.18	20.02	19.00	0.790	0.142	22.3
Back side	802.11ax 160M	143/6665	100.00%	1.000	0.329	0.103	2.250	-0.16	20.02	19.00	0.790	0.260	22.3
Body worn Test data of U-NII-8 (Separate 5mm) with Non-DBS													



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Front side	802.11ax 160M	207/6985	100.00%	1.000	0.137	0.045	0.940	-0.02	20.43	19.50	0.806	0.110	22.3
Back side	802.11ax 160M	207/6985	100.00%	1.000	0.334	0.115	2.280	0.10	20.43	19.50	0.806	0.269	22.3
Body worn Test data of U-NII-5 (Separate 5mm) with DBS													
Front side	802.11ax 160M	79/6345	100.00%	1.000	0.262	0.096	1.790	0.14	20.98	17.00	0.400	0.105	22.3
Back side	802.11ax 160M	79/6345	100.00%	1.000	0.468	0.141	3.200	-0.08	20.98	17.00	0.400	0.187	22.3
Body worn Test data of U-NII-6 (Separate 5mm) with DBS													
Front side	802.11ax 160M	111/6505	100.00%	1.000	0.223	0.077	1.520	-0.03	21.12	17.00	0.388	0.086	22.3
Back side	802.11ax 160M	111/6505	100.00%	1.000	0.300	0.105	2.050	0.11	21.12	17.00	0.388	0.116	22.3
Body worn Test data of U-NII-7 (Separate 5mm) with DBS													
Front side	802.11ax 160M	143/6665	100.00%	1.000	0.180	0.059	1.230	-0.18	20.02	16.50	0.444	0.080	22.3
Back side	802.11ax 160M	143/6665	100.00%	1.000	0.329	0.103	2.250	-0.16	20.02	16.50	0.444	0.146	22.3
Body worn Test data of U-NII-8 (Separate 5mm) with DBS													
Front side	802.11ax 160M	207/6985	100.00%	1.000	0.137	0.045	0.940	-0.02	20.43	17.00	0.453	0.062	22.3
Back side	802.11ax 160M	207/6985	100.00%	1.000	0.334	0.115	2.280	0.10	20.43	17.00	0.453	0.151	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	APD W/m ² (4cm ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-5 (Separate 0mm) Sensor on													
Front side	802.11ax 160M	79/6345	100.00%	1.000	0.103	0.027	0.640	-0.12	12.00	12.50	1.122	0.030	22.3
Back side	802.11ax 160M	79/6345	100.00%	1.000	0.068	0.015	0.360	0.12	12.00	12.50	1.122	0.017	22.3
Right side	802.11ax 160M	79/6345	100.00%	1.000	0.225	0.049	1.160	0.09	12.00	12.50	1.122	0.055	22.3
Top side	802.11ax 160M	79/6345	100.00%	1.000	0.262	0.046	1.090	0.00	12.00	12.50	1.122	0.052	22.3
Product specific 10gSAR Test data of U-NII-6 (Separate 0mm) Sensor on													
Front side	802.11ax 160M	111/6505	100.00%	1.000	0.112	0.025	0.590	-0.02	12.14	12.50	1.086	0.027	22.3
Back side	802.11ax 160M	111/6505	100.00%	1.000	0.048	0.011	0.260	-0.05	12.14	12.50	1.086	0.012	22.3
Right side	802.11ax 160M	111/6505	100.00%	1.000	0.235	0.046	1.080	0.03	12.14	12.50	1.086	0.050	22.3
Top side	802.11ax 160M	111/6505	100.00%	1.000	0.186	0.039	0.920	0.13	12.14	12.50	1.086	0.042	22.3
Product specific 10gSAR Test data of U-NII-7 (Separate 0mm) Sensor on													
Front side	802.11ax 160M	143/6665	100.00%	1.000	0.082	0.017	0.400	-0.16	11.00	12.00	1.259	0.021	22.3
Back side	802.11ax 160M	143/6665	100.00%	1.000	0.053	0.012	0.280	-0.02	11.00	12.00	1.259	0.015	22.3
Right side	802.11ax 160M	143/6665	100.00%	1.000	0.134	0.029	0.690	-0.04	11.00	12.00	1.259	0.037	22.3
Top side	802.11ax 160M	143/6665	100.00%	1.000	0.130	0.025	0.590	-0.07	11.00	12.00	1.259	0.031	22.3
Product specific 10gSAR Test data of U-NII-8 (Separate 0mm) Sensor on													
Front side	802.11ax 160M	207/6985	100.00%	1.000	0.058	0.013	0.310	-0.08	11.46	12.50	1.271	0.017	22.3
Back side	802.11ax 160M	207/6985	100.00%	1.000	0.056	0.012	0.270	-0.01	11.46	12.50	1.271	0.015	22.3
Right side	802.11ax 160M	207/6985	100.00%	1.000	0.153	0.030	0.710	-0.09	11.46	12.50	1.271	0.038	22.3
Top side	802.11ax 160M	207/6985	100.00%	1.000	0.086	0.022	0.520	-0.19	11.46	12.50	1.271	0.028	22.3
Product specific 10gSAR Test data of U-NII-5 Sensor off													
Front side 7mm	802.11ax 160M	79/6345	100.00%	1.000	0.128	0.048	1.110	0.02	20.98	21.50	1.127	0.054	22.3
Back side 12mm	802.11ax 160M	79/6345	100.00%	1.000	0.130	0.049	1.130	0.08	20.98	21.50	1.127	0.055	22.3
Right side 7mm	802.11ax 160M	79/6345	100.00%	1.000	0.512	0.139	3.210	-0.04	20.98	21.50	1.127	0.157	22.3
Top side 12mm	802.11ax 160M	79/6345	100.00%	1.000	0.224	0.080	1.850	0.13	20.98	21.50	1.127	0.090	22.3
Product specific 10gSAR Test data of U-NII-6 Sensor off													



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Front side 7mm	802.11ax 160M	111/6505	100.00%	1.000	0.127	0.048	1.110	0.10	21.12	21.50	1.092	0.052	22.3
Back side 12mm	802.11ax 160M	111/6505	100.00%	1.000	0.117	0.047	1.090	0.19	21.12	21.50	1.092	0.051	22.3
Right side 7mm	802.11ax 160M	111/6505	100.00%	1.000	0.345	0.103	2.380	-0.01	21.12	21.50	1.092	0.113	22.3
Top side 12mm	802.11ax 160M	111/6505	100.00%	1.000	0.157	0.060	1.390	-0.06	21.12	21.50	1.092	0.066	22.3
Product specific 10gSAR Test data of U-NII-7 Sensor off													
Front side 7mm	802.11ax 160M	143/6665	100.00%	1.000	0.068	0.024	0.550	-0.16	20.02	21.00	1.252	0.030	22.3
Back side 12mm	802.11ax 160M	143/6665	100.00%	1.000	0.105	0.039	0.900	0.02	20.02	21.00	1.252	0.049	22.3
Right side 7mm	802.11ax 160M	143/6665	100.00%	1.000	0.138	0.049	1.140	-0.07	20.02	21.00	1.252	0.061	22.3
Top side 12mm	802.11ax 160M	143/6665	100.00%	1.000	0.098	0.037	0.850	-0.09	20.02	21.00	1.252	0.046	22.3
Product specific 10gSAR Test data of U-NII-8 Sensor off													
Front side 7mm	802.11ax 160M	207/6985	100.00%	1.000	0.076	0.025	0.580	-0.06	20.43	21.50	1.278	0.032	22.3
Back side 12mm	802.11ax 160M	207/6985	100.00%	1.000	0.132	0.049	1.130	0.16	20.43	21.50	1.278	0.063	22.3
Right side 7mm	802.11ax 160M	207/6985	100.00%	1.000	0.143	0.056	1.290	-0.11	20.43	21.50	1.278	0.072	22.3
Top side 12mm	802.11ax 160M	207/6985	100.00%	1.000	0.128	0.029	0.670	0.14	20.43	21.50	1.278	0.037	22.3



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10.2.22 SAR Result of BT

Bluetooth SAR Test Record												
Ant 6 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	DH5	39/2441	76.78%	1.302	0.080	0.035	0.05	11.77	12.50	1.183	0.123	22.3
Left tilted	DH5	39/2441	76.78%	1.302	0.021	0.011	-0.03	11.77	12.50	1.183	0.032	22.3
Right cheek	DH5	39/2441	76.78%	1.302	0.020	0.011	0.07	11.77	12.50	1.183	0.031	22.3
Right tilted	DH5	39/2441	76.78%	1.302	0.009	0.005	0.01	11.77	12.50	1.183	0.014	22.3
Body worn Test data (Separate 5mm)												
Front side	DH5	39/2441	76.78%	1.302	0.046	0.021	0.02	11.77	12.50	1.183	0.071	22.3
Back side	DH5	39/2441	76.78%	1.302	0.139	0.058	0.05	11.77	12.50	1.183	0.214	22.3
Hotspot Test data (Separate 5mm)												
Front side	DH5	39/2441	76.78%	1.302	0.046	0.021	0.02	11.77	12.50	1.183	0.071	22.3
Back side	DH5	39/2441	76.78%	1.302	0.139	0.058	0.05	11.77	12.50	1.183	0.214	22.3
Right side	DH5	39/2441	76.78%	1.302	0.144	0.059	0.18	11.77	12.50	1.183	0.222	22.3
Top side	DH5	39/2441	76.78%	1.302	0.011	0.005	0.10	11.77	12.50	1.183	0.017	22.3



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10.3 Measurement of PD Data

10.3.1 PD Result of WIFI 6E

Wi-Fi 6E PD Test Record MIMO															
Test position	Test mode	Test ch./Freq.	Distance (mm)	Grid Step (λ)	Duty Cycle	Duty Cycle Scaled factor	iPDn	iPD ratio	Measured PD 4cm ² (W/m ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor for measurement uncertainty	Tune up Scaled factor	Scaled PD 4cm ² (W/m ²)
Power Density Test DATA															
Front side	802.11ax 160M	79/6345	2	0.0625	100.00%	1	/	/	0.90	0.02	20.98	21.50	1.5493	1.127	1.570
Back side	802.11ax 160M	79/6345	2	0.0625	100.00%	1	/	/	0.67	0.08	20.98	21.50	1.5493	1.127	1.163
Right side	802.11ax 160M	79/6345	2	0.0625	100.00%	1	/	/	1.99	-0.06	20.98	21.50	1.5493	1.127	3.475
Top side	802.11ax 160M	79/6345	9.5	0.0625	100.00%	1	10.60	-0.92	0.71	0.06	20.98	21.50	1.5493	1.127	1.245
Top side	802.11ax 160M	79/6345	2	0.0625	100.00%	1	13.10		3.43	0.13	20.98	21.50	1.5493	1.127	5.989
Top side	802.11ax 160M	15/6025	2	0.0625	100.00%	1	/	/	3.97	0.04	20.16	21.50	1.5493	1.363	8.383
Top side with Sample2	802.11ax 160M	15/6025	2	0.0625	100.00%	1	/	/	3.69	0.09	20.16	21.50	1.5493	1.363	7.792
Top side	802.11ax 160M	111/6505	2	0.0625	100.00%	1	/	/	1.73	-0.04	21.12	21.50	1.5493	1.092	2.928
Top side	802.11ax 160M	143/6665	2	0.0625	100.00%	1	/	/	1.33	0.06	20.02	21.00	1.5493	1.252	2.580
Top side	802.11ax 160M	207/6985	2	0.0625	100.00%	1	/	/	1.55	0.03	20.43	21.50	1.5493	1.278	3.069

10.4 Multiple Transmitter Evaluation

10.4.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4G	Yes	Yes	Yes	Yes
2	WWAN + WLAN 5GHz	Yes	Yes	Yes	Yes
3	WWAN + BT	Yes	Yes	Yes	Yes
4	WWAN + WLAN 2.4G + WLAN 5GHz	Yes	Yes	Yes	Yes
5	WWAN + WLAN 2.4G + BT	Yes	Yes	Yes	Yes
6	WWAN + WLAN 5GHz + BT	Yes	Yes	Yes	Yes
7	WWAN + WLAN 2.4G +NFC	/	/	/	Yes
8	WWAN + WLAN 5GHz	/	/	/	Yes
9	WWAN + BT	/	/	/	Yes
10	WWAN + WLAN 2.4G + WLAN 5GHz	/	/	/	Yes
11	WWAN + WLAN 2.4G + BT	/	/	/	Yes
12	WWAN + WLAN 5GHz + BT	/	/	/	Yes

Note:

- 1) The device does not support DTM function.
- 2) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 3) The NFC test data can be referred to NFC SAR test report (Report NO.: SUCR250200006310).
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.



10.4.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant0	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
GSM850	Left cheek	0.228	0.375	0.188	0.373	0.187	0.123	0.603	0.601	0.351	0.603	0.726	0.724
	Left tilted	0.159	0.302	0.152	0.391	0.196	0.032	0.461	0.550	0.191	0.507	0.493	0.582
	Right cheek	0.104	0.227	0.114	0.260	0.131	0.031	0.331	0.364	0.135	0.349	0.362	0.395
	Right tilted	0.061	0.272	0.136	0.267	0.134	0.014	0.333	0.328	0.075	0.331	0.347	0.342
GSM1900	Left cheek	0.041	0.375	0.188	0.373	0.187	0.123	0.416	0.414	0.164	0.416	0.539	0.537
	Left tilted	0.032	0.302	0.152	0.391	0.196	0.032	0.334	0.423	0.064	0.380	0.366	0.455
	Right cheek	0.037	0.227	0.114	0.260	0.131	0.031	0.264	0.297	0.068	0.282	0.295	0.328
	Right tilted	0.027	0.272	0.136	0.267	0.134	0.014	0.299	0.294	0.041	0.297	0.313	0.308
WCDMA B2	Left cheek	0.062	0.375	0.188	0.373	0.187	0.123	0.437	0.435	0.185	0.437	0.560	0.558
	Left tilted	0.037	0.302	0.152	0.391	0.196	0.032	0.339	0.428	0.069	0.385	0.371	0.460
	Right cheek	0.097	0.227	0.114	0.260	0.131	0.031	0.324	0.357	0.128	0.342	0.355	0.388
	Right tilted	0.046	0.272	0.136	0.267	0.134	0.014	0.318	0.313	0.060	0.316	0.332	0.327
WCDMA B4	Left cheek	0.035	0.375	0.188	0.373	0.187	0.123	0.410	0.408	0.158	0.410	0.533	0.531
	Left tilted	0.026	0.302	0.152	0.391	0.196	0.032	0.328	0.417	0.058	0.374	0.360	0.449
	Right cheek	0.031	0.227	0.114	0.260	0.131	0.031	0.258	0.291	0.062	0.276	0.289	0.322
	Right tilted	0.021	0.272	0.136	0.267	0.134	0.014	0.293	0.288	0.035	0.291	0.307	0.302
WCDMA B5	Left cheek	0.213	0.375	0.188	0.373	0.187	0.123	0.588	0.586	0.336	0.588	0.711	0.709
	Left tilted	0.139	0.302	0.152	0.391	0.196	0.032	0.441	0.530	0.171	0.487	0.473	0.562
	Right cheek	0.181	0.227	0.114	0.260	0.131	0.031	0.408	0.441	0.212	0.426	0.439	0.472
	Right tilted	0.097	0.272	0.136	0.267	0.134	0.014	0.369	0.364	0.111	0.367	0.383	0.378
LTE B2	Left cheek	0.081	0.375	0.188	0.373	0.187	0.123	0.456	0.454	0.204	0.456	0.579	0.577
	Left tilted	0.056	0.302	0.152	0.391	0.196	0.032	0.358	0.447	0.088	0.404	0.390	0.479
	Right cheek	0.134	0.227	0.114	0.260	0.131	0.031	0.361	0.394	0.165	0.379	0.392	0.425
	Right tilted	0.034	0.272	0.136	0.267	0.134	0.014	0.306	0.301	0.048	0.304	0.320	0.315
LTE B7	Left cheek	0.069	0.375	0.188	0.373	0.187	0.123	0.444	0.442	0.192	0.444	0.567	0.565
	Left tilted	0.011	0.302	0.152	0.391	0.196	0.032	0.313	0.402	0.043	0.359	0.345	0.434
	Right cheek	0.053	0.227	0.114	0.260	0.131	0.031	0.280	0.313	0.084	0.298	0.311	0.344
	Right tilted	0.006	0.272	0.136	0.267	0.134	0.014	0.278	0.273	0.020	0.276	0.292	0.287
LTE B12	Left cheek	0.173	0.375	0.188	0.373	0.187	0.123	0.548	0.546	0.296	0.548	0.671	0.669
	Left tilted	0.102	0.302	0.152	0.391	0.196	0.032	0.404	0.493	0.134	0.450	0.436	0.525
	Right cheek	0.144	0.227	0.114	0.260	0.131	0.031	0.371	0.404	0.175	0.389	0.402	0.435
	Right tilted	0.085	0.272	0.136	0.267	0.134	0.014	0.357	0.352	0.099	0.355	0.371	0.366
LTE B13	Left cheek	0.179	0.375	0.188	0.373	0.187	0.123	0.554	0.552	0.302	0.554	0.677	0.675
	Left tilted	0.124	0.302	0.152	0.391	0.196	0.032	0.426	0.515	0.156	0.472	0.458	0.547
	Right cheek	0.161	0.227	0.114	0.260	0.131	0.031	0.388	0.421	0.192	0.406	0.419	0.452
	Right tilted	0.098	0.272	0.136	0.267	0.134	0.014	0.370	0.365	0.112	0.368	0.384	0.379
LTE B26	Left cheek	0.232	0.375	0.188	0.373	0.187	0.123	0.607	0.605	0.355	0.607	0.730	0.728
	Left tilted	0.135	0.302	0.152	0.391	0.196	0.032	0.437	0.526	0.167	0.483	0.469	0.558
	Right cheek	0.202	0.227	0.114	0.260	0.131	0.031	0.429	0.462	0.233	0.447	0.460	0.493
	Right tilted	0.110	0.272	0.136	0.267	0.134	0.014	0.382	0.377	0.124	0.380	0.396	0.391
LTE B41	Left cheek	0.051	0.375	0.188	0.373	0.187	0.123	0.426	0.424	0.174	0.426	0.549	0.547



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	Left tilted	0.010	0.302	0.152	0.391	0.196	0.032	0.312	0.401	0.042	0.358	0.344	0.433
	Right cheek	0.028	0.227	0.114	0.260	0.131	0.031	0.255	0.288	0.059	0.273	0.286	0.319
	Right tilted	0.005	0.272	0.136	0.267	0.134	0.014	0.277	0.272	0.019	0.275	0.291	0.286
LTE B66	Left cheek	0.029	0.375	0.188	0.373	0.187	0.123	0.404	0.402	0.152	0.404	0.527	0.525
	Left tilted	0.007	0.302	0.152	0.391	0.196	0.032	0.309	0.398	0.039	0.355	0.341	0.430
	Right cheek	0.087	0.227	0.114	0.260	0.131	0.031	0.314	0.347	0.118	0.332	0.345	0.378
	Right tilted	0.016	0.272	0.136	0.267	0.134	0.014	0.288	0.283	0.030	0.286	0.302	0.297
N5	Left cheek	0.190	0.375	0.188	0.373	0.187	0.123	0.565	0.563	0.313	0.565	0.688	0.686
	Left tilted	0.120	0.302	0.152	0.391	0.196	0.032	0.422	0.511	0.152	0.468	0.454	0.543
	Right cheek	0.133	0.227	0.114	0.260	0.131	0.031	0.360	0.393	0.164	0.378	0.391	0.424
	Right tilted	0.076	0.272	0.136	0.267	0.134	0.014	0.348	0.343	0.090	0.346	0.362	0.357
N41	Left cheek	0.211	0.375	0.188	0.373	0.187	0.123	0.586	0.584	0.334	0.586	0.709	0.707
	Left tilted	0.065	0.302	0.152	0.391	0.196	0.032	0.367	0.456	0.097	0.413	0.399	0.488
	Right cheek	0.150	0.227	0.114	0.260	0.131	0.031	0.377	0.410	0.181	0.395	0.408	0.441
	Right tilted	0.103	0.272	0.136	0.267	0.134	0.014	0.375	0.370	0.117	0.373	0.389	0.384

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant1	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
GSM850	Left cheek	0.473	0.375	0.188	0.373	0.187	0.123	0.848	0.846	0.596	0.848	0.971	0.969
	Left tilted	0.411	0.302	0.152	0.391	0.196	0.032	0.713	0.802	0.443	0.759	0.745	0.834
	Right cheek	0.727	0.227	0.114	0.260	0.131	0.031	0.954	0.987	0.758	0.972	0.985	1.018
	Right tilted	0.611	0.272	0.136	0.267	0.134	0.014	0.883	0.878	0.625	0.881	0.897	0.892
GSM1900	Left cheek	0.418	0.375	0.188	0.373	0.187	0.123	0.793	0.791	0.541	0.793	0.916	0.914
	Left tilted	0.571	0.302	0.152	0.391	0.196	0.032	0.873	0.962	0.603	0.919	0.905	0.994
	Right cheek	0.747	0.227	0.114	0.260	0.131	0.031	0.974	1.007	0.778	0.992	1.005	1.038
	Right tilted	0.851	0.272	0.136	0.267	0.134	0.014	1.123	1.118	0.865	1.121	1.137	1.132
WCDMA B2	Left cheek	0.403	0.375	0.188	0.373	0.187	0.123	0.778	0.776	0.526	0.778	0.901	0.899
	Left tilted	0.548	0.302	0.152	0.391	0.196	0.032	0.850	0.939	0.580	0.896	0.882	0.971
	Right cheek	0.613	0.227	0.114	0.260	0.131	0.031	0.840	0.873	0.644	0.858	0.871	0.904
	Right tilted	0.774	0.272	0.136	0.267	0.134	0.014	1.046	1.041	0.788	1.044	1.060	1.055
WCDMA B4	Left cheek	0.738	0.375	0.188	0.373	0.187	0.123	1.113	1.111	0.861	1.113	1.236	1.234
	Left tilted	0.531	0.302	0.152	0.391	0.196	0.032	0.833	0.922	0.563	0.879	0.865	0.954
	Right cheek	0.535	0.227	0.114	0.260	0.131	0.031	0.762	0.795	0.566	0.780	0.793	0.826
	Right tilted	0.738	0.272	0.136	0.267	0.134	0.014	1.010	1.005	0.752	1.008	1.024	1.019
WCDMA B5	Left cheek	0.420	0.375	0.188	0.373	0.187	0.123	0.795	0.793	0.543	0.795	0.918	0.916
	Left tilted	0.413	0.302	0.152	0.391	0.196	0.032	0.715	0.804	0.445	0.761	0.747	0.836
	Right cheek	0.609	0.227	0.114	0.260	0.131	0.031	0.836	0.869	0.640	0.854	0.867	0.900
	Right tilted	0.548	0.272	0.136	0.267	0.134	0.014	0.820	0.815	0.562	0.818	0.834	0.829
LTE B2	Left cheek	0.406	0.375	0.188	0.373	0.187	0.123	0.781	0.779	0.529	0.781	0.904	0.902
	Left tilted	0.548	0.302	0.152	0.391	0.196	0.032	0.850	0.939	0.580	0.896	0.882	0.971
	Right cheek	0.616	0.227	0.114	0.260	0.131	0.031	0.843	0.876	0.647	0.861	0.874	0.907
	Right tilted	0.769	0.272	0.136	0.267	0.134	0.014	1.041	1.036	0.783	1.039	1.055	1.050
LTE B7	Left cheek	0.197	0.375	0.188	0.373	0.187	0.123	0.572	0.570	0.320	0.572	0.695	0.693
	Left tilted	0.282	0.302	0.152	0.391	0.196	0.032	0.584	0.673	0.314	0.630	0.616	0.705
	Right cheek	0.601	0.227	0.114	0.260	0.131	0.031	0.828	0.861	0.632	0.846	0.859	0.892
	Right tilted	0.695	0.272	0.136	0.267	0.134	0.014	0.967	0.962	0.709	0.965	0.981	0.976



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LTE B12	Left cheek	0.363	0.375	0.188	0.373	0.187	0.123	0.738	0.736	0.486	0.738	0.861	0.859
	Left tilted	0.384	0.302	0.152	0.391	0.196	0.032	0.686	0.775	0.416	0.732	0.718	0.807
	Right cheek	0.522	0.227	0.114	0.260	0.131	0.031	0.749	0.782	0.553	0.767	0.780	0.813
	Right tilted	0.612	0.272	0.136	0.267	0.134	0.014	0.884	0.879	0.626	0.882	0.898	0.893
LTE B13	Left cheek	0.544	0.375	0.188	0.373	0.187	0.123	0.919	0.917	0.667	0.919	1.042	1.040
	Left tilted	0.526	0.302	0.152	0.391	0.196	0.032	0.828	0.917	0.558	0.874	0.860	0.949
	Right cheek	0.734	0.227	0.114	0.260	0.131	0.031	0.961	0.994	0.765	0.979	0.992	1.025
	Right tilted	0.614	0.272	0.136	0.267	0.134	0.014	0.886	0.881	0.628	0.884	0.900	0.895
LTE B26	Left cheek	0.533	0.375	0.188	0.373	0.187	0.123	0.908	0.906	0.656	0.908	1.031	1.029
	Left tilted	0.496	0.302	0.152	0.391	0.196	0.032	0.798	0.887	0.528	0.844	0.830	0.919
	Right cheek	0.773	0.227	0.114	0.260	0.131	0.031	1.000	1.033	0.804	1.018	1.031	1.064
	Right tilted	0.694	0.272	0.136	0.267	0.134	0.014	0.966	0.961	0.708	0.964	0.980	0.975
LTE B41	Left cheek	0.168	0.375	0.188	0.373	0.187	0.123	0.543	0.541	0.291	0.543	0.666	0.664
	Left tilted	0.245	0.302	0.152	0.391	0.196	0.032	0.547	0.636	0.277	0.593	0.579	0.668
	Right cheek	0.528	0.227	0.114	0.260	0.131	0.031	0.755	0.788	0.559	0.773	0.786	0.819
	Right tilted	0.702	0.272	0.136	0.267	0.134	0.014	0.974	0.969	0.716	0.972	0.988	0.983
LTE B66	Left cheek	0.388	0.375	0.188	0.373	0.187	0.123	0.763	0.761	0.511	0.763	0.886	0.884
	Left tilted	0.458	0.302	0.152	0.391	0.196	0.032	0.760	0.849	0.490	0.806	0.792	0.881
	Right cheek	0.447	0.227	0.114	0.260	0.131	0.031	0.674	0.707	0.478	0.692	0.705	0.738
	Right tilted	0.883	0.272	0.136	0.267	0.134	0.014	1.155	1.150	0.897	1.153	1.169	1.164
N5	Left cheek	0.467	0.375	0.188	0.373	0.187	0.123	0.842	0.840	0.590	0.842	0.965	0.963
	Left tilted	0.445	0.302	0.152	0.391	0.196	0.032	0.747	0.836	0.477	0.793	0.779	0.868
	Right cheek	0.852	0.227	0.114	0.260	0.131	0.031	1.079	1.112	0.883	1.097	1.110	1.143
	Right tilted	0.724	0.272	0.136	0.267	0.134	0.014	0.996	0.991	0.738	0.994	1.010	1.005
N41	Left cheek	0.169	0.375	0.188	0.373	0.187	0.123	0.544	0.542	0.292	0.544	0.667	0.665
	Left tilted	0.208	0.302	0.152	0.391	0.196	0.032	0.510	0.599	0.240	0.556	0.542	0.631
	Right cheek	0.703	0.227	0.114	0.260	0.131	0.031	0.930	0.963	0.734	0.948	0.961	0.994
	Right tilted	0.637	0.272	0.136	0.267	0.134	0.014	0.909	0.904	0.651	0.907	0.923	0.918
N66	Left cheek	0.401	0.375	0.188	0.373	0.187	0.123	0.776	0.774	0.524	0.776	0.899	0.897
	Left tilted	0.530	0.302	0.152	0.391	0.196	0.032	0.832	0.921	0.562	0.878	0.864	0.953
	Right cheek	0.640	0.227	0.114	0.260	0.131	0.031	0.867	0.900	0.671	0.885	0.898	0.931
	Right tilted	0.724	0.272	0.136	0.267	0.134	0.014	0.996	0.991	0.738	0.994	1.010	1.005

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant2	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
GSM1900	Left cheek	0.076	0.375	0.188	0.373	0.187	0.123	0.451	0.449	0.199	0.451	0.574	0.572
	Left tilted	0.073	0.302	0.152	0.391	0.196	0.032	0.375	0.464	0.105	0.421	0.407	0.496
	Right cheek	0.063	0.227	0.114	0.260	0.131	0.031	0.290	0.323	0.094	0.308	0.321	0.354
	Right tilted	0.053	0.272	0.136	0.267	0.134	0.014	0.325	0.320	0.067	0.323	0.339	0.334
WCDMA B2	Left cheek	0.144	0.375	0.188	0.373	0.187	0.123	0.519	0.517	0.267	0.519	0.642	0.640
	Left tilted	0.090	0.302	0.152	0.391	0.196	0.032	0.392	0.481	0.122	0.438	0.424	0.513
	Right cheek	0.131	0.227	0.114	0.260	0.131	0.031	0.358	0.391	0.162	0.376	0.389	0.422
	Right tilted	0.090	0.272	0.136	0.267	0.134	0.014	0.362	0.357	0.104	0.360	0.376	0.371
WCDMA B4	Left cheek	0.206	0.375	0.188	0.373	0.187	0.123	0.581	0.579	0.329	0.581	0.704	0.702
	Left tilted	0.096	0.302	0.152	0.391	0.196	0.032	0.398	0.487	0.128	0.444	0.430	0.519
	Right cheek	0.174	0.227	0.114	0.260	0.131	0.031	0.401	0.434	0.205	0.419	0.432	0.465



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	Right tilted	0.117	0.272	0.136	0.267	0.134	0.014	0.389	0.384	0.131	0.387	0.403	0.398
LTE B2	Left cheek	0.157	0.375	0.188	0.373	0.187	0.123	0.532	0.530	0.280	0.532	0.655	0.653
	Left tilted	0.101	0.302	0.152	0.391	0.196	0.032	0.403	0.492	0.133	0.449	0.435	0.524
	Right cheek	0.145	0.227	0.114	0.260	0.131	0.031	0.372	0.405	0.176	0.390	0.403	0.436
	Right tilted	0.099	0.272	0.136	0.267	0.134	0.014	0.371	0.366	0.113	0.369	0.385	0.380
LTE B7	Left cheek	0.118	0.375	0.188	0.373	0.187	0.123	0.493	0.491	0.241	0.493	0.616	0.614
	Left tilted	0.094	0.302	0.152	0.391	0.196	0.032	0.396	0.485	0.126	0.442	0.428	0.517
	Right cheek	0.206	0.227	0.114	0.260	0.131	0.031	0.433	0.466	0.237	0.451	0.464	0.497
	Right tilted	0.110	0.272	0.136	0.267	0.134	0.014	0.382	0.377	0.124	0.380	0.396	0.391
LTE B41	Left cheek	0.071	0.375	0.188	0.373	0.187	0.123	0.446	0.444	0.194	0.446	0.569	0.567
	Left tilted	0.052	0.302	0.152	0.391	0.196	0.032	0.354	0.443	0.084	0.400	0.386	0.475
	Right cheek	0.146	0.227	0.114	0.260	0.131	0.031	0.373	0.406	0.177	0.391	0.404	0.437
	Right tilted	0.048	0.272	0.136	0.267	0.134	0.014	0.320	0.315	0.062	0.318	0.334	0.329
LTE B66	Left cheek	0.126	0.375	0.188	0.373	0.187	0.123	0.501	0.499	0.249	0.501	0.624	0.622
	Left tilted	0.073	0.302	0.152	0.391	0.196	0.032	0.375	0.464	0.105	0.421	0.407	0.496
	Right cheek	0.090	0.227	0.114	0.260	0.131	0.031	0.317	0.350	0.121	0.335	0.348	0.381
	Right tilted	0.068	0.272	0.136	0.267	0.134	0.014	0.340	0.335	0.082	0.338	0.354	0.349
N41	Left cheek	0.134	0.375	0.188	0.373	0.187	0.123	0.509	0.507	0.257	0.509	0.632	0.630
	Left tilted	0.117	0.302	0.152	0.391	0.196	0.032	0.419	0.508	0.149	0.465	0.451	0.540
	Right cheek	0.239	0.227	0.114	0.260	0.131	0.031	0.466	0.499	0.270	0.484	0.497	0.530
	Right tilted	0.057	0.272	0.136	0.267	0.134	0.014	0.329	0.324	0.071	0.327	0.343	0.338
N66	Left cheek	0.082	0.375	0.188	0.373	0.187	0.123	0.457	0.455	0.205	0.457	0.580	0.578
	Left tilted	0.066	0.302	0.152	0.391	0.196	0.032	0.368	0.457	0.098	0.414	0.400	0.489
	Right cheek	0.158	0.227	0.114	0.260	0.131	0.031	0.385	0.418	0.189	0.403	0.416	0.449
	Right tilted	0.058	0.272	0.136	0.267	0.134	0.014	0.330	0.325	0.072	0.328	0.344	0.339

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant4	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Left cheek	0.709	0.375	0.188	0.373	0.187	0.123	1.084	1.082	0.832	1.084	1.207	1.205
	Left tilted	0.670	0.302	0.152	0.391	0.196	0.032	0.972	1.061	0.702	1.018	1.004	1.093
	Right cheek	0.321	0.227	0.114	0.260	0.131	0.031	0.548	0.581	0.352	0.566	0.579	0.612
	Right tilted	0.327	0.272	0.136	0.267	0.134	0.014	0.599	0.594	0.341	0.597	0.613	0.608
N77	Left cheek	0.640	0.375	0.188	0.373	0.187	0.123	1.015	1.013	0.763	1.015	1.138	1.136
	Left tilted	0.784	0.302	0.152	0.391	0.196	0.032	1.086	1.175	0.816	1.132	1.118	1.207
	Right cheek	0.390	0.227	0.114	0.260	0.131	0.031	0.617	0.650	0.421	0.635	0.648	0.681
	Right tilted	0.469	0.272	0.136	0.267	0.134	0.014	0.741	0.736	0.483	0.739	0.755	0.750

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant7	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Left cheek	0.279	0.375	0.188	0.373	0.187	0.123	0.654	0.652	0.402	0.654	0.777	0.775
	Left tilted	0.125	0.302	0.152	0.391	0.196	0.032	0.427	0.516	0.157	0.473	0.459	0.548
	Right cheek	0.491	0.227	0.114	0.260	0.131	0.031	0.718	0.751	0.522	0.736	0.749	0.782



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	Right tilted	0.264	0.272	0.136	0.267	0.134	0.014	0.536	0.531	0.278	0.534	0.550	0.545
N77	Left cheek	0.273	0.375	0.188	0.373	0.187	0.123	0.648	0.646	0.396	0.648	0.771	0.769
	Left tilted	0.124	0.302	0.152	0.391	0.196	0.032	0.426	0.515	0.156	0.472	0.458	0.547
	Right cheek	0.748	0.227	0.114	0.260	0.131	0.031	0.975	1.008	0.779	0.993	1.006	1.039
	Right tilted	0.268	0.272	0.136	0.267	0.134	0.014	0.540	0.535	0.282	0.538	0.554	0.549

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant8	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Left cheek	0.203	0.375	0.188	0.373	0.187	0.123	0.578	0.576	0.326	0.578	0.701	0.699
	Left tilted	0.182	0.302	0.152	0.391	0.196	0.032	0.484	0.573	0.214	0.530	0.516	0.605
	Right cheek	0.338	0.227	0.114	0.260	0.131	0.031	0.565	0.598	0.369	0.583	0.596	0.629
	Right tilted	0.102	0.272	0.136	0.267	0.134	0.014	0.374	0.369	0.116	0.372	0.388	0.383
N77	Left cheek	0.385	0.375	0.188	0.373	0.187	0.123	0.760	0.758	0.508	0.760	0.883	0.881
	Left tilted	0.372	0.302	0.152	0.391	0.196	0.032	0.674	0.763	0.404	0.720	0.706	0.795
	Right cheek	1.049	0.227	0.114	0.260	0.131	0.031	1.276	1.309	1.080	1.294	1.307	1.340
	Right tilted	0.264	0.272	0.136	0.267	0.134	0.014	0.536	0.531	0.278	0.534	0.550	0.545

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant9	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
GSM1900	Left cheek	0.445	0.375	0.188	0.373	0.187	0.123	0.820	0.818	0.568	0.820	0.943	0.941
	Left tilted	0.060	0.302	0.152	0.391	0.196	0.032	0.362	0.451	0.092	0.408	0.394	0.483
	Right cheek	0.843	0.227	0.114	0.260	0.131	0.031	1.070	1.103	0.874	1.088	1.101	1.134
	Right tilted	0.084	0.272	0.136	0.267	0.134	0.014	0.356	0.351	0.098	0.354	0.370	0.365
WCDMA B2	Left cheek	0.550	0.375	0.188	0.373	0.187	0.123	0.925	0.923	0.673	0.925	1.048	1.046
	Left tilted	0.088	0.302	0.152	0.391	0.196	0.032	0.390	0.479	0.120	0.436	0.422	0.511
	Right cheek	0.681	0.227	0.114	0.260	0.131	0.031	0.908	0.941	0.712	0.926	0.939	0.972
	Right tilted	0.110	0.272	0.136	0.267	0.134	0.014	0.382	0.377	0.124	0.380	0.396	0.391
WCDMA B4	Left cheek	0.257	0.375	0.188	0.373	0.187	0.123	0.632	0.630	0.380	0.632	0.755	0.753
	Left tilted	0.028	0.302	0.152	0.391	0.196	0.032	0.330	0.419	0.060	0.376	0.362	0.451
	Right cheek	0.324	0.227	0.114	0.260	0.131	0.031	0.551	0.584	0.355	0.569	0.582	0.615
	Right tilted	0.034	0.272	0.136	0.267	0.134	0.014	0.306	0.301	0.048	0.304	0.320	0.315
LTE B2	Left cheek	0.650	0.375	0.188	0.373	0.187	0.123	1.025	1.023	0.773	1.025	1.148	1.146
	Left tilted	0.110	0.302	0.152	0.391	0.196	0.032	0.412	0.501	0.142	0.458	0.444	0.533
	Right cheek	0.799	0.227	0.114	0.260	0.131	0.031	1.026	1.059	0.830	1.044	1.057	1.090
	Right tilted	0.113	0.272	0.136	0.267	0.134	0.014	0.385	0.380	0.127	0.383	0.399	0.394
LTE B7	Left cheek	0.634	0.375	0.188	0.373	0.187	0.123	1.009	1.007	0.757	1.009	1.132	1.130
	Left tilted	0.074	0.302	0.152	0.391	0.196	0.032	0.376	0.465	0.106	0.422	0.408	0.497
	Right cheek	0.720	0.227	0.114	0.260	0.131	0.031	0.947	0.980	0.751	0.965	0.978	1.011
	Right tilted	0.121	0.272	0.136	0.267	0.134	0.014	0.393	0.388	0.135	0.391	0.407	0.402
LTE B41	Left cheek	0.518	0.375	0.188	0.373	0.187	0.123	0.893	0.891	0.641	0.893	1.016	1.014
	Left tilted	0.059	0.302	0.152	0.391	0.196	0.032	0.361	0.450	0.091	0.407	0.393	0.482
	Right cheek	0.755	0.227	0.114	0.260	0.131	0.031	0.982	1.015	0.786	1.000	1.013	1.046



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	Right tilted	0.082	0.272	0.136	0.267	0.134	0.014	0.354	0.349	0.096	0.352	0.368	0.363
LTE B66	Left cheek	0.622	0.375	0.188	0.373	0.187	0.123	0.997	0.995	0.745	0.997	1.120	1.118
	Left tilted	0.123	0.302	0.152	0.391	0.196	0.032	0.425	0.514	0.155	0.471	0.457	0.546
	Right cheek	0.776	0.227	0.114	0.260	0.131	0.031	1.003	1.036	0.807	1.021	1.034	1.067
	Right tilted	0.121	0.272	0.136	0.267	0.134	0.014	0.393	0.388	0.135	0.391	0.407	0.402
N41	Left cheek	0.582	0.375	0.188	0.373	0.187	0.123	0.957	0.955	0.705	0.957	1.080	1.078
	Left tilted	0.070	0.302	0.152	0.391	0.196	0.032	0.372	0.461	0.102	0.418	0.404	0.493
	Right cheek	0.700	0.227	0.114	0.260	0.131	0.031	0.927	0.960	0.731	0.945	0.958	0.991
	Right tilted	0.085	0.272	0.136	0.267	0.134	0.014	0.357	0.352	0.099	0.355	0.371	0.366

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant10	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Left cheek	0.177	0.375	0.188	0.373	0.187	0.123	0.552	0.550	0.300	0.552	0.675	0.673
	Left tilted	0.234	0.302	0.152	0.391	0.196	0.032	0.536	0.625	0.266	0.582	0.568	0.657
	Right cheek	0.104	0.227	0.114	0.260	0.131	0.031	0.331	0.364	0.135	0.349	0.362	0.395
	Right tilted	0.134	0.272	0.136	0.267	0.134	0.014	0.406	0.401	0.148	0.404	0.420	0.415
N77	Left cheek	0.330	0.375	0.188	0.373	0.187	0.123	0.705	0.703	0.453	0.705	0.828	0.826
	Left tilted	0.765	0.302	0.152	0.391	0.196	0.032	1.067	1.156	0.797	1.113	1.099	1.188
	Right cheek	0.183	0.227	0.114	0.260	0.131	0.031	0.410	0.443	0.214	0.428	0.441	0.474
	Right tilted	0.296	0.272	0.136	0.267	0.134	0.014	0.568	0.563	0.310	0.566	0.582	0.577



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Body_Worn:

Test position		SARmax (W/kg)						Summed SAR						
		Main Ant0	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT							
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6	Case No.
GSM850	Front side	0.335	0.250	0.125	0.354	0.199	0.071	0.585	0.689	0.406	0.659	0.656	0.760	/
	Back side	0.792	0.333	0.187	0.334	0.188	0.214	1.125	1.126	1.006	1.167	1.339	1.340	/
GSM1900	Front side	0.617	0.250	0.125	0.354	0.199	0.071	0.867	0.971	0.688	0.941	0.938	1.042	/
	Back side	1.096	0.333	0.187	0.334	0.188	0.214	1.429	1.430	1.310	1.471	1.643	1.644	1#&2#
WCDMA B2	Front side	0.549	0.250	0.125	0.354	0.199	0.071	0.799	0.903	0.620	0.873	0.870	0.974	/
	Back side	0.908	0.333	0.187	0.334	0.188	0.214	1.241	1.242	1.122	1.283	1.455	1.456	/
WCDMA B4	Front side	0.509	0.250	0.125	0.354	0.199	0.071	0.759	0.863	0.580	0.833	0.830	0.934	/
	Back side	1.098	0.333	0.187	0.334	0.188	0.214	1.431	1.432	1.312	1.473	1.645	1.646	3#&4#
WCDMA B5	Front side	0.403	0.250	0.125	0.354	0.199	0.071	0.653	0.757	0.474	0.727	0.724	0.828	/
	Back side	1.022	0.333	0.187	0.334	0.188	0.214	1.355	1.356	1.236	1.397	1.569	1.570	/
LTE B2	Front side	0.815	0.250	0.125	0.354	0.199	0.071	1.065	1.169	0.886	1.139	1.136	1.240	/
	Back side	0.971	0.333	0.187	0.334	0.188	0.214	1.304	1.305	1.185	1.346	1.518	1.519	/
LTE B7	Front side	0.437	0.250	0.125	0.354	0.199	0.071	0.687	0.791	0.508	0.761	0.758	0.862	/
	Back side	1.045	0.333	0.187	0.334	0.188	0.214	1.378	1.379	1.259	1.420	1.592	1.593	/
LTE B12	Front side	0.334	0.250	0.125	0.354	0.199	0.071	0.584	0.688	0.405	0.658	0.655	0.759	/
	Back side	0.700	0.333	0.187	0.334	0.188	0.214	1.033	1.034	0.914	1.075	1.247	1.248	/
LTE B13	Front side	0.355	0.250	0.125	0.354	0.199	0.071	0.605	0.709	0.426	0.679	0.676	0.780	/
	Back side	0.858	0.333	0.187	0.334	0.188	0.214	1.191	1.192	1.072	1.233	1.405	1.406	/
LTE B26	Front side	0.537	0.250	0.125	0.354	0.199	0.071	0.787	0.891	0.608	0.861	0.858	0.962	/
	Back side	1.174	0.333	0.187	0.334	0.188	0.214	1.507	1.508	1.388	1.549	1.721	1.722	5#&6#
LTE B41	Front side	0.198	0.250	0.125	0.354	0.199	0.071	0.448	0.552	0.269	0.522	0.519	0.623	/
	Back side	1.160	0.333	0.187	0.334	0.188	0.214	1.493	1.494	1.374	1.535	1.707	1.708	7#&8#
LTE B66	Front side	0.525	0.250	0.125	0.354	0.199	0.071	0.775	0.879	0.596	0.849	0.846	0.950	/
	Back side	0.921	0.333	0.187	0.334	0.188	0.214	1.254	1.255	1.135	1.296	1.468	1.469	/
N5	Front side	0.476	0.250	0.125	0.354	0.199	0.071	0.726	0.830	0.547	0.800	0.797	0.901	/
	Back side	1.149	0.333	0.187	0.334	0.188	0.214	1.482	1.483	1.363	1.524	1.696	1.697	9#&10#
N41	Front side	0.499	0.250	0.125	0.354	0.199	0.071	0.749	0.853	0.570	0.823	0.820	0.924	/
	Back side	1.165	0.333	0.187	0.334	0.188	0.214	1.498	1.499	1.379	1.540	1.712	1.713	11#&12#

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant1	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
GSM850	Front side	0.418	0.250	0.125	0.354	0.199	0.071	0.668	0.772	0.489	0.742	0.739	0.843
	Back side	0.600	0.333	0.187	0.334	0.188	0.214	0.933	0.934	0.814	0.975	1.147	1.148
GSM1900	Front side	0.354	0.250	0.125	0.354	0.199	0.071	0.604	0.708	0.425	0.678	0.675	0.779
	Back side	0.707	0.333	0.187	0.334	0.188	0.214	1.040	1.041	0.921	1.082	1.254	1.255
WCDMA B2	Front side	0.501	0.250	0.125	0.354	0.199	0.071	0.751	0.855	0.572	0.825	0.822	0.926
	Back side	0.722	0.333	0.187	0.334	0.188	0.214	1.055	1.056	0.936	1.097	1.269	1.270
WCDMA	Front side	0.473	0.250	0.125	0.354	0.199	0.071	0.723	0.827	0.544	0.797	0.794	0.898



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B4	Back side	0.695	0.333	0.187	0.334	0.188	0.214	1.028	1.029	0.909	1.070	1.242	1.243
WCDMA	Front side	0.480	0.250	0.125	0.354	0.199	0.071	0.730	0.834	0.551	0.804	0.801	0.905
B5	Back side	0.628	0.333	0.187	0.334	0.188	0.214	0.961	0.962	0.842	1.003	1.175	1.176
LTE B2	Front side	0.633	0.250	0.125	0.354	0.199	0.071	0.883	0.987	0.704	0.957	0.954	1.058
	Back side	0.836	0.333	0.187	0.334	0.188	0.214	1.169	1.170	1.050	1.211	1.383	1.384
LTE B7	Front side	0.444	0.250	0.125	0.354	0.199	0.071	0.694	0.798	0.515	0.768	0.765	0.869
	Back side	0.789	0.333	0.187	0.334	0.188	0.214	1.122	1.123	1.003	1.164	1.336	1.337
LTE B12	Front side	0.191	0.250	0.125	0.354	0.199	0.071	0.441	0.545	0.262	0.515	0.512	0.616
	Back side	0.255	0.333	0.187	0.334	0.188	0.214	0.588	0.589	0.469	0.630	0.802	0.803
LTE B13	Front side	0.320	0.250	0.125	0.354	0.199	0.071	0.570	0.674	0.391	0.644	0.641	0.745
	Back side	0.494	0.333	0.187	0.334	0.188	0.214	0.827	0.828	0.708	0.869	1.041	1.042
LTE B26	Front side	0.516	0.250	0.125	0.354	0.199	0.071	0.766	0.870	0.587	0.840	0.837	0.941
	Back side	0.686	0.333	0.187	0.334	0.188	0.214	1.019	1.020	0.900	1.061	1.233	1.234
LTE B41	Front side	0.538	0.250	0.125	0.354	0.199	0.071	0.788	0.892	0.609	0.862	0.859	0.963
	Back side	0.757	0.333	0.187	0.334	0.188	0.214	1.090	1.091	0.971	1.132	1.304	1.305
LTE B66	Front side	0.714	0.250	0.125	0.354	0.199	0.071	0.964	1.068	0.785	1.038	1.035	1.139
	Back side	0.794	0.333	0.187	0.334	0.188	0.214	1.127	1.128	1.008	1.169	1.341	1.342
N5	Front side	0.316	0.250	0.125	0.354	0.199	0.071	0.566	0.670	0.387	0.640	0.637	0.741
	Back side	0.494	0.333	0.187	0.334	0.188	0.214	0.827	0.828	0.708	0.869	1.041	1.042
N41	Front side	0.342	0.250	0.125	0.354	0.199	0.071	0.592	0.696	0.413	0.666	0.663	0.767
	Back side	0.752	0.333	0.187	0.334	0.188	0.214	1.085	1.086	0.966	1.127	1.299	1.300
N66	Front side	0.494	0.250	0.125	0.354	0.199	0.071	0.744	0.848	0.565	0.818	0.815	0.919
	Back side	0.770	0.333	0.187	0.334	0.188	0.214	1.103	1.104	0.984	1.145	1.317	1.318

Test position		SARmax (W/kg)						Summed SAR						
		Main Ant2	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT							
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6	Case No.
GSM1900	Front side	0.659	0.250	0.125	0.354	0.199	0.071	0.909	1.013	0.730	0.983	0.980	1.084	/
	Back side	0.849	0.333	0.187	0.334	0.188	0.214	1.182	1.183	1.063	1.224	1.396	1.397	/
WCDMA B2	Front side	0.984	0.250	0.125	0.354	0.199	0.071	1.234	1.338	1.055	1.308	1.305	1.409	/
	Back side	1.197	0.333	0.187	0.334	0.188	0.214	1.530	1.531	1.411	1.572	1.744	1.745	13#&14#
WCDMA B4	Front side	0.754	0.250	0.125	0.354	0.199	0.071	1.004	1.108	0.825	1.078	1.075	1.179	/
	Back side	0.916	0.333	0.187	0.334	0.188	0.214	1.249	1.250	1.130	1.291	1.463	1.464	/
LTE B2	Front side	0.774	0.250	0.125	0.354	0.199	0.071	1.024	1.128	0.845	1.098	1.095	1.199	/
	Back side	0.964	0.333	0.187	0.334	0.188	0.214	1.297	1.298	1.178	1.339	1.511	1.512	/
LTE B7	Front side	0.783	0.250	0.125	0.354	0.199	0.071	1.033	1.137	0.854	1.107	1.104	1.208	/
	Back side	1.044	0.333	0.187	0.334	0.188	0.214	1.377	1.378	1.258	1.419	1.591	1.592	/
LTE B41	Front side	0.553	0.250	0.125	0.354	0.199	0.071	0.803	0.907	0.624	0.877	0.874	0.978	/
	Back side	0.997	0.333	0.187	0.334	0.188	0.214	1.330	1.331	1.211	1.372	1.544	1.545	/
LTE B66	Front side	0.736	0.250	0.125	0.354	0.199	0.071	0.986	1.090	0.807	1.060	1.057	1.161	/
	Back side	1.139	0.333	0.187	0.334	0.188	0.214	1.472	1.473	1.353	1.514	1.686	1.687	15#&16#
N41	Front side	1.053	0.250	0.125	0.354	0.199	0.071	1.303	1.407	1.124	1.377	1.374	1.478	/
	Back side	0.858	0.333	0.187	0.334	0.188	0.214	1.191	1.192	1.072	1.233	1.405	1.406	/
N66	Front side	1.101	0.250	0.125	0.354	0.199	0.071	1.351	1.455	1.172	1.425	1.422	1.526	/
	Back side	1.218	0.333	0.187	0.334	0.188	0.214	1.551	1.552	1.432	1.593	1.765	1.766	17#&18#



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Test position		SARmax (W/kg)						Summed SAR					
		Main Ant4	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Front side	0.370	0.250	0.125	0.354	0.199	0.071	0.620	0.724	0.441	0.694	0.691	0.795
	Back side	0.606	0.333	0.187	0.334	0.188	0.214	0.939	0.940	0.820	0.981	1.153	1.154
N77	Front side	0.363	0.250	0.125	0.354	0.199	0.071	0.613	0.717	0.434	0.687	0.684	0.788
	Back side	0.862	0.333	0.187	0.334	0.188	0.214	1.195	1.196	1.076	1.237	1.409	1.410

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant7	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Front side	0.484	0.250	0.125	0.354	0.199	0.071	0.734	0.838	0.555	0.808	0.805	0.909
	Back side	0.778	0.333	0.187	0.334	0.188	0.214	1.111	1.112	0.992	1.153	1.325	1.326
N77	Front side	0.608	0.250	0.125	0.354	0.199	0.071	0.858	0.962	0.679	0.932	0.929	1.033
	Back side	0.854	0.333	0.187	0.334	0.188	0.214	1.187	1.188	1.068	1.229	1.401	1.402

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant8	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Front side	0.390	0.250	0.125	0.354	0.199	0.071	0.640	0.744	0.461	0.714	0.711	0.815
	Back side	0.600	0.333	0.187	0.334	0.188	0.214	0.933	0.934	0.814	0.975	1.147	1.148
N77	Front side	0.534	0.250	0.125	0.354	0.199	0.071	0.784	0.888	0.605	0.858	0.855	0.959
	Back side	0.842	0.333	0.187	0.334	0.188	0.214	1.175	1.176	1.056	1.217	1.389	1.390

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant9	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
GSM1900	Front side	0.431	0.250	0.125	0.354	0.199	0.071	0.681	0.785	0.502	0.755	0.752	0.856
	Back side	0.686	0.333	0.187	0.334	0.188	0.214	1.019	1.020	0.900	1.061	1.233	1.234
WCDMA B2	Front side	0.540	0.250	0.125	0.354	0.199	0.071	0.790	0.894	0.611	0.864	0.861	0.965
	Back side	0.718	0.333	0.187	0.334	0.188	0.214	1.051	1.052	0.932	1.093	1.265	1.266
WCDMA B4	Front side	0.293	0.250	0.125	0.354	0.199	0.071	0.543	0.647	0.364	0.617	0.614	0.718
	Back side	0.360	0.333	0.187	0.334	0.188	0.214	0.693	0.694	0.574	0.735	0.907	0.908
LTE B2	Front side	0.507	0.250	0.125	0.354	0.199	0.071	0.757	0.861	0.578	0.831	0.828	0.932
	Back side	0.721	0.333	0.187	0.334	0.188	0.214	1.054	1.055	0.935	1.096	1.268	1.269
LTE B7	Front side	0.448	0.250	0.125	0.354	0.199	0.071	0.698	0.802	0.519	0.772	0.769	0.873
	Back side	0.660	0.333	0.187	0.334	0.188	0.214	0.993	0.994	0.874	1.035	1.207	1.208



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LTE B41	Front side	0.558	0.250	0.125	0.354	0.199	0.071	0.808	0.912	0.629	0.882	0.879	0.983
	Back side	0.766	0.333	0.187	0.334	0.188	0.214	1.099	1.100	0.980	1.141	1.313	1.314
LTE B66	Front side	0.505	0.250	0.125	0.354	0.199	0.071	0.755	0.859	0.576	0.829	0.826	0.930
	Back side	0.718	0.333	0.187	0.334	0.188	0.214	1.051	1.052	0.932	1.093	1.265	1.266
N41	Front side	0.402	0.250	0.125	0.354	0.199	0.071	0.652	0.756	0.473	0.726	0.723	0.827
	Back side	0.744	0.333	0.187	0.334	0.188	0.214	1.077	1.078	0.958	1.119	1.291	1.292

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant10	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Front side	0.059	0.250	0.125	0.354	0.199	0.071	0.309	0.413	0.130	0.383	0.380	0.484
	Back side	0.761	0.333	0.187	0.334	0.188	0.214	1.094	1.095	0.975	1.136	1.308	1.309
N77	Front side	0.127	0.250	0.125	0.354	0.199	0.071	0.377	0.481	0.198	0.451	0.448	0.552
	Back side	0.843	0.333	0.187	0.334	0.188	0.214	1.176	1.177	1.057	1.218	1.390	1.391



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Hotspot

Test position		SARmax (W/kg)						Summed SAR						
		Main Ant0	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G MIMO Non-DBS	WiFi 5G MIMO DBS	BT							
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6	Case No.
GSM850	Front side	0.335	0.191	0.096	0.292	0.147	0.071	0.526	0.627	0.406	0.578	0.597	0.698	/
	Back side	0.792	0.407	0.204	0.382	0.192	0.214	1.199	1.174	1.006	1.188	1.413	1.388	/
	Left side	0.273	0.000	0.000	0.000	0.000	0.000	0.273	0.273	0.273	0.273	0.273	0.273	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.435	0.000	0.000	0.000	0.000	0.000	0.435	0.435	0.435	0.435	0.435	0.435	/
GSM1900	Front side	0.617	0.191	0.096	0.292	0.147	0.071	0.808	0.909	0.688	0.860	0.879	0.980	/
	Back side	1.096	0.407	0.204	0.382	0.192	0.214	1.503	1.478	1.310	1.492	1.717	1.692	19#&20#
	Left side	0.574	0.000	0.000	0.000	0.000	0.000	0.574	0.574	0.574	0.574	0.574	0.574	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.668	0.000	0.000	0.000	0.000	0.000	0.668	0.668	0.668	0.668	0.668	0.668	/
WCDMA B2	Front side	0.544	0.191	0.096	0.292	0.147	0.071	0.735	0.836	0.615	0.787	0.806	0.907	/
	Back side	0.908	0.407	0.204	0.382	0.192	0.214	1.315	1.290	1.122	1.304	1.529	1.504	/
	Left side	0.429	0.000	0.000	0.000	0.000	0.000	0.429	0.429	0.429	0.429	0.429	0.429	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.793	0.000	0.000	0.000	0.000	0.000	0.793	0.793	0.793	0.793	0.793	0.793	/
WCDMA B4	Front side	0.509	0.191	0.096	0.292	0.147	0.071	0.700	0.801	0.580	0.752	0.771	0.872	/
	Back side	1.098	0.407	0.204	0.382	0.192	0.214	1.505	1.480	1.312	1.494	1.719	1.694	21#&22#
	Left side	0.243	0.000	0.000	0.000	0.000	0.000	0.243	0.243	0.243	0.243	0.243	0.243	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.353	0.000	0.000	0.000	0.000	0.000	0.353	0.353	0.353	0.353	0.353	0.353	/
WCDMA B5	Front side	0.403	0.191	0.096	0.292	0.147	0.071	0.594	0.695	0.474	0.646	0.665	0.766	/
	Back side	1.022	0.407	0.204	0.382	0.192	0.214	1.429	1.404	1.236	1.418	1.643	1.618	23#&24#
	Left side	0.324	0.000	0.000	0.000	0.000	0.000	0.324	0.324	0.324	0.324	0.324	0.324	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.554	0.000	0.000	0.000	0.000	0.000	0.554	0.554	0.554	0.554	0.554	0.554	/
LTE B2	Front side	0.688	0.191	0.096	0.292	0.147	0.071	0.879	0.980	0.759	0.931	0.950	1.051	/
	Back side	0.971	0.407	0.204	0.382	0.192	0.214	1.378	1.353	1.185	1.367	1.592	1.567	/
	Left side	0.597	0.000	0.000	0.000	0.000	0.000	0.597	0.597	0.597	0.597	0.597	0.597	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.645	0.000	0.000	0.000	0.000	0.000	0.645	0.645	0.645	0.645	0.645	0.645	/
LTE B7	Front side	0.414	0.191	0.096	0.292	0.147	0.071	0.605	0.706	0.485	0.657	0.676	0.777	/
	Back side	1.045	0.407	0.204	0.382	0.192	0.214	1.452	1.427	1.259	1.441	1.666	1.641	25#&26#
	Left side	0.190	0.000	0.000	0.000	0.000	0.000	0.190	0.190	0.190	0.190	0.190	0.190	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.689	0.000	0.000	0.000	0.000	0.000	0.689	0.689	0.689	0.689	0.689	0.689	/



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LTE B12	Front side	0.334	0.191	0.096	0.292	0.147	0.071	0.525	0.626	0.405	0.577	0.596	0.697	/
	Back side	0.700	0.407	0.204	0.382	0.192	0.214	1.107	1.082	0.914	1.096	1.321	1.296	/
	Left side	0.552	0.000	0.000	0.000	0.000	0.000	0.552	0.552	0.552	0.552	0.552	0.552	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.552	0.000	0.000	0.000	0.000	0.000	0.552	0.552	0.552	0.552	0.552	0.552	/
LTE B13	Front side	0.355	0.191	0.096	0.292	0.147	0.071	0.546	0.647	0.426	0.598	0.617	0.718	/
	Back side	0.858	0.407	0.204	0.382	0.192	0.214	1.265	1.240	1.072	1.254	1.479	1.454	/
	Left side	0.454	0.000	0.000	0.000	0.000	0.000	0.454	0.454	0.454	0.454	0.454	0.454	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.489	0.000	0.000	0.000	0.000	0.000	0.489	0.489	0.489	0.489	0.489	0.489	/
LTE B26	Front side	0.537	0.191	0.096	0.292	0.147	0.071	0.728	0.829	0.608	0.780	0.799	0.900	/
	Back side	1.174	0.407	0.204	0.382	0.192	0.214	1.581	1.556	1.388	1.570	1.795	1.770	27#&28#
	Left side	0.426	0.000	0.000	0.000	0.000	0.000	0.426	0.426	0.426	0.426	0.426	0.426	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.711	0.000	0.000	0.000	0.000	0.000	0.711	0.711	0.711	0.711	0.711	0.711	/
LTE B41	Front side	0.198	0.191	0.096	0.292	0.147	0.071	0.389	0.490	0.269	0.441	0.460	0.561	/
	Back side	1.160	0.407	0.204	0.382	0.192	0.214	1.567	1.542	1.374	1.556	1.781	1.756	29#&30#
	Left side	0.099	0.000	0.000	0.000	0.000	0.000	0.099	0.099	0.099	0.099	0.099	0.099	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.431	0.000	0.000	0.000	0.000	0.000	0.431	0.431	0.431	0.431	0.431	0.431	/
LTE B66	Front side	0.469	0.191	0.096	0.292	0.147	0.071	0.660	0.761	0.540	0.712	0.731	0.832	/
	Back side	0.921	0.407	0.204	0.382	0.192	0.214	1.328	1.303	1.135	1.317	1.542	1.517	/
	Left side	0.403	0.000	0.000	0.000	0.000	0.000	0.403	0.403	0.403	0.403	0.403	0.403	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.647	0.000	0.000	0.000	0.000	0.000	0.647	0.647	0.647	0.647	0.647	0.647	/
N5	Front side	0.476	0.191	0.096	0.292	0.147	0.071	0.667	0.768	0.547	0.719	0.738	0.839	/
	Back side	1.149	0.407	0.204	0.382	0.192	0.214	1.556	1.531	1.363	1.545	1.770	1.745	31#&32#
	Left side	0.341	0.000	0.000	0.000	0.000	0.000	0.341	0.341	0.341	0.341	0.341	0.341	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.674	0.000	0.000	0.000	0.000	0.000	0.674	0.674	0.674	0.674	0.674	0.674	/
N41	Front side	0.499	0.191	0.096	0.292	0.147	0.071	0.690	0.791	0.570	0.742	0.761	0.862	/
	Back side	1.165	0.407	0.204	0.382	0.192	0.214	1.572	1.547	1.379	1.561	1.786	1.761	33#&34#
	Left side	0.178	0.000	0.000	0.000	0.000	0.000	0.178	0.178	0.178	0.178	0.178	0.178	/
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	/
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.593	0.000	0.000	0.000	0.000	0.000	0.593	0.593	0.593	0.593	0.593	0.593	/



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Test position		SARmax (W/kg)						Summed SAR					
		Main Ant1	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G MIMO Non-DBS	WiFi 5G MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
GSM850	Front side	0.344	0.191	0.096	0.292	0.147	0.071	0.535	0.636	0.415	0.587	0.606	0.707
	Back side	0.495	0.407	0.204	0.382	0.192	0.214	0.902	0.877	0.709	0.891	1.116	1.091
	Left side	0.125	0.000	0.000	0.000	0.000	0.000	0.125	0.125	0.125	0.125	0.125	0.125
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.361	0.184	0.092	0.613	0.307	0.017	0.545	0.974	0.378	0.760	0.562	0.991
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Front side	0.253	0.191	0.096	0.292	0.147	0.071	0.444	0.545	0.324	0.496	0.515	0.616
	Back side	0.514	0.407	0.204	0.382	0.192	0.214	0.921	0.896	0.728	0.910	1.135	1.110
	Left side	0.042	0.000	0.000	0.000	0.000	0.000	0.042	0.042	0.042	0.042	0.042	0.042
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.569	0.184	0.092	0.613	0.307	0.017	0.753	1.182	0.586	0.968	0.770	1.199
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Front side	0.242	0.191	0.096	0.292	0.147	0.071	0.433	0.534	0.313	0.485	0.504	0.605
	Back side	0.350	0.407	0.204	0.382	0.192	0.214	0.757	0.732	0.564	0.746	0.971	0.946
	Left side	0.038	0.000	0.000	0.000	0.000	0.000	0.038	0.038	0.038	0.038	0.038	0.038
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.483	0.184	0.092	0.613	0.307	0.017	0.667	1.096	0.500	0.882	0.684	1.113
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Front side	0.306	0.191	0.096	0.292	0.147	0.071	0.497	0.598	0.377	0.549	0.568	0.669
	Back side	0.450	0.407	0.204	0.382	0.192	0.214	0.857	0.832	0.664	0.846	1.071	1.046
	Left side	0.044	0.000	0.000	0.000	0.000	0.000	0.044	0.044	0.044	0.044	0.044	0.044
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.570	0.184	0.092	0.613	0.307	0.017	0.754	1.183	0.587	0.969	0.771	1.200
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Front side	0.368	0.191	0.096	0.292	0.147	0.071	0.559	0.660	0.439	0.611	0.630	0.731
	Back side	0.482	0.407	0.204	0.382	0.192	0.214	0.889	0.864	0.696	0.878	1.103	1.078
	Left side	0.118	0.000	0.000	0.000	0.000	0.000	0.118	0.118	0.118	0.118	0.118	0.118
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.439	0.184	0.092	0.613	0.307	0.017	0.623	1.052	0.456	0.838	0.640	1.069
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B2	Front side	0.279	0.191	0.096	0.292	0.147	0.071	0.470	0.571	0.350	0.522	0.541	0.642
	Back side	0.414	0.407	0.204	0.382	0.192	0.214	0.821	0.796	0.628	0.810	1.035	1.010
	Left side	0.051	0.000	0.000	0.000	0.000	0.000	0.051	0.051	0.051	0.051	0.051	0.051
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.523	0.184	0.092	0.613	0.307	0.017	0.707	1.136	0.540	0.922	0.724	1.153
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Front side	0.182	0.191	0.096	0.292	0.147	0.071	0.373	0.474	0.253	0.425	0.444	0.545
	Back side	0.359	0.407	0.204	0.382	0.192	0.214	0.766	0.741	0.573	0.755	0.980	0.955
	Left side	0.163	0.000	0.000	0.000	0.000	0.000	0.163	0.163	0.163	0.163	0.163	0.163
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.435	0.184	0.092	0.613	0.307	0.017	0.619	1.048	0.452	0.834	0.636	1.065
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B12	Front side	0.191	0.191	0.096	0.292	0.147	0.071	0.382	0.483	0.262	0.434	0.453	0.554



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	Back side	0.255	0.407	0.204	0.382	0.192	0.214	0.662	0.637	0.469	0.651	0.876	0.851
	Left side	0.105	0.000	0.000	0.000	0.000	0.000	0.105	0.105	0.105	0.105	0.105	0.105
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.276	0.184	0.092	0.613	0.307	0.017	0.460	0.889	0.293	0.675	0.477	0.906
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B13	Front side	0.320	0.191	0.096	0.292	0.147	0.071	0.511	0.612	0.391	0.563	0.582	0.683
	Back side	0.494	0.407	0.204	0.382	0.192	0.214	0.901	0.876	0.708	0.890	1.115	1.090
	Left side	0.168	0.000	0.000	0.000	0.000	0.000	0.168	0.168	0.168	0.168	0.168	0.168
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.468	0.184	0.092	0.613	0.307	0.017	0.652	1.081	0.485	0.867	0.669	1.098
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B26	Front side	0.379	0.191	0.096	0.292	0.147	0.071	0.570	0.671	0.450	0.622	0.641	0.742
	Back side	0.458	0.407	0.204	0.382	0.192	0.214	0.865	0.840	0.672	0.854	1.079	1.054
	Left side	0.119	0.000	0.000	0.000	0.000	0.000	0.119	0.119	0.119	0.119	0.119	0.119
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.454	0.184	0.092	0.613	0.307	0.017	0.638	1.067	0.471	0.853	0.655	1.084
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Front side	0.199	0.191	0.096	0.292	0.147	0.071	0.390	0.491	0.270	0.442	0.461	0.562
	Back side	0.296	0.407	0.204	0.382	0.192	0.214	0.703	0.678	0.510	0.692	0.917	0.892
	Left side	0.212	0.000	0.000	0.000	0.000	0.000	0.212	0.212	0.212	0.212	0.212	0.212
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.520	0.184	0.092	0.613	0.307	0.017	0.704	1.133	0.537	0.919	0.721	1.150
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	0.255	0.191	0.096	0.292	0.147	0.071	0.446	0.547	0.326	0.498	0.517	0.618
	Back side	0.309	0.407	0.204	0.382	0.192	0.214	0.716	0.691	0.523	0.705	0.930	0.905
	Left side	0.046	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.046	0.046	0.046
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.496	0.184	0.092	0.613	0.307	0.017	0.680	1.109	0.513	0.895	0.697	1.126
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N5	Front side	0.316	0.191	0.096	0.292	0.147	0.071	0.507	0.608	0.387	0.559	0.578	0.679
	Back side	0.494	0.407	0.204	0.382	0.192	0.214	0.901	0.876	0.708	0.890	1.115	1.090
	Left side	0.142	0.000	0.000	0.000	0.000	0.000	0.142	0.142	0.142	0.142	0.142	0.142
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.387	0.184	0.092	0.613	0.307	0.017	0.571	1.000	0.404	0.786	0.588	1.017
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N41	Front side	0.205	0.191	0.096	0.292	0.147	0.071	0.396	0.497	0.276	0.448	0.467	0.568
	Back side	0.385	0.407	0.204	0.382	0.192	0.214	0.792	0.767	0.599	0.781	1.006	0.981
	Left side	0.214	0.000	0.000	0.000	0.000	0.000	0.214	0.214	0.214	0.214	0.214	0.214
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.520	0.184	0.092	0.613	0.307	0.017	0.704	1.133	0.537	0.919	0.721	1.150
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N66	Front side	0.226	0.191	0.096	0.292	0.147	0.071	0.417	0.518	0.297	0.469	0.488	0.589
	Back side	0.352	0.407	0.204	0.382	0.192	0.214	0.759	0.734	0.566	0.748	0.973	0.948
	Left side	0.036	0.000	0.000	0.000	0.000	0.000	0.036	0.036	0.036	0.036	0.036	0.036
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.477	0.184	0.092	0.613	0.307	0.017	0.661	1.090	0.494	0.876	0.678	1.107
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Test position		SARmax (W/kg)						Summed SAR					
		Main Ant2	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G MIMO Non-DBS	WiFi 5G MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
GSM1900	Front side	0.505	0.191	0.096	0.292	0.147	0.071	0.696	0.797	0.576	0.748	0.767	0.868
	Back side	0.650	0.407	0.204	0.382	0.192	0.214	1.057	1.032	0.864	1.046	1.271	1.246
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.356	0.595	0.298	0.312	0.156	0.222	0.951	0.668	0.578	0.810	1.173	0.890
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630
	Bottom side	0.913	0.000	0.000	0.000	0.000	0.000	0.913	0.913	0.913	0.913	0.913	0.913
WCDMA B2	Front side	0.611	0.191	0.096	0.292	0.147	0.071	0.802	0.903	0.682	0.854	0.873	0.974
	Back side	0.743	0.407	0.204	0.382	0.192	0.214	1.150	1.125	0.957	1.139	1.364	1.339
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.444	0.595	0.298	0.312	0.156	0.222	1.039	0.756	0.666	0.898	1.261	0.978
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630
	Bottom side	0.898	0.000	0.000	0.000	0.000	0.000	0.898	0.898	0.898	0.898	0.898	0.898
WCDMA B4	Front side	0.729	0.191	0.096	0.292	0.147	0.071	0.920	1.021	0.800	0.972	0.991	1.092
	Back side	0.886	0.407	0.204	0.382	0.192	0.214	1.293	1.268	1.100	1.282	1.507	1.482
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.399	0.595	0.298	0.312	0.156	0.222	0.994	0.711	0.621	0.853	1.216	0.933
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630
	Bottom side	1.027	0.000	0.000	0.000	0.000	0.000	1.027	1.027	1.027	1.027	1.027	1.027
LTE B2	Front side	0.686	0.191	0.096	0.292	0.147	0.071	0.877	0.978	0.757	0.929	0.948	1.049
	Back side	0.924	0.407	0.204	0.382	0.192	0.214	1.331	1.306	1.138	1.320	1.545	1.520
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.560	0.595	0.298	0.312	0.156	0.222	1.155	0.872	0.782	1.014	1.377	1.094
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630
	Bottom side	1.118	0.000	0.000	0.000	0.000	0.000	1.118	1.118	1.118	1.118	1.118	1.118
LTE B7	Front side	0.580	0.191	0.096	0.292	0.147	0.071	0.771	0.872	0.651	0.823	0.842	0.943
	Back side	0.767	0.407	0.204	0.382	0.192	0.214	1.174	1.149	0.981	1.163	1.388	1.363
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.404	0.595	0.298	0.312	0.156	0.222	0.999	0.716	0.626	0.858	1.221	0.938
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630
	Bottom side	1.056	0.000	0.000	0.000	0.000	0.000	1.056	1.056	1.056	1.056	1.056	1.056
LTE B41	Front side	0.480	0.191	0.096	0.292	0.147	0.071	0.671	0.772	0.551	0.723	0.742	0.843
	Back side	0.579	0.407	0.204	0.382	0.192	0.214	0.986	0.961	0.793	0.975	1.200	1.175
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.109	0.595	0.298	0.312	0.156	0.222	0.704	0.421	0.331	0.563	0.926	0.643
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630
	Bottom side	1.157	0.000	0.000	0.000	0.000	0.000	1.157	1.157	1.157	1.157	1.157	1.157
LTE B66	Front side	0.518	0.191	0.096	0.292	0.147	0.071	0.709	0.810	0.589	0.761	0.780	0.881
	Back side	0.636	0.407	0.204	0.382	0.192	0.214	1.043	1.018	0.850	1.032	1.257	1.232
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.094	0.595	0.298	0.312	0.156	0.222	0.689	0.406	0.316	0.548	0.911	0.628
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630
	Bottom side	0.858	0.000	0.000	0.000	0.000	0.000	0.858	0.858	0.858	0.858	0.858	0.858
N41	Front side	0.847	0.191	0.096	0.292	0.147	0.071	1.038	1.139	0.918	1.090	1.109	1.210



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	Back side	0.575	0.407	0.204	0.382	0.192	0.214	0.982	0.957	0.789	0.971	1.196	1.171
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.225	0.595	0.298	0.312	0.156	0.222	0.820	0.537	0.447	0.679	1.042	0.759
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630
	Bottom side	1.103	0.000	0.000	0.000	0.000	0.000	1.103	1.103	1.103	1.103	1.103	1.103
N66	Front side	0.791	0.191	0.096	0.292	0.147	0.071	0.982	1.083	0.862	1.034	1.053	1.154
	Back side	0.892	0.407	0.204	0.382	0.192	0.214	1.299	1.274	1.106	1.288	1.513	1.488
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.467	0.595	0.298	0.312	0.156	0.222	1.062	0.779	0.689	0.921	1.284	1.001
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630
	Bottom side	1.179	0.000	0.000	0.000	0.000	0.000	1.179	1.179	1.179	1.179	1.179	1.179

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant4	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G MIMO Non-DBS	WiFi 5G MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Front side	0.266	0.191	0.096	0.292	0.147	0.071	0.457	0.558	0.337	0.509	0.528	0.629
	Back side	0.524	0.407	0.204	0.382	0.192	0.214	0.931	0.906	0.738	0.920	1.145	1.120
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.142	0.595	0.298	0.312	0.156	0.222	0.737	0.454	0.364	0.596	0.959	0.676
	Top side	0.378	0.184	0.092	0.613	0.307	0.017	0.562	0.991	0.395	0.777	0.579	1.008
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77	Front side	0.251	0.191	0.096	0.292	0.147	0.071	0.442	0.543	0.322	0.494	0.513	0.614
	Back side	0.560	0.407	0.204	0.382	0.192	0.214	0.967	0.942	0.774	0.956	1.181	1.156
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.095	0.595	0.298	0.312	0.156	0.222	0.690	0.407	0.317	0.549	0.912	0.629
	Top side	0.394	0.184	0.092	0.613	0.307	0.017	0.578	1.007	0.411	0.793	0.595	1.024
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant7	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G MIMO Non-DBS	WiFi 5G MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Front side	0.273	0.191	0.096	0.292	0.147	0.071	0.464	0.565	0.344	0.516	0.535	0.636
	Back side	0.441	0.407	0.204	0.382	0.192	0.214	0.848	0.823	0.655	0.837	1.062	1.037
	Left side	0.577	0.000	0.000	0.000	0.000	0.000	0.577	0.577	0.577	0.577	0.577	0.577
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.085	0.184	0.092	0.613	0.307	0.017	0.269	0.698	0.102	0.484	0.286	0.715
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77	Front side	0.195	0.191	0.096	0.292	0.147	0.071	0.386	0.487	0.266	0.438	0.457	0.558
	Back side	0.328	0.407	0.204	0.382	0.192	0.214	0.735	0.710	0.542	0.724	0.949	0.924
	Left side	0.495	0.000	0.000	0.000	0.000	0.000	0.495	0.495	0.495	0.495	0.495	0.495
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.055	0.184	0.092	0.613	0.307	0.017	0.239	0.668	0.072	0.454	0.256	0.685
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Test position		SARmax (W/kg)						Summed SAR						
		Main Ant8	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G MIMO Non-DBS	WiFi 5G MIMO DBS	BT							
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6	Case No.
LTE B42	Front side	0.254	0.191	0.096	0.292	0.147	0.071	0.445	0.546	0.325	0.497	0.516	0.617	/
	Back side	0.459	0.407	0.204	0.382	0.192	0.214	0.866	0.841	0.673	0.855	1.080	1.055	/
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	/
	Right side	0.861	0.595	0.298	0.312	0.156	0.222	1.456	1.173	1.083	1.315	1.678	1.395	35#
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.143	0.000	0.000	0.000	0.000	0.000	0.143	0.143	0.143	0.143	0.143	0.143	/
N77	Front side	0.255	0.191	0.096	0.292	0.147	0.071	0.446	0.547	0.326	0.498	0.517	0.618	/
	Back side	0.288	0.407	0.204	0.382	0.192	0.214	0.695	0.670	0.502	0.684	0.909	0.884	/
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	/
	Right side	0.962	0.595	0.298	0.312	0.156	0.222	1.557	1.274	1.184	1.416	1.779	1.496	36#
	Top side	0.000	0.184	0.092	0.613	0.307	0.017	0.184	0.613	0.017	0.399	0.201	0.630	/
	Bottom side	0.073	0.000	0.000	0.000	0.000	0.000	0.073	0.073	0.073	0.073	0.073	0.073	/

Test position		SARmax (W/kg)						Summed SAR						
		Main Ant9	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G MIMO Non-DBS	WiFi 5G MIMO DBS	BT							
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6	
GSM1900	Front side	0.150	0.191	0.096	0.292	0.147	0.071	0.341	0.442	0.221	0.393	0.412	0.513	
	Back side	0.238	0.407	0.204	0.382	0.192	0.214	0.645	0.620	0.452	0.634	0.859	0.834	
	Left side	0.557	0.000	0.000	0.000	0.000	0.000	0.557	0.557	0.557	0.557	0.557	0.557	
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	
	Top side	0.013	0.184	0.092	0.613	0.307	0.017	0.197	0.626	0.030	0.412	0.214	0.643	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
WCDMA B2	Front side	0.151	0.191	0.096	0.292	0.147	0.071	0.342	0.443	0.222	0.394	0.413	0.514	
	Back side	0.195	0.407	0.204	0.382	0.192	0.214	0.602	0.577	0.409	0.591	0.816	0.791	
	Left side	0.493	0.000	0.000	0.000	0.000	0.000	0.493	0.493	0.493	0.493	0.493	0.493	
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	
	Top side	0.011	0.184	0.092	0.613	0.307	0.017	0.195	0.624	0.028	0.410	0.212	0.641	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
WCDMA B4	Front side	0.199	0.191	0.096	0.292	0.147	0.071	0.390	0.491	0.270	0.442	0.461	0.562	
	Back side	0.244	0.407	0.204	0.382	0.192	0.214	0.651	0.626	0.458	0.640	0.865	0.840	
	Left side	0.582	0.000	0.000	0.000	0.000	0.000	0.582	0.582	0.582	0.582	0.582	0.582	
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	
	Top side	0.098	0.184	0.092	0.613	0.307	0.017	0.282	0.711	0.115	0.497	0.299	0.728	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
LTE B2	Front side	0.198	0.191	0.096	0.292	0.147	0.071	0.389	0.490	0.269	0.441	0.460	0.561	
	Back side	0.283	0.407	0.204	0.382	0.192	0.214	0.690	0.665	0.497	0.679	0.904	0.879	
	Left side	0.517	0.000	0.000	0.000	0.000	0.000	0.517	0.517	0.517	0.517	0.517	0.517	
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534	
	Top side	0.012	0.184	0.092	0.613	0.307	0.017	0.196	0.625	0.029	0.411	0.213	0.642	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	



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LTE B7	Front side	0.165	0.191	0.096	0.292	0.147	0.071	0.356	0.457	0.236	0.408	0.427	0.528
	Back side	0.236	0.407	0.204	0.382	0.192	0.214	0.643	0.618	0.450	0.632	0.857	0.832
	Left side	0.551	0.000	0.000	0.000	0.000	0.000	0.551	0.551	0.551	0.551	0.551	0.551
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.006	0.184	0.092	0.613	0.307	0.017	0.190	0.619	0.023	0.405	0.207	0.636
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Front side	0.157	0.191	0.096	0.292	0.147	0.071	0.348	0.449	0.228	0.400	0.419	0.520
	Back side	0.170	0.407	0.204	0.382	0.192	0.214	0.577	0.552	0.384	0.566	0.791	0.766
	Left side	0.593	0.000	0.000	0.000	0.000	0.000	0.593	0.593	0.593	0.593	0.593	0.593
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.016	0.184	0.092	0.613	0.307	0.017	0.200	0.629	0.033	0.415	0.217	0.646
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	0.197	0.191	0.096	0.292	0.147	0.071	0.388	0.489	0.268	0.440	0.459	0.560
	Back side	0.302	0.407	0.204	0.382	0.192	0.214	0.709	0.684	0.516	0.698	0.923	0.898
	Left side	0.511	0.000	0.000	0.000	0.000	0.000	0.511	0.511	0.511	0.511	0.511	0.511
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.020	0.184	0.092	0.613	0.307	0.017	0.204	0.633	0.037	0.419	0.221	0.650
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N41	Front side	0.125	0.191	0.096	0.292	0.147	0.071	0.316	0.417	0.196	0.368	0.387	0.488
	Back side	0.190	0.407	0.204	0.382	0.192	0.214	0.597	0.572	0.404	0.586	0.811	0.786
	Left side	0.497	0.000	0.000	0.000	0.000	0.000	0.497	0.497	0.497	0.497	0.497	0.497
	Right side	0.000	0.595	0.298	0.312	0.156	0.222	0.595	0.312	0.222	0.454	0.817	0.534
	Top side	0.007	0.184	0.092	0.613	0.307	0.017	0.191	0.620	0.024	0.406	0.208	0.637
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant10	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G MIMO Non-DBS	WiFi 5G MIMO DBS	BT						
		1	2	3	4	5	6	1+2	1+4	1+6	1+3+5	1+2+6	1+4+6
LTE B42	Front side	0.013	0.191	0.096	0.292	0.147	0.071	0.204	0.305	0.084	0.256	0.275	0.376
	Back side	0.446	0.407	0.204	0.382	0.192	0.214	0.853	0.828	0.660	0.842	1.067	1.042
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.070	0.595	0.298	0.312	0.156	0.222	0.665	0.382	0.292	0.524	0.887	0.604
	Top side	0.064	0.184	0.092	0.613	0.307	0.017	0.248	0.677	0.081	0.463	0.265	0.694
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77	Front side	0.057	0.191	0.096	0.292	0.147	0.071	0.248	0.349	0.128	0.300	0.319	0.420
	Back side	0.538	0.407	0.204	0.382	0.192	0.214	0.945	0.920	0.752	0.934	1.159	1.134
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.062	0.595	0.298	0.312	0.156	0.222	0.657	0.374	0.284	0.516	0.879	0.596
	Top side	0.067	0.184	0.092	0.613	0.307	0.017	0.251	0.680	0.084	0.466	0.268	0.697
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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0mm

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant0	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	NFC						
		1	2	3	4	5	6	1+2	1+4	1+6	1+2+6	1+4+6	1+3+5+6
GSM1900	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	1.978	0.000	0.000	0.307	0.244	0.071	1.978	2.285	2.049	2.049	2.356	2.293
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Front side	2.772	0.000	0.000	0.659	0.524	0.036	2.772	3.431	2.808	2.808	3.467	3.332
	Back side	2.983	0.000	0.000	0.307	0.244	0.071	2.983	3.290	3.054	3.054	3.361	3.298
	Left side	1.593	0.000	0.000	0.000	0.000	0.047	1.593	1.593	1.640	1.640	1.640	1.640
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	1.866	0.000	0.000	0.000	0.000	0.000	1.866	1.866	1.866	1.866	1.866	1.866
WCDMA B4	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	2.944	0.000	0.000	0.307	0.244	0.071	2.944	3.251	3.015	3.015	3.322	3.259
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B5	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	1.994	0.000	0.000	0.307	0.244	0.071	1.994	2.301	2.065	2.065	2.372	2.309
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B2	Front side	2.588	0.000	0.000	0.659	0.524	0.036	2.588	3.247	2.624	2.624	3.283	3.148
	Back side	2.790	0.000	0.000	0.307	0.244	0.071	2.790	3.097	2.861	2.861	3.168	3.105
	Left side	1.801	0.000	0.000	0.000	0.000	0.047	1.801	1.801	1.848	1.848	1.848	1.848
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	1.438	0.000	0.000	0.000	0.000	0.000	1.438	1.438	1.438	1.438	1.438	1.438
LTE B7	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	3.018	0.000	0.000	0.307	0.244	0.071	3.018	3.325	3.089	3.089	3.396	3.333
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	1.973	0.000	0.000	0.000	0.000	0.000	1.973	1.973	1.973	1.973	1.973	1.973
LTE B26	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	2.416	0.000	0.000	0.307	0.244	0.071	2.416	2.723	2.487	2.487	2.794	2.731
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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	Back side	1.490	0.000	0.000	0.307	0.244	0.071	1.490	1.797	1.561	1.561	1.868	1.805
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	2.170	0.000	0.000	0.659	0.524	0.036	2.170	2.829	2.206	2.206	2.865	2.730
	Back side	2.910	0.000	0.000	0.307	0.244	0.071	2.910	3.217	2.981	2.981	3.288	3.225
	Left side	1.582	0.000	0.000	0.000	0.000	0.047	1.582	1.582	1.629	1.629	1.629	1.629
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	2.225	0.000	0.000	0.000	0.000	0.000	2.225	2.225	2.225	2.225	2.225	2.225
N41	Front side	1.619	0.000	0.000	0.659	0.524	0.036	1.619	2.278	1.655	1.655	2.314	2.179
	Back side	2.662	0.000	0.000	0.307	0.244	0.071	2.662	2.969	2.733	2.733	3.040	2.977
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	1.307	0.000	0.000	0.000	0.000	0.000	1.307	1.307	1.307	1.307	1.307	1.307

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant1	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	NFC						
		1	2	3	4	5	6	1+2	1+4	1+6	1+2+6	1+4+6	1+3+5+6
GSM1900	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	0.981	0.000	0.000	0.307	0.244	0.071	0.981	1.288	1.052	1.052	1.359	1.296
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	1.635	0.000	0.000	0.962	0.764	0.000	1.635	2.597	1.635	1.635	2.597	2.399
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Front side	1.589	0.000	0.000	0.659	0.524	0.036	1.589	2.248	1.625	1.625	2.284	2.149
	Back side	1.417	0.000	0.000	0.307	0.244	0.071	1.417	1.724	1.488	1.488	1.795	1.732
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	1.989	0.000	0.000	0.962	0.764	0.000	1.989	2.951	1.989	1.989	2.951	2.753
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Front side	0.887	0.000	0.000	0.659	0.524	0.036	0.887	1.546	0.923	0.923	1.582	1.447
	Back side	0.900	0.000	0.000	0.307	0.244	0.071	0.900	1.207	0.971	0.971	1.278	1.215
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	1.909	0.000	0.000	0.962	0.764	0.000	1.909	2.871	1.909	1.909	2.871	2.673
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B2	Front side	1.490	0.000	0.000	0.659	0.524	0.036	1.490	2.149	1.526	1.526	2.185	2.050
	Back side	1.378	0.000	0.000	0.307	0.244	0.071	1.378	1.685	1.449	1.449	1.756	1.693
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	1.876	0.000	0.000	0.962	0.764	0.000	1.876	2.838	1.876	1.876	2.838	2.640
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Front side	1.732	0.000	0.000	0.659	0.524	0.036	1.732	2.391	1.768	1.768	2.427	2.292
	Back side	1.989	0.000	0.000	0.307	0.244	0.071	1.989	2.296	2.060	2.060	2.367	2.304



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	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	1.946	0.000	0.000	0.962	0.764	0.000	1.946	2.908	1.946	1.946	2.908	2.710
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	0.000	0.000	0.000	0.307	0.244	0.071	0.000	0.307	0.071	0.071	0.378	0.315
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	1.820	0.000	0.000	0.962	0.764	0.000	1.820	2.782	1.820	1.820	2.782	2.584
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	0.970	0.000	0.000	0.659	0.524	0.036	0.970	1.629	1.006	1.006	1.665	1.530
	Back side	0.693	0.000	0.000	0.307	0.244	0.071	0.693	1.000	0.764	0.764	1.071	1.008
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	1.971	0.000	0.000	0.962	0.764	0.000	1.971	2.933	1.971	1.971	2.933	2.735
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N41	Front side	1.885	0.000	0.000	0.659	0.524	0.036	1.885	2.544	1.921	1.921	2.580	2.445
	Back side	0.827	0.000	0.000	0.307	0.244	0.071	0.827	1.134	0.898	0.898	1.205	1.142
	Left side	2.146	0.000	0.000	0.000	0.000	0.047	2.146	2.146	2.193	2.193	2.193	2.193
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	1.628	0.000	0.000	0.962	0.764	0.000	1.628	2.590	1.628	1.628	2.590	2.392
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N66	Front side	1.120	0.000	0.000	0.659	0.524	0.036	1.120	1.779	1.156	1.156	1.815	1.680
	Back side	0.775	0.000	0.000	0.307	0.244	0.071	0.775	1.082	0.846	0.846	1.153	1.090
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	2.104	0.000	0.000	0.962	0.764	0.000	2.104	3.066	2.104	2.104	3.066	2.868
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant2	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	NFC						
		1	2	3	4	5	6	1+2	1+4	1+6	1+2+6	1+4+6	1+3+5+6
WCDMA B2	Front side	2.153	0.000	0.000	0.659	0.524	0.036	2.153	2.812	2.189	2.189	2.848	2.713
	Back side	2.534	0.000	0.000	0.307	0.244	0.071	2.534	2.841	2.605	2.605	2.912	2.849
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	2.850	0.000	0.000	0.000	0.000	0.000	2.850	2.850	2.850	2.850	2.850	2.850
WCDMA B4	Front side	1.700	0.000	0.000	0.659	0.524	0.036	1.700	2.359	1.736	1.736	2.395	2.260
	Back side	2.216	0.000	0.000	0.307	0.244	0.071	2.216	2.523	2.287	2.287	2.594	2.531
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	2.392	0.000	0.000	0.000	0.000	0.000	2.392	2.392	2.392	2.392	2.392	2.392
LTE B2	Front side	2.093	0.000	0.000	0.659	0.524	0.036	2.093	2.752	2.129	2.129	2.788	2.653
	Back side	2.651	0.000	0.000	0.307	0.244	0.071	2.651	2.958	2.722	2.722	3.029	2.966
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047



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	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	2.633	0.000	0.000	0.000	0.000	0.000	2.633	2.633	2.633	2.633	2.633	2.633
LTE B7	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	1.358	0.000	0.000	0.307	0.244	0.071	1.358	1.665	1.429	1.429	1.736	1.673
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	2.947	0.000	0.000	0.000	0.000	0.000	2.947	2.947	2.947	2.947	2.947	2.947
LTE B41	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	0.000	0.000	0.000	0.307	0.244	0.071	0.000	0.307	0.071	0.071	0.378	0.315
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	2.978	0.000	0.000	0.000	0.000	0.000	2.978	2.978	2.978	2.978	2.978	2.978
LTE B66	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	1.967	0.000	0.000	0.307	0.244	0.071	1.967	2.274	2.038	2.038	2.345	2.282
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	2.771	0.000	0.000	0.000	0.000	0.000	2.771	2.771	2.771	2.771	2.771	2.771
N41	Front side	1.028	0.000	0.000	0.659	0.524	0.036	1.028	1.687	1.064	1.064	1.723	1.588
	Back side	0.000	0.000	0.000	0.307	0.244	0.071	0.000	0.307	0.071	0.071	0.378	0.315
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	2.798	0.000	0.000	0.000	0.000	0.000	2.798	2.798	2.798	2.798	2.798	2.798
N66	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	1.906	0.000	0.000	0.307	0.244	0.071	1.906	2.213	1.977	1.977	2.284	2.221
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	1.692	0.000	0.000	0.000	0.000	0.000	1.692	1.692	1.692	1.692	1.692	1.692

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant4	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	NFC						
		1	2	3	4	5	6	1+2	1+4	1+6	1+2+6	1+4+6	1+3+5+6
LTE B42	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	0.801	0.000	0.000	0.307	0.244	0.071	0.801	1.108	0.872	0.872	1.179	1.116
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77	Front side	1.374	0.000	0.000	0.659	0.524	0.036	1.374	2.033	1.410	1.410	2.069	1.934
	Back side	0.900	0.000	0.000	0.307	0.244	0.071	0.900	1.207	0.971	0.971	1.278	1.215
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951



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Top side	2.148	0.000	0.000	0.962	0.764	0.000	2.148	3.110	2.148	2.148	3.110	2.912
Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant7	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	NFC						
		1	2	3	4	5	6	1+2	1+4	1+6	1+2+6	1+4+6	1+3+5+6
LTE B42	Front side	1.194	0.000	0.000	0.659	0.524	0.036	1.194	1.853	1.230	1.230	1.889	1.754
	Back side	0.916	0.000	0.000	0.307	0.244	0.071	0.916	1.223	0.987	0.987	1.294	1.231
	Left side	2.346	0.000	0.000	0.000	0.000	0.047	2.346	2.346	2.393	2.393	2.393	2.393
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77	Front side	0.751	0.000	0.000	0.659	0.524	0.036	0.751	1.410	0.787	0.787	1.446	1.311
	Back side	1.689	0.000	0.000	0.307	0.244	0.071	1.689	1.996	1.760	1.760	2.067	2.004
	Left side	2.223	0.000	0.000	0.000	0.000	0.047	2.223	2.223	2.270	2.270	2.270	2.270
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)						Summed SAR					
		Main Ant8	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	NFC						
		1	2	3	4	5	6	1+2	1+4	1+6	1+2+6	1+4+6	1+3+5+6
LTE B42	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	0.000	0.000	0.000	0.307	0.244	0.071	0.000	0.307	0.071	0.071	0.378	0.315
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	3.003	0.982	0.439	0.645	0.512	0.000	3.985	3.648	3.003	3.985	3.648	3.954
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	0.000	0.000	0.000	0.307	0.244	0.071	0.000	0.307	0.071	0.071	0.378	0.315
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	2.458	0.982	0.439	0.645	0.512	0.000	3.440	3.103	2.458	3.440	3.103	3.409
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Test position		SARmax (W/kg)						Summed SAR					
		Main Ant9	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	NFC						
		1	2	3	4	5	6	1+2	1+4	1+6	1+2+6	1+4+6	1+3+5+6
GSM1900	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	0.000	0.000	0.000	0.307	0.244	0.071	0.000	0.307	0.071	0.071	0.378	0.315
	Left side	2.418	0.000	0.000	0.000	0.000	0.047	2.418	2.418	2.465	2.465	2.465	2.465
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	0.000	0.000	0.000	0.307	0.244	0.071	0.000	0.307	0.071	0.071	0.378	0.315
	Left side	2.284	0.000	0.000	0.000	0.000	0.047	2.284	2.284	2.331	2.331	2.331	2.331
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B2	Front side	0.855	0.000	0.000	0.659	0.524	0.036	0.855	1.514	0.891	0.891	1.550	1.415
	Back side	1.046	0.000	0.000	0.307	0.244	0.071	1.046	1.353	1.117	1.117	1.424	1.361
	Left side	1.924	0.000	0.000	0.000	0.000	0.047	1.924	1.924	1.971	1.971	1.971	1.971
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Front side	0.719	0.000	0.000	0.659	0.524	0.036	0.719	1.378	0.755	0.755	1.414	1.279
	Back side	0.976	0.000	0.000	0.307	0.244	0.071	0.976	1.283	1.047	1.047	1.354	1.291
	Left side	2.221	0.000	0.000	0.000	0.000	0.047	2.221	2.221	2.268	2.268	2.268	2.268
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Front side	0.795	0.000	0.000	0.659	0.524	0.036	0.795	1.454	0.831	0.831	1.490	1.355
	Back side	0.442	0.000	0.000	0.307	0.244	0.071	0.442	0.749	0.513	0.513	0.820	0.757
	Left side	2.403	0.000	0.000	0.000	0.000	0.047	2.403	2.403	2.450	2.450	2.450	2.450
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	0.536	0.000	0.000	0.307	0.244	0.071	0.536	0.843	0.607	0.607	0.914	0.851
	Left side	1.987	0.000	0.000	0.000	0.000	0.047	1.987	1.987	2.034	2.034	2.034	2.034
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N41	Front side	0.612	0.000	0.000	0.659	0.524	0.036	0.612	1.271	0.648	0.648	1.307	1.172
	Back side	1.052	0.000	0.000	0.307	0.244	0.071	1.052	1.359	1.123	1.123	1.430	1.367
	Left side	1.974	0.000	0.000	0.000	0.000	0.047	1.974	1.974	2.021	2.021	2.021	2.021
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Test position		SARmax (W/kg)						Summed SAR					
		Main Ant10	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	NFC						
		1	2	3	4	5	6	1+2	1+4	1+6	1+2+6	1+4+6	1+3+5+6
LTE B42	Front side	0.000	0.000	0.000	0.659	0.524	0.036	0.000	0.659	0.036	0.036	0.695	0.560
	Back side	2.473	0.000	0.000	0.307	0.244	0.071	2.473	2.780	2.544	2.544	2.851	2.788
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.000	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.000	0.982	0.645	0.951
	Top side	0.000	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.000	0.000	0.962	0.764
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77	Front side	0.122	0.000	0.000	0.659	0.524	0.036	0.122	0.781	0.158	0.158	0.817	0.682
	Back side	2.104	0.000	0.000	0.307	0.244	0.071	2.104	2.411	2.175	2.175	2.482	2.419
	Left side	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.047	0.047	0.047
	Right side	0.287	0.982	0.439	0.645	0.512	0.000	1.269	0.932	0.287	1.269	0.932	1.238
	Top side	0.333	0.000	0.000	0.962	0.764	0.000	0.333	1.295	0.333	0.333	1.295	1.097
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Antenna grouping Head

AG0 Head Highest Reported SAR				
Test Position	Ant0	Ant2	Ant8	MAX
Left cheek	0.232	0.157	0.385	0.385
Left tilted	0.135	0.117	0.372	0.372
Right cheek	0.202	0.239	1.049	1.049
Right tilted	0.110	0.110	0.264	0.264

AG1 Head Highest Reported SAR						
Test Position	Ant1	Ant4	Ant7	Ant9	Ant10	MAX
Left cheek	0.544	0.709	0.279	0.650	0.330	0.709
Left tilted	0.548	0.784	0.125	0.123	0.765	0.784
Right cheek	0.852	0.390	0.748	0.799	0.183	0.852
Right tilted	0.883	0.469	0.268	0.121	0.296	0.883

Wlan&BT Head Highest Reported SAR									
Test Position	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G MIMO Non-DBS	WiFi 5G MIMO DBS	BT	Summed SAR			
	1	2	3	4	5	1+5	2+4	3+5	MAX
Front side	0.375	0.188	0.373	0.187	0.123	0.498	0.375	0.496	0.498
Back side	0.302	0.152	0.391	0.196	0.032	0.334	0.348	0.423	0.423
Left side	0.227	0.114	0.260	0.131	0.031	0.258	0.245	0.291	0.291
Right side	0.272	0.136	0.267	0.134	0.014	0.286	0.270	0.281	0.286

AG0+AG1+Wlan&BT MAX Head Highest Reported SAR				
Test Position	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed
Left cheek	0.385	0.709	0.498	1.592
Left tilted	0.372	0.784	0.423	1.579
Right cheek	1.049	0.852	0.291	2.192
Right tilted	0.264	0.883	0.286	1.433

AG0+AG1+Wlan&BT MAX Right cheek Summed Reported SAR					
Ant combination	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed	Case No.
Ant0+Ant1	0.202	0.852	0.291	1.345	/
Ant0+Ant4	0.202	0.390	0.291	0.883	/
Ant0+Ant7	0.202	0.748	0.291	1.241	/



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Ant0+Ant9	0.202	0.799	0.291	1.292	/
Ant0+Ant10	0.202	0.183	0.291	0.676	/
Ant2+Ant1	0.239	0.852	0.291	1.382	/
Ant2+Ant4	0.239	0.390	0.291	0.920	/
Ant2+Ant7	0.239	0.748	0.291	1.278	/
Ant2+Ant9	0.239	0.799	0.291	1.329	/
Ant2+Ant10	0.239	0.183	0.291	0.713	/
Ant8+Ant1	1.049	0.852	0.291	2.192	37#
Ant8+Ant4	1.049	0.390	0.291	1.730	38#
Ant8+Ant7	1.049	0.748	0.291	2.088	39#
Ant8+Ant9	1.049	0.799	0.291	2.139	40#
Ant8+Ant10	1.049	0.183	0.291	1.523	/



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Body worn

AG0 Body worn Highest Reported SAR				
Test Position	Ant0	Ant2	Ant8	MAX
Front side	0.815	1.101	0.534	1.101
Back side	1.174	1.218	0.842	1.218

AG1 Body worn Highest Reported SAR						
Test Position	Ant1	Ant4	Ant7	Ant9	Ant10	MAX
Front side	0.714	0.370	0.608	0.558	0.127	0.714
Back side	0.836	0.862	0.854	0.766	0.843	0.862

Wlan&BT Body worn Highest Reported SAR									
Test Position	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	BT	Summed SAR			
	1	2	3	4	5	1+5	2+4	3+5	MAX
Front side	0.250	0.125	0.354	0.199	0.071	0.321	0.324	0.425	0.425
Back side	0.333	0.187	0.334	0.188	0.214	0.547	0.375	0.548	0.548

AG0+AG1+Wlan&BT MAX Body worn Highest Reported SAR				
Test Position	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed
Front side	1.101	0.714	0.425	2.240
Back side	1.218	0.862	0.548	2.628

AG0+AG1+Wlan&BT MAX Front side Summed Reported SAR					
Ant combination	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed	Case No.
Ant0+Ant1	0.815	0.714	0.425	1.954	41#
Ant0+Ant4	0.815	0.370	0.425	1.610	42#
Ant0+Ant7	0.815	0.608	0.425	1.848	43#
Ant0+Ant9	0.815	0.558	0.425	1.798	44#
Ant0+Ant10	0.815	0.127	0.425	1.367	/
Ant2+Ant1	1.101	0.714	0.425	2.240	45#
Ant2+Ant4	1.101	0.370	0.425	1.896	46#
Ant2+Ant7	1.101	0.608	0.425	2.134	47#
Ant2+Ant9	1.101	0.558	0.425	2.084	48#
Ant2+Ant10	1.101	0.127	0.425	1.653	49#
Ant8+Ant1	0.534	0.714	0.425	1.673	50#
Ant8+Ant4	0.534	0.370	0.425	1.329	/
Ant8+Ant7	0.534	0.608	0.425	1.567	/



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Ant8+Ant9	0.534	0.558	0.425	1.517	/
Ant8+Ant10	0.534	0.127	0.425	1.086	/

AG0+AG1+Wlan&BT MAX Back side Summed Reported SAR					
Ant combination	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed	Case No.
Ant0+Ant1	1.174	0.836	0.548	2.558	51#
Ant0+Ant4	1.174	0.862	0.548	2.584	52#
Ant0+Ant7	1.174	0.854	0.548	2.576	53#
Ant0+Ant9	1.174	0.766	0.548	2.488	54#
Ant0+Ant10	1.174	0.843	0.548	2.565	55#
Ant2+Ant1	1.218	0.836	0.548	2.602	56#
Ant2+Ant4	1.218	0.862	0.548	2.628	57#
Ant2+Ant7	1.218	0.854	0.548	2.620	58#
Ant2+Ant9	1.218	0.766	0.548	2.532	59#
Ant2+Ant10	1.218	0.843	0.548	2.609	60#
Ant8+Ant1	0.842	0.836	0.548	2.226	61#
Ant8+Ant4	0.842	0.862	0.548	2.252	62#
Ant8+Ant7	0.842	0.854	0.548	2.244	63#
Ant8+Ant9	0.842	0.766	0.548	2.156	64#
Ant8+Ant10	0.842	0.843	0.548	2.233	65#



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Hotspot

AG0 Hotspot Highest Reported SAR				
Test Position	Ant0	Ant2	Ant8	MAX
Front side	0.688	0.847	0.255	0.847
Back side	1.174	0.924	0.459	1.174
Left side	0.597	0.000	0.000	0.597
Right side	0.000	0.560	0.962	0.962
Top side	0.000	0.000	0.000	0.000
Bottom side	0.711	1.179	0.143	1.179

AG1 Hotspot Highest Reported SAR						
Test Position	Ant1	Ant4	Ant7	Ant9	Ant10	MAX
Front side	0.379	0.266	0.273	0.198	0.057	0.379
Back side	0.494	0.560	0.441	0.302	0.538	0.560
Left side	0.214	0.000	0.577	0.593	0.000	0.593
Right side	0.000	0.142	0.000	0.000	0.070	0.142
Top side	0.523	0.394	0.085	0.020	0.067	0.523
Bottom side	0.000	0.000	0.000	0.000	0.000	0.000

Wlan&BT Hotspot Highest Reported SAR									
Test Position	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G MIMO Non-DBS	WiFi 5G MIMO DBS	BT	Summed SAR			
	1	2	3	4	5	1+5	2+4	3+5	MAX
Front side	0.191	0.096	0.292	0.147	0.071	0.262	0.243	0.363	0.363
Back side	0.407	0.204	0.382	0.192	0.214	0.621	0.396	0.596	0.621
Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Right side	0.595	0.298	0.312	0.156	0.222	0.817	0.454	0.534	0.817
Top side	0.184	0.092	0.613	0.307	0.017	0.201	0.399	0.630	0.630
Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

AG0+AG1+Wlan&BT MAX Hotspot Highest Reported SAR				
Test Position	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed
Front side	0.847	0.379	0.363	1.589
Back side	1.174	0.560	0.621	2.355
Left side	0.597	0.593	0.000	1.190
Right side	0.962	0.142	0.817	1.921
Top side	0.000	0.523	0.630	1.153
Bottom side	1.179	0.000	0.000	1.179



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AG0+AG1+Wlan&BT MAX Back side Summed Reported SAR					
Ant combination	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed	Case No.
Ant0+Ant1	1.174	0.494	0.621	2.289	66#
Ant0+Ant4	1.174	0.560	0.621	2.355	67#
Ant0+Ant7	1.174	0.441	0.621	2.236	68#
Ant0+Ant9	1.174	0.302	0.621	2.097	69#
Ant0+Ant10	1.174	0.538	0.621	2.333	70#
Ant2+Ant1	0.924	0.494	0.621	2.039	71#
Ant2+Ant4	0.924	0.560	0.621	2.105	72#
Ant2+Ant7	0.924	0.441	0.621	1.986	73#
Ant2+Ant9	0.924	0.302	0.621	1.847	74#
Ant2+Ant10	0.924	0.538	0.621	2.083	75#
Ant8+Ant1	0.459	0.494	0.621	1.574	/
Ant8+Ant4	0.459	0.560	0.621	1.640	76#
Ant8+Ant7	0.459	0.441	0.621	1.521	/
Ant8+Ant9	0.459	0.302	0.621	1.382	/
Ant8+Ant10	0.459	0.538	0.621	1.618	77#

AG0+AG1+Wlan&BT MAX Right side Summed Reported SAR					
Ant combination	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed	Case No.
Ant0+Ant1	0.000	0.000	0.817	0.817	/
Ant0+Ant4	0.000	0.142	0.817	0.959	/
Ant0+Ant7	0.000	0.000	0.817	0.817	/
Ant0+Ant9	0.000	0.000	0.817	0.817	/
Ant0+Ant10	0.000	0.070	0.817	0.887	/
Ant2+Ant1	0.560	0.000	0.817	1.377	/
Ant2+Ant4	0.560	0.142	0.817	1.519	/
Ant2+Ant7	0.560	0.000	0.817	1.377	/
Ant2+Ant9	0.560	0.000	0.817	1.377	/
Ant2+Ant10	0.560	0.070	0.817	1.447	/
Ant8+Ant1	0.962	0.000	0.817	1.779	78#
Ant8+Ant4	0.962	0.142	0.817	1.921	79#
Ant8+Ant7	0.962	0.000	0.817	1.779	80#
Ant8+Ant9	0.962	0.000	0.817	1.779	81#
Ant8+Ant10	0.962	0.070	0.817	1.849	82#



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0mm

AG0 Hotspot Highest Reported SAR				
Test Position	Ant0	Ant2	Ant8	MAX
Front side	2.588	2.093	0.000	2.588
Back side	3.018	2.651	0.000	3.018
Left side	1.801	0.000	0.000	1.801
Right side	0.000	0.000	3.003	3.003
Top side	0.000	0.000	0.000	0.000
Bottom side	2.225	2.978	0.000	2.978

AG1 Hotspot Highest Reported SAR						
Test Position	Ant1	Ant4	Ant7	Ant9	Ant10	MAX
Front side	1.885	1.374	1.194	0.855	0.122	1.885
Back side	1.989	0.900	1.689	1.052	2.473	2.473
Left side	2.146	0.000	2.346	2.403	0.000	2.403
Right side	0.000	0.000	0.000	0.000	0.287	0.287
Top side	2.104	2.148	0.000	0.000	0.333	2.148
Bottom side	0.000	0.000	0.000	0.000	0.000	0.000

Wlan&NFC Hotspot Highest Reported SAR									
Test Position	WiFi 2.4G MIMO Non-DBS	WiFi 2.4G MIMO DBS	WiFi 5G&6E MIMO Non-DBS	WiFi 5G&6E MIMO DBS	NFC	Summed SAR			
	1	2	3	4	5	1+5	3+5	2+4+5	MAX
Front side	0.000	0.000	0.659	0.524	0.036	0.036	0.695	0.560	0.695
Back side	0.000	0.000	0.307	0.244	0.071	0.071	0.378	0.315	0.378
Left side	0.000	0.000	0.000	0.000	0.047	0.047	0.047	0.047	0.047
Right side	0.982	0.439	0.645	0.512	0.000	0.982	0.645	0.951	0.982
Top side	0.000	0.000	0.962	0.764	0.000	0.000	0.962	0.764	0.962
Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

AG0+AG1+Wlan&NFC MAX Hotspot Highest Reported SAR				
Test Position	AG0	AG1	Wlan&NFC MAX	AG0+AG1+Wlan&NFC MAX Summed
Front side	2.588	1.885	0.695	5.168
Back side	3.018	2.473	0.378	5.869
Left side	1.801	2.403	0.047	4.251
Right side	3.003	0.287	0.982	4.272
Top side	0.000	2.148	0.962	3.110
Bottom side	2.978	0.000	0.000	2.978



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AG0+AG1+Wlan&NFC MAX Front side Summed Reported SAR					
Ant combination	AG0	AG1	Wlan&NFC MAX	AG0+AG1+Wlan&NFC MAX Summed	Case No.
Ant0+Ant1	2.588	1.885	0.695	5.168	83#
Ant0+Ant4	2.588	1.374	0.695	4.657	84#
Ant0+Ant7	2.588	1.194	0.695	4.477	85#
Ant0+Ant9	2.588	0.855	0.695	4.138	86#
Ant0+Ant10	2.588	0.122	0.695	3.405	/
Ant2+Ant1	2.093	1.885	0.695	4.673	87#
Ant2+Ant4	2.093	1.374	0.695	4.162	88#
Ant2+Ant7	2.093	1.194	0.695	3.982	/
Ant2+Ant9	2.093	0.855	0.695	3.643	/
Ant2+Ant10	2.093	0.122	0.695	2.910	/
Ant8+Ant1	0.000	1.885	0.695	2.580	/
Ant8+Ant4	0.000	1.374	0.695	2.069	/
Ant8+Ant7	0.000	1.194	0.695	1.889	/
Ant8+Ant9	0.000	0.855	0.695	1.550	/
Ant8+Ant10	0.000	0.122	0.695	0.817	/

AG0+AG1+Wlan&NFC MAX Back side Summed Reported SAR					
Ant combination	AG0	AG1	Wlan&NFC MAX	AG0+AG1+Wlan&NFC MAX Summed	Case No.
Ant0+Ant1	3.018	1.989	0.378	5.385	89#
Ant0+Ant4	3.018	0.900	0.378	4.296	90#
Ant0+Ant7	3.018	1.689	0.378	5.085	91#
Ant0+Ant9	3.018	1.052	0.378	4.448	92#
Ant0+Ant10	3.018	2.473	0.378	5.869	93#
Ant2+Ant1	2.651	1.989	0.378	5.018	94#
Ant2+Ant4	2.651	0.900	0.378	3.929	/
Ant2+Ant7	2.651	1.689	0.378	4.718	95#
Ant2+Ant9	2.651	1.052	0.378	4.081	96#
Ant2+Ant10	2.651	2.473	0.378	5.502	97#
Ant8+Ant1	0.000	1.989	0.378	2.367	/
Ant8+Ant4	0.000	0.900	0.378	1.278	/
Ant8+Ant7	0.000	1.689	0.378	2.067	/
Ant8+Ant9	0.000	1.052	0.378	1.430	/
Ant8+Ant10	0.000	2.473	0.378	2.851	/



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AG0+AG1+Wlan&NFC MAX Left side Summed Reported SAR					
Ant combination	AG0	AG1	Wlan&NFC MAX	AG0+AG1+Wlan&NFC MAX Summed	Case No.
Ant0+Ant1	1.801	2.146	0.047	3.994	/
Ant0+Ant4	1.801	0.000	0.047	1.848	/
Ant0+Ant7	1.801	2.346	0.047	4.194	98#
Ant0+Ant9	1.801	2.403	0.047	4.251	99#
Ant0+Ant10	1.801	0.000	0.047	1.848	/
Ant2+Ant1	0.000	2.146	0.047	2.193	/
Ant2+Ant4	0.000	0.000	0.047	0.047	/
Ant2+Ant7	0.000	2.346	0.047	2.393	/
Ant2+Ant9	0.000	2.403	0.047	2.450	/
Ant2+Ant10	0.000	0.000	0.047	0.047	/
Ant8+Ant1	0.000	2.146	0.047	2.193	/
Ant8+Ant4	0.000	0.000	0.047	0.047	/
Ant8+Ant7	0.000	2.346	0.047	2.393	/
Ant8+Ant9	0.000	2.403	0.047	2.450	/
Ant8+Ant10	0.000	0.000	0.047	0.047	/

AG0+AG1+Wlan&NFC MAX Right side Summed Reported SAR					
Ant combination	AG0	AG1	Wlan&NFC MAX	AG0+AG1+Wlan&NFC MAX Summed	Case No.
Ant0+Ant1	0.000	0.000	0.982	0.982	/
Ant0+Ant4	0.000	0.000	0.982	0.982	/
Ant0+Ant7	0.000	0.000	0.982	0.982	/
Ant0+Ant9	0.000	0.000	0.982	0.982	/
Ant0+Ant10	0.000	0.287	0.982	1.269	/
Ant2+Ant1	0.000	0.000	0.982	0.982	/
Ant2+Ant4	0.000	0.000	0.982	0.982	/
Ant2+Ant7	0.000	0.000	0.982	0.982	/
Ant2+Ant9	0.000	0.000	0.982	0.982	/
Ant2+Ant10	0.000	0.287	0.982	1.269	/
Ant8+Ant1	3.003	0.000	0.982	3.985	/
Ant8+Ant4	3.003	0.000	0.982	3.985	/
Ant8+Ant7	3.003	0.000	0.982	3.985	/
Ant8+Ant9	3.003	0.000	0.982	3.985	/
Ant8+Ant10	3.003	0.287	0.982	4.272	100#



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SPLSR General Note:

1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2) \cdot 1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR, or $SPLSR \leq 0.10$ for 10g SAR simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, WLAN antenna 3/4/5/6 was summed algebraically with the BT Antenna 6 separately for the purposes of hybrid SPLSR combination and they are located at the top of the device.
4. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.

SPLSR:

Case No.	Position	Band	SAR (W/kg)	SAR peak location (cm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
1#	Back side 5mm	GSM 1900(Ant0)	1.096	25.6	-81.1	-3.79	152.588	1.643	0.01	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.547	-51.8	50.4	-3.66				
	Back side 5mm	GSM 1900(Ant0)	1.096	25.6	-81.1	-3.79	144.759	1.643	0.01	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.547	-33.6	51	-3.64				
2#	Back side 5mm	GSM 1900(Ant0)	1.096	25.6	-81.1	-3.79	165.848	1.644	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.548	-16.8	79.2	-0.38				
	Back side 5mm	GSM 1900(Ant0)	1.096	25.6	-81.1	-3.79	144.759	1.644	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.548	-33.6	51	-3.64				
3#	Back side 5mm	WCDMA B4(Ant0)	1.098	24.8	-82.3	-3.56	153.222	1.645	0.01	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.547	-51.8	50.4	-3.66				
	Back side 5mm	WCDMA B4(Ant0)	1.098	24.8	-82.3	-3.56	145.532	1.645	0.01	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.547	-33.6	51	-3.64				



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4#	Back side 5mm	WCDMA B4(Ant0)	1.098	24.8	-82.3	-3.56	166.802	1.646	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.548	-16.8	79.2	-0.38				
	Back side 5mm	WCDMA B4(Ant0)	1.098	24.8	-82.3	-3.56	166.802	1.646	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.548	-16.8	79.2	-0.38				
5#	Back side 5mm	LTE B26(Ant0)	1.174	23.9	-78.8	-3.62	149.744	1.721	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.547	-51.8	50.4	-3.66				
	Back side 5mm	LTE B26(Ant0)	1.174	23.9	-78.8	-3.62	141.966	1.721	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.547	-33.6	51	-3.64				
6#	Back side 5mm	LTE B26(Ant0)	1.174	23.9	-78.8	-3.62	163.190	1.722	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.548	-16.8	79.2	-0.38				
	Back side 5mm	LTE B26(Ant0)	1.174	23.9	-78.8	-3.62	163.190	1.722	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.548	-16.8	79.2	-0.38				
7#	Back side 5mm	LTE B41(Ant0)	1.160	27.3	-76.1	-3.47	149.195	1.707	0.01	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.547	-51.8	50.4	-3.66				
	Back side 5mm	LTE B41(Ant0)	1.160	27.3	-76.1	-3.47	140.937	1.707	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.547	-33.6	51	-3.64				
8#	Back side 5mm	LTE B41(Ant0)	1.160	27.3	-76.1	-3.47	161.470	1.708	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.548	-16.8	79.2	-0.38				
	Back side 5mm	LTE B41(Ant0)	1.160	27.3	-76.1	-3.47	161.470	1.708	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.548	-16.8	79.2	-0.38				
9#	Back side 5mm	N5(Ant0)	1.149	23.6	-78.4	-3.68	149.247	1.696	0.01	Not Required



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		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.547	-51.8	50.4	-3.66				
	Back side 5mm	N5(Ant0)	1.149	23.6	-78.4	-3.68	141.479	1.696	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.547	-33.6	51	-3.64				
10#	Back side 5mm	N5(Ant0)	1.149	23.6	-78.4	-3.68	162.729	1.697	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.548	-16.8	79.2	-0.38				
	Back side 5mm	N5(Ant0)	1.149	23.6	-78.4	-3.68	162.729	1.697	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.548	-16.8	79.2	-0.38				
11#	Back side 5mm	N41(Ant0)	1.165	27.1	-75.7	-3.53	148.750	1.712	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.547	-51.8	50.4	-3.66				
	Back side 5mm	N41(Ant0)	1.165	27.1	-75.7	-3.53	140.490	1.712	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.547	-33.6	51	-3.64				
12#	Back side 5mm	N41(Ant0)	1.165	27.1	-75.7	-3.53	161.031	1.713	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.548	-16.8	79.2	-0.38				
	Back side 5mm	N41(Ant0)	1.165	27.1	-75.7	-3.53	161.031	1.713	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.548	-16.8	79.2	-0.38				
13#	Back side 5mm	WCDMA B2(Ant2)	1.197	-31.4	-81.9	-3.87	133.864	1.744	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.547	-51.8	50.4	-3.66				
	Back side 5mm	WCDMA B2(Ant2)	1.197	-31.4	-81.9	-3.87	132.918	1.744	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.547	-33.6	51	-3.64				
14#	Back side 5mm	WCDMA B2(Ant2)	1.197	-31.4	-81.9	-3.87	161.798	1.745	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.548	-16.8	79.2	-0.38				



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	Back side 5mm	WCDMA B2(Ant2)	1.197	-31.4	-81.9	-3.87	161.798	1.745	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.548	-16.8	79.2	-0.38				
15#	Back side 5mm	LTE B66(Ant2)	1.139	-30.8	-81.4	-3.81	133.463	1.686	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.547	-51.8	50.4	-3.66				
	Back side 5mm	LTE B66(Ant2)	1.139	-30.8	-81.4	-3.81	132.430	1.686	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.547	-33.6	51	-3.64				
16#	Back side 5mm	LTE B66(Ant2)	1.139	-30.8	-81.4	-3.81	161.246	1.687	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.548	-16.8	79.2	-0.38				
	Back side 5mm	LTE B66(Ant2)	1.139	-30.8	-81.4	-3.81	161.246	1.687	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.548	-16.8	79.2	-0.38				
17#	Back side 5mm	N66(Ant2)	1.218	-30.2	-81.6	-3.77	133.756	1.765	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.547	-51.8	50.4	-3.66				
	Back side 5mm	N66(Ant2)	1.218	-30.2	-81.6	-3.77	132.644	1.765	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.547	-33.6	51	-3.64				
18#	Back side 5mm	N66(Ant2)	1.218	-30.2	-81.6	-3.77	161.393	1.766	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.548	-16.8	79.2	-0.38				
	Back side 5mm	N66(Ant2)	1.218	-30.2	-81.6	-3.77	161.393	1.766	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.548	-16.8	79.2	-0.38				
19#	Back side 5mm	GSM1900(Ant0)	1.096	25.6	-81.1	-3.79	152.588	1.717	0.01	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.621	-51.8	50.4	-3.66				
	Back side 5mm	GSM1900(Ant0)	1.096	25.6	-81.1	-3.79	144.759	1.717	0.02	Not Required



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		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.621	-33.6	51	-3.64				
20#	Back side 5mm	GSM1900(Ant0)	1.096	25.6	-81.1	-3.79	165.848	1.692	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.596	-16.8	79.2	-0.38				
	Back side 5mm	GSM1900(Ant0)	1.096	25.6	-81.1	-3.79	144.759	1.692	0.02	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.596	-33.6	51	-3.64				
21#	Back side 5mm	WCDMA B4(Ant0)	1.098	24.8	-82.3	-3.56	153.222	1.719	0.01	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.621	-51.8	50.4	-3.66				
	Back side 5mm	WCDMA B4(Ant0)	1.098	24.8	-82.3	-3.56	145.532	1.719	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.621	-33.6	51	-3.64				
22#	Back side 5mm	WCDMA B4(Ant0)	1.098	24.8	-82.3	-3.56	166.802	1.694	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.596	-16.8	79.2	-0.38				
	Back side 5mm	WCDMA B4(Ant0)	1.098	24.8	-82.3	-3.56	166.802	1.694	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.596	-16.8	79.2	-0.38				
23#	Back side 5mm	WCDMA B5(Ant0)	1.022	24.2	-78.3	-3.69	149.465	1.643	0.01	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.621	-51.8	50.4	-3.66				
	Back side 5mm	WCDMA B5(Ant0)	1.022	24.2	-78.3	-3.69	141.631	1.643	0.01	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.621	-33.6	51	-3.64				
24#	Back side 5mm	WCDMA B5(Ant0)	1.022	24.2	-78.3	-3.69	162.783	1.618	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.596	-16.8	79.2	-0.38				
	Back side 5mm	WCDMA B5(Ant0)	1.022	24.2	-78.3	-3.69	162.783	1.618	0.01	Not Required



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		WiFi 5G&6E MIMO Non-DBS (BT)	0.596	-16.8	79.2	-0.38				
25#	Back side 5mm	LTE B7(Ant0)	1.045	26.7	-77.5	-3.53	150.069	1.666	0.01	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.621	-51.8	50.4	-3.66				
	Back side 5mm	LTE B7(Ant0)	1.045	26.7	-77.5	-3.53	141.945	1.666	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.621	-33.6	51	-3.64				
26#	Back side 5mm	LTE B7(Ant0)	1.045	26.7	-77.5	-3.53	162.656	1.641	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.596	-16.8	79.2	-0.38				
	Back side 5mm	LTE B7(Ant0)	1.045	26.7	-77.5	-3.53	162.656	1.641	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.596	-16.8	79.2	-0.38				
27#	Back side 5mm	LTE B26(Ant0)	1.174	23.9	-78.8	-3.62	149.744	1.795	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.621	-51.8	50.4	-3.66				
	Back side 5mm	LTE B26(Ant0)	1.174	23.9	-78.8	-3.62	141.966	1.795	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.621	-33.6	51	-3.64				
28#	Back side 5mm	LTE B26(Ant0)	1.174	23.9	-78.8	-3.62	163.190	1.770	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.596	-16.8	79.2	-0.38				
	Back side 5mm	LTE B26(Ant0)	1.174	23.9	-78.8	-3.62	163.190	1.770	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.596	-16.8	79.2	-0.38				
29#	Back side 5mm	LTE B41(Ant0)	1.160	27.3	-76.1	-3.47	149.195	1.781	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.621	-51.8	50.4	-3.66				
	Back side 5mm	LTE B41(Ant0)	1.160	27.3	-76.1	-3.47	140.937	1.781	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.621	-33.6	51	-3.64				



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30#	Back side 5mm	LTE B41(Ant0)	1.160	27.3	-76.1	-3.47	161.470	1.756	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.596	-16.8	79.2	-0.38				
	Back side 5mm	LTE B41(Ant0)	1.160	27.3	-76.1	-3.47	161.470	1.756	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.596	-16.8	79.2	-0.38				
31#	Back side 5mm	N5(Ant0)	1.149	23.6	-78.4	-3.68	149.247	1.770	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.621	-51.8	50.4	-3.66				
	Back side 5mm	N5(Ant0)	1.149	23.6	-78.4	-3.68	141.479	1.770	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.621	-33.6	51	-3.64				
32#	Back side 5mm	N5(Ant0)	1.149	23.6	-78.4	-3.68	162.729	1.745	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.596	-16.8	79.2	-0.38				
	Back side 5mm	N5(Ant0)	1.149	23.6	-78.4	-3.68	162.729	1.745	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.596	-16.8	79.2	-0.38				
33#	Back side 5mm	N41(Ant0)	1.165	27.1	-75.7	-3.53	148.750	1.786	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.621	-51.8	50.4	-3.66				
	Back side 5mm	N41(Ant0)	1.165	27.1	-75.7	-3.53	140.490	1.786	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.621	-33.6	51	-3.64				
34#	Back side 5mm	N41(Ant0)	1.165	27.1	-75.7	-3.53	161.031	1.761	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (WiFi 5G&6E)	0.596	-16.8	79.2	-0.38				
	Back side 5mm	N41(Ant0)	1.165	27.1	-75.7	-3.53	161.031	1.761	0.01	Not Required
		WiFi 5G&6E MIMO Non-DBS (BT)	0.596	-16.8	79.2	-0.38				
35#	Right side 5mm	LTE B42(Ant8)	0.861	-2.8	28	-2.89	73.407	1.678	0.03	Not Required



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		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.817	-2.8	-45.4	-3.89				
	Right side 5mm	LTE B42(Ant8)	0.861	-2.8	28	-2.89	80.705	1.678	0.03	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.817	1.2	-52.6	-3.85				
36#	Right side 5mm	N77(Ant8)	0.962	0	48	-0.66	93.498	1.779	0.03	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (WiFi 2.4G)	0.817	-2.8	-45.4	-3.89				
	Right side 5mm	N77(Ant8)	0.962	0	48	-0.66	100.658	1.779	0.02	Not Required
		WiFi 2.4G MIMO Non-DBS+BT (BT)	0.817	1.2	-52.6	-3.85				
37#	Right cheek	AG0(Ant8)	1.049	45.45	60.72	-2.4	96.553	2.192	0.03	Not Required
		AG1(Ant1)+Wlan&BT	1.143	7.81	-28.18	-3.97				
	Right cheek	AG0(Ant8)	1.049	45.45	60.72	-2.4	81.652	2.192	0.04	Not Required
		Wlan&BT+AG1(Ant1)	1.143	49.1	-20.84	-1.09				
38#	Right cheek	AG0(Ant8)	1.049	45.45	60.72	-2.4	88.776	1.730	0.03	Not Required
		AG1(Ant4)+Wlan&BT	0.681	34.67	-27.38	-4.23				
	Right cheek	AG0(Ant8)	1.049	45.45	60.72	-2.4	81.652	1.730	0.03	Not Required
		Wlan&BT+AG1(Ant4)	0.681	49.1	-20.84	-1.09				
39#	Right cheek	AG0(Ant8)	1.049	45.45	60.72	-2.4	77.614	2.088	0.04	Not Required
		AG1(Ant7)+Wlan&BT	1.039	48.2	-16.84	-1.47				
	Right cheek	AG0(Ant8)	1.049	45.45	60.72	-2.4	81.652	2.088	0.04	Not Required
		Wlan&BT+AG1(Ant7)	1.039	49.1	-20.84	-1.09				
40#	Right cheek	AG0(Ant8)	1.049	45.45	60.72	-2.4	78.297	2.139	0.04	Not Required
		AG1(Ant9)+Wlan&BT	1.090	54.08	-17.09	-3.65				



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	Right cheek	AG0(Ant8)	1.049	45.45	60.72	-2.4	81.652	2.139	0.04	Not Required
		Wlan&BT+AG1(Ant9)	1.090	49.1	-20.84	-1.09				
41#	Front side 5mm	AG0(Ant0)	0.815	-18.6	-72.9	-3.62	149.356	1.954	0.02	Not Required
		AG1(Ant1)+Wlan&BT	1.139	-11.8	76.3	-3.07				
	Front side 5mm	AG0(Ant0)	0.815	-18.6	-72.9	-3.62	134.563	1.954	0.02	Not Required
		Wlan&BT+AG1(Ant1)	1.139	25.3	54.3	-3.31				
42#	Front side 5mm	AG0(Ant0)	0.815	-18.6	-72.9	-3.62	145.670	1.610	0.01	Not Required
		AG1(Ant4)+Wlan&BT	0.795	10.5	69.8	-0.51				
	Front side 5mm	AG0(Ant0)	0.815	-18.6	-72.9	-3.62	134.563	1.610	0.02	Not Required
		Wlan&BT+AG1(Ant4)	0.795	25.3	54.3	-3.31				
43#	Front side 5mm	AG0(Ant0)	0.815	-18.6	-72.9	-3.62	114.118	1.848	0.02	Not Required
		AG1(Ant7)+Wlan&BT	1.033	-20.2	41.2	-2.37				
	Front side 5mm	AG0(Ant0)	0.815	-18.6	-72.9	-3.62	134.563	1.848	0.02	Not Required
		Wlan&BT+AG1(Ant7)	1.033	25.3	54.3	-3.31				
44#	Front side 5mm	AG0(Ant0)	0.815	-18.6	-72.9	-3.62	104.162	1.798	0.02	Not Required
		AG1(Ant9)+Wlan&BT	0.983	-29.4	30.7	-3.19				
	Front side 5mm	AG0(Ant0)	0.815	-18.6	-72.9	-3.62	134.563	1.798	0.02	Not Required
		Wlan&BT+AG1(Ant9)	0.983	25.3	54.3	-3.31				
45#	Front side 5mm	AG0(Ant2)	1.101	17.4	-81.8	-2.95	160.774	2.240	0.02	Not Required
		AG1(Ant1)+Wlan&BT	1.139	-11.8	76.3	-3.07				
	Front side 5mm	AG0(Ant2)	1.101	17.4	-81.8	-2.95	136.330	2.240	0.02	Not Required



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		Wlan&BT+AG1(Ant1)	1.139	25.3	54.3	-3.31				
46#	Front side 5mm	AG0(Ant2)	1.101	17.4	-81.8	-2.95	151.777	1.896	0.02	Not Required
		AG1(Ant4)+Wlan&BT	0.795	10.5	69.8	-0.51				
	Front side 5mm	AG0(Ant2)	1.101	17.4	-81.8	-2.95	136.330	1.896	0.02	Not Required
		Wlan&BT+AG1(Ant4)	0.795	25.3	54.3	-3.31				
47#	Front side 5mm	AG0(Ant2)	1.101	17.4	-81.8	-2.95	128.620	2.134	0.02	Not Required
		AG1(Ant7)+Wlan&BT	1.033	-20.2	41.2	-2.37				
	Front side 5mm	AG0(Ant2)	1.101	17.4	-81.8	-2.95	136.330	2.134	0.02	Not Required
		Wlan&BT+AG1(Ant7)	1.033	25.3	54.3	-3.31				
48#	Front side 5mm	AG0(Ant2)	1.101	17.4	-81.8	-2.95	121.846	2.084	0.02	Not Required
		AG1(Ant9)+Wlan&BT	0.983	-29.4	30.7	-3.19				
	Front side 5mm	AG0(Ant2)	1.101	17.4	-81.8	-2.95	136.330	2.084	0.02	Not Required
		Wlan&BT+AG1(Ant9)	0.983	25.3	54.3	-3.31				
49#	Front side 5mm	AG0(Ant2)	1.101	17.4	-81.8	-2.95	129.613	1.653	0.02	Not Required
		AG1(Ant10)+Wlan&BT	0.552	10.3	47.6	-0.78				
	Front side 5mm	AG0(Ant2)	1.101	17.4	-81.8	-2.95	136.330	1.653	0.02	Not Required
		Wlan&BT+AG1(Ant10)	0.552	25.3	54.3	-3.31				
50#	Front side 5mm	AG0(Ant8)	0.534	38.6	-70.8	-2.34	155.496	1.673	0.01	Not Required
		AG1(Ant1)+Wlan&BT	1.139	-11.8	76.3	-3.07				
	Front side 5mm	AG0(Ant8)	0.534	38.6	-70.8	-2.34	125.809	1.673	0.02	Not Required
		Wlan&BT+AG1(Ant1)	1.139	25.3	54.3	-3.31				



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51#	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	153.263	2.558	0.03	Not Required
		AG1(Ant1)+Wlan&BT	1.384	9.1	78.4	-3.43				
	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	136.771	2.558	0.03	Not Required
		Wlan&BT+AG1(Ant1)	1.384	-33.6	51	-3.64				
52#	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	147.242	2.584	0.03	Not Required
		AG1(Ant4)+Wlan&BT	1.410	-8.6	69.8	-0.51				
	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	136.771	2.584	0.03	Not Required
		Wlan&BT+AG1(Ant4)	1.410	-33.6	51	-3.64				
53#	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	118.034	2.576	0.04	Not Required
		AG1(Ant7)+Wlan&BT	1.402	26.5	43.5	-2.54				
	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	136.771	2.576	0.03	Not Required
		Wlan&BT+AG1(Ant7)	1.402	-33.6	51	-3.64				
54#	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	108.618	2.488	0.04	Not Required
		AG1(Ant9)+Wlan&BT	1.314	34.3	33.4	-3.52				
	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	136.771	2.488	0.03	Not Required
		Wlan&BT+AG1(Ant9)	1.314	-33.6	51	-3.64				
55#	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	124.034	2.565	0.03	Not Required
		AG1(Ant10)+Wlan&BT	1.391	-7	46.4	-0.93				
	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	136.771	2.565	0.03	Not Required
		Wlan&BT+AG1(Ant10)	1.391	-33.6	51	-3.64				
56#	Back side 5mm	AG0(Ant2)	1.218	-31.4	-81.9	-3.87	165.338	2.602	0.03	Not Required



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		AG1(Ant1)+Wlan&BT	1.384	9.1	78.4	-3.43				
	Back side 5mm	AG0(Ant2)	1.218	-31.4	-81.9	-3.87	132.918	2.602	0.03	Not Required
		Wlan&BT+AG1(Ant1)	1.384	-33.6	51	-3.64				
57#	Back side 5mm	AG0(Ant2)	1.218	-31.4	-81.9	-3.87	153.441	2.628	0.03	Not Required
		AG1(Ant4)+Wlan&BT	1.410	-8.6	69.8	-0.51				
	Back side 5mm	AG0(Ant2)	1.218	-31.4	-81.9	-3.87	132.918	2.628	0.03	Not Required
		Wlan&BT+AG1(Ant4)	1.410	-33.6	51	-3.64				
58#	Back side 5mm	AG0(Ant2)	1.218	-31.4	-81.9	-3.87	138.128	2.620	0.03	Not Required
		AG1(Ant7)+Wlan&BT	1.402	26.5	43.5	-2.54				
	Back side 5mm	AG0(Ant2)	1.218	-31.4	-81.9	-3.87	132.918	2.620	0.03	Not Required
		Wlan&BT+AG1(Ant7)	1.402	-33.6	51	-3.64				
59#	Back side 5mm	AG0(Ant2)	1.218	-31.4	-81.9	-3.87	132.705	2.532	0.03	Not Required
		AG1(Ant9)+Wlan&BT	1.314	34.3	33.4	-3.52				
	Back side 5mm	AG0(Ant2)	1.218	-31.4	-81.9	-3.87	132.918	2.532	0.03	Not Required
		Wlan&BT+AG1(Ant9)	1.314	-33.6	51	-3.64				
60#	Back side 5mm	AG0(Ant2)	1.218	-31.4	-81.9	-3.87	130.633	2.609	0.03	Not Required
		AG1(Ant10)+Wlan&BT	1.391	-7	46.4	-0.93				
	Back side 5mm	AG0(Ant2)	1.218	-31.4	-81.9	-3.87	132.918	2.609	0.03	Not Required
		Wlan&BT+AG1(Ant10)	1.391	-33.6	51	-3.64				
61#	Back side 5mm	AG0(Ant8)	0.842	-52.6	-73.8	-2.63	164.233	2.226	0.02	Not Required
		AG1(Ant1)+Wlan&BT	1.384	9.1	78.4	-3.43				



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	Back side 5mm	AG0(Ant8)	0.842	-52.6	-73.8	-2.63	126.242	2.226	0.03	Not Required
		Wlan&BT+AG1(Ant1)	1.384	-33.6	51	-3.64				
62#	Back side 5mm	AG0(Ant8)	0.842	-52.6	-73.8	-2.63	150.205	2.252	0.02	Not Required
		AG1(Ant4)+Wlan&BT	1.410	-8.6	69.8	-0.51				
	Back side 5mm	AG0(Ant8)	0.842	-52.6	-73.8	-2.63	126.242	2.252	0.03	Not Required
		Wlan&BT+AG1(Ant4)	1.410	-33.6	51	-3.64				
63#	Back side 5mm	AG0(Ant8)	0.842	-52.6	-73.8	-2.63	141.478	2.244	0.02	Not Required
		AG1(Ant7)+Wlan&BT	1.402	26.5	43.5	-2.54				
	Back side 5mm	AG0(Ant8)	0.842	-52.6	-73.8	-2.63	126.242	2.244	0.03	Not Required
		Wlan&BT+AG1(Ant7)	1.402	-33.6	51	-3.64				
64#	Back side 5mm	AG0(Ant8)	0.842	-52.6	-73.8	-2.63	138.001	2.156	0.02	Not Required
		AG1(Ant9)+Wlan&BT	1.314	34.3	33.4	-3.52				
	Back side 5mm	AG0(Ant8)	0.842	-52.6	-73.8	-2.63	126.242	2.156	0.03	Not Required
		Wlan&BT+AG1(Ant9)	1.314	-33.6	51	-3.64				
65#	Back side 5mm	AG0(Ant8)	0.842	-52.6	-73.8	-2.63	128.570	2.233	0.03	Not Required
		AG1(Ant10)+Wlan&BT	1.391	-7	46.4	-0.93				
	Back side 5mm	AG0(Ant8)	0.842	-52.6	-73.8	-2.63	126.242	2.233	0.03	Not Required
		Wlan&BT+AG1(Ant10)	1.391	-33.6	51	-3.64				
66#	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	153.263	2.289	0.02	Not Required
		AG1(Ant1)+Wlan&BT	1.115	9.1	78.4	-3.43				
	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	136.771	2.289	0.03	Not Required



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		Wlan&BT+AG1(Ant1)	1.115	-33.6	51	-3.64				
67#	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	145.704	2.355	0.02	Not Required
		AG1(Ant4)+Wlan&BT	1.181	-8.3	68.3	-0.91				
	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	136.771	2.355	0.03	Not Required
		Wlan&BT+AG1(Ant4)	1.181	-33.6	51	-3.64				
68#	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	117.984	2.236	0.03	Not Required
		AG1(Ant7)+Wlan&BT	1.062	25.3	43.5	-2.54				
	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	136.771	2.236	0.02	Not Required
		Wlan&BT+AG1(Ant7)	1.062	-33.6	51	-3.64				
69#	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	108.546	2.097	0.03	Not Required
		AG1(Ant9)+Wlan&BT	0.923	33.7	33.4	-3.52				
	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	136.771	2.097	0.02	Not Required
		Wlan&BT+AG1(Ant9)	0.923	-33.6	51	-3.64				
70#	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	123.023	2.333	0.03	Not Required
		AG1(Ant10)+Wlan&BT	1.159	-7.24	45.3	-0.73				
	Back side 5mm	AG0(Ant0)	1.174	21	-74.4	-3.74	136.771	2.333	0.03	Not Required
		Wlan&BT+AG1(Ant10)	1.159	-33.6	51	-3.64				
71#	Back side 5mm	AG0(Ant2)	0.924	-30.1	-80.3	-3.52	163.470	2.039	0.02	Not Required
		AG1(Ant1)+Wlan&BT	1.115	9.1	78.4	-3.43				
	Back side 5mm	AG0(Ant2)	0.924	-30.1	-80.3	-3.52	131.347	2.039	0.02	Not Required
		Wlan&BT+AG1(Ant1)	1.115	-33.6	51	-3.64				



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72#	Back side 5mm	AG0(Ant2)	0.924	-30.1	-80.3	-3.52	150.213	2.105	0.02	Not Required
		AG1(Ant4)+Wlan&BT	1.181	-8.3	68.3	-0.91				
	Back side 5mm	AG0(Ant2)	0.924	-30.1	-80.3	-3.52	131.347	2.105	0.02	Not Required
		Wlan&BT+AG1(Ant4)	1.181	-33.6	51	-3.64				
73#	Back side 5mm	AG0(Ant2)	0.924	-30.1	-80.3	-3.52	135.634	1.986	0.02	Not Required
		AG1(Ant7)+Wlan&BT	1.062	25.3	43.5	-2.54				
	Back side 5mm	AG0(Ant2)	0.924	-30.1	-80.3	-3.52	131.347	1.986	0.02	Not Required
		Wlan&BT+AG1(Ant7)	1.062	-33.6	51	-3.64				
74#	Back side 5mm	AG0(Ant2)	0.924	-30.1	-80.3	-3.52	130.377	1.847	0.02	Not Required
		AG1(Ant9)+Wlan&BT	0.923	33.7	33.4	-3.52				
	Back side 5mm	AG0(Ant2)	0.924	-30.1	-80.3	-3.52	131.347	1.847	0.02	Not Required
		Wlan&BT+AG1(Ant9)	0.923	-33.6	51	-3.64				
75#	Back side 5mm	AG0(Ant2)	0.924	-30.1	-80.3	-3.52	127.694	2.083	0.02	Not Required
		AG1(Ant10)+Wlan&BT	1.159	-7.24	45.3	-0.73				
	Back side 5mm	AG0(Ant2)	0.924	-30.1	-80.3	-3.52	131.347	2.083	0.02	Not Required
		Wlan&BT+AG1(Ant10)	1.159	-33.6	51	-3.64				
76#	Back side 5mm	AG0(Ant8)	0.459	-50.1	-71.3	-2.26	145.730	1.640	0.01	Not Required
		AG1(Ant4)+Wlan&BT	1.181	-8.3	68.3	-0.91				
	Back side 5mm	AG0(Ant8)	0.459	-50.1	-71.3	-2.26	123.416	1.640	0.02	Not Required
		Wlan&BT+AG1(Ant4)	1.181	-33.6	51	-3.64				
77#	Back side 5mm	AG0(Ant8)	0.459	-50.1	-71.3	-2.26	124.237	1.618	0.02	Not Required



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		AG1(Ant10)+Wlan&BT	1.159	-7.24	45.3	-0.73				
	Back side 5mm	AG0(Ant8)	0.459	-50.1	-71.3	-2.26	123.416	1.618	0.02	Not Required
		Wlan&BT+AG1(Ant10)	1.159	-33.6	51	-3.64				
78#	Right side 5mm	AG0(Ant8)	0.962	0	48	-0.66	100.658	1.779	0.02	Not Required
		AG1(Ant1)+Wlan&BT	0.817	1.2	-52.6	-3.85				
	Right side 5mm	AG0(Ant8)	0.962	0	48	-0.66	93.498	1.779	0.03	Not Required
		Wlan&BT+AG1(Ant1)	0.817	-2.8	-45.4	-3.89				
79#	Right side 5mm	AG0(Ant8)	0.962	0	48	-0.66	90.871	1.921	0.03	Not Required
		AG1(Ant4)+Wlan&BT	0.959	-1.9	-42.8	-3.72				
	Right side 5mm	AG0(Ant8)	0.962	0	48	-0.66	93.498	1.921	0.03	Not Required
		Wlan&BT+AG1(Ant4)	0.959	-2.8	-45.4	-3.89				
80#	Right side 5mm	AG0(Ant8)	0.962	0	48	-0.66	93.498	1.779	0.03	Not Required
		AG1(Ant7)+Wlan&BT	0.817	-2.8	-45.4	-3.89				
	Right side 5mm	AG0(Ant8)	0.962	0	48	-0.66	93.498	1.779	0.03	Not Required
		Wlan&BT+AG1(Ant7)	0.817	-2.8	-45.4	-3.89				
81#	Right side 5mm	AG0(Ant8)	0.962	0	48	-0.66	93.498	1.779	0.03	Not Required
		AG1(Ant9)+Wlan&BT	0.817	-2.8	-45.4	-3.89				
	Right side 5mm	AG0(Ant8)	0.962	0	48	-0.66	93.498	1.779	0.03	Not Required
		Wlan&BT+AG1(Ant9)	0.817	-2.8	-45.4	-3.89				
82#	Right side 5mm	AG0(Ant8)	0.962	0	48	-0.66	86.271	1.849	0.03	Not Required
		AG1(Ant10)+Wlan&BT	0.887	-2.3	-38.2	-3.3				



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	Right side 5mm	AG0(Ant8)	0.962	0	48	-0.66	93.498	1.849	0.03	Not Required
		Wlan&BT+AG1(Ant10)	0.887	-2.8	-45.4	-3.89				
83#	Front side 0mm	AG0(Ant0)	2.588	-17.1	-69.7	-3.73	144.682	5.168	0.08	Not Required
		AG1(Ant1)+Wlan&NFC	2.580	-9.9	74.8	-2.87				
	Front side 0mm	AG0(Ant0)	2.588	-17.1	-69.7	-3.73	129.117	5.168	0.09	Not Required
		Wlan&NFC+AG1(Ant1)	2.580	23.7	52.8	-3.08				
84#	Front side 0mm	AG0(Ant0)	2.588	-17.1	-69.7	-3.73	144.998	4.657	0.07	Not Required
		AG1(Ant4)+Wlan&NFC	2.069	12.1	72.3	-0.92				
	Front side 0mm	AG0(Ant0)	2.588	-17.1	-69.7	-3.73	129.117	4.657	0.08	Not Required
		Wlan&NFC+AG1(Ant4)	2.069	23.7	52.8	-3.08				
85#	Front side 0mm	AG0(Ant0)	2.588	-17.1	-69.7	-3.73	114.469	4.477	0.08	Not Required
		AG1(Ant7)+Wlan&NFC	1.889	-23.1	44.6	-2.13				
	Front side 0mm	AG0(Ant0)	2.588	-17.1	-69.7	-3.73	129.117	4.477	0.07	Not Required
		Wlan&NFC+AG1(Ant7)	1.889	23.7	52.8	-3.08				
86#	Front side 0mm	AG0(Ant0)	2.588	-17.1	-69.7	-3.73	134.319	4.138	0.06	Not Required
		AG1(Ant9)+Wlan&NFC	1.550	27.2	57.1	-2.81				
	Front side 0mm	AG0(Ant0)	2.588	-17.1	-69.7	-3.73	129.117	4.138	0.07	Not Required
		Wlan&NFC+AG1(Ant9)	1.550	23.7	52.8	-3.08				
87#	Front side 0mm	AG0(Ant2)	2.093	19.1	-77.8	-2.43	155.332	4.673	0.07	Not Required
		AG1(Ant1)+Wlan&NFC	2.580	-9.9	74.8	-2.87				
	Front side 0mm	AG0(Ant2)	2.093	19.1	-77.8	-2.43	130.683	4.673	0.08	Not Required



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		Wlan&NFC+AG1(Ant1)	2.580	23.7	52.8	-3.08				
88#	Front side 0mm	AG0(Ant2)	2.093	19.1	-77.8	-2.43	150.271	4.162	0.06	Not Required
		AG1(Ant4)+Wlan&NFC	2.069	12.1	72.3	-0.92				
	Front side 0mm	AG0(Ant2)	2.093	19.1	-77.8	-2.43	130.683	4.162	0.06	Not Required
		Wlan&NFC+AG1(Ant4)	2.069	23.7	52.8	-3.08				
89#	Back side 0mm	AG0(Ant0)	3.018	23.2	-81.1	-3.47	158.565	5.385	0.08	Not Required
		AG1(Ant1)+Wlan&NFC	2.367	9.83	76.9	-2.98				
	Back side 0mm	AG0(Ant0)	3.018	23.2	-81.1	-3.47	146.553	5.385	0.09	Not Required
		Wlan&NFC+AG1(Ant1)	2.367	-31.9	54.7	-3.32				
90#	Back side 0mm	AG0(Ant0)	3.018	23.2	-81.1	-3.47	155.937	4.296	0.06	Not Required
		AG1(Ant4)+Wlan&NFC	1.278	-10.2	71.2	-1.13				
	Back side 0mm	AG0(Ant0)	3.018	23.2	-81.1	-3.47	146.553	4.296	0.06	Not Required
		Wlan&NFC+AG1(Ant4)	1.278	-31.9	54.7	-3.32				
91#	Back side 0mm	AG0(Ant0)	3.018	23.2	-81.1	-3.47	127.500	5.085	0.09	Not Required
		AG1(Ant7)+Wlan&NFC	2.067	28.2	46.3	-2.86				
	Back side 0mm	AG0(Ant0)	3.018	23.2	-81.1	-3.47	146.553	5.085	0.08	Not Required
		Wlan&NFC+AG1(Ant7)	2.067	-31.9	54.7	-3.32				
92#	Back side 0mm	AG0(Ant0)	3.018	23.2	-81.1	-3.47	111.640	4.448	0.08	Not Required
		AG1(Ant9)+Wlan&NFC	1.430	31.9	30.2	-3.15				
	Back side 0mm	AG0(Ant0)	3.018	23.2	-81.1	-3.47	146.553	4.448	0.06	Not Required
		Wlan&NFC+AG1(Ant9)	1.430	-31.9	54.7	-3.32				



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93#	Back side 0mm	AG0(Ant0)	3.018	23.2	-81.1	-3.47	142.252	5.869	0.10	Not Required
		AG1(Ant10)+Wlan&NFC	2.851	-7.79	57.7	-0.36				
	Back side 0mm	AG0(Ant0)	3.018	23.2	-81.1	-3.47	146.553	5.869	0.10	Not Required
		Wlan&NFC+AG1(Ant10)	2.851	-31.9	54.7	-3.32				
94#	Back side 0mm	AG0(Ant2)	2.651	-28.7	-77.8	-3.22	159.426	5.018	0.07	Not Required
		AG1(Ant1)+Wlan&NFC	2.367	9.83	76.9	-2.98				
	Back side 0mm	AG0(Ant2)	2.651	-28.7	-77.8	-3.22	132.539	5.018	0.08	Not Required
		Wlan&NFC+AG1(Ant1)	2.367	-31.9	54.7	-3.32				
95#	Back side 0mm	AG0(Ant2)	2.651	-28.7	-77.8	-3.22	136.523	4.718	0.08	Not Required
		AG1(Ant7)+Wlan&NFC	2.067	28.2	46.3	-2.86				
	Back side 0mm	AG0(Ant2)	2.651	-28.7	-77.8	-3.22	132.539	4.718	0.08	Not Required
		Wlan&NFC+AG1(Ant7)	2.067	-31.9	54.7	-3.32				
96#	Back side 0mm	AG0(Ant2)	2.651	-28.7	-77.8	-3.22	123.840	4.081	0.07	Not Required
		AG1(Ant9)+Wlan&NFC	1.430	31.9	30.2	-3.15				
	Back side 0mm	AG0(Ant2)	2.651	-28.7	-77.8	-3.22	132.539	4.081	0.06	Not Required
		Wlan&NFC+AG1(Ant9)	1.430	-31.9	54.7	-3.32				
97#	Back side 0mm	AG0(Ant2)	2.651	-28.7	-77.8	-3.22	137.134	5.502	0.09	Not Required
		AG1(Ant10)+Wlan&NFC	2.851	-7.79	57.7	-0.36				
	Back side 0mm	AG0(Ant2)	2.651	-28.7	-77.8	-3.22	132.539	5.502	0.10	Not Required
		Wlan&NFC+AG1(Ant10)	2.851	-31.9	54.7	-3.32				
98#	Left side 0mm	AG0(Ant0)	1.801	-1.9	-49.1	-0.14	97.424	4.194	0.09	Not Required



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		AG1(Ant7)+Wlan&NFC	2.393	-6	48.2	-2.86				
	Left side 0mm	AG0(Ant0)	1.801	-1.9	-49.1	-0.14	92.362	4.194	0.09	Not Required
		Wlan&NFC+AG1(Ant7)	2.393	-2.28	43.2	-3.51				
99#	Left side 0mm	AG0(Ant0)	1.801	-1.9	-49.1	-0.14	88.397	4.251	0.10	Not Required
		AG1(Ant9)+Wlan&NFC	2.450	2.2	39.2	-0.72				
	Left side 0mm	AG0(Ant0)	1.801	-1.9	-49.1	-0.14	92.362	4.251	0.09	Not Required
		Wlan&NFC+AG1(Ant9)	2.450	-2.28	43.2	-3.51				
100#	Right side 0mm	AG0(Ant8)	3.003	1.2	52.6	-0.13	90.923	4.272	0.10	Not Required
		AG1(Ant10)+Wlan&NFC	1.269	-2.3	-38.2	-3.3				
	Right side 0mm	AG0(Ant8)	3.003	1.2	52.6	-0.13	95.780	4.272	0.09	Not Required
		Wlan&NFC+AG1(Ant10)	1.269	-1.38	-43.1	-3.07				



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11 Supplemental Tuner Tests Results

1. According to TCBC workshop April 2019. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.

2. To evaluate all of the tuner states, the 507 tuner states verification testing are divided evenly among band (Down Antenna) are divided evenly among band (Down Antenna(Ant0) LTE B5/12/13/17/26, NR n5), mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. The bands which are dynamically tuned are split into two separate antennas, so each antenna system will have its own test plan to cover the corresponding 507 tuner states.

3. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

Head SAR Data							
LTE B12/17 Ant 0		LTE B13 Ant 0		LTE B26/5 Ant 0		NR n5 Ant 0	
Test position	Left cheek	Test position	Left cheek	Test position	Left cheek	Test position	Left cheek
BW.	10	BW.	10	BW.	15	BW.	20
Test Mode	QPSK 1_0	Test Mode	QPSK 1_0	Test Mode	QPSK 1_0	Test Mode	QPSK 1_53
Test ch./Freq.	23095/707.5	Test ch./Freq.	23230/782	Test ch./Freq.	26765/821.5	Test ch./Freq.	167300/836.5
Spacing(mm)	0	Spacing(mm)	0	Spacing(mm)	0	Spacing(mm)	0
SAR (W/kg) 1-g	0.140	SAR (W/kg) 1-g	0.143	SAR (W/kg) 1-g	0.179	SAR (W/kg) 1-g	0.147
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 7)	0.112	Auto-tune (State 246)	0.105	Auto-tune (State 157)	0.170	Auto-tune (State 465)	0.125
0	0.047	1	0.077	2	0.158	3	0.085
4	0.053	5	0.050	6	0.151	8	0.072
7	0.110	9	0.066	10	0.110	11	0.090
12	0.088	13	0.070	14	0.158	15	0.047
16	0.062	17	0.094	18	0.072	19	0.117
20	0.079	21	0.087	22	0.155	23	0.067
24	0.065	25	0.069	26	0.075	27	0.064
28	0.091	29	0.055	30	0.089	31	0.073



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32	0.087	33	0.046	34	0.078	35	0.048
36	0.095	37	0.090	38	0.046	39	0.051
40	0.081	41	0.055	42	0.065	43	0.076
44	0.090	45	0.068	46	0.092	47	0.072
48	0.062	49	0.047	50	0.111	51	0.079
52	0.083	53	0.091	54	0.132	55	0.091
56	0.093	57	0.077	58	0.125	59	0.118
60	0.046	61	0.047	62	0.045	63	0.114
64	0.051	65	0.057	66	0.089	67	0.100
68	0.095	69	0.082	70	0.102	71	0.063
72	0.082	73	0.087	74	0.138	75	0.094
76	0.069	77	0.081	78	0.071	79	0.085
80	0.074	81	0.049	82	0.102	83	0.103
84	0.075	85	0.053	86	0.063	87	0.074
88	0.059	89	0.093	90	0.095	91	0.056
92	0.063	93	0.072	94	0.153	95	0.116
96	0.088	97	0.050	98	0.097	99	0.061
100	0.045	101	0.047	102	0.094	103	0.078
104	0.065	105	0.057	106	0.132	107	0.110
108	0.078	109	0.049	110	0.118	111	0.089
112	0.060	113	0.056	114	0.141	115	0.058
116	0.094	117	0.093	118	0.054	119	0.114
120	0.071	121	0.068	122	0.066	123	0.073
124	0.095	125	0.047	126	0.132	127	0.076
128	0.047	129	0.084	130	0.059	131	0.081
132	0.078	133	0.095	134	0.132	135	0.053
136	0.052	137	0.065	138	0.145	139	0.048
140	0.057	141	0.088	142	0.079	143	0.112
144	0.073	145	0.050	146	0.147	147	0.098
148	0.061	149	0.083	150	0.057	151	0.074
152	0.046	153	0.054	154	0.052	155	0.095
156	0.086	158	0.058	157	0.165	159	0.070
160	0.055	161	0.095	162	0.057	163	0.074
164	0.091	165	0.092	166	0.049	167	0.087
168	0.077	169	0.077	170	0.103	171	0.080
172	0.098	173	0.062	174	0.109	175	0.115
176	0.071	177	0.050	178	0.122	179	0.058
180	0.078	181	0.083	182	0.078	183	0.094
184	0.045	185	0.050	186	0.154	187	0.090
188	0.091	189	0.075	190	0.063	191	0.118
192	0.075	193	0.060	194	0.160	195	0.074
196	0.054	197	0.081	198	0.140	199	0.104



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200	0.050	201	0.076	202	0.050	203	0.071
204	0.092	205	0.063	206	0.081	207	0.065
208	0.059	209	0.046	210	0.078	211	0.051
212	0.048	213	0.082	214	0.100	215	0.113
216	0.049	217	0.055	218	0.067	219	0.086
220	0.074	221	0.063	222	0.143	223	0.087
224	0.100	225	0.059	226	0.100	227	0.090
228	0.087	229	0.079	230	0.080	231	0.046
232	0.058	233	0.068	234	0.153	235	0.085
236	0.076	237	0.071	238	0.157	239	0.106
240	0.062	241	0.093	242	0.128	243	0.077
244	0.047	246	0.102	245	0.129	247	0.070
248	0.049	249	0.058	250	0.141	251	0.082
252	0.048	253	0.067	254	0.111	255	0.051
256	0.074	257	0.067	258	0.075	259	0.119
260	0.077	261	0.069	262	0.102	263	0.053
264	0.098	265	0.054	266	0.156	267	0.113
268	0.050	269	0.051	270	0.055	271	0.093
272	0.046	273	0.094	274	0.073	275	0.065
276	0.071	277	0.091	278	0.138	279	0.109
280	0.069	281	0.059	282	0.133	283	0.084
284	0.087	285	0.060	286	0.059	287	0.101
288	0.065	289	0.094	290	0.109	291	0.053
292	0.072	293	0.052	294	0.126	295	0.083
296	0.077	297	0.062	298	0.081	299	0.076
300	0.058	301	0.090	302	0.067	303	0.100
304	0.050	305	0.088	306	0.131	307	0.080
308	0.052	309	0.075	310	0.110	311	0.081
312	0.060	313	0.087	314	0.139	315	0.084
316	0.080	317	0.055	318	0.066	319	0.082
320	0.096	321	0.057	322	0.137	323	0.079
324	0.061	325	0.045	326	0.099	327	0.090
328	0.094	329	0.055	330	0.085	331	0.073
332	0.057	333	0.054	334	0.045	335	0.115
336	0.057	337	0.072	338	0.073	339	0.060
340	0.057	341	0.049	342	0.066	343	0.053
344	0.091	345	0.086	346	0.113	347	0.075
348	0.088	349	0.050	350	0.096	351	0.091
352	0.082	353	0.077	354	0.062	355	0.077
356	0.063	357	0.094	358	0.075	359	0.060
360	0.058	361	0.083	362	0.062	363	0.099
364	0.069	365	0.070	366	0.097	367	0.063



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368	0.100	369	0.068	370	0.048	371	0.045
372	0.066	373	0.077	374	0.120	375	0.093
376	0.100	377	0.056	378	0.147	379	0.085
380	0.050	381	0.058	382	0.069	383	0.092
384	0.066	385	0.054	386	0.141	387	0.068
388	0.063	389	0.057	390	0.065	391	0.086
392	0.056	393	0.055	394	0.138	395	0.098
396	0.073	397	0.062	398	0.154	399	0.093
400	0.048	401	0.075	402	0.108	403	0.106
404	0.053	405	0.072	406	0.054	407	0.051
408	0.067	409	0.069	410	0.139	411	0.086
412	0.100	413	0.082	414	0.053	415	0.073
416	0.073	417	0.048	418	0.063	419	0.057
420	0.052	421	0.067	422	0.144	423	0.047
424	0.053	425	0.075	426	0.154	427	0.053
428	0.070	429	0.053	430	0.084	431	0.114
432	0.099	433	0.087	434	0.059	435	0.062
436	0.066	437	0.047	438	0.063	439	0.063
440	0.089	441	0.074	442	0.076	443	0.053
444	0.099	445	0.051	446	0.153	447	0.067
448	0.067	449	0.095	450	0.121	451	0.051
452	0.072	453	0.091	454	0.134	455	0.083
456	0.090	457	0.094	458	0.128	459	0.069
460	0.069	461	0.049	462	0.114	463	0.096
464	0.080	467	0.065	466	0.147	465	0.121
468	0.046	469	0.072	470	0.130	471	0.102
472	0.087	473	0.074	474	0.047	475	0.114
476	0.053	477	0.077	478	0.134	479	0.061
480	0.080	481	0.086	482	0.146	483	0.058
484	0.076	485	0.066	486	0.106	487	0.074
488	0.049	489	0.067	490	0.113	491	0.062
492	0.050	493	0.045	494	0.091	495	0.047
496	0.078	497	0.055	498	0.149	499	0.062
503	0.077	504	0.069	505	0.084	506	0.091
507	0.096						

Body SAR Data							
LTE B12/17 Ant 0		LTE B13 Ant 0		LTE B26/5 Ant 0		NR n5 Ant 0	
Test position	Back side	Test position	Back side	Test position	Back side	Test position	Back side
BW.	10	BW.	10	BW.	15	BW.	20
Test Mode	QPSK 1_0	Test Mode	QPSK 1_0	Test Mode	QPSK 1_38	Test Mode	QPSK 1_53



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Test ch./Freq.	23095/707.5	Test ch./Freq.	23230/782	Test ch./Freq.	26865/831.5	Test ch./Freq.	166800/834
Spacing(mm)	5	Spacing(mm)	5	Spacing(mm)	5	Spacing(mm)	5
SAR (W/kg) 1-g	0.568	SAR (W/kg) 1-g	0.686	SAR (W/kg) 1-g	0.864	SAR (W/kg) 1-g	0.878
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 7)	0.517	Auto-tune (State 246)	0.616	Auto-tune (State 358)	0.812	Auto-tune (State 481)	0.766
0	0.366	1	0.481	2	0.724	3	0.313
4	0.441	5	0.358	6	0.535	8	0.626
7	0.510	9	0.539	10	0.599	11	0.378
12	0.433	13	0.334	14	0.639	15	0.374
16	0.399	17	0.419	18	0.715	19	0.687
20	0.345	21	0.338	22	0.635	23	0.528
24	0.306	25	0.373	26	0.460	27	0.443
28	0.320	29	0.511	30	0.601	31	0.487
32	0.408	33	0.446	34	0.563	35	0.416
36	0.323	37	0.531	38	0.496	39	0.397
40	0.308	41	0.415	42	0.642	43	0.600
44	0.425	45	0.464	46	0.607	47	0.318
48	0.360	49	0.436	50	0.474	51	0.542
52	0.325	53	0.511	54	0.621	55	0.336
56	0.406	57	0.495	58	0.527	59	0.424
60	0.360	61	0.496	62	0.496	63	0.524
64	0.373	65	0.425	66	0.738	67	0.447
68	0.454	69	0.423	70	0.538	71	0.426
72	0.402	73	0.305	74	0.628	75	0.472
76	0.392	77	0.557	78	0.481	79	0.379
80	0.306	81	0.372	82	0.690	83	0.330
84	0.421	85	0.416	86	0.714	87	0.386
88	0.320	89	0.543	90	0.711	91	0.320
92	0.377	93	0.433	94	0.536	95	0.565
96	0.401	97	0.451	98	0.486	99	0.404
100	0.397	101	0.410	102	0.461	103	0.638
104	0.457	105	0.528	106	0.612	107	0.421
108	0.441	109	0.365	110	0.529	111	0.568
112	0.441	113	0.350	114	0.727	115	0.586
116	0.333	117	0.462	118	0.404	119	0.433
120	0.348	121	0.338	122	0.722	123	0.595
124	0.338	125	0.344	126	0.563	127	0.404
128	0.437	129	0.322	130	0.498	131	0.336
132	0.333	133	0.540	134	0.747	135	0.451



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136	0.449	137	0.514	138	0.708	139	0.410
140	0.417	141	0.349	142	0.712	143	0.343
144	0.307	145	0.319	146	0.600	147	0.428
148	0.366	149	0.380	150	0.431	151	0.533
152	0.460	153	0.445	154	0.612	155	0.522
156	0.382	157	0.344	158	0.545	159	0.511
160	0.346	161	0.363	162	0.419	163	0.603
164	0.408	165	0.368	166	0.668	167	0.652
168	0.395	169	0.458	170	0.714	171	0.555
172	0.445	173	0.430	174	0.601	175	0.515
176	0.432	177	0.450	178	0.423	179	0.588
180	0.394	181	0.417	182	0.679	183	0.620
184	0.435	185	0.508	186	0.663	187	0.448
188	0.314	189	0.549	190	0.617	191	0.565
192	0.434	193	0.388	194	0.650	195	0.421
196	0.444	197	0.407	198	0.492	199	0.601
200	0.341	201	0.503	202	0.421	203	0.363
204	0.456	205	0.350	206	0.629	207	0.540
208	0.353	209	0.308	210	0.430	211	0.319
212	0.379	213	0.307	214	0.416	215	0.319
216	0.330	217	0.508	218	0.408	219	0.643
220	0.407	221	0.310	222	0.741	223	0.562
224	0.353	225	0.304	226	0.639	227	0.558
228	0.353	229	0.521	230	0.527	231	0.334
232	0.380	233	0.498	234	0.692	235	0.519
236	0.305	237	0.350	238	0.479	239	0.362
240	0.453	241	0.545	242	0.407	243	0.690
244	0.407	246	0.608	245	0.735	247	0.642
248	0.343	249	0.411	250	0.527	251	0.485
252	0.349	253	0.355	254	0.533	255	0.310
256	0.355	257	0.317	258	0.600	259	0.550
260	0.421	261	0.368	262	0.658	263	0.602
264	0.378	265	0.453	266	0.593	267	0.330
268	0.381	269	0.407	270	0.670	271	0.574
272	0.407	273	0.526	274	0.441	275	0.436
276	0.433	277	0.464	278	0.635	279	0.650
280	0.455	281	0.406	282	0.685	283	0.533
284	0.445	285	0.434	286	0.437	287	0.536
288	0.418	289	0.422	290	0.592	291	0.574
292	0.323	293	0.371	294	0.540	295	0.518
296	0.340	297	0.361	298	0.737	299	0.553
300	0.417	301	0.496	302	0.643	303	0.365



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304	0.371	305	0.305	306	0.591	307	0.635
308	0.363	309	0.365	310	0.632	311	0.476
312	0.364	313	0.430	314	0.666	315	0.366
316	0.413	317	0.356	318	0.429	319	0.413
320	0.376	321	0.390	322	0.566	323	0.535
324	0.323	325	0.550	326	0.654	327	0.412
328	0.343	329	0.305	330	0.402	331	0.429
332	0.382	333	0.354	334	0.491	335	0.357
336	0.382	337	0.487	338	0.404	339	0.499
340	0.369	341	0.322	342	0.648	343	0.598
344	0.330	345	0.549	346	0.740	347	0.322
348	0.408	349	0.402	350	0.525	351	0.528
352	0.404	353	0.464	354	0.721	355	0.549
356	0.349	357	0.386	358	0.802	359	0.402
360	0.457	361	0.477	362	0.537	363	0.597
364	0.400	365	0.461	366	0.663	367	0.529
368	0.361	369	0.450	370	0.688	371	0.448
372	0.363	373	0.434	374	0.621	375	0.560
376	0.307	377	0.448	378	0.455	379	0.550
380	0.414	381	0.490	382	0.418	383	0.689
384	0.382	385	0.391	386	0.629	387	0.654
388	0.368	389	0.528	390	0.590	391	0.644
392	0.455	393	0.431	394	0.416	395	0.689
396	0.323	397	0.313	398	0.727	399	0.377
400	0.308	401	0.413	402	0.533	403	0.630
404	0.382	405	0.456	406	0.460	407	0.664
408	0.373	409	0.396	410	0.713	411	0.384
412	0.327	413	0.469	414	0.649	415	0.661
416	0.401	417	0.509	418	0.520	419	0.544
420	0.311	421	0.480	422	0.611	423	0.649
424	0.320	425	0.484	426	0.435	427	0.511
428	0.377	429	0.464	430	0.507	431	0.678
432	0.324	433	0.451	434	0.418	435	0.382
436	0.331	437	0.498	438	0.420	439	0.359
440	0.312	441	0.369	442	0.420	443	0.639
444	0.308	445	0.464	446	0.694	447	0.393
448	0.399	449	0.405	450	0.408	451	0.427
452	0.383	453	0.407	454	0.697	455	0.500
456	0.431	457	0.505	458	0.629	459	0.594
460	0.411	461	0.365	462	0.466	463	0.589
464	0.444	465	0.540	466	0.720	467	0.535
468	0.454	469	0.461	470	0.583	471	0.556



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472	0.363	473	0.384	474	0.722	475	0.576
476	0.322	477	0.358	478	0.478	479	0.427
480	0.418	483	0.361	482	0.613	481	0.757
484	0.327	485	0.373	486	0.700	487	0.633
488	0.445	489	0.319	490	0.437	491	0.638
492	0.383	493	0.310	494	0.571	495	0.367
496	0.440	497	0.554	498	0.537	499	0.337
503	0.317	504	0.482	505	0.638	506	0.667
507	0.273						

4. The auto-tune is turned back on, and the previous maximum SAR value shall be recovered (documented tolerance is acceptable)

Head SAR Data							
LTE B12/17 Ant 0		LTE B13 Ant 0		LTE B26/5 Ant 0		NR n5 Ant 0	
Test position	Left cheek	Test position	Left cheek	Test position	Left cheek	Test position	Left cheek
BW.	10	BW.	10	BW.	15	BW.	20
Test Mode	QPSK 1_0	Test Mode	QPSK 1_0	Test Mode	QPSK 1_0	Test Mode	QPSK 1_53
Test ch./Freq.	23095/707.5	Test ch./Freq.	23230/782	Test ch./Freq.	26765/821.5	Test ch./Freq.	167300/836.5
Spacing(mm)	0	Spacing(mm)	0	Spacing(mm)	0	Spacing(mm)	0
SAR (W/kg) 1-g	0.140	SAR (W/kg) 1-g	0.143	SAR (W/kg) 1-g	0.179	SAR (W/kg) 1-g	0.147
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune is turned on (State 7)	0.112	Auto-tune is turned on (State 246)	0.105	Auto-tune is turned on (State 157)	0.170	Auto-tune is turned on (State 465)	0.125
Auto-tune is turned off (State 28)	0.091	Auto-tune is turned off (State 273)	0.094	Auto-tune is turned off (State 314)	0.139	Auto-tune is turned off (State 319)	0.082
Auto-tune is turned on (State 7)	0.110	Auto-tune is turned on (State 246)	0.103	Auto-tune is turned on (State 157)	0.165	Auto-tune is turned on (State 465)	0.123



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Body SAR Data							
LTE B12/17 Ant 0		LTE B13 Ant 0		LTE B26/5 Ant 0		NR n5 Ant 0	
Test position	Back side	Test position	Back side	Test position	Back side	Test position	Back side
BW.	10	BW.	10	BW.	15	BW.	20
Test Mode	QPSK 1_0	Test Mode	QPSK 1_0	Test Mode	QPSK 1_38	Test Mode	QPSK 1_53
Test ch./Freq.	23095/707.5	Test ch./Freq.	23230/782	Test ch./Freq.	26865/831.5	Test ch./Freq.	166800/834
Spacing(mm)	5	Spacing(mm)	5	Spacing(mm)	5	Spacing(mm)	5
SAR (W/kg) 1-g	0.568	SAR (W/kg) 1-g	0.686	SAR (W/kg) 1-g	0.864	SAR (W/kg) 1-g	0.878
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune is turned on (State 7)	0.517	Auto-tune is turned on (State 246)	0.616	Auto-tune is turned on (State 358)	0.812	Auto-tune is turned on (State 481)	0.766
Auto-tune is turned off (State 28)	0.320	Auto-tune is turned off (State 273)	0.526	Auto-tune is turned off (State 314)	0.666	Auto-tune is turned off (State 319)	0.413
Auto-tune is turned on (State 7)	0.512	Auto-tune is turned on (State 246)	0.612	Auto-tune is turned on (State 157)	0.811	Auto-tune is turned on (State 465)	0.762



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12 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System; PD Test System				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483); cDASY6 Module mmWave_V3.2.0.1840; DASY8 Module SAR V16.4.0.5005				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-023	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-025	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-031	NCR	NCR
☒	Test Phantom	SPEAG	mmWave	SZ-WSR-A-029	NCR	NCR
☒	DAE	SPEAG	DAE4	SZ-WSR-M-028	2024/04/16	2025/04/15
☒	DAE	SPEAG	DAE4	SZ-WSR-M-031	2024/03/18	2025/03/17
☒	DAE	SPEAG	DAE4	SZ-WSR-M-100	2024/12/31	2025/12/30
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-068	2025/01/15	2026/01/14
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-075	2024/08/29	2025/08/28
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-079	2024/11/20	2025/11/19
☒	Probe	SPEAG	EUmmWV4	SZ-WSR-M-048	2024/8/23	2025/8/22
☒	5G Verification Source	SPEAG	10GHz	SZ-WSR-M-048	2024/8/20	2025/8/19
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16
☒	Validation Kits	SPEAG	D1950V3	SZ-WSR-M-037	2022/10/31	2025/10/30
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2022/06/14	2025/06/13
☒	Validation Kits	SPEAG	D3500V2	SZ-WSR-M-041	2022/09/19	2025/09/18
☒	Validation Kits	SPEAG	D3700V2	SZ-WSR-M-042	2022/09/15	2025/09/14
☒	Validation Kits	SPEAG	D3900V2	SZ-WSR-M-043	2022/09/16	2025/09/15
☒	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31
☒	Validation Kits	SPEAG	D6.5GHzV2	SZ-WSR-M-080	2023/09/11	2026/09/10
☒	Dielectric parameter probes	SPEAG	DAK-3.5	SZ-WSR-M-093	2024/11/18	2025/11/17
☒	Agilent Network Analyzer	Agilent	E5071C	SZ-WSR-M-067	2024/12/19	2025/12/18
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2025/01/08	2026/01/07
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2024/05/24	2025/05/23
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2024/08/19	2025/08/18
☒	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR
☒	Signal Generator	Aqilent	N5171B	SZ-WSR-M-006	2025/01/07	2026/01/06



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☒	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
☒	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR
☒	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/01/07	2026/01/06
☒	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/01/07	2026/01/06
☒	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/01/08	2026/01/07
☒	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
☒	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29
☒	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29
☒	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2024/05/28	2025/05/27
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2024/05/28	2025/05/27
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2024/05/28	2025/05/27

Note: All the equipment are within the valid period when the tests are performed.



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

13 Calibration certificate

Please see the Appendix C

14 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

--- End of report ---

