



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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

Report No.: SZCR250100007807

Page: 1 of 201

FCC SAR TEST REPORT

Application No.: SZCR2501000078WM
Applicant: vivo Mobile Communication Co., Ltd.
Address of Applicant: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Manufacturer: vivo Mobile Communication Co., Ltd.
Address of Manufacturer: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
EUT Description: Mobile Phone
Model No.: V2446
Trade Mark: vivo
FCC ID: 2AUCY-V2446
Standards: FCC 47CFR §2.1093
Date of Receipt: 2025-01-20
Date of Test: 2025-01-23 to 2025-02-14
Date of Issue: 2025-02-19

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-02-19		Original

Authorized for issue by:				
		Sherlock Fang		
		Sherlock Fang/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	0.53	0.25	0.40	/
GSM1900	0.84	0.51	0.46	/
WCDMA Band II	0.80	0.77	0.57	1.87
WCDMA Band IV	0.73	0.44	0.58	/
WCDMA Band V	0.75	0.23	0.43	/
LTE Band 2	0.92	0.96	0.66	2.15
LTE Band 7	0.95	0.73	0.47	2.91
LTE Band 12(17)	0.52	0.21	0.27	/
LTE Band 13	0.66	0.28	0.32	/
LTE Band 26(5)	0.89	0.25	0.43	/
LTE Band 41(38)	0.88	0.71	0.56	2.93
LTE Band 66(4)	0.78	0.53	0.63	2.38
NR Band n2	0.56	0.70	0.42	1.78
NR Band n7	0.69	0.82	0.50	2.34
NR Band n26(5)	0.55	0.19	0.38	/
NR Band n41(38)	0.78	0.72	0.70	2.99
NR Band n66	0.70	0.45	0.45	1.87
NR Band n77	0.77	0.76	0.85	1.84
NR Band n78	0.85	0.76	0.66	1.05
WI-FI (2.4GHz)	0.77	0.12	0.31	/
WI-FI (5GHz)	0.63	0.90	0.46	2.30
BT	0.46	<0.10	0.16	/
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	1.38	1.39	1.22	3.66
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note: 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: 1710-1780 MHz). SAR in LTE band 5 (frequency range: 824-849 MHz) are covered by LTE band 26 (frequency range: 814-849 MHz). SAR in LTE band 17 (frequency range: 704-716 MHz) are 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). SAR in NR Band n5 (frequency range: 824-849 MHz) are covered by NR Band n26 (frequency range: 814-849 MHz). SAR in NR Band n38 (frequency range: 2570-2620 MHz) is covered by NR Band n41 (frequency range: 2496-2690 MHz). SAR in NR Band n5 (frequency range: 824-849 MHz) are covered by NR Band n26 (frequency range: 814-849 MHz). SAR in NR Band n77 (frequency range: 3450-3550 MHz) is covered by NR Band n78 (frequency range: 3450-3550 MHz). 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.



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Appendix E: Conducted RF Output Power201



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1 General Information

1.1 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	V2446		
Trade Mark:	vivo		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	869584072004685; 869584072004024; 869584072004529; 869584072004008; 869584072004545; 869584072003661; 869584072003687; 869584072004867.		
Hardware Version:	MP_0.1		
Software Version:	PD2443IF_EX_A_15.0.1.31.W30		
Antenna Type:	Integrated Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM :GMSK,8PSK; WCDMA :QPSK,16QAM LTE :QPSK,16QAM,64QAM 5G NR :DFT-s-OFDM(PI/2 BPSK,QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI :DSSS,OFDM; BT :GFSK, π /4DQPSK,8DPSK		
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 66	1710~1780	2110~2180
	NR Band n2	1850 ~1910	1930 ~1990
	NR Band n5	824~849	869~894
	NR Band n7	2500~2570	2620~2690
	NR Band n26	814~849	859~894
	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2180
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78	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
	BT	2402~2480	2402~2480
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory		
Battery Information:	Model:	BA60	
	Normal Voltage:	3.85V	
	Rated capacity:	5050mAh	
	Manufacturer:	Sunwoda Electronic Co., Ltd.	



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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. The overall diagonal dimension of this device is 175mm. Per KDB 648474 D04, because the diagonal distance of this device is $\geq 160\text{mm}$, so it is a phablet.

According to the distance between WWAN/WIFI/BT antennas and the sides of the EUT we can draw the conclusion that:

Distance of the Antenna to the EUT surface/edge						
Mode	Front	Back	Left	Right	Top	Bottom
Ant11	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant12	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant21	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant22	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant23	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant31	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$

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

Note:

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

1.1.2 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) 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.
- 4) 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).

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



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
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



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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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Shenzhen Branch Inspection & Testing Services Laboratory

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1.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

1.5 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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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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

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- 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.
- 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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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 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
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: Δx_{Area} , Δy_{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: Δx_{Zoom} , Δy_{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: $\Delta z_{Zoom}(n)$		$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$
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:



$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

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):

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

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

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

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.

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

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 SAR measurement variability and uncertainty

4.1 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.

4.2 SAR measurement uncertainty

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



5 Description of Test Position

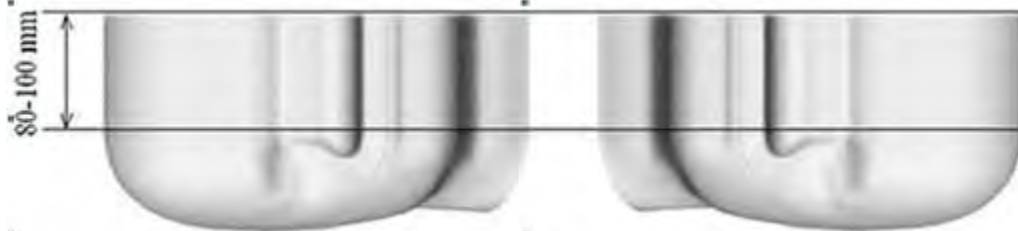
5.1 The Head Test Position

5.1.1 SAM Phantom Shape

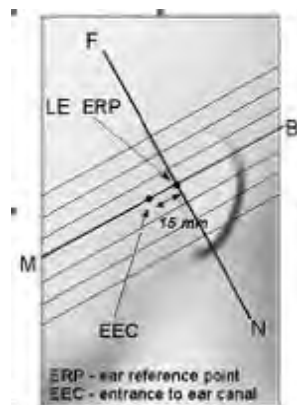


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

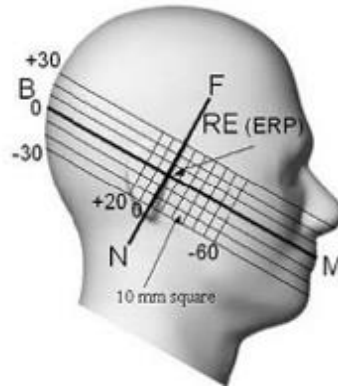
Note: The centre strip including the nose region has a different thickness tolerance.



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

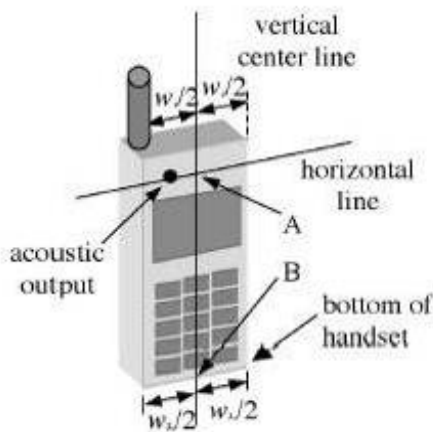


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

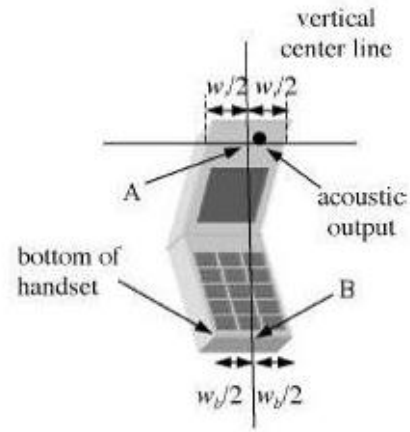


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



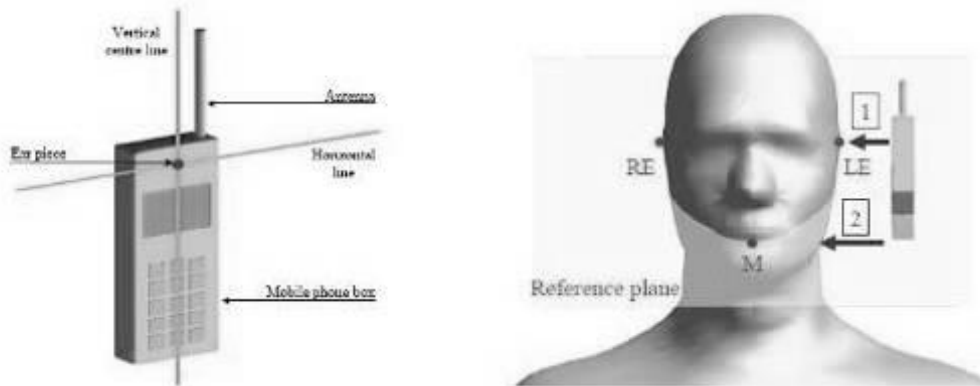
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

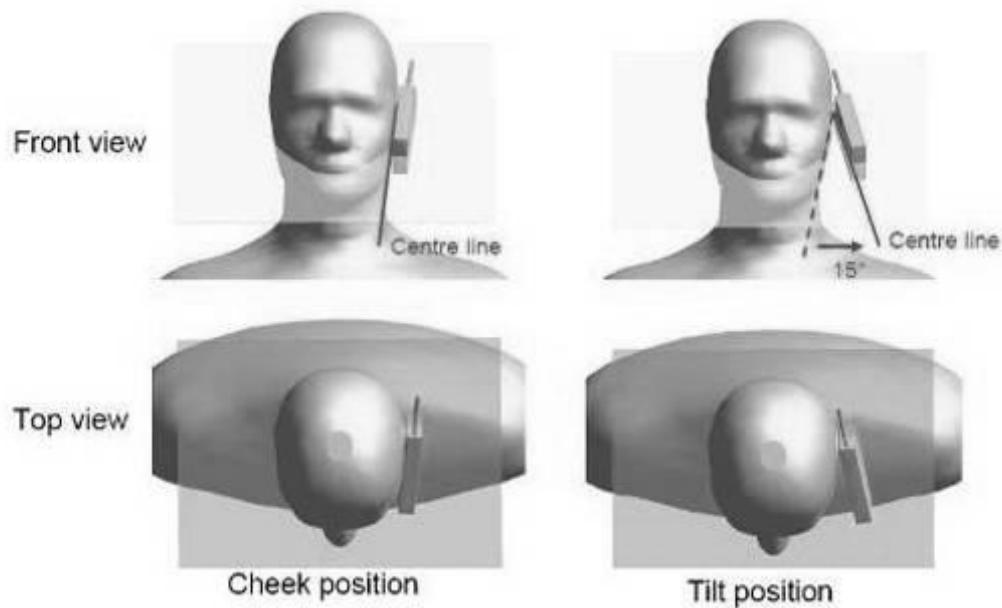
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with 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.

5.1.4 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

5.2 The Body Test Position

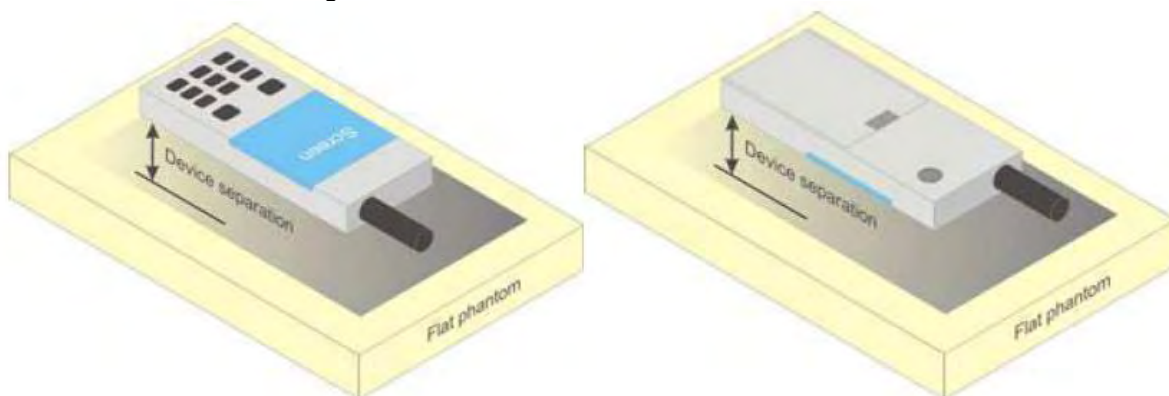
5.2.1 Body-worn accessory exposure conditions

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

5.2.2 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.

5.3 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.

WB2 SAR Test Record												
Ant 13 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 10mm) DSI10												
Front side	RMC	9400/1880	1:1	0.211	0.113	0.15	18.39	24.20	3.811	0.804	22.4	Yes
Back side	RMC	9400/1880	1:1	0.328	0.172	-0.10	18.39	24.20	3.811	1.250	22.4	No
Left side	RMC	9400/1880	1:1	0.103	0.058	0.05	18.39	24.20	3.811	0.392	22.4	Yes
Top side	RMC	9400/1880	1:1	0.395	0.197	0.04	18.39	24.20	3.811	1.505	22.4	No

LTE Band 2 SAR Test Record												
Ant 13 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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1_50	19100/1900	1:1	0.293	0.159	-0.01	18.96	24.50	3.581	1.049	Yes



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Back side	20	QPSK 1_50	19100/1900	1:1	0.433	0.229	-0.17	18.96	24.50	3.581	1.551	22.2	No
Left side	20	QPSK 1_50	19100/1900	1:1	0.142	0.082	-0.18	18.96	24.50	3.581	0.508	22.2	Yes
Top side	20	QPSK 1_50	19100/1900	1:1	0.533	0.266	0.06	18.96	24.50	3.581	1.909	22.2	No
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	20	QPSK 50_25	19100/1900	1:1	0.286	0.158	-0.10	18.83	24.50	3.690	1.055	22.2	Yes
Back side	20	QPSK 50_25	19100/1900	1:1	0.428	0.228	0.10	18.83	24.50	3.690	1.579	22.2	No
Left side	20	QPSK 50_25	19100/1900	1:1	0.129	0.072	-0.13	18.83	24.50	3.690	0.476	22.2	Yes
Top side	20	QPSK 50_25	19100/1900	1:1	0.566	0.291	0.03	18.83	24.50	3.690	2.088	22.2	No

LTE Band 7 SAR Test Record													
Ant 13 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 10mm 1RB) DSI10													
Front side	20	QPSK 1_0	20850/2510	1:1	0.102	0.049	0.11	17.12	24.20	5.105	0.521	22.2	Yes
Back side	20	QPSK 1_0	20850/2510	1:1	0.353	0.155	0.03	17.12	24.20	5.105	1.802	22.2	No
Left side	20	QPSK 1_0	20850/2510	1:1	0.054	0.029	-0.04	17.12	24.20	5.105	0.276	22.2	Yes
Top side	20	QPSK 1_0	20850/2510	1:1	0.401	0.181	-0.14	17.12	24.20	5.105	2.047	22.2	No
Top side	20	QPSK PCC 1_99	20850/2510	1:1	0.352	0.159	0.13	16.85	24.20	5.433	1.912	22.2	No
		QPSK SCC 1_0	21048/2529.8										
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	20	QPSK 50_0	20850/2510	1:1	0.099	0.048	-0.06	17.08	24.20	5.152	0.510	22.2	Yes
Back side	20	QPSK 50_0	20850/2510	1:1	0.342	0.151	0.18	17.08	24.20	5.152	1.762	22.2	No
Left side	20	QPSK 50_0	20850/2510	1:1	0.057	0.029	0.15	17.08	24.20	5.152	0.294	22.2	Yes
Top side	20	QPSK 50_0	20850/2510	1:1	0.403	0.179	0.10	17.08	24.20	5.152	2.076	22.2	No
Ant 11 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 10mm 1RB) DSI10													
Front side	20	QPSK 1_50	21350/2560	1:1	0.104	0.049	-0.07	16.43	24.20	5.984	0.622	22.6	Yes
Back side	20	QPSK 1_50	21350/2560	1:1	0.251	0.112	-0.07	16.43	24.20	5.984	1.502	22.6	No
Left side	20	QPSK 1_50	21350/2560	1:1	0.371	0.156	0.05	16.43	24.20	5.984	2.220	22.6	No
Left side	20	QPSK PCC 1_0	21350/2560	1:1	0.345	0.135	0.14	16.59	24.20	5.768	1.990	22.6	Yes
		QPSK SCC 1_99	21152/2540.2										
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	20	QPSK 50_25	21350/2560	1:1	0.109	0.050	0.18	16.44	24.20	5.970	0.651	22.6	Yes
Back side	20	QPSK 50_25	21350/2560	1:1	0.240	0.108	-0.14	16.44	24.20	5.970	1.433	22.6	No
Left side	20	QPSK 50_25	21350/2560	1:1	0.373	0.156	0.19	16.44	24.20	5.970	2.227	22.6	No



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LTE Band 41 SAR Test Record													
Ant 13 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 10mm 1RB) DSI10													
Front side	20	QPSK 1_0	41055/2636.5	1:1.58	0.114	0.056	-0.16	18.71	24.70	3.972	0.453	22.2	Yes
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.337	0.144	-0.16	18.71	24.70	3.972	1.339	22.2	No
Left side	20	QPSK 1_0	41055/2636.5	1:1.58	0.063	0.034	0.06	18.71	24.70	3.972	0.250	22.2	Yes
Top side	20	QPSK 1_0	41055/2636.5	1:1.58	0.402	0.178	-0.18	18.71	24.70	3.972	1.597	22.2	No
Left side	20	QPSK PCC 1_0	41055/2636.5	1:1	0.375	0.155	0.17	18.60	24.70	4.074	1.528	22.2	No
		QPSK SCC 1_99	40857/2616.7										
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	20	QPSK 50_25	41055/2636.5	1:1.58	0.122	0.060	-0.12	18.67	24.70	4.009	0.489	22.2	Yes
Back side	20	QPSK 50_25	41055/2636.5	1:1.58	0.351	0.154	0.08	18.67	24.70	4.009	1.407	22.2	No
Left side	20	QPSK 50_25	41055/2636.5	1:1.58	0.067	0.035	0.15	18.67	24.70	4.009	0.269	22.2	Yes
Top side	20	QPSK 50_25	41055/2636.5	1:1.58	0.416	0.184	0.14	18.67	24.70	4.009	1.668	22.2	No
Ant 11 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 10mm 1RB) DSI10													
Front side	20	QPSK 1_0	41490/2680	1:1.58	0.101	0.048	-0.02	18.42	24.70	4.246	0.429	22.6	Yes
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.335	0.140	0.01	18.42	24.70	4.246	1.422	22.6	No
Left side	20	QPSK 1_0	41490/2680	1:1.58	0.469	0.196	0.07	18.42	24.70	4.246	1.991	22.6	No
Back side	20	QPSK PCC 1_0	41490/2680	1:1	0.462	0.192	0.16	18.45	24.70	4.217	1.948	22.6	No
		QPSK SCC 1_99	41292/2660.2										
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	20	QPSK 50_0	41490/2680	1:1.58	0.098	0.045	-0.08	18.37	24.70	4.295	0.421	22.6	Yes
Back side	20	QPSK 50_0	41490/2680	1:1.58	0.295	0.134	-0.15	18.37	24.70	4.295	1.267	22.6	No
Left side	20	QPSK 50_0	41490/2680	1:1.58	0.423	0.173	0.05	18.37	24.70	4.295	1.817	22.6	No



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LTE Band 66 SAR Test Record													
Ant 13 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 10mm 1RB) DSI10													
Front side	20	QPSK 1_99	132072/1720	1:1	0.171	0.094	-0.01	19.25	24.50	3.350	0.573	22.2	Yes
Back side	20	QPSK 1_99	132072/1720	1:1	0.243	0.138	0.18	19.25	24.50	3.350	0.814	22.2	Yes
Left side	20	QPSK 1_99	132072/1720	1:1	0.076	0.041	0.15	19.25	24.50	3.350	0.255	22.2	Yes
Top side	20	QPSK 1_99	132072/1720	1:1	0.369	0.178	0.19	19.25	24.50	3.350	1.236	22.2	No
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	20	QPSK 50_50	132072/1720	1:1	0.175	0.094	-0.08	19.36	24.50	3.266	0.572	22.2	Yes
Back side	20	QPSK 50_50	132072/1720	1:1	0.236	0.136	0.02	19.36	24.50	3.266	0.771	22.2	Yes
Left side	20	QPSK 50_50	132072/1720	1:1	0.071	0.038	-0.15	19.36	24.50	3.266	0.232	22.2	Yes
Top side	20	QPSK 50_50	132072/1720	1:1	0.371	0.180	-0.11	19.36	24.50	3.266	1.212	22.2	No

SA N2 SAR Test Record													
Ant 13 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 10mm 1RB) DSI10													
Front side	20	QPSK 1_104	372000/1860	100%	0.189	0.102	0.12	18.12	24.20	4.055	0.766	22.1	Yes
Back side	20	QPSK 1_104	372000/1860	100%	0.274	0.147	-0.04	18.12	24.20	4.055	1.111	22.1	Yes
Left side	20	QPSK 1_104	372000/1860	100%	0.087	0.048	0.15	18.12	24.20	4.055	0.353	22.1	Yes
Top side	20	QPSK 1_104	372000/1860	100%	0.349	0.180	0.00	18.12	24.20	4.055	1.415	22.1	No
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	20	QPSK 50_28	372000/1860	100%	0.180	0.096	-0.05	18.01	24.20	4.159	0.749	22.1	Yes
Back side	20	QPSK 50_28	372000/1860	100%	0.260	0.141	0.07	18.01	24.20	4.159	1.081	22.1	Yes
Left side	20	QPSK 50_28	372000/1860	100%	0.082	0.046	0.17	18.01	24.20	4.159	0.341	22.1	Yes
Top side	20	QPSK 50_28	372000/1860	100%	0.325	0.175	-0.01	18.01	24.20	4.159	1.352	22.1	No



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SA N7 SAR Test Record													
Ant 13 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.(℃)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI10													
Front side	50	QPSK 1_135	507000/2535	100%	0.085	0.042	-0.11	16.75	24.20	5.559	0.473	22.5	Yes
Back side	50	QPSK 1_135	507000/2535	100%	0.293	0.124	-0.04	16.75	24.20	5.559	1.629	22.5	No
Left side	50	QPSK 1_135	507000/2535	100%	0.055	0.029	-0.08	16.75	24.20	5.559	0.306	22.5	Yes
Top side	50	QPSK 1_135	507000/2535	100%	0.401	0.176	0.02	16.75	24.20	5.559	2.229	22.5	No
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	50	QPSK 135_67	505000/2525	100%	0.086	0.043	-0.06	16.71	24.20	5.610	0.483	22.5	Yes
Back side	50	QPSK 135_67	505000/2525	100%	0.305	0.129	0.14	16.71	24.20	5.610	1.711	22.5	No
Left side	50	QPSK 135_67	505000/2525	100%	0.055	0.029	-0.06	16.71	24.20	5.610	0.309	22.5	Yes
Top side	50	QPSK 135_67	505000/2525	100%	0.386	0.177	0.04	16.71	24.20	5.610	2.166	22.5	No
Ant 11 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.(℃)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI10													
Front side	50	QPSK 1_135	507000/2535	100%	0.089	0.040	-0.10	15.41	24.20	7.568	0.674	22.3	Yes
Back side	50	QPSK 1_135	507000/2535	100%	0.171	0.079	0.11	15.41	24.20	7.568	1.294	22.3	No
Left side	50	QPSK 1_135	507000/2535	100%	0.268	0.113	0.05	15.41	24.20	7.568	2.028	22.3	No
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	50	QPSK 135_67	505000/2525	100%	0.077	0.036	0.11	15.52	24.20	7.379	0.568	22.3	Yes
Back side	50	QPSK 135_67	505000/2525	100%	0.164	0.072	-0.07	15.52	24.20	7.379	1.210	22.3	No
Left side	50	QPSK 135_67	505000/2525	100%	0.242	0.103	0.03	15.52	24.20	7.379	1.786	22.3	No



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SA N41 SAR Test Record													
Ant 13 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 10mm 1RB) DSI10													
Front side	100	QPSK 1_137	528000/2640	100%	0.145	0.073	-0.18	17.52	25.70	6.577	0.954	22	Yes
Back side	100	QPSK 1_137	528000/2640	100%	0.386	0.178	0.00	17.52	25.70	6.577	2.539	22	No
Left side	100	QPSK 1_137	528000/2640	100%	0.074	0.040	0.09	17.52	25.70	6.577	0.487	22	Yes
Top side	100	QPSK 1_137	528000/2640	100%	0.492	0.221	0.06	17.52	25.70	6.577	3.236	22	No
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	100	QPSK 135_69	528000/2640	100%	0.149	0.076	0.06	17.49	25.70	6.622	0.987	22	Yes
Back side	100	QPSK 135_69	528000/2640	100%	0.402	0.185	0.02	17.49	25.70	6.622	2.662	22	No
Left side	100	QPSK 135_69	528000/2640	100%	0.077	0.041	-0.08	17.49	25.70	6.622	0.510	22	Yes
Top side	100	QPSK 135_69	528000/2640	100%	0.515	0.230	-0.08	17.49	25.70	6.622	3.410	22	No
Ant 11 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 10mm 1RB) DSI10													
Front side	100	QPSK 1_1	523302/2616.51	100%	0.148	0.070	0.03	17.04	25.70	7.345	1.087	22.3	Yes
Back side	100	QPSK 1_1	523302/2616.51	100%	0.364	0.161	-0.07	17.04	25.70	7.345	2.674	22.3	No
Left side	100	QPSK 1_1	523302/2616.51	100%	0.572	0.233	0.13	17.04	25.70	7.345	4.201	22.3	No
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	100	QPSK 135_69	528000/2640	100%	0.145	0.069	0.03	16.95	25.70	7.499	1.087	22.3	Yes
Back side	100	QPSK 135_69	528000/2640	100%	0.417	0.182	0.00	16.95	25.70	7.499	3.127	22.3	No
Left side	100	QPSK 135_69	528000/2640	100%	0.586	0.243	-0.10	16.95	25.70	7.499	4.394	22.3	No



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SA N66 SAR Test Record													
Ant 13 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.(℃)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI10													
Front side	40	QPSK 1_108	352000/1760	100%	0.156	0.085	-0.17	18.62	24.20	3.614	0.564	22.1	Yes
Back side	40	QPSK 1_108	352000/1760	100%	0.228	0.130	-0.19	18.62	24.20	3.614	0.824	22.1	Yes
Left side	40	QPSK 1_108	352000/1760	100%	0.073	0.040	-0.10	18.62	24.20	3.614	0.264	22.1	Yes
Top side	40	QPSK 1_108	352000/1760	100%	0.353	0.185	0.00	18.62	24.20	3.614	1.276	22.1	No
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	40	QPSK 108_54	352000/1760	100%	0.163	0.089	0.11	18.84	24.20	3.436	0.560	22.1	Yes
Back side	40	QPSK 108_54	352000/1760	100%	0.236	0.133	0.11	18.84	24.20	3.436	0.811	22.1	Yes
Left side	40	QPSK 108_54	352000/1760	100%	0.076	0.041	0.15	18.84	24.20	3.436	0.261	22.1	Yes
Top side	40	QPSK 108_54	352000/1760	100%	0.367	0.186	0.18	18.84	24.20	3.436	1.261	22.1	No

SA N77 SAR Test Record													
Ant11 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.(℃)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI10													
Front side	100	QPSK 1_1	657200/3858	100%	0.057	0.025	-0.11	15.43	23.70	6.714	0.383	22.3	Yes
Back side	100	QPSK 1_1	657200/3858	100%	0.200	0.078	-0.19	15.43	23.70	6.714	1.343	22.3	No
Left side	100	QPSK 1_1	657200/3858	100%	0.177	0.073	0.04	15.43	23.70	6.714	1.188	22.3	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	100	QPSK 135_69	657200/3858	100%	0.063	0.026	0.00	15.65	23.70	6.383	0.402	22.3	Yes
Back side	100	QPSK 135_69	657200/3858	100%	0.185	0.074	0.01	15.65	23.70	6.383	1.181	22.3	Yes
Left side	100	QPSK 135_69	657200/3858	100%	0.161	0.067	-0.04	15.65	23.70	6.383	1.028	22.3	Yes
Ant 23 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.(℃)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI10													
Front side	100	QPSK 1_137	662000/3930	100%	0.120	0.052	-0.01	17.89	20.70	1.910	0.229	22.3	Yes
Back side	100	QPSK 1_137	662000/3930	100%	0.450	0.168	0.13	17.89	20.70	1.910	0.859	22.3	Yes
Right side	100	QPSK 1_137	662000/3930	100%	0.596	0.224	0.02	17.89	20.70	1.910	1.138	22.3	Yes
Right side	100	QPSK 1_1	650000/3750	100%	0.218	0.093	0.02	17.80	20.70	1.950	0.425	22.3	Yes
Right side	100	QPSK 1_137	652400/3786	100%	0.286	0.112	0.09	17.86	20.70	1.923	0.550	22.3	Yes
Right side	100	QPSK 1_137	654800/3822	100%	0.322	0.126	0.18	17.80	20.70	1.950	0.628	22.3	Yes
Right side	100	QPSK 1_137	657200/3858	100%	0.385	0.150	0.10	17.72	20.70	1.986	0.765	22.3	Yes
Right side	100	QPSK 1_271	659600/3894	100%	0.679	0.246	0.00	17.71	20.70	1.991	1.352	22.3	No



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Hotspot Test data(Separate 10mm 50%RB) DSI10													
Front side	100	QPSK 135_69	662000/3930	100%	0.139	0.057	0.00	17.99	20.70	1.866	0.259	22.3	Yes
Back side	100	QPSK 135_69	662000/3930	100%	0.473	0.183	-0.01	17.99	20.70	1.866	0.883	22.3	Yes
Right side	100	QPSK 135_69	662000/3930	100%	0.610	0.228	-0.07	17.99	20.70	1.866	1.138	22.3	Yes
Right side	100	QPSK 135_69	650000/3750	100%	0.268	0.108	0.00	17.95	20.70	1.884	0.505	22.3	Yes
Right side	100	QPSK 135_69	652400/3786	100%	0.298	0.117	0.14	17.88	20.70	1.914	0.570	22.3	Yes
Right side	100	QPSK 135_69	654800/3822	100%	0.332	0.130	-0.14	17.95	20.70	1.884	0.625	22.3	Yes
Right side	100	QPSK 135_69	657200/3858	100%	0.394	0.155	-0.06	17.84	20.70	1.932	0.761	22.3	Yes
Right side	100	QPSK 135_69	659600/3894	100%	0.492	0.194	0.19	17.77	20.70	1.963	0.966	22.3	Yes
Hotspot Test data(Separate 10mm 50%RB) DSI10													
Right side	100	QPSK 270_0	652400/3786	100%	0.458	0.175	-0.01	16.95	20.70	2.371	1.086	22.3	Yes

SA N78 SAR Test Record													
Ant11 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.(℃)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI10													
Front side	100	QPSK 1_137	633334/3500	100%	0.083	0.037	-0.14	16.59	23.70	5.140	0.427	22.2	Yes
Back side	100	QPSK 1_137	633334/3500	100%	0.308	0.134	0.01	16.59	23.70	5.140	1.583	22.2	No
Left side	100	QPSK 1_137	633334/3500	100%	0.326	0.137	-0.12	16.59	23.70	5.140	1.676	22.2	No
Hotspot Test data (Separate 10mm 50%RB) DSI10													
Front side	100	QPSK 135_69	633334/3500	100%	0.090	0.039	0.19	16.47	23.70	5.284	0.476	22.2	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.335	0.138	0.00	16.47	23.70	5.284	1.770	22.2	No
Left side	100	QPSK 135_69	633334/3500	100%	0.336	0.141	0.12	16.47	23.70	5.284	1.776	22.2	No



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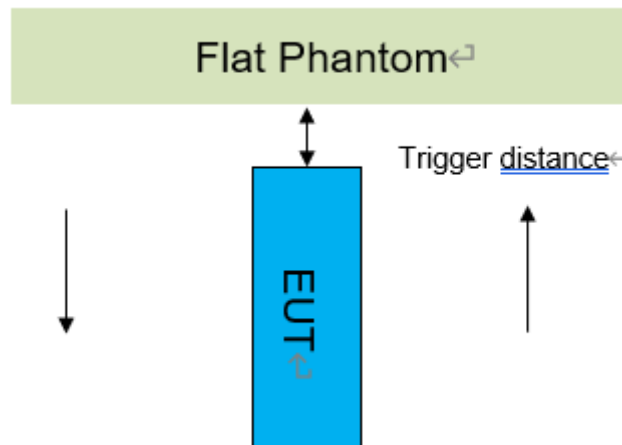
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5.4 Proximity Sensor Triggering Test

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.

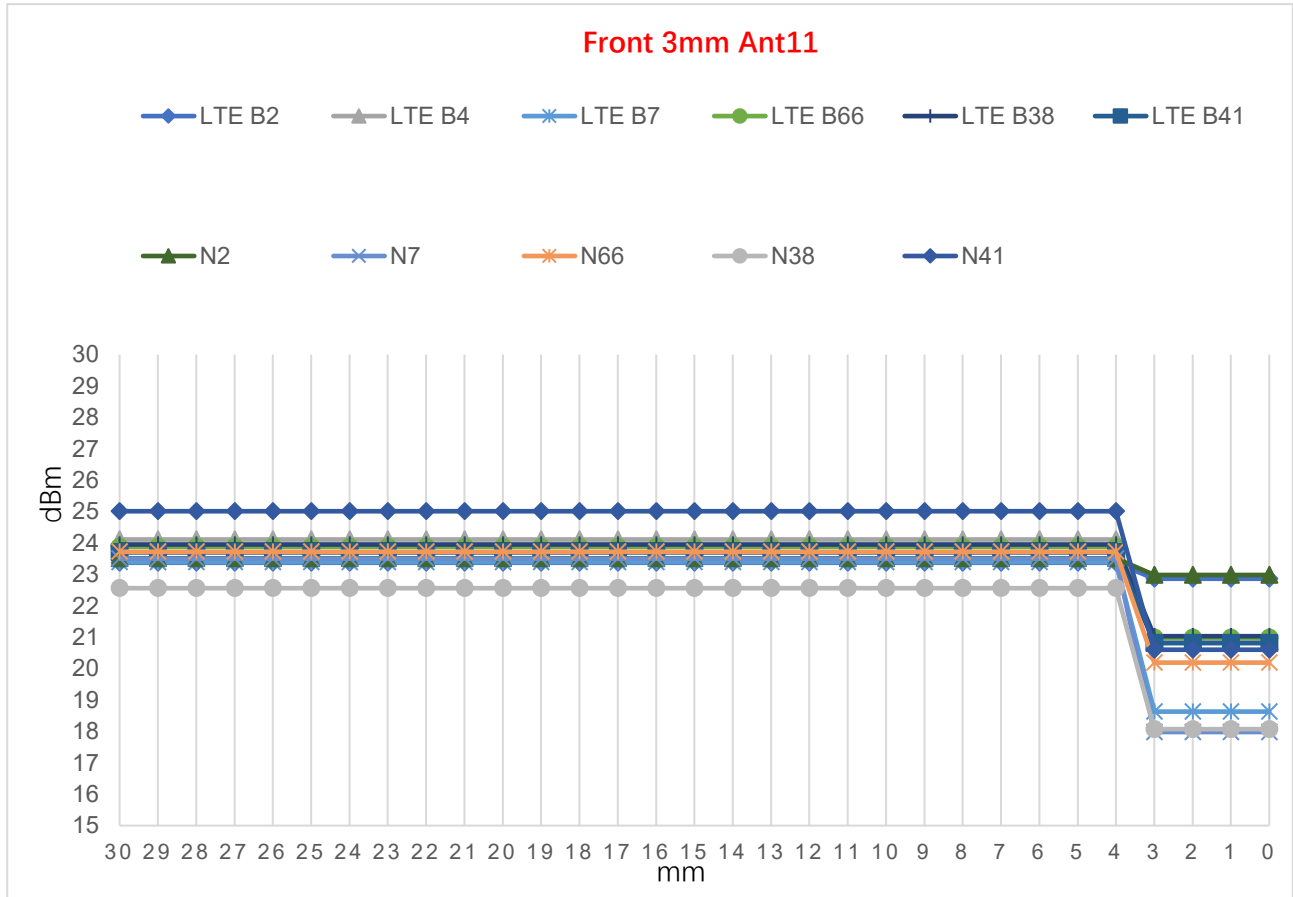


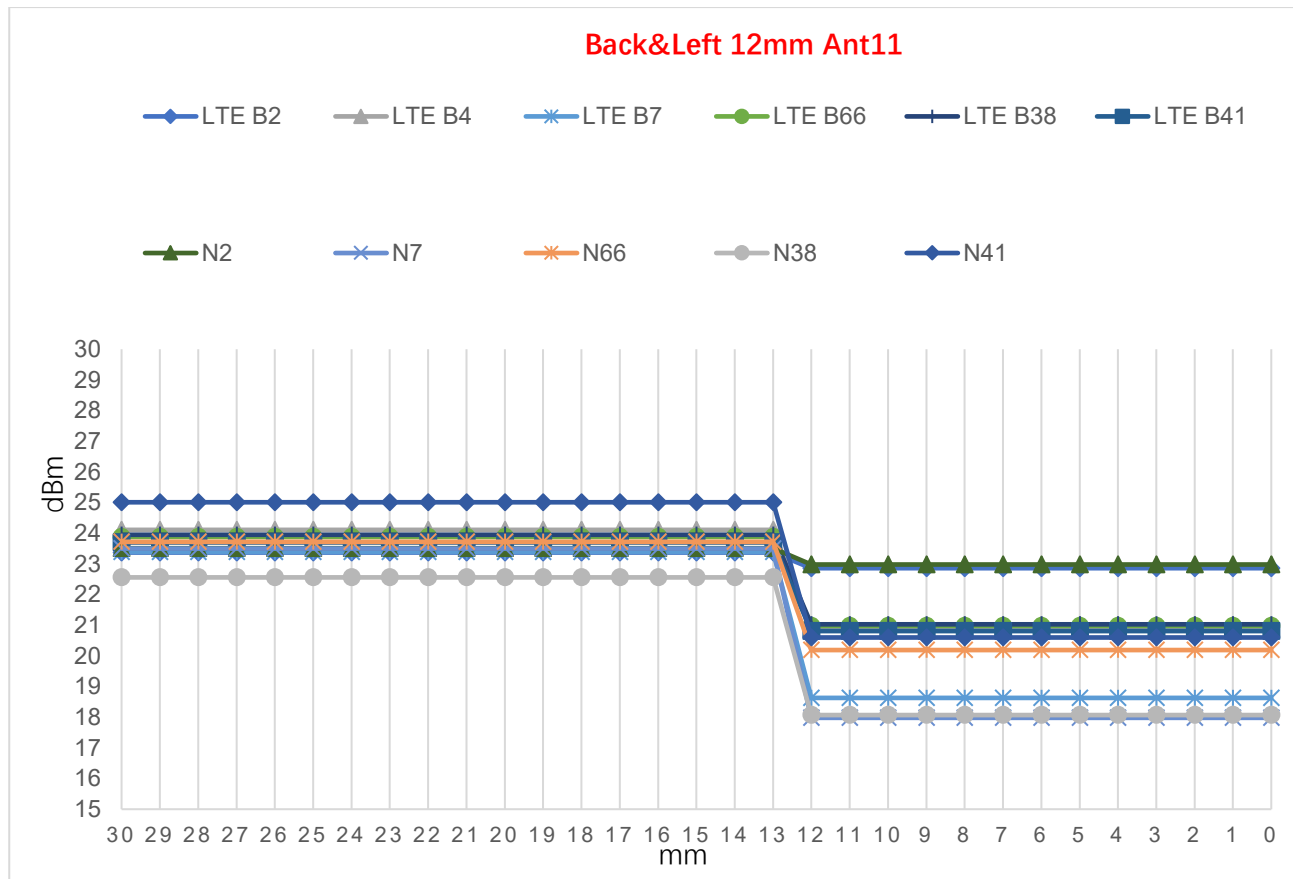
Proximity Sensor Triggering Distance(mm)		
Ant	Ant11	Ant13
Band	LTE B2/4/7/38/41/66 NR n2/7/38/41/66	GSM 1900 WCDMA B2/4 LTE B2/4/7/38/41/66 NR n2/7/38/41/66
Position	Front Side 3mm Back Side 12mm Left Side 12mm	Front Side 5mm Back Side 17mm Top Side 13mm

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.

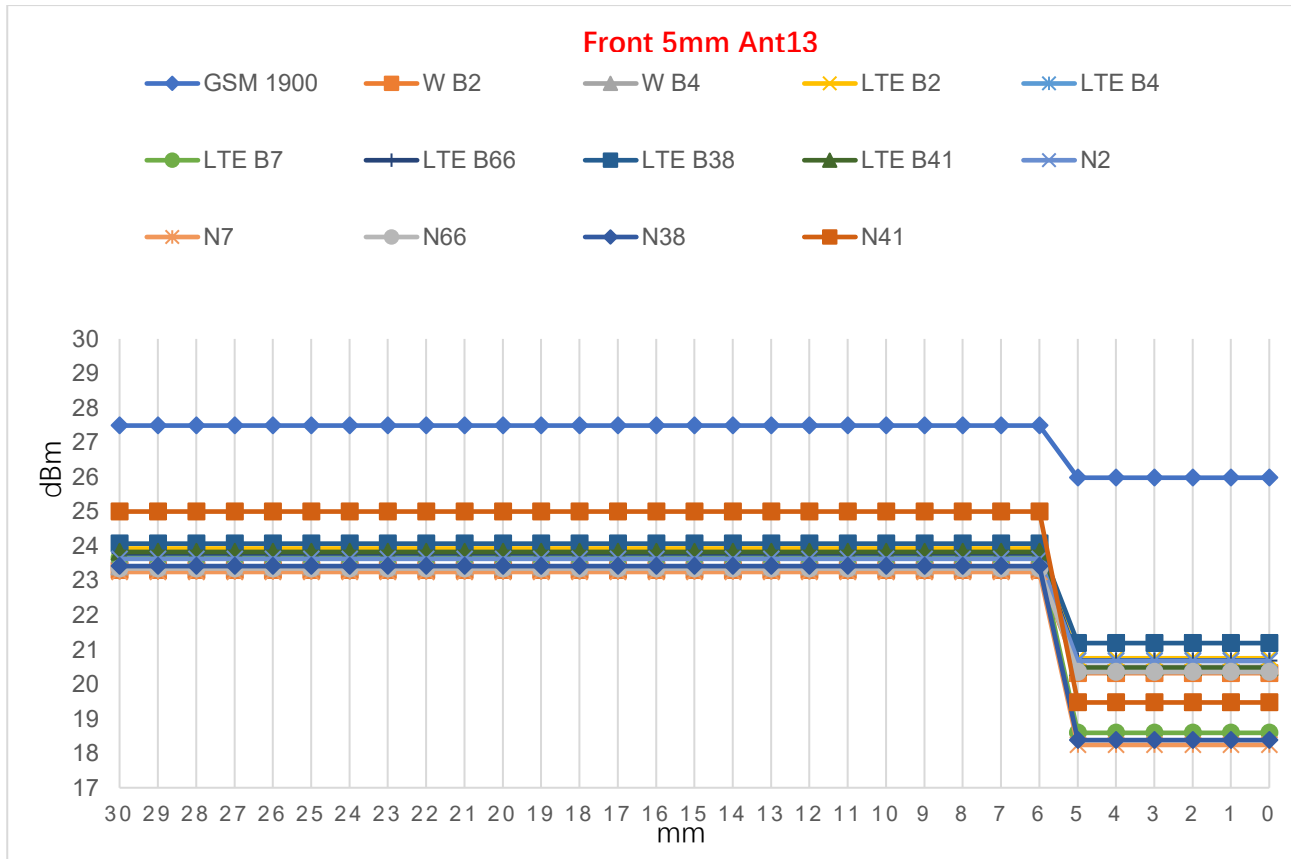
● DUT Moving Toward(Trigger)the Phantom

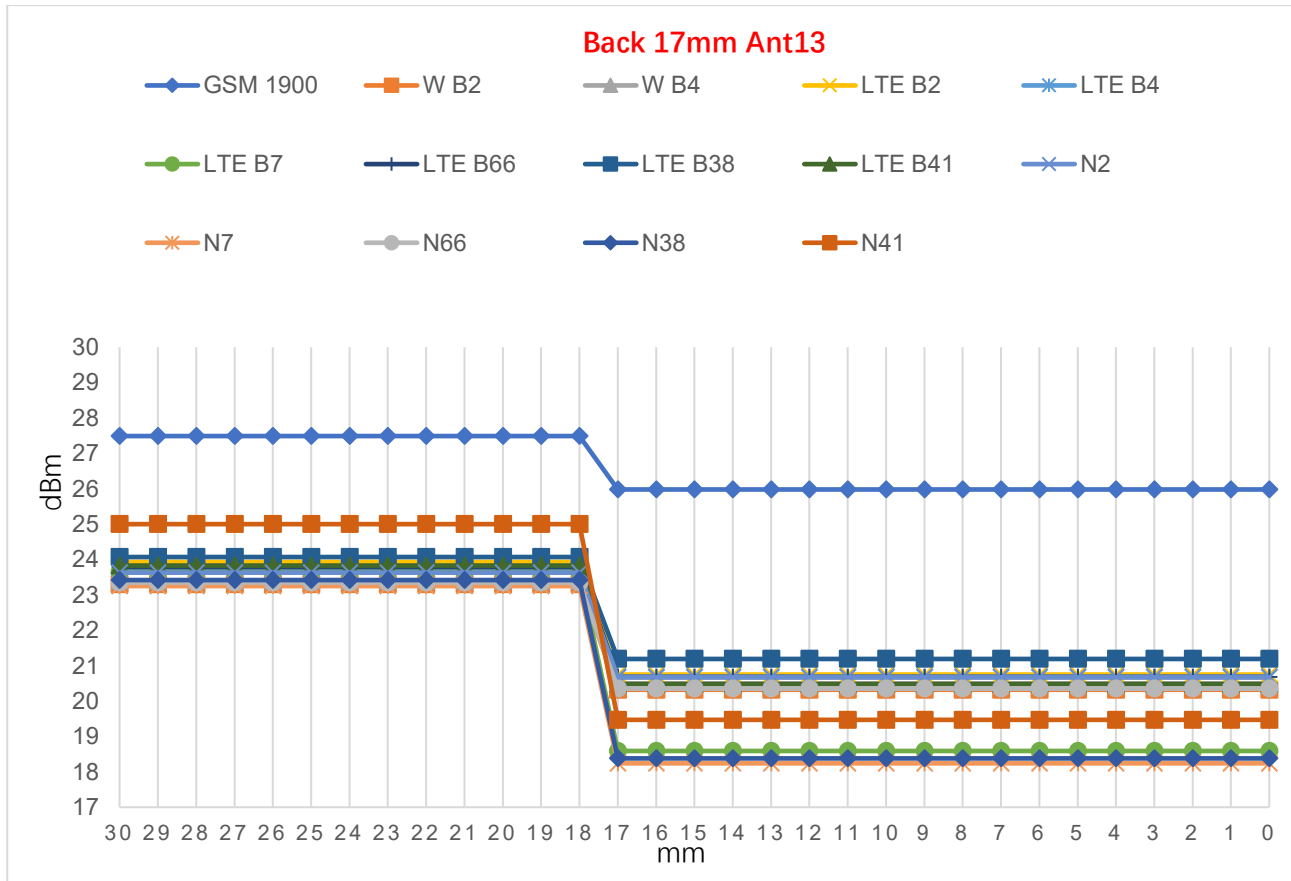




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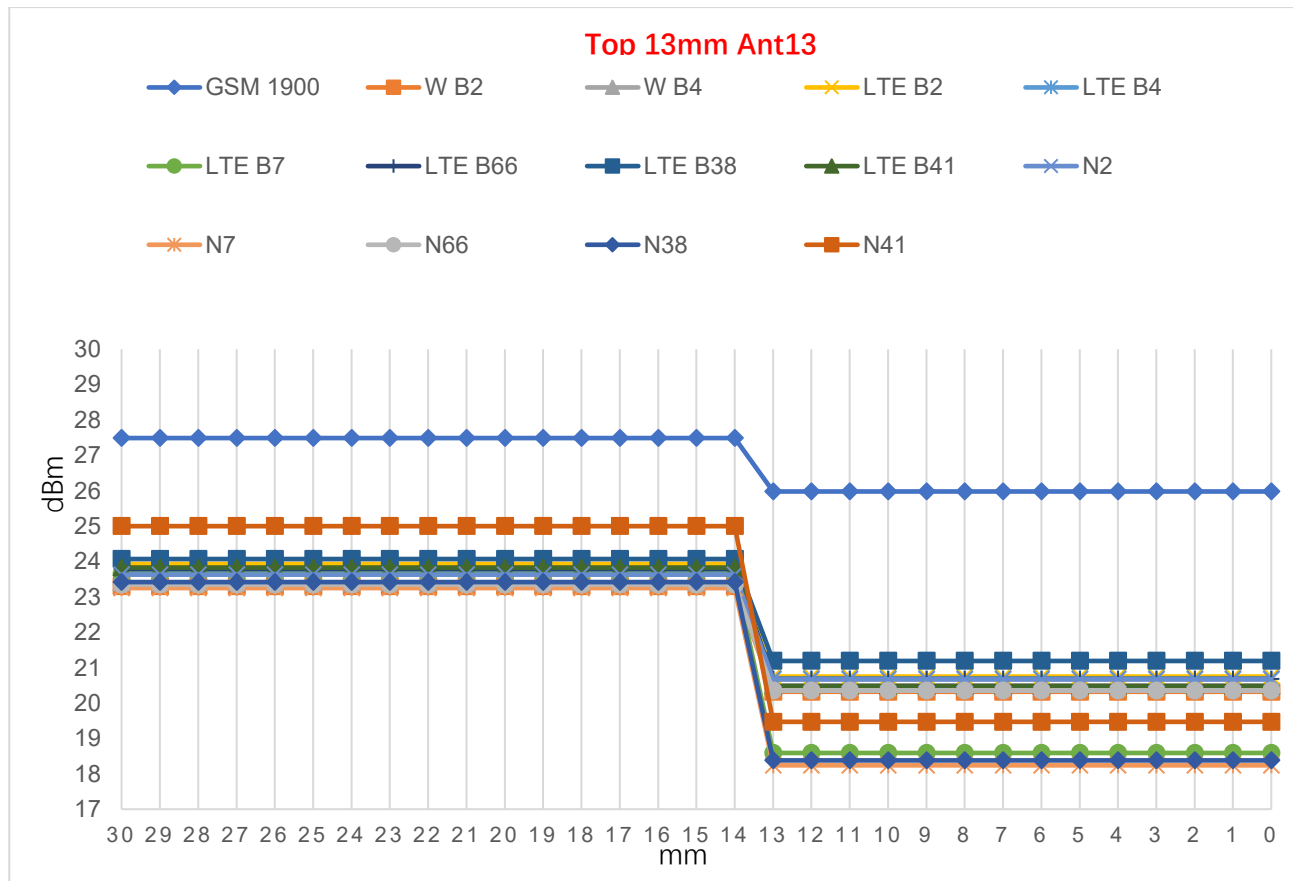


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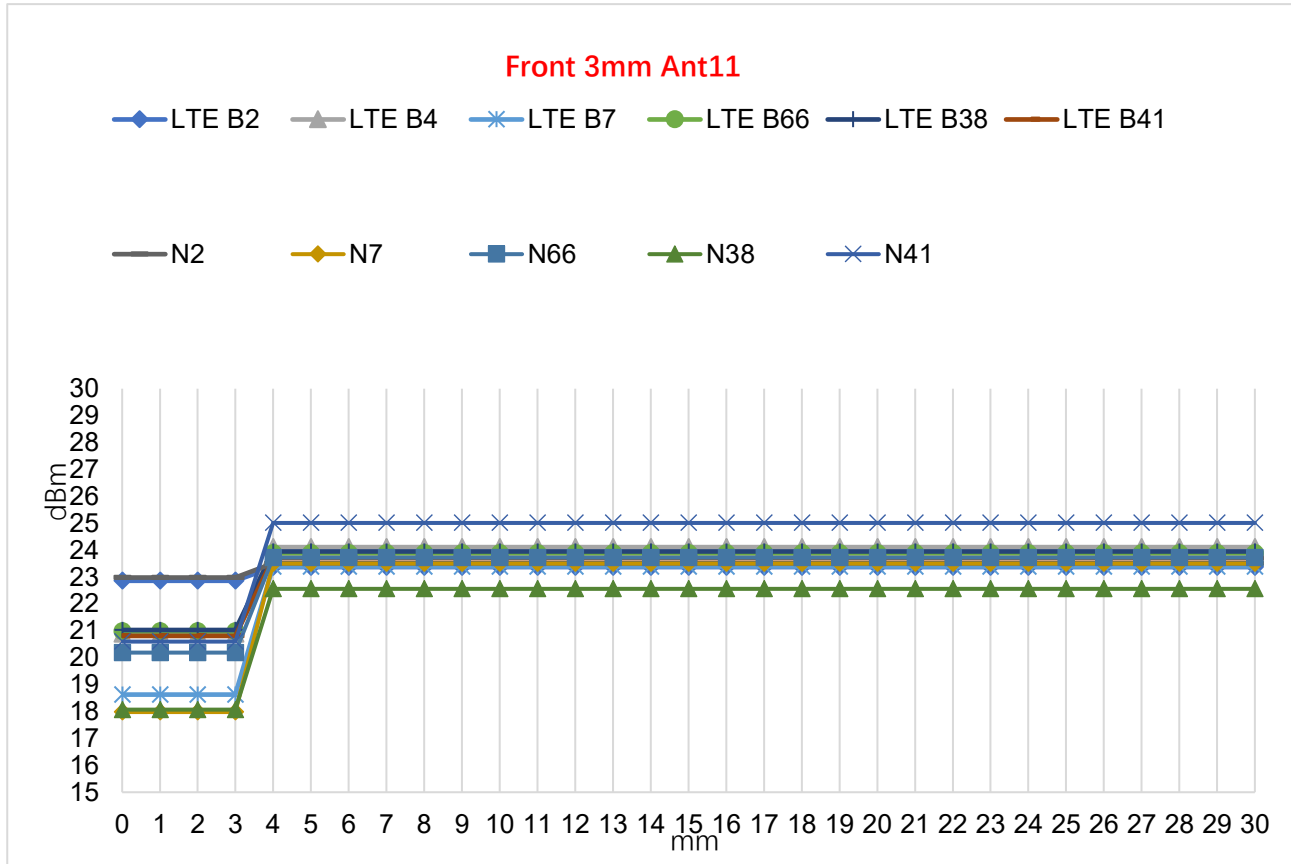
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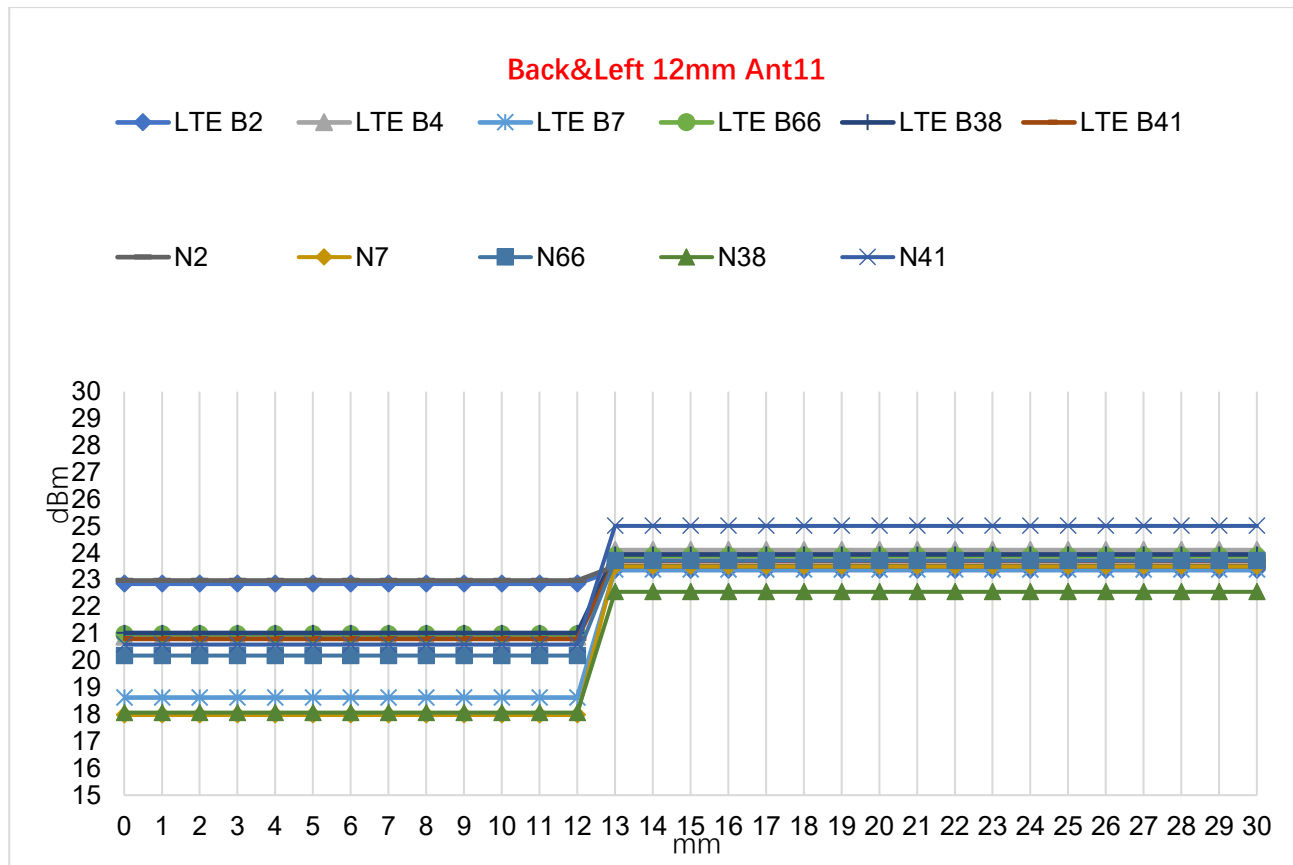
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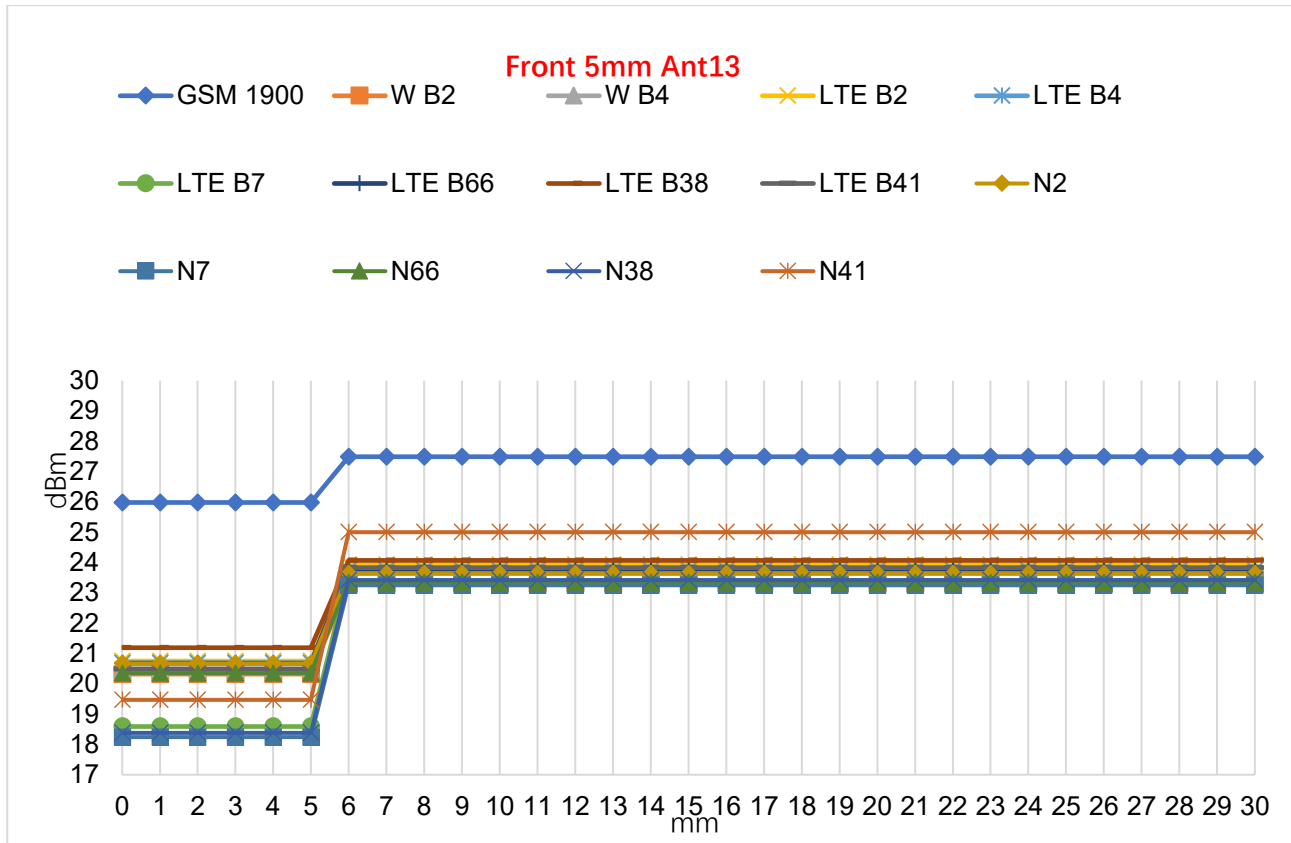
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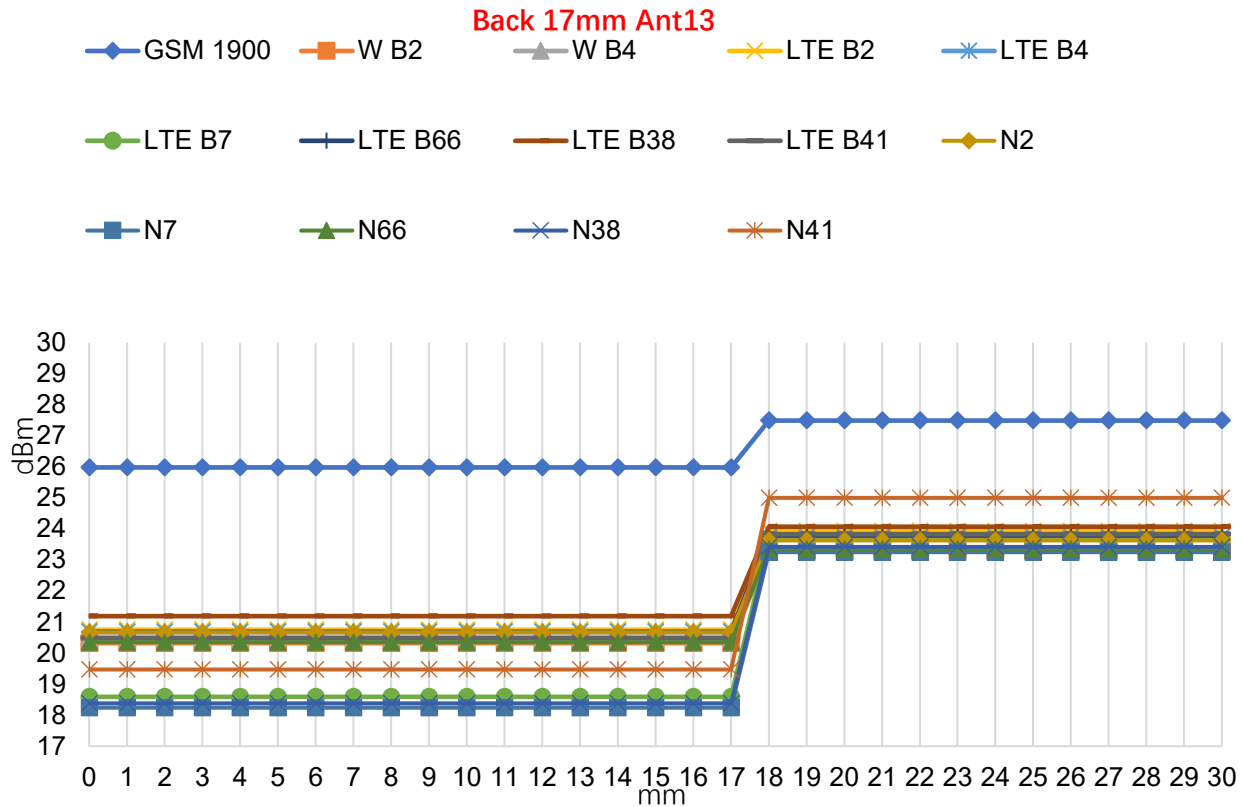


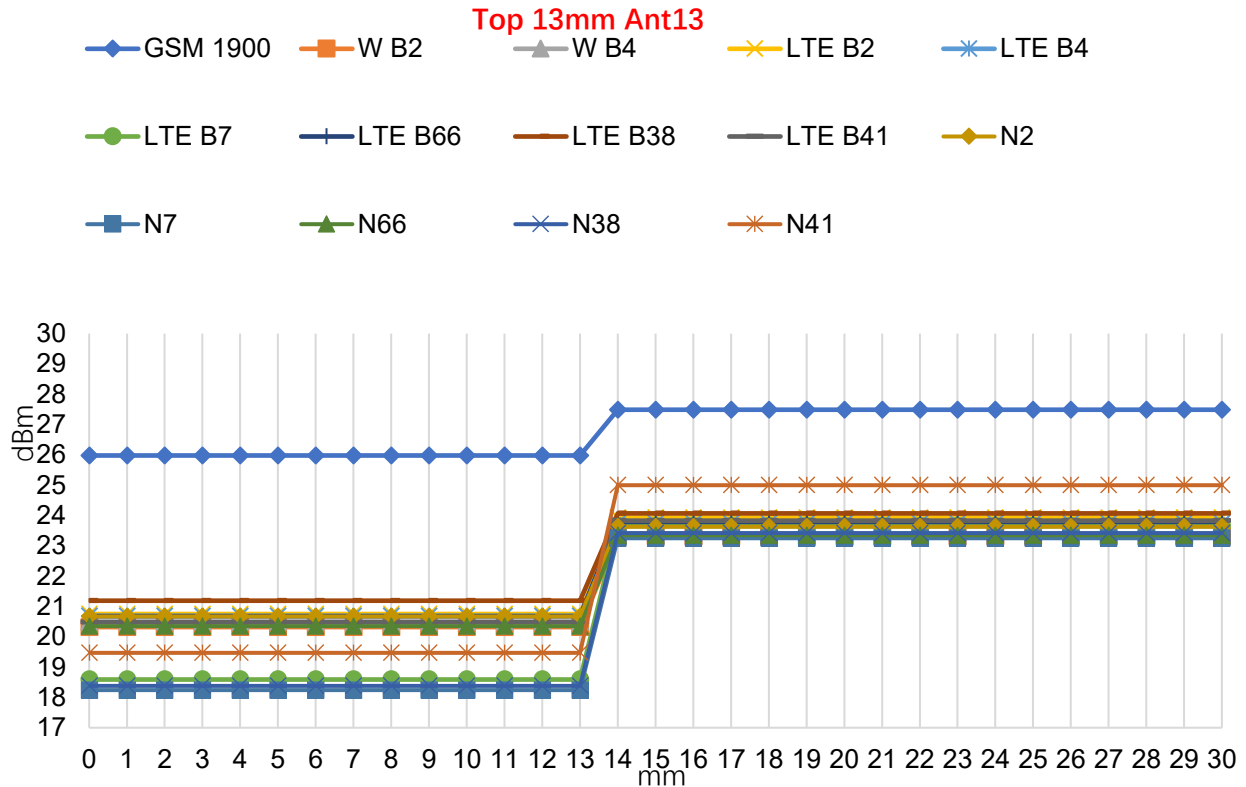
- DUT Moving Away(Release) from the Phantom











Proximity sensor coverage

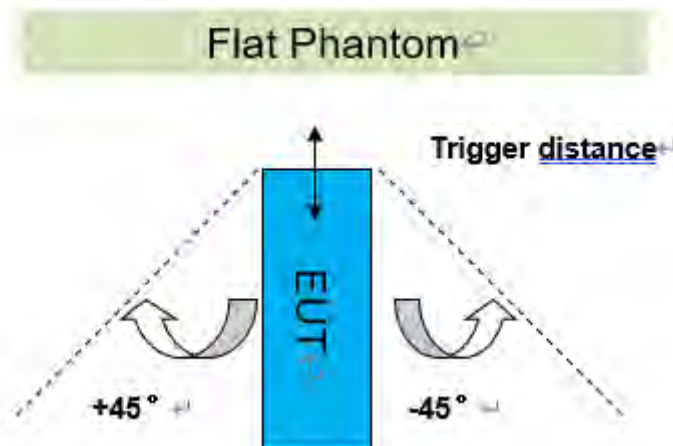
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user, but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage 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

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 11: LTE B2/4/7/38/41/66 NR n2/7/38/41/66	Left Side 12mm	Left Side 12mm	on	on	on	on	on	on	on	on	on	on	on
Ant 13: GSM 1900 WCDMA B2/4 LTE B2/4/7/38/41/66 NR n2/7/38/41/66	Top Side13mm	Top Side13mm	on	on	on	on	on	on	on	on	on	on	on

6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 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

6.1.2 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 $22 \pm 2^\circ\text{C}$.

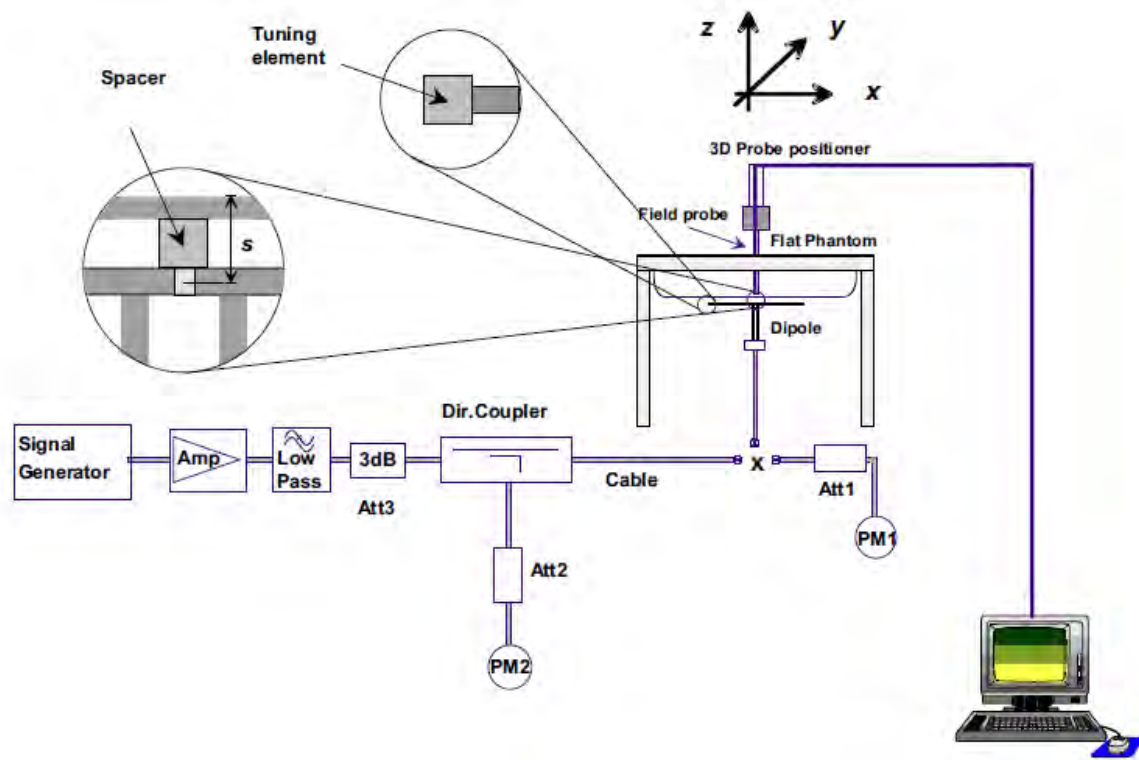
Measurement for Tissue Simulate Liquid									
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
750 Head	750	40.300	0.896	41.90	0.89	-3.82%	0.67%	22.1	2025/1/23
835 Head	835	40.700	0.909	41.50	0.90	-1.93%	1.00%	22.1	2025/2/5
835 Head	835	42.500	0.935	41.50	0.90	2.41%	3.89%	22.3	2025/2/6
835 Head	835	43.000	0.881	41.50	0.90	3.61%	-2.11%	22.3	2025/2/10
1750 Head	1750	41.900	1.340	40.10	1.37	4.49%	-2.19%	22.0	2025/2/6
1750 Head	1750	40.500	1.380	40.10	1.37	1.00%	0.73%	21.9	2025/2/7
1750 Head	1750	39.900	1.400	40.10	1.37	-0.50%	2.19%	21.7	2025/2/11
1950 Head	1950	40.100	1.420	40.00	1.40	0.25%	1.43%	21.9	2025/2/7
1950 Head	1950	39.100	1.390	40.00	1.40	-2.25%	-0.71%	21.7	2025/2/11
1950 Head	1950	40.000	1.420	40.00	1.40	0.00%	1.43%	21.6	2025/2/12
2450 Head	2450	39.100	1.820	39.20	1.80	-0.26%	1.11%	22.3	2025/2/8
2450 Head	2450	40.200	1.780	39.20	1.80	2.55%	-1.11%	22.0	2025/2/13
2600 Head	2600	38.700	1.960	39.00	1.96	-0.77%	0.00%	22.0	2025/2/9
2600 Head	2600	39.700	1.950	39.00	1.96	1.79%	-0.51%	21.7	2025/1/24
2600 Head	2600	37.700	2.000	39.00	1.96	-3.33%	2.04%	21.5	2025/2/13
3500 Head	3500	39.200	2.840	37.90	2.91	3.43%	-2.41%	22.0	2025/2/10
3700 Head	3700	38.900	2.990	37.70	3.12	3.18%	-4.17%	21.9	2025/2/11
3700 Head	3700	37.000	3.010	37.70	3.12	-1.86%	-3.53%	21.8	2025/2/12
3900 Head	3900	38.600	3.200	37.50	3.32	2.93%	-3.61%	21.9	2025/2/13
5250 Head	5250	36.600	4.650	35.90	4.71	1.95%	-1.27%	22.0	2025/2/14
5600 Head	5600	35.600	5.000	35.50	5.07	0.28%	-1.38%	22.0	2025/2/14
5750 Head	5750	35.300	5.200	35.40	5.22	-0.28%	-0.38%	22.0	2025/2/14

Table 3 : Measurement result of Tissue electric parameters



6.2 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

6.2.1 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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6.2.2 Summary System Check Result(s)

SAR System Validation 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	2.27	1.49	9.08	5.96	8.37	5.53	8.48%	7.78%	22.1	2025/1/23
D835V2	Head	2.38	1.58	9.52	6.32	9.53	6.29	-0.10%	0.48%	22.1	2025/2/5
D835V2	Head	2.32	1.53	9.28	6.12	9.53	6.29	-2.62%	-2.70%	22.3	2025/2/6
D835V2	Head	2.18	1.44	8.72	5.76	9.53	6.29	-8.50%	-8.43%	22.3	2025/2/10
D1750V2	Head	8.69	4.73	34.76	18.92	36.60	19.30	-5.03%	-1.97%	22.0	2025/2/6
D1750V2	Head	9.10	5.02	36.40	20.08	36.60	19.30	-0.55%	4.04%	21.9	2025/2/7
D1750V2	Head	9.25	5.10	37.00	20.40	36.60	19.30	1.09%	5.70%	21.7	2025/2/11
D1950V3	Head	10.80	5.54	43.20	22.16	40.50	20.80	6.67%	6.54%	21.9	2025/2/7
D1950V3	Head	10.20	5.24	40.80	20.96	40.50	20.80	0.74%	0.77%	21.7	2025/2/11
D1950V3	Head	10.90	5.60	43.60	22.40	40.50	20.80	7.65%	7.69%	21.6	2025/2/12
D2450V2	Head	12.30	5.83	49.20	23.32	52.20	24.30	-5.75%	-4.03%	22.3	2025/2/8
D2450V2	Head	12.60	6.03	50.40	24.12	52.20	24.30	-3.45%	-0.74%	22.0	2025/2/13
D2600V2	Head	14.90	6.69	59.60	26.76	57.70	25.80	3.29%	3.72%	22.0	2025/2/9
D2600V2	Head	14.40	6.63	57.60	26.52	57.70	25.80	-0.17%	2.79%	21.7	2025/1/24
D2600V2	Head	13.80	6.20	55.20	24.80	57.70	25.80	-4.33%	-3.88%	21.5	2025/2/13
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(3.5GHz)	6.19	2.42	61.90	24.20	65.80	25.70	-5.93%	-5.84%	22.0	2025/2/10
D3700V2	Head(3.7GHz)	6.18	2.35	61.80	23.50	66.10	24.70	-6.51%	-4.86%	21.9	2025/2/11
D3700V2	Head(3.7GHz)	6.94	2.62	69.40	26.20	66.10	24.70	4.99%	6.07%	21.8	2025/2/12
D3900V2	Head(3.9GHz)	6.38	2.30	63.80	23.00	66.70	23.80	-4.35%	-3.36%	21.9	2025/2/13
D5GHzV2	Head(5.25GHz)	7.34	2.17	73.40	21.70	77.30	22.10	-5.05%	-1.81%	22.0	2025/2/14
	Head(5.6GHz)	8.70	2.50	87.00	25.00	81.30	23.10	7.01%	8.23%	22.0	2025/2/14
	Head(5.75GHz)	7.86	2.31	78.60	23.10	77.10	21.30	1.95%	8.45%	22.0	2025/2/14

Table 4 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 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.

7.2 Operation Configurations

7.2.1 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 5 timeslots in downlink, the maximum total timeslot is 6. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 5 timeslots in downlink, the maximum total timeslot is 6.

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.

7.2.2 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 ¹	β_c ²	β_d ³	β_d (SF) ⁴	β_c/β_d ⁵	$\beta_{hs}(1)$ ⁶	β_{hs} ⁷	β_{ed} ⁸	β_c (SF) ⁹	β_{ed} (code) ¹⁰	CM(2) ¹¹ (dB) ¹²	MP R _x (dB) ¹³	AG ¹⁴ Index ¹⁵	E-TFC I ¹⁶
1 ¹⁷	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ¹⁸	11/15 ⁽³⁾	22/15 ¹⁹	209/225 ²⁰	1039/225 ²¹	4 ²²	1 ²³	1.0 ²⁴	0.0 ²⁵	20 ²⁶	75 ²⁷
2 ²⁸	6/15 ²⁹	15/15 ³⁰	64 ³¹	6/15 ³²	12/15 ³³	12/15 ³⁴	94/75 ³⁵	4 ³⁶	1 ³⁷	3.0 ³⁸	2.0 ³⁹	12 ⁴⁰	67 ⁴¹
3 ⁴²	15/15 ⁴³	9/15 ⁴⁴	64 ⁴⁵	15/9 ⁴⁶	30/15 ⁴⁷	30/15 ⁴⁸	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4 ⁴⁹	2 ⁵⁰	2.0 ⁵¹	1.0 ⁵²	15 ⁵³	92 ⁵⁴
4 ⁵⁵	2/15 ⁵⁶	15/15 ⁵⁷	64 ⁵⁸	2/15 ⁵⁹	4/15 ⁶⁰	2/15 ⁶¹	56/75 ⁶²	4 ⁶³	1 ⁶⁴	3.0 ⁶⁵	2.0 ⁶⁶	17 ⁶⁷	71 ⁶⁸
5 ⁶⁹	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ⁷⁰	15/15 ⁽⁴⁾	30/15 ⁷¹	24/15 ⁷²	134/15 ⁷³	4 ⁷⁴	1 ⁷⁵	1.0 ⁷⁶	0.0 ⁷⁷	21 ⁷⁸	81 ⁷⁹

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.
 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 $\beta_d = 15/15$.
 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 $\beta_d = 15/15$.
 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.
 Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

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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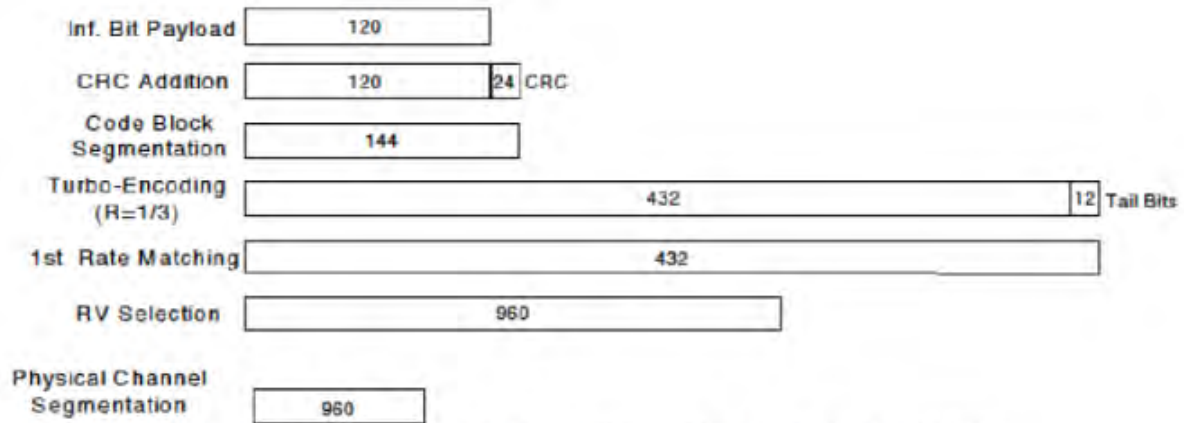


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

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, 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	β_{c+} (Note3)	β_d	β_{HS+} (Note1)	β_{ec+}	β_{ed+} (2xSF2) (Note 4)	β_{ed+} (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	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$ 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 β_c is set to 1 and $\beta_d = 0$ by default. Note 4: β_{ed} 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.											

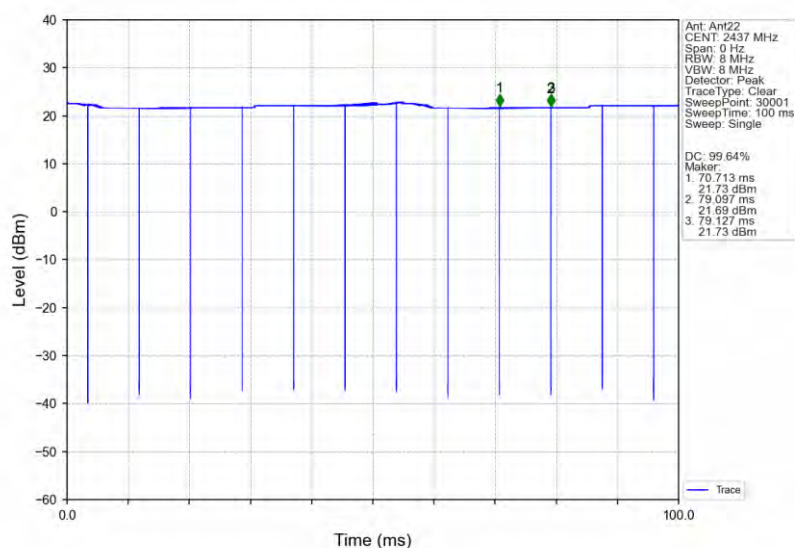
7.2.3 WIFI Test Configuration

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.

7.2.3.1 Duty cycle

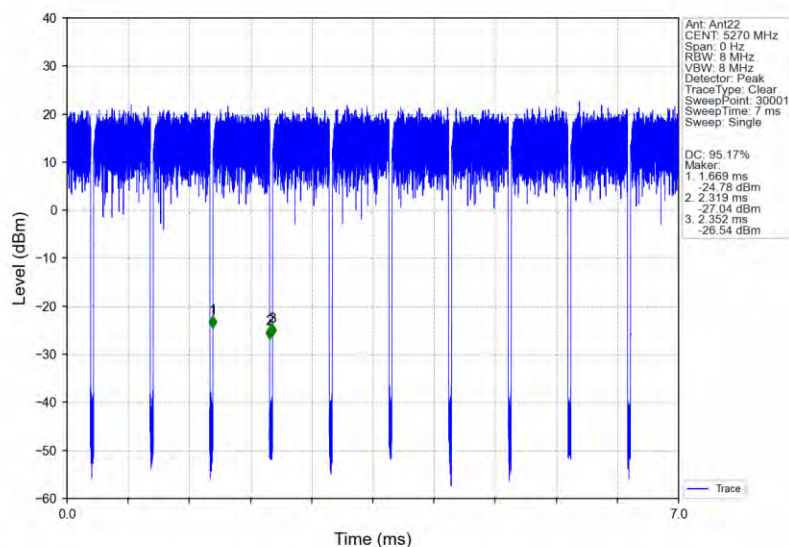
1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=99.64%



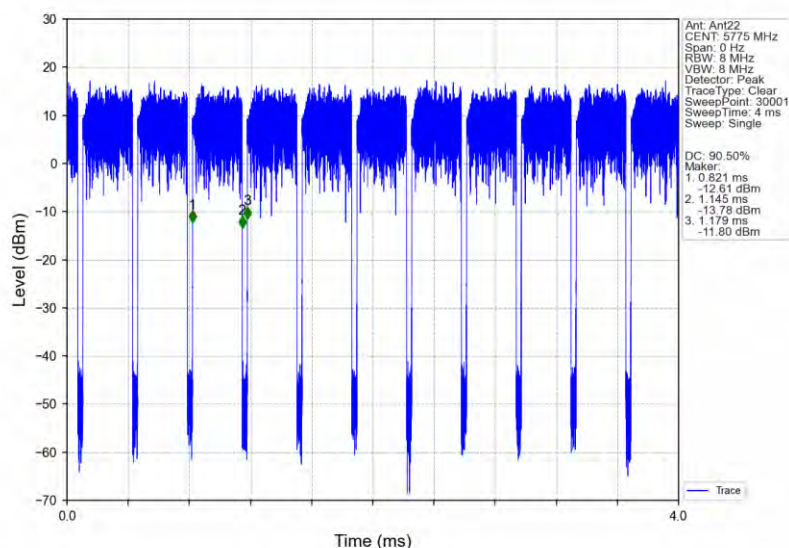
2) Wi-Fi 5GHz 802.11n40:

Duty cycle=95.17%



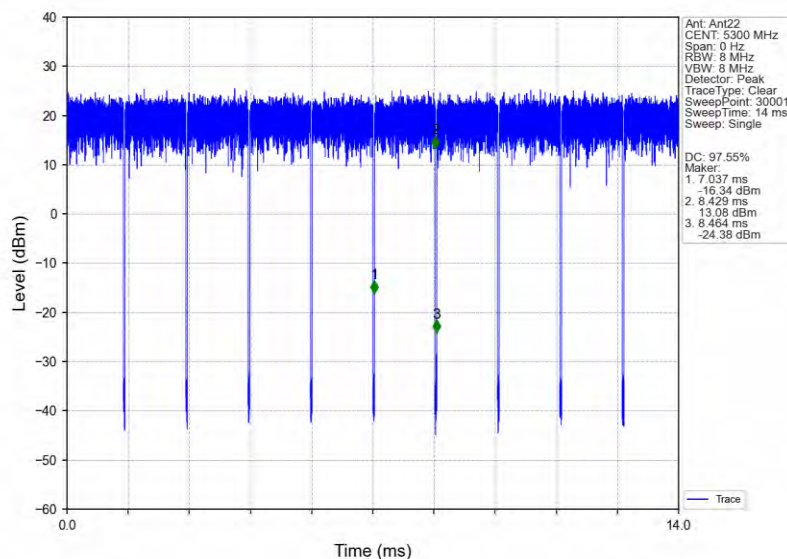
3) Wi-Fi 5GHz 802.11ac80:

Duty cycle=90.50%



4) Wi-Fi 5GHz 802.11a:

Duty cycle=97.55%



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7.2.3.2 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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7.2.3.3 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"

7.2.3.4 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.

7.2.3.5 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.



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7.2.4 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:

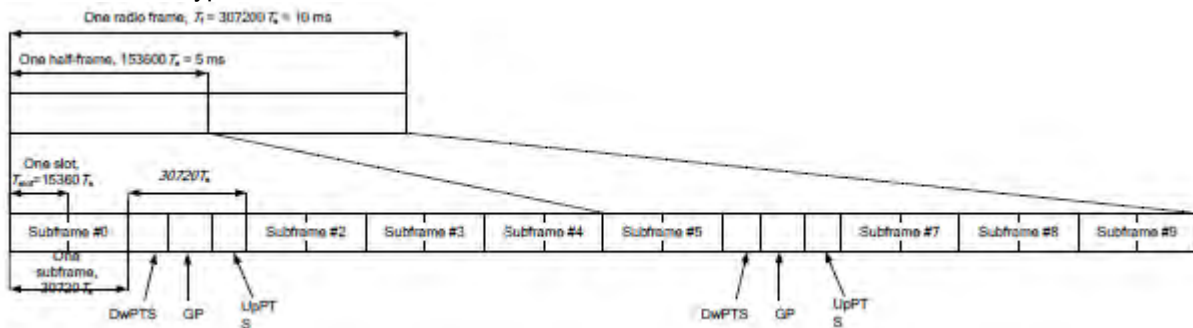


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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	4384.Ts	5120.Ts
5	6592.Ts	4384.Ts	5120.Ts	20480.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.

Modulation	Channel bandwidth/Transmission bandwidth						MPR (dB)
	1.4	3	5	10	15	20	



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	MHz	MHz	MHz	MHz	MHz	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.

- a) Intra-band carrier aggregation requirements for uplink.
- b) 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_7C
CA_38C
CA_41C
CA_66C
CA_5B
CA_7B
CA_66B
CA_2A-2A
CA_4A-4A
CA_5A-5A
CA_7A-7A
CA_41A-41A
CA_2A-4A
CA_2A-5A
CA_2A-7A
CA_2A-26A
CA_2A-38A
CA_2A-66A
CA_4A-5A
CA_4A-7A
CA_5A-7A
CA_5A-38A
CA_5A-41A
CA_5A-66A
CA_7A-26A
CA_7A-66A
CA_20A-28A
CA_26A-41A
CA_38A-66A
CA_66A-66A

Uplink LTE CA
CA_7C
CA_41C

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),

- 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

c) Inter-band carrier aggregation requirements for uplink.

For Inter band Uplink CA SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink CA SAR from standalone SAR test results of each LTE component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each Inter band Uplink CA component band as the inter-band Uplink CA SAR.

The Inter band Uplink CA as below table:

LTE Band/Antenna		B2		B4			B5	
		Ant13	Ant31	Ant13	Ant31	Ant11	Ant13	Ant31
B4	Ant11	√	√					
B5	Ant31			√		√		
B7	Ant11			√	√			
	Ant31						√	√

7.2.5 NR Band Test Configuration

1. NR Band n2/n5/n7/n26/n38/n41/n66/n77/n78 support SA mode and 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 2		LTE Band 4		LTE Band 5		LTE Band 7			LTE Band 38		LTE Band 41		LTE Band 66	
		Ant13	Ant31	Ant13	Ant31	Ant13	Ant31	Ant13	Ant31	Ant11	Ant13	Ant31	Ant13	Ant31	Ant13	Ant31
n2	Ant11			✓	✓			✓	✓						✓	✓
n5	Ant31							✓		✓						
n7	Ant11	✓	✓	✓	✓										✓	✓
n26	Ant31							✓		✓						
n38	Ant11			✓	✓										✓	✓
n41	Ant11			✓	✓										✓	✓
n66	Ant11	✓	✓			✓	✓	✓	✓							
n77	Ant11							✓	✓							
	Ant12							✓	✓							
	Ant23							✓	✓							
	Ant21							✓	✓							
n78	Ant11	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
	Ant12	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
	Ant23	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
	Ant21	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓

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

Band			n2	n5	n7	n26	n38	n41	n66	n77	n78
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Duty Cycle			100%	100%	100%	100%	100%	100%	100%	100%	100%

		Bandwidth														
NR Band	SCS kHz	5 MHz	10 MHz	15 MHz	20 MHz	25 MHz	30 MHz	35 MHz	40 MHz	45 MHz	50 MHz	60 MHz	70MHz	80 MHz	90 MHz	100 MHz
n2	15	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	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
n5	15	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	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
n7	15	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A
	30	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
n26	15	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	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
n38	15	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	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n41	15	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	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Yes	N/A	Yes	Yes	Yes
n66	15	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	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	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	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
n78	15	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	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 $> \text{not } \frac{1}{2} \text{ dB}$ higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is $\leq 1.45 \text{ W/kg}$; CP-OFDM testing is not required.
- b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not $\frac{1}{2} \text{ dB}$ higher than the same configuration in the largest supported bandwidth.
- c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are $\leq 0.8 \text{ W/kg}$. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is $> 1.45 \text{ W/kg}$, the remaining required test channels must also be tested.
- f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2} \text{ dB}$ higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg , PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2} \text{ dB}$ higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is $\leq 1.45 \text{ W/kg}$, 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 SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative "max + max" multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative "max + max" multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.

8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.

9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.



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8 Test Result

8.1 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



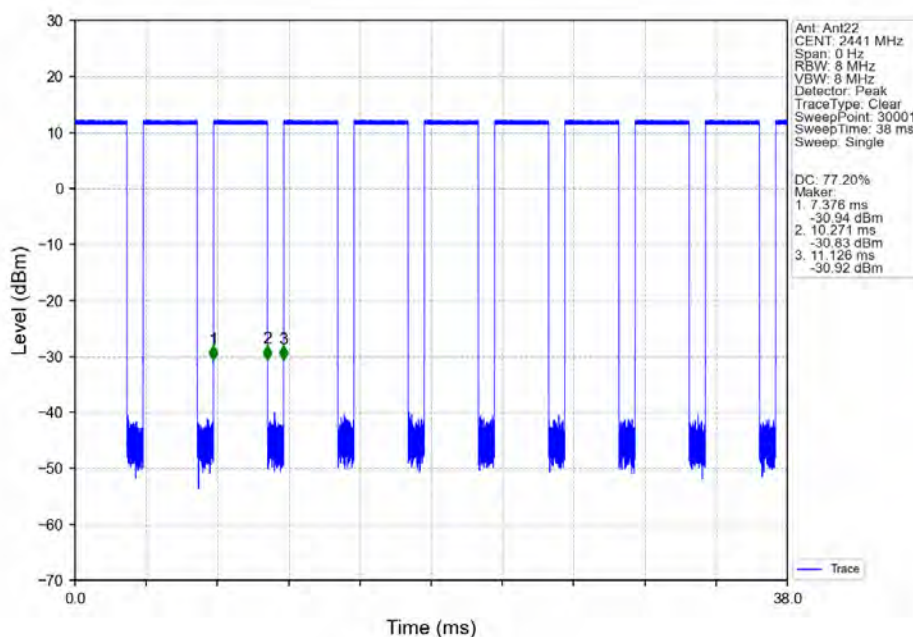
measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

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=77.20%



8.2 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.

WiFi 2.4G:

- 1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.

WiFi 5G:

- 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. As the highest reported SAR for a test configuration is $\leq 1.2\text{ W/kg}$, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.

When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.

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8.2.1 SAR Result of GSM850

GSM850 SAR Test Record											
Ant 13 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 DS12											
Left cheek	GPRS 1TS	190/836.6	1:8.3	0.415	0.263	-0.04	30.33	31.20	1.222	0.507	22.4
Left tilted	GPRS 1TS	190/836.6	1:8.3	0.384	0.227	-0.08	30.33	31.20	1.222	0.469	22.4
Right cheek	GPRS 1TS	190/836.6	1:8.3	0.412	0.261	0.13	30.33	31.20	1.222	0.503	22.4
Right tilted	GPRS 1TS	190/836.6	1:8.3	0.432	0.243	-0.02	30.33	31.20	1.222	0.528	22.4
Head Test Data DS13											
Left cheek	GPRS 1TS	190/836.6	1:8.3	0.415	0.263	-0.04	30.33	30.20	0.971	0.403	22.4
Left tilted	GPRS 1TS	190/836.6	1:8.3	0.384	0.227	-0.08	30.33	30.20	0.971	0.373	22.4
Right cheek	GPRS 1TS	190/836.6	1:8.3	0.412	0.261	0.13	30.33	30.20	0.971	0.400	22.4
Right tilted	GPRS 1TS	190/836.6	1:8.3	0.432	0.243	-0.02	30.33	30.20	0.971	0.419	22.4
Body worn Test data(Separate 15mm) DS14											
Front side	GPRS 2TS	190/836.6	1:4.15	0.118	0.075	-0.06	30.94	31.20	1.062	0.125	22.6
Back side	GPRS 2TS	190/836.6	1:4.15	0.159	0.103	0.05	30.94	31.20	1.062	0.169	22.6
Hotspot Test data(Separate 10mm) DS10											
Front side	GPRS 2TS	190/836.6	1:4.15	0.232	0.146	-0.10	30.94	31.20	1.062	0.246	22.6
Back side	GPRS 2TS	190/836.6	1:4.15	0.342	0.214	0.06	30.94	31.20	1.062	0.363	22.6
Left side	GPRS 2TS	190/836.6	1:4.15	0.099	0.064	-0.19	30.94	31.20	1.062	0.105	22.6
Top side	GPRS 2TS	190/836.6	1:4.15	0.266	0.156	0.12	30.94	31.20	1.062	0.282	22.6
Ant 31 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 DS12											
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.228	0.164	-0.06	30.91	31.20	1.069	0.244	22.4
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.142	0.085	0.10	30.91	31.20	1.069	0.152	22.4
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.178	0.129	0.17	30.91	31.20	1.069	0.190	22.4
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.095	0.052	0.19	30.91	31.20	1.069	0.102	22.4
Body worn Test data(Separate 15mm) DS14											
Front side	GPRS 2TS	190/836.6	1:4.15	0.167	0.119	0.06	30.91	31.20	1.069	0.179	22.6
Back side	GPRS 2TS	190/836.6	1:4.15	0.236	0.179	0.03	30.91	31.20	1.069	0.252	22.6
Hotspot Test data(Separate 10mm) DS10											
Front side	GPRS 2TS	190/836.6	1:4.15	0.203	0.123	0.16	30.91	31.20	1.069	0.217	22.6
Back side	GPRS 2TS	190/836.6	1:4.15	0.326	0.202	0.09	30.91	31.20	1.069	0.349	22.6
Left side	GPRS 2TS	190/836.6	1:4.15	0.203	0.132	-0.12	30.91	31.20	1.069	0.217	22.6
Right side	GPRS 2TS	190/836.6	1:4.15	0.105	0.069	0.12	30.91	31.20	1.069	0.112	22.6
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.372	0.194	0.00	30.91	31.20	1.069	0.398	22.6



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8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record											
Ant 13 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 DSI2											
Left cheek	GPRS 2TS	661/1880	1:4.15	0.392	0.231	-0.07	23.61	24.20	1.146	0.449	22.4
Left tilted	GPRS 2TS	661/1880	1:4.15	0.477	0.262	0.18	23.61	24.20	1.146	0.546	22.4
Right cheek	GPRS 2TS	661/1880	1:4.15	0.669	0.341	-0.19	23.61	24.20	1.146	0.766	22.4
Right tilted	GPRS 2TS	661/1880	1:4.15	0.729	0.347	-0.03	23.61	24.20	1.146	0.835	22.4
Right tilted	GPRS 2TS	512/1850.2	1:4.15	0.632	0.298	0.10	23.46	24.20	1.186	0.749	22.4
Right tilted	GPRS 2TS	810/1909.8	1:4.15	0.650	0.320	-0.07	23.47	24.20	1.183	0.769	22.4
Body worn Test data(Separate 15mm) DSI4											
Front side	GPRS 2TS	661/1880	1:4.15	0.212	0.124	0.00	27.49	28.70	1.321	0.280	22.6
Back side	GPRS 2TS	661/1880	1:4.15	0.385	0.220	0.06	27.49	28.70	1.321	0.509	22.6
Hotspot Test data(Separate 10mm) DSI10											
Front side	GPRS 2TS	661/1880	1:4.15	0.171	0.093	0.15	24.06	24.70	1.159	0.198	22.6
Back side	GPRS 2TS	661/1880	1:4.15	0.287	0.150	0.06	24.06	24.70	1.159	0.333	22.6
Left side	GPRS 2TS	661/1880	1:4.15	0.086	0.046	-0.13	24.06	24.70	1.159	0.100	22.6
Top side	GPRS 2TS	661/1880	1:4.15	0.337	0.166	-0.11	24.06	24.70	1.159	0.391	22.6
Ant 31 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 DSI2											
Left cheek	GPRS 2TS	661/1880	1:4.15	0.067	0.041	-0.18	28.13	28.70	1.140	0.076	22.4
Left tilted	GPRS 2TS	661/1880	1:4.15	0.048	0.031	-0.04	28.13	28.70	1.140	0.055	22.4
Right cheek	GPRS 2TS	661/1880	1:4.15	0.062	0.039	0.15	28.13	28.70	1.140	0.071	22.4
Right tilted	GPRS 2TS	661/1880	1:4.15	0.045	0.028	-0.07	28.13	28.70	1.140	0.051	22.4
Body worn Test data(Separate 15mm) DSI4											
Front side	GPRS 2TS	661/1880	1:4.15	0.079	0.048	0.00	25.95	26.70	1.189	0.094	22.6
Back side	GPRS 2TS	661/1880	1:4.15	0.159	0.096	0.01	25.95	26.70	1.189	0.189	22.6
Hotspot Test data(Separate 10mm) DSI10											
Front side	GPRS 2TS	661/1880	1:4.15	0.132	0.079	-0.07	25.95	26.70	1.189	0.157	22.6
Back side	GPRS 2TS	661/1880	1:4.15	0.386	0.215	0.17	25.95	26.70	1.189	0.459	22.6
Left side	GPRS 2TS	661/1880	1:4.15	0.056	0.024	-0.11	25.95	26.70	1.189	0.067	22.6
Right side	GPRS 2TS	661/1880	1:4.15	0.102	0.055	0.14	25.95	26.70	1.189	0.121	22.6
Bottom side	GPRS 2TS	661/1880	1:4.15	0.259	0.147	0.00	25.95	26.70	1.189	0.308	22.6



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8.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record											
Ant 13 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 DSI2											
Left cheek	RMC	9400/1880	1:1	0.352	0.197	0.10	16.38	17.20	1.208	0.425	22.4
Left tilted	RMC	9400/1880	1:1	0.404	0.220	-0.17	16.38	17.20	1.208	0.488	22.4
Right cheek	RMC	9400/1880	1:1	0.554	0.282	-0.13	16.38	17.20	1.208	0.669	22.4
Right tilted	RMC	9400/1880	1:1	0.659	0.322	-0.02	16.38	17.20	1.208	0.796	22.4
Body worn Test data(Separate 15mm) DSI4											
Front side	RMC	9400/1880	1:1	0.342	0.199	-0.17	23.30	24.20	1.230	0.421	22.6
Back side	RMC	9400/1880	1:1	0.626	0.357	-0.02	23.30	24.20	1.230	0.770	22.6
Hotspot Test data(Separate 10mm) DSI10											
Front side	RMC	9400/1880	1:1	0.211	0.113	0.15	18.39	19.20	1.205	0.254	22.4
Back side	RMC	9400/1880	1:1	0.328	0.172	-0.10	18.39	19.20	1.205	0.395	22.4
Left side	RMC	9400/1880	1:1	0.103	0.058	0.05	18.39	19.20	1.205	0.124	22.4
Top side	RMC	9400/1880	1:1	0.395	0.197	0.04	18.39	19.20	1.205	0.476	22.4
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 Sensor off DSI 4											
Back side 16mm	RMC	9400/1880	1:1	0.555	0.312	0.06	23.30	24.20	1.230	0.384	22.8
Top side 12mm	RMC	9400/1880	1:1	0.968	0.503	0.12	23.30	24.20	1.230	0.619	22.8
Product specific 10g SAR Test data (Separate 0mm) Sensor on DSI 5											
Back side	RMC	9400/1880	1:1	3.270	1.500	-0.03	20.32	21.20	1.225	1.837	22.8
Top side	RMC	9400/1880	1:1	3.640	1.530	-0.04	20.32	21.20	1.225	1.874	22.8
Ant 31 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 DSI2											
Left cheek	RMC	9400/1880	1:1	0.099	0.059	-0.06	23.12	24.20	1.282	0.127	22.4
Left tilted	RMC	9400/1880	1:1	0.051	0.031	-0.11	23.12	24.20	1.282	0.065	22.4
Right cheek	RMC	9400/1880	1:1	0.088	0.055	-0.10	23.12	24.20	1.282	0.113	22.4
Right tilted	RMC	9400/1880	1:1	0.070	0.043	-0.12	23.12	24.20	1.282	0.090	22.4
Body worn Test data(Separate 15mm) DSI4											
Front side	RMC	9400/1880	1:1	0.099	0.061	-0.04	20.65	21.70	1.274	0.126	22.6
Back side	RMC	9400/1880	1:1	0.215	0.126	0.08	20.65	21.70	1.274	0.274	22.6
Hotspot Test data(Separate 10mm) DSI10											
Front side	RMC	9400/1880	1:1	0.176	0.103	-0.13	20.65	21.70	1.274	0.224	22.6
Back side	RMC	9400/1880	1:1	0.444	0.254	0.02	20.65	21.70	1.274	0.565	22.6



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Left side	RMC	9400/1880	1:1	0.052	0.031	0.06	20.65	21.70	1.274	0.066	22.6
Right side	RMC	9400/1880	1:1	0.117	0.064	-0.17	20.65	21.70	1.274	0.149	22.6
Bottom side	RMC	9400/1880	1:1	0.328	0.185	0.12	20.65	21.70	1.274	0.418	22.6



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8.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record											
Ant 13 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 DSI2											
Left cheek	RMC	1412/1732.4	1:1	0.314	0.176	0.03	17.90	18.70	1.202	0.378	22.4
Left tilted	RMC	1412/1732.4	1:1	0.411	0.225	-0.03	17.90	18.70	1.202	0.494	22.4
Right cheek	RMC	1412/1732.4	1:1	0.530	0.262	-0.02	17.90	18.70	1.202	0.637	22.4
Right tilted	RMC	1412/1732.4	1:1	0.608	0.302	0.03	17.90	18.70	1.202	0.731	22.4
Body worn Test data(Separate 15mm) DSI4											
Front side	RMC	1412/1732.4	1:1	0.233	0.134	-0.04	23.40	24.20	1.202	0.280	22.6
Back side	RMC	1412/1732.4	1:1	0.364	0.219	0.02	23.40	24.20	1.202	0.438	22.6
Hotspot Test data(Separate 10mm) DSI10											
Front side	RMC	1412/1732.4	1:1	0.165	0.090	0.13	18.90	19.20	1.072	0.177	22.6
Back side	RMC	1412/1732.4	1:1	0.241	0.135	0.06	18.90	19.20	1.072	0.258	22.6
Left side	RMC	1412/1732.4	1:1	0.070	0.039	0.14	18.90	19.20	1.072	0.075	22.6
Top side	RMC	1412/1732.4	1:1	0.350	0.173	0.15	18.90	19.20	1.072	0.375	22.6
Ant 31 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 DSI2											
Left cheek	RMC	1412/1732.4	1:1	0.063	0.039	-0.09	23.42	24.20	1.197	0.075	22.4
Left tilted	RMC	1412/1732.4	1:1	0.021	0.011	-0.17	23.42	24.20	1.197	0.025	22.4
Right cheek	RMC	1412/1732.4	1:1	0.041	0.022	0.13	23.42	24.20	1.197	0.049	22.4
Right tilted	RMC	1412/1732.4	1:1	0.012	0.007	-0.09	23.42	24.20	1.197	0.014	22.4
Body worn Test data(Separate 15mm) DSI4											
Front side	RMC	1412/1732.4	1:1	0.084	0.052	0.12	21.02	21.70	1.169	0.098	22.6
Back side	RMC	1412/1732.4	1:1	0.174	0.105	0.08	21.02	21.70	1.169	0.203	22.6
Hotspot Test data(Separate 10mm) DSI10											
Front side	RMC	1412/1732.4	1:1	0.146	0.088	-0.06	21.02	21.70	1.169	0.171	22.6
Back side	RMC	1412/1732.4	1:1	0.361	0.205	-0.09	21.02	21.70	1.169	0.422	22.6
Left side	RMC	1412/1732.4	1:1	0.032	0.011	0.01	21.02	21.70	1.169	0.037	22.6
Right side	RMC	1412/1732.4	1:1	0.077	0.042	-0.07	21.02	21.70	1.169	0.090	22.6
Bottom side	RMC	1412/1732.4	1:1	0.497	0.285	0.01	21.02	21.70	1.169	0.581	22.6

8.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record											
Ant 13 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 DSI2											
Left cheek	RMC	4182/836.4	1:1	0.455	0.305	-0.12	22.27	23.20	1.239	0.564	22.4
Left tilted	RMC	4182/836.4	1:1	0.496	0.291	0.06	22.27	23.20	1.239	0.614	22.4
Right cheek	RMC	4182/836.4	1:1	0.606	0.382	-0.01	22.27	23.20	1.239	0.751	22.4
Right tilted	RMC	4182/836.4	1:1	0.605	0.381	0.03	22.27	23.20	1.239	0.749	22.4
Head Test Data DSI3											
Left cheek	RMC	4182/836.4	1:1	0.455	0.305	-0.12	22.27	22.20	0.984	0.448	22.4
Left tilted	RMC	4182/836.4	1:1	0.496	0.291	0.06	22.27	22.20	0.984	0.488	22.4
Right cheek	RMC	4182/836.4	1:1	0.606	0.382	-0.01	22.27	22.20	0.984	0.596	22.4
Right tilted	RMC	4182/836.4	1:1	0.605	0.381	0.03	22.27	22.20	0.984	0.595	22.4
Body worn Test data(Separate 15mm) DSI4											
Front side	RMC	4182/836.4	1:1	0.102	0.067	-0.19	23.70	24.70	1.259	0.128	22.6
Back side	RMC	4182/836.4	1:1	0.136	0.090	-0.16	23.70	24.70	1.259	0.171	22.6
Hotspot Test data(Separate 10mm) DSI10											
Front side	RMC	4182/836.4	1:1	0.195	0.120	0.13	23.70	24.70	1.259	0.245	22.6
Back side	RMC	4182/836.4	1:1	0.344	0.226	-0.06	23.70	24.70	1.259	0.433	22.6
Left side	RMC	4182/836.4	1:1	0.088	0.058	-0.15	23.70	24.70	1.259	0.111	22.6
Top side	RMC	4182/836.4	1:1	0.235	0.128	-0.10	23.70	24.70	1.259	0.296	22.6
Ant 31 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 DSI2											
Left cheek	RMC	4182/836.4	1:1	0.185	0.130	0.02	24.02	24.70	1.169	0.216	22.4
Left tilted	RMC	4182/836.4	1:1	0.109	0.080	-0.11	24.02	24.70	1.169	0.127	22.4
Right cheek	RMC	4182/836.4	1:1	0.144	0.103	0.06	24.02	24.70	1.169	0.168	22.4
Right tilted	RMC	4182/836.4	1:1	0.088	0.052	0.07	24.02	24.70	1.169	0.103	22.4
Body worn Test data(Separate 15mm) DSI4											
Front side	RMC	4182/836.4	1:1	0.131	0.095	0.05	24.02	24.70	1.169	0.153	22.6
Back side	RMC	4182/836.4	1:1	0.197	0.149	0.09	24.02	24.70	1.169	0.230	22.6
Hotspot Test data(Separate 10mm) DSI10											
Front side	RMC	4182/836.4	1:1	0.165	0.103	0.17	24.02	24.70	1.169	0.193	22.6
Back side	RMC	4182/836.4	1:1	0.264	0.159	0.12	24.02	24.70	1.169	0.309	22.6
Left side	RMC	4182/836.4	1:1	0.168	0.111	0.03	24.02	24.70	1.169	0.196	22.6
Right side	RMC	4182/836.4	1:1	0.086	0.057	0.02	24.02	24.70	1.169	0.101	22.6
Bottom side	RMC	4182/836.4	1:1	0.256	0.129	-0.13	24.02	24.70	1.169	0.299	22.6



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8.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	20	QPSK 1 0	19100/1900	1:1	0.418	0.233	0.05	16.74	17.50	1.191	0.498	22.2
Left tilted	20	QPSK 1 0	19100/1900	1:1	0.475	0.259	-0.04	16.74	17.50	1.191	0.566	22.2
Right cheek	20	QPSK 1 0	19100/1900	1:1	0.643	0.322	0.11	16.74	17.50	1.191	0.766	22.2
Right tilted	20	QPSK 1 0	19100/1900	1:1	0.666	0.330	-0.08	16.74	17.50	1.191	0.793	22.2
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 25	19100/1900	1:1	0.437	0.244	-0.14	16.85	17.50	1.161	0.508	22.2
Left tilted	20	QPSK 50 25	19100/1900	1:1	0.504	0.273	-0.09	16.85	17.50	1.161	0.585	22.2
Right cheek	20	QPSK 50 25	19100/1900	1:1	0.683	0.342	0.02	16.85	17.50	1.161	0.793	22.2
Right tilted	20	QPSK 50 25	19100/1900	1:1	0.788	0.381	-0.02	16.85	17.50	1.161	0.915	22.2
Right tilted	20	QPSK 50 0	18700/1860	1:1	0.494	0.246	-0.13	16.55	17.50	1.245	0.615	22.2
Right tilted	20	QPSK 50 50	18900/1880	1:1	0.622	0.309	-0.07	16.74	17.50	1.191	0.741	22.2
Head Test Data (100%RB) DSI2												
Right tilted	20	QPSK 100 0	19100/1900	1:1	0.698	0.345	0.15	16.83	17.50	1.167	0.814	22.2
Head Test Data (1RB) DSI3												
Left cheek	20	QPSK 1 0	19100/1900	1:1	0.418	0.233	0.05	16.74	16.00	0.843	0.353	22.2
Left tilted	20	QPSK 1 0	19100/1900	1:1	0.475	0.259	-0.04	16.74	16.00	0.843	0.401	22.2
Right cheek	20	QPSK 1 0	19100/1900	1:1	0.643	0.322	0.11	16.74	16.00	0.843	0.542	22.2
Right tilted	20	QPSK 1 0	19100/1900	1:1	0.666	0.330	-0.08	16.74	16.00	0.843	0.562	22.2
Head Test Data (50%RB) DSI3												
Left cheek	20	QPSK 50 25	19100/1900	1:1	0.437	0.244	-0.14	16.85	16.00	0.822	0.359	22.2
Left tilted	20	QPSK 50 25	19100/1900	1:1	0.504	0.273	-0.09	16.85	16.00	0.822	0.414	22.2
Right cheek	20	QPSK 50 25	19100/1900	1:1	0.683	0.342	0.02	16.85	16.00	0.822	0.562	22.2
Right tilted	20	QPSK 50 25	19100/1900	1:1	0.788	0.381	-0.02	16.85	16.00	0.822	0.648	22.2
Right tilted	20	QPSK 50 0	18700/1860	1:1	0.494	0.246	-0.13	16.55	16.00	0.881	0.435	22.2
Right tilted	20	QPSK 50 50	18900/1880	1:1	0.622	0.309	-0.07	16.74	16.00	0.843	0.525	22.2
Head Test Data (100%RB) DSI3												
Right tilted	20	QPSK 100 0	19100/1900	1:1	0.698	0.345	0.15	16.83	16.00	0.826	0.577	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	19100/1900	1:1	0.498	0.288	0.05	24.03	24.50	1.114	0.555	22.2
Back side	20	QPSK 1 50	19100/1900	1:1	0.858	0.489	0.02	24.03	24.50	1.114	0.956	22.2
Back side	20	QPSK 1 0	18700/1860	1:1	0.468	0.271	-0.07	23.59	24.50	1.233	0.577	22.2
Back side	20	QPSK 1 99	18900/1880	1:1	0.719	0.408	0.18	23.91	24.50	1.146	0.824	22.2
Back side with Repeat	20	QPSK 1 50	19100/1900	1:1	0.844	0.475	0.05	24.03	24.50	1.114	0.940	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 25	19100/1900	1:1	0.389	0.226	0.00	23.20	23.50	1.072	0.417	22.2
Back side	20	QPSK 50 25	19100/1900	1:1	0.591	0.339	-0.02	23.20	23.50	1.072	0.633	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Back side	20	QPSK 100 0	19100/1900	1:1	0.587	0.331	-0.14	23.15	23.50	1.084	0.636	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 50	19100/1900	1:1	0.293	0.159	-0.01	18.96	19.50	1.132	0.332	22.2
Back side	20	QPSK 1 50	19100/1900	1:1	0.433	0.229	-0.17	18.96	19.50	1.132	0.490	22.2
Left side	20	QPSK 1 50	19100/1900	1:1	0.142	0.082	-0.18	18.96	19.50	1.132	0.161	22.2
Top side	20	QPSK 1 50	19100/1900	1:1	0.533	0.266	0.06	18.96	19.50	1.132	0.604	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 25	19100/1900	1:1	0.286	0.158	-0.10	18.83	19.50	1.167	0.334	22.2
Back side	20	QPSK 50 25	19100/1900	1:1	0.428	0.228	0.10	18.83	19.50	1.167	0.499	22.2
Left side	20	QPSK 50 25	19100/1900	1:1	0.129	0.072	-0.13	18.83	19.50	1.167	0.151	22.2
Top side	20	QPSK 50 25	19100/1900	1:1	0.566	0.291	0.03	18.83	19.50	1.167	0.660	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 1 50	19100/1900	1:1	0.791	0.447	0.19	24.03	24.50	1.114	0.498	22.8
Top side 12mm	20	QPSK 1 50	19100/1900	1:1	1.440	0.759	-0.07	24.03	24.50	1.114	0.846	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												



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Back side 16mm	20	QPSK 50 25	19100/1900	1:1	0.621	0.350	-0.17	23.20	23.50	1.072	0.375	22.8
Top side 12mm	20	QPSK 50 25	19100/1900	1:1	1.130	0.594	-0.16	23.20	23.50	1.072	0.636	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1 99	18900/1880	1:1	3.430	1.690	-0.02	20.77	21.50	1.183	1.999	22.8
Top side	20	QPSK 1 99	18900/1880	1:1	4.080	1.610	0.16	20.77	21.50	1.183	1.905	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	20	QPSK 50 0	19100/1900	1:1	3.550	1.740	0.01	20.84	21.50	1.164	2.026	22.8
Top side	20	QPSK 50 0	19100/1900	1:1	4.380	1.850	0.06	20.84	21.50	1.164	2.154	22.8
Back side	20	QPSK 50 50	18700/1860	1:1	3.140	1.540	-0.10	20.57	21.50	1.239	1.908	22.8
Back side	20	QPSK 50 50	18900/1880	1:1	3.350	1.640	0.10	20.76	21.50	1.186	1.945	22.8
Top side	20	QPSK 50 50	18700/1860	1:1	4.240	1.650	-0.17	20.57	21.50	1.239	2.044	22.8
Top side	20	QPSK 50 50	18900/1880	1:1	4.520	1.750	-0.05	20.76	21.50	1.186	2.075	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 5												
Back side	20	QPSK 100 0	19100/1900	1:1	3.640	1.730	0.13	20.81	21.50	1.172	2.028	22.8
Top side	20	QPSK 100 0	19100/1900	1:1	4.680	1.820	-0.11	20.81	21.50	1.172	2.133	22.8
Product specific 10g SAR Test data (1RB) Sensor off DSI 9												
Back side 16mm	20	QPSK 1 50	19100/1900	1:1	0.791	0.447	0.19	24.03	19.50	0.352	0.158	22.8
Top side 12mm	20	QPSK 1 50	19100/1900	1:1	1.440	0.759	-0.07	24.03	19.50	0.352	0.267	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 9												
Back side 16mm	20	QPSK 50 25	19100/1900	1:1	0.621	0.350	-0.17	23.20	19.50	0.427	0.149	22.8
Top side 12mm	20	QPSK 50 25	19100/1900	1:1	1.130	0.594	-0.16	23.20	19.50	0.427	0.253	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 8												
Back side	20	QPSK 1 99	18900/1880	1:1	3.430	1.690	-0.02	20.77	19.50	0.746	1.261	22.8
Top side	20	QPSK 1 99	18900/1880	1:1	4.080	1.610	0.16	20.77	19.50	0.746	1.202	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 8												
Back side	20	QPSK 50 0	19100/1900	1:1	3.550	1.740	0.01	20.84	19.50	0.735	1.278	22.8
Top side	20	QPSK 50 0	19100/1900	1:1	4.380	1.850	0.06	20.84	19.50	0.735	1.359	22.8
Back side	20	QPSK 50 50	18700/1860	1:1	3.140	1.540	-0.10	20.57	19.50	0.782	1.204	22.8
Back side	20	QPSK 50 50	18900/1880	1:1	3.350	1.640	0.10	20.76	19.50	0.748	1.227	22.8
Top side	20	QPSK 50 50	18700/1860	1:1	4.240	1.650	-0.17	20.57	19.50	0.782	1.290	22.8
Top side	20	QPSK 50 50	18900/1880	1:1	4.520	1.750	-0.05	20.76	19.50	0.748	1.309	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 8												
Back side	20	QPSK 100 0	19100/1900	1:1	3.640	1.730	0.13	20.81	19.50	0.740	1.280	22.8
Top side	20	QPSK 100 0	19100/1900	1:1	4.680	1.820	-0.11	20.81	19.50	0.740	1.346	22.8
Ant 31 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) DSI2												
Left cheek	20	QPSK 1 0	19100/1900	1:1	0.104	0.064	0.18	23.80	24.50	1.175	0.122	22.2
Left tilted	20	QPSK 1 0	19100/1900	1:1	0.061	0.037	-0.07	23.80	24.50	1.175	0.072	22.2
Right cheek	20	QPSK 1 0	19100/1900	1:1	0.094	0.058	-0.08	23.80	24.50	1.175	0.110	22.2
Right tilted	20	QPSK 1 0	19100/1900	1:1	0.086	0.052	-0.03	23.80	24.50	1.175	0.101	22.2
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	19100/1900	1:1	0.085	0.052	-0.07	23.01	23.50	1.119	0.095	22.2
Left tilted	20	QPSK 50 0	19100/1900	1:1	0.043	0.027	-0.09	23.01	23.50	1.119	0.048	22.2
Right cheek	20	QPSK 50 0	19100/1900	1:1	0.075	0.046	-0.14	23.01	23.50	1.119	0.084	22.2
Right tilted	20	QPSK 50 0	19100/1900	1:1	0.070	0.042	0.19	23.01	23.50	1.119	0.078	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	18900/1880	1:1	0.104	0.064	-0.16	21.04	22.00	1.247	0.130	22.2
Back side	20	QPSK 1 50	18900/1880	1:1	0.234	0.138	-0.10	21.04	22.00	1.247	0.292	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 0	19100/1900	1:1	0.110	0.068	-0.16	21.15	22.00	1.216	0.134	22.2
Back side	20	QPSK 50 0	19100/1900	1:1	0.237	0.141	-0.12	21.15	22.00	1.216	0.288	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 50	18900/1880	1:1	0.195	0.115	-0.11	21.04	22.00	1.247	0.243	22.2
Back side	20	QPSK 1 50	18900/1880	1:1	0.469	0.265	-0.18	21.04	22.00	1.247	0.585	22.2
Left side	20	QPSK 1 50	18900/1880	1:1	0.062	0.036	0.11	21.04	22.00	1.247	0.077	22.2
Right side	20	QPSK 1 50	18900/1880	1:1	0.132	0.072	0.00	21.04	22.00	1.247	0.165	22.2
Bottom side	20	QPSK 1 50	18900/1880	1:1	0.368	0.206	0.19	21.04	22.00	1.247	0.459	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 0	19100/1900	1:1	0.181	0.110	0.02	21.15	22.00	1.216	0.220	22.2
Back side	20	QPSK 50 0	19100/1900	1:1	0.487	0.268	-0.05	21.15	22.00	1.216	0.592	22.2
Left side	20	QPSK 50 0	19100/1900	1:1	0.060	0.035	-0.11	21.15	22.00	1.216	0.073	22.2
Right side	20	QPSK 50 0	19100/1900	1:1	0.139	0.075	0.05	21.15	22.00	1.216	0.169	22.2



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Bottom side	20	QPSK 50 0	19100/1900	1:1	0.358	0.200	0.13	21.15	22.00	1.216	0.435	22.2
Ant 11 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) DSI2												
Left cheek	20	QPSK 1 0	18900/1880	1:1	0.058	0.033	0.07	22.86	23.70	1.213	0.070	22.6
Left tilted	20	QPSK 1 0	18900/1880	1:1	0.021	0.013	-0.04	22.86	23.70	1.213	0.025	22.6
Right cheek	20	QPSK 1 0	18900/1880	1:1	0.120	0.063	-0.02	22.86	23.70	1.213	0.146	22.6
Right tilted	20	QPSK 1 0	18900/1880	1:1	0.056	0.024	0.08	22.86	23.70	1.213	0.068	22.6
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	18900/1880	1:1	0.058	0.032	-0.12	22.45	23.20	1.189	0.069	22.6
Left tilted	20	QPSK 50 0	18900/1880	1:1	0.018	0.009	0.09	22.45	23.20	1.189	0.021	22.6
Right cheek	20	QPSK 50 0	18900/1880	1:1	0.116	0.062	0.06	22.45	23.20	1.189	0.138	22.6
Right tilted	20	QPSK 50 0	18900/1880	1:1	0.049	0.018	0.06	22.45	23.20	1.189	0.058	22.6
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 0	18900/1880	1:1	0.011	0.004	0.17	23.37	24.20	1.211	0.013	22.6
Back side	20	QPSK 1 0	18900/1880	1:1	0.018	0.009	0.11	23.37	24.20	1.211	0.022	22.6
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 0	18900/1880	1:1	0.004	0.002	0.06	22.51	23.20	1.172	0.005	22.6
Back side	20	QPSK 50 0	18900/1880	1:1	0.008	0.005	0.05	22.51	23.20	1.172	0.009	22.6
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 0	18900/1880	1:1	0.025	0.011	-0.03	22.50	23.20	1.175	0.029	22.6
Back side	20	QPSK 1 0	18900/1880	1:1	0.049	0.026	-0.02	22.50	23.20	1.175	0.058	22.6
Left side	20	QPSK 1 0	18900/1880	1:1	0.103	0.051	-0.14	22.50	23.20	1.175	0.121	22.6
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 0	18900/1880	1:1	0.027	0.015	-0.08	22.51	23.20	1.172	0.032	22.6
Back side	20	QPSK 50 0	18900/1880	1:1	0.053	0.029	-0.17	22.51	23.20	1.172	0.062	22.6
Left side	20	QPSK 50 0	18900/1880	1:1	0.109	0.054	-0.10	22.51	23.20	1.172	0.128	22.6
ENDC&ULCA LTE Band 2 SAR Evaluate data												
Ant 13 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) DSI2												
Left cheek	20	QPSK 1 0	19100/1900	1:1	0.418	0.233	0.05	16.74	14.50	0.597	0.250	22.2
Left tilted	20	QPSK 1 0	19100/1900	1:1	0.475	0.259	-0.04	16.74	14.50	0.597	0.284	22.2
Right cheek	20	QPSK 1 0	19100/1900	1:1	0.643	0.322	0.11	16.74	14.50	0.597	0.384	22.2
Right tilted	20	QPSK 1 0	19100/1900	1:1	0.666	0.330	-0.08	16.74	14.50	0.597	0.398	22.2
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 25	19100/1900	1:1	0.437	0.244	-0.14	16.85	14.50	0.582	0.254	22.2
Left tilted	20	QPSK 50 25	19100/1900	1:1	0.504	0.273	-0.09	16.85	14.50	0.582	0.293	22.2
Right cheek	20	QPSK 50 25	19100/1900	1:1	0.683	0.342	0.02	16.85	14.50	0.582	0.398	22.2
Right tilted	20	QPSK 50 25	19100/1900	1:1	0.788	0.381	-0.02	16.85	14.50	0.582	0.459	22.2
Right tilted	20	QPSK 50 0	18700/1860	1:1	0.494	0.246	-0.13	16.55	14.50	0.624	0.308	22.2
Right tilted	20	QPSK 50 50	18900/1880	1:1	0.622	0.309	-0.07	16.74	14.50	0.597	0.371	22.2
Head Test Data (100%RB) DSI2												
Right tilted	20	QPSK 100 0	19100/1900	1:1	0.698	0.345	0.15	16.83	14.50	0.585	0.408	22.2
Head Test Data (1RB) DSI3												
Left cheek	20	QPSK 1 0	19100/1900	1:1	0.418	0.233	0.05	16.74	13.00	0.423	0.177	22.2
Left tilted	20	QPSK 1 0	19100/1900	1:1	0.475	0.259	-0.04	16.74	13.00	0.423	0.201	22.2
Right cheek	20	QPSK 1 0	19100/1900	1:1	0.643	0.322	0.11	16.74	13.00	0.423	0.272	22.2
Right tilted	20	QPSK 1 0	19100/1900	1:1	0.666	0.330	-0.08	16.74	13.00	0.423	0.281	22.2
Head Test Data (50%RB) DSI3												
Left cheek	20	QPSK 50 25	19100/1900	1:1	0.437	0.244	-0.14	16.85	13.00	0.412	0.180	22.2
Left tilted	20	QPSK 50 25	19100/1900	1:1	0.504	0.273	-0.09	16.85	13.00	0.412	0.208	22.2
Right cheek	20	QPSK 50 25	19100/1900	1:1	0.683	0.342	0.02	16.85	13.00	0.412	0.281	22.2
Right tilted	20	QPSK 50 25	19100/1900	1:1	0.788	0.381	-0.02	16.85	13.00	0.412	0.325	22.2
Right tilted	20	QPSK 50 0	18700/1860	1:1	0.494	0.246	-0.13	16.55	13.00	0.442	0.218	22.2
Right tilted	20	QPSK 50 50	18900/1880	1:1	0.622	0.309	-0.07	16.74	13.00	0.423	0.263	22.2
Head Test Data (100%RB) DSI3												
Right tilted	20	QPSK 100 0	19100/1900	1:1	0.698	0.345	0.15	16.83	13.00	0.414	0.289	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	19100/1900	1:1	0.498	0.288	0.05	24.03	21.50	0.558	0.278	22.2
Back side	20	QPSK 1 50	19100/1900	1:1	0.858	0.489	0.02	24.03	21.50	0.558	0.479	22.2



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Back side	20	QPSK 1 0	18700/1860	1:1	0.468	0.271	-0.07	23.59	21.50	0.618	0.289	22.2
Back side	20	QPSK 1 99	18900/1880	1:1	0.719	0.408	0.18	23.91	21.50	0.574	0.413	22.2
Back side with Repeat	20	QPSK 1 50	19100/1900	1:1	0.844	0.475	0.05	24.03	21.50	0.558	0.471	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 25	19100/1900	1:1	0.389	0.226	0.00	23.20	21.50	0.676	0.263	22.2
Back side	20	QPSK 50 25	19100/1900	1:1	0.591	0.339	-0.02	23.20	21.50	0.676	0.400	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Back side	20	QPSK 100 0	19100/1900	1:1	0.587	0.331	-0.14	23.15	21.50	0.684	0.401	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 50	19100/1900	1:1	0.293	0.159	-0.01	18.96	16.50	0.568	0.166	22.2
Back side	20	QPSK 1 50	19100/1900	1:1	0.433	0.229	-0.17	18.96	16.50	0.568	0.246	22.2
Left side	20	QPSK 1 50	19100/1900	1:1	0.142	0.082	-0.18	18.96	16.50	0.568	0.081	22.2
Top side	20	QPSK 1 50	19100/1900	1:1	0.533	0.266	0.06	18.96	16.50	0.568	0.303	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 25	19100/1900	1:1	0.286	0.158	-0.10	18.83	16.50	0.585	0.167	22.2
Back side	20	QPSK 50 25	19100/1900	1:1	0.428	0.228	0.10	18.83	16.50	0.585	0.250	22.2
Left side	20	QPSK 50 25	19100/1900	1:1	0.129	0.072	-0.13	18.83	16.50	0.585	0.075	22.2
Top side	20	QPSK 50 25	19100/1900	1:1	0.566	0.291	0.03	18.83	16.50	0.585	0.331	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 1 50	19100/1900	1:1	0.791	0.447	0.19	24.03	21.50	0.558	0.250	22.8
Top side 12mm	20	QPSK 1 50	19100/1900	1:1	1.440	0.759	-0.07	24.03	21.50	0.558	0.424	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 50 25	19100/1900	1:1	0.621	0.350	-0.17	23.20	20.50	0.537	0.188	22.8
Top side 12mm	20	QPSK 50 25	19100/1900	1:1	1.130	0.594	-0.16	23.20	20.50	0.537	0.319	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1 99	18900/1880	1:1	3.430	1.690	-0.02	20.77	18.50	0.593	1.002	22.8
Top side	20	QPSK 1 99	18900/1880	1:1	4.080	1.610	0.16	20.77	18.50	0.593	0.955	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	20	QPSK 50 0	19100/1900	1:1	3.550	1.740	0.01	20.84	18.50	0.583	1.015	22.8
Top side	20	QPSK 50 0	19100/1900	1:1	4.380	1.850	0.06	20.84	18.50	0.583	1.079	22.8
Back side	20	QPSK 50 50	18700/1860	1:1	3.140	1.540	-0.10	20.57	18.50	0.621	0.956	22.8
Back side	20	QPSK 50 50	18900/1880	1:1	3.350	1.640	0.10	20.76	18.50	0.594	0.975	22.8
Top side	20	QPSK 50 50	18700/1860	1:1	4.240	1.650	-0.17	20.57	18.50	0.621	1.024	22.8
Top side	20	QPSK 50 50	18900/1880	1:1	4.520	1.750	-0.05	20.76	18.50	0.594	1.040	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 5												
Back side	20	QPSK 100 0	19100/1900	1:1	3.640	1.730	0.13	20.81	18.50	0.587	1.016	22.8
Top side	20	QPSK 100 0	19100/1900	1:1	4.680	1.820	-0.11	20.81	18.50	0.587	1.069	22.8
Product specific 10g SAR Test data (1RB) Sensor off DSI 9												
Back side 16mm	20	QPSK 1 50	19100/1900	1:1	0.791	0.447	0.19	24.03	16.50	0.177	0.079	22.8
Top side 12mm	20	QPSK 1 50	19100/1900	1:1	1.440	0.759	-0.07	24.03	16.50	0.177	0.134	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 9												
Back side 16mm	20	QPSK 50 25	19100/1900	1:1	0.621	0.350	-0.17	23.20	16.50	0.214	0.075	22.8
Top side 12mm	20	QPSK 50 25	19100/1900	1:1	1.130	0.594	-0.16	23.20	16.50	0.214	0.127	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 8												
Back side	20	QPSK 1 99	18900/1880	1:1	3.430	1.690	-0.02	20.77	16.50	0.374	0.632	22.8
Top side	20	QPSK 1 99	18900/1880	1:1	4.080	1.610	0.16	20.77	16.50	0.374	0.602	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 8												
Back side	20	QPSK 50 0	19100/1900	1:1	3.550	1.740	0.01	20.84	16.50	0.368	0.641	22.8
Top side	20	QPSK 50 0	19100/1900	1:1	4.380	1.850	0.06	20.84	16.50	0.368	0.681	22.8
Back side	20	QPSK 50 50	18700/1860	1:1	3.140	1.540	-0.10	20.57	16.50	0.392	0.603	22.8
Back side	20	QPSK 50 50	18900/1880	1:1	3.350	1.640	0.10	20.76	16.50	0.375	0.615	22.8
Top side	20	QPSK 50 50	18700/1860	1:1	4.240	1.650	-0.17	20.57	16.50	0.392	0.646	22.8
Top side	20	QPSK 50 50	18900/1880	1:1	4.520	1.750	-0.05	20.76	16.50	0.375	0.656	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 8												
Back side	20	QPSK 100 0	19100/1900	1:1	3.640	1.730	0.13	20.81	16.50	0.371	0.641	22.8
Top side	20	QPSK 100 0	19100/1900	1:1	4.680	1.820	-0.11	20.81	16.50	0.371	0.675	22.8
Ant 31 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) DSI2												



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Left cheek	20	QPSK 1 0	19100/1900	1:1	0.104	0.064	0.18	23.80	21.50	0.589	0.061	22.2
Left tilted	20	QPSK 1 0	19100/1900	1:1	0.061	0.037	-0.07	23.80	21.50	0.589	0.036	22.2
Right cheek	20	QPSK 1 0	19100/1900	1:1	0.094	0.058	-0.08	23.80	21.50	0.589	0.055	22.2
Right tilted	20	QPSK 1 0	19100/1900	1:1	0.086	0.052	-0.03	23.80	21.50	0.589	0.051	22.2
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	19100/1900	1:1	0.085	0.052	-0.07	23.01	21.50	0.706	0.060	22.2
Left tilted	20	QPSK 50 0	19100/1900	1:1	0.043	0.027	-0.09	23.01	21.50	0.706	0.030	22.2
Right cheek	20	QPSK 50 0	19100/1900	1:1	0.075	0.046	-0.14	23.01	21.50	0.706	0.053	22.2
Right tilted	20	QPSK 50 0	19100/1900	1:1	0.070	0.042	0.19	23.01	21.50	0.706	0.049	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	18900/1880	1:1	0.104	0.064	-0.16	21.04	19.00	0.625	0.065	22.2
Back side	20	QPSK 1 50	18900/1880	1:1	0.234	0.138	-0.10	21.04	19.00	0.625	0.146	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 0	19100/1900	1:1	0.110	0.068	-0.16	21.15	19.00	0.610	0.067	22.2
Back side	20	QPSK 50 0	19100/1900	1:1	0.237	0.141	-0.12	21.15	19.00	0.610	0.144	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 50	18900/1880	1:1	0.195	0.115	-0.11	21.04	19.00	0.625	0.122	22.2
Back side	20	QPSK 1 50	18900/1880	1:1	0.469	0.265	-0.18	21.04	19.00	0.625	0.293	22.2
Left side	20	QPSK 1 50	18900/1880	1:1	0.062	0.036	0.11	21.04	19.00	0.625	0.039	22.2
Right side	20	QPSK 1 50	18900/1880	1:1	0.132	0.072	0.00	21.04	19.00	0.625	0.083	22.2
Bottom side	20	QPSK 1 50	18900/1880	1:1	0.368	0.206	0.19	21.04	19.00	0.625	0.230	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 0	19100/1900	1:1	0.181	0.110	0.02	21.15	19.00	0.610	0.110	22.2
Back side	20	QPSK 50 0	19100/1900	1:1	0.487	0.268	-0.05	21.15	19.00	0.610	0.297	22.2
Left side	20	QPSK 50 0	19100/1900	1:1	0.060	0.035	-0.11	21.15	19.00	0.610	0.037	22.2
Right side	20	QPSK 50 0	19100/1900	1:1	0.139	0.075	0.05	21.15	19.00	0.610	0.085	22.2
Bottom side	20	QPSK 50 0	19100/1900	1:1	0.358	0.200	0.13	21.15	19.00	0.610	0.218	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	19100/1900	0.858	0.844	1.02	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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8.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	20	QPSK 1 0	20850/2510	1:1	0.218	0.106	0.09	17.67	18.20	1.130	0.246	22.4
Left tilted	20	QPSK 1 0	20850/2510	1:1	0.321	0.151	-0.13	17.67	18.20	1.130	0.363	22.4
Right cheek	20	QPSK 1 0	20850/2510	1:1	0.595	0.264	-0.10	17.67	18.20	1.130	0.672	22.4
Right tilted	20	QPSK 1 0	20850/2510	1:1	0.812	0.342	-0.08	17.67	18.20	1.130	0.917	22.4
Right tilted	20	QPSK 1 0	21100/2535	1:1	0.768	0.324	0.11	17.50	18.20	1.175	0.902	22.4
Right tilted	20	QPSK 1 50	21350/2560	1:1	0.771	0.332	0.09	17.49	18.20	1.178	0.908	22.4
Right tilted	20	QPSK PCC 1 99 QPSK SCC 1 0	20850/2510 21048/2529.8	1:1	0.715	0.287	0.14	17.32	18.20	1.225	0.876	22.4
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	20850/2510	1:1	0.215	0.105	-0.06	17.64	18.20	1.138	0.245	22.4
Left tilted	20	QPSK 50 0	20850/2510	1:1	0.304	0.142	-0.13	17.64	18.20	1.138	0.346	22.4
Right cheek	20	QPSK 50 0	20850/2510	1:1	0.574	0.255	0.15	17.64	18.20	1.138	0.653	22.4
Right tilted	20	QPSK 50 0	20850/2510	1:1	0.787	0.330	0.09	17.64	18.20	1.138	0.895	22.4
Right tilted	20	QPSK 50 0	21100/2535	1:1	0.778	0.328	0.08	17.53	18.20	1.167	0.908	22.4
Right tilted	20	QPSK 50 25	21350/2560	1:1	0.772	0.332	0.00	17.49	18.20	1.178	0.909	22.4
Head Test Data (100%RB) DSI2												
Right tilted	20	QPSK 100 0	20850/2510	1:1	0.789	0.330	-0.06	17.63	18.20	1.140	0.900	22.4
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 0	21350/2560	1:1	0.226	0.118	0.14	23.55	24.20	1.161	0.262	22.2
Back side	20	QPSK 1 0	21350/2560	1:1	0.632	0.306	0.05	23.55	24.20	1.161	0.734	22.2
Back side	20	QPSK PCC 1 0 QPSK SCC 1 99	21350/2560 21152/2540.2	1:1	0.557	0.242	-0.07	23.29	24.20	1.233	0.687	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 0	21350/2560	1:1	0.179	0.093	0.09	22.56	23.20	1.159	0.207	22.2
Back side	20	QPSK 50 0	21350/2560	1:1	0.525	0.246	0.16	22.56	23.20	1.159	0.608	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 0	20850/2510	1:1	0.102	0.049	0.11	17.12	17.70	1.143	0.117	22.2
Back side	20	QPSK 1 0	20850/2510	1:1	0.353	0.155	0.03	17.12	17.70	1.143	0.403	22.2
Left side	20	QPSK 1 0	20850/2510	1:1	0.054	0.029	-0.04	17.12	17.70	1.143	0.062	22.2
Top side	20	QPSK 1 0	20850/2510	1:1	0.401	0.181	-0.14	17.12	17.70	1.143	0.458	22.2
Top side	20	QPSK PCC 1 99 QPSK SCC 1 0	20850/2510 21048/2529.8	1:1	0.352	0.159	0.13	16.85	17.70	1.216	0.428	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 0	20850/2510	1:1	0.099	0.048	-0.06	17.08	17.70	1.153	0.114	22.2
Back side	20	QPSK 50 0	20850/2510	1:1	0.342	0.151	0.18	17.08	17.70	1.153	0.394	22.2
Left side	20	QPSK 50 0	20850/2510	1:1	0.057	0.029	0.15	17.08	17.70	1.153	0.066	22.2
Top side	20	QPSK 50 0	20850/2510	1:1	0.403	0.179	0.10	17.08	17.70	1.153	0.465	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 1 0	21350/2560	1:1	0.711	0.328	0.02	23.55	24.20	1.161	0.381	22.8
Top side 12mm	20	QPSK 1 0	21350/2560	1:1	1.540	0.693	0.17	23.55	24.20	1.161	0.805	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 50 0	21350/2560	1:1	0.551	0.255	-0.15	22.56	23.20	1.159	0.295	22.8
Top side 12mm	20	QPSK 50 0	21350/2560	1:1	1.220	0.545	-0.17	22.56	23.20	1.159	0.632	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1 0	20850/2510	1:1	3.380	1.340	-0.09	18.67	19.20	1.130	1.514	22.8
Top side	20	QPSK 1 0	20850/2510	1:1	4.600	1.690	0.14	18.67	19.20	1.130	1.909	22.8
Top side	20	QPSK PCC 1 99 QPSK SCC 1 0	20850/2510 21048/2529.8	1:1	4.230	1.550	0.03	18.33	19.20	1.222	1.894	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	20	QPSK 50 0	20850/2510	1:1	3.100	1.250	0.00	18.66	19.20	1.132	1.416	22.8
Top side	20	QPSK 50 0	20850/2510	1:1	4.680	1.720	0.15	18.66	19.20	1.132	1.948	22.8
Ant 31 Test Record												



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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 SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI2												
Left cheek	20	QPSK 1 50	21350/2560	1:1	0.261	0.153	0.16	24.02	24.20	1.042	0.272	22.2
Left tilted	20	QPSK 1 50	21350/2560	1:1	0.157	0.088	-0.17	24.02	24.20	1.042	0.164	22.2
Right cheek	20	QPSK 1 50	21350/2560	1:1	0.461	0.256	0.06	24.02	24.20	1.042	0.481	22.2
Right tilted	20	QPSK 1 50	21350/2560	1:1	0.240	0.125	0.17	24.02	24.20	1.042	0.250	22.2
Right cheek	20	QPSK PCC 1 0 QPSK SCC 1 99	21350/2560 21152/2540.2	1:1	0.405	0.225	0.12	23.69	24.20	1.125	0.455	22.2
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	21350/2560	1:1	0.203	0.110	-0.14	23.10	23.20	1.023	0.208	22.2
Left tilted	20	QPSK 50 0	21350/2560	1:1	0.124	0.070	-0.17	23.10	23.20	1.023	0.127	22.2
Right cheek	20	QPSK 50 0	21350/2560	1:1	0.372	0.207	0.03	23.10	23.20	1.023	0.381	22.2
Right tilted	20	QPSK 50 0	21350/2560	1:1	0.187	0.098	-0.07	23.10	23.20	1.023	0.191	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	21350/2560	1:1	0.194	0.106	-0.11	22.13	22.20	1.016	0.197	22.2
Back side	20	QPSK 1 50	21350/2560	1:1	0.220	0.122	-0.13	22.13	22.20	1.016	0.224	22.2
Back side	20	QPSK PCC 1 0 QPSK SCC 1 99	21350/2560 21152/2540.2	1:1	0.195	0.112	0.04	21.66	22.20	1.132	0.221	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 0	21350/2560	1:1	0.190	0.104	0.00	22.07	22.20	1.030	0.196	22.2
Back side	20	QPSK 50 0	21350/2560	1:1	0.221	0.122	0.11	22.07	22.20	1.030	0.228	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 50	21350/2560	1:1	0.361	0.198	0.06	22.13	22.20	1.016	0.367	22.2
Back side	20	QPSK 1 50	21350/2560	1:1	0.434	0.233	0.13	22.13	22.20	1.016	0.441	22.2
Left side	20	QPSK 1 50	21350/2560	1:1	0.038	0.020	0.02	22.13	22.20	1.016	0.039	22.2
Right side	20	QPSK 1 50	21350/2560	1:1	0.323	0.173	0.11	22.13	22.20	1.016	0.328	22.2
Bottom side	20	QPSK 1 50	21350/2560	1:1	0.267	0.128	-0.09	22.13	22.20	1.016	0.271	22.2
Back side	20	QPSK PCC 1 0 QPSK SCC 1 99	21350/2560 21152/2540.2	1:1	0.375	0.205	0.14	21.66	22.20	1.132	0.425	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 0	21350/2560	1:1	0.372	0.201	0.19	22.07	22.20	1.030	0.383	22.2
Back side	20	QPSK 50 0	21350/2560	1:1	0.453	0.240	-0.13	22.07	22.20	1.030	0.467	22.2
Left side	20	QPSK 50 0	21350/2560	1:1	0.042	0.021	-0.18	22.07	22.20	1.030	0.043	22.2
Right side	20	QPSK 50 0	21350/2560	1:1	0.318	0.171	-0.15	22.07	22.20	1.030	0.328	22.2
Bottom side	20	QPSK 50 0	21350/2560	1:1	0.272	0.130	0.13	22.07	22.20	1.030	0.280	22.2
Ant 11 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) DSI2												
Left cheek	20	QPSK 1 99	21100/2535	1:1	0.462	0.222	0.15	18.84	19.70	1.219	0.563	22.4
Left tilted	20	QPSK 1 99	21100/2535	1:1	0.085	0.045	-0.12	18.84	19.70	1.219	0.104	22.4
Right cheek	20	QPSK 1 99	21100/2535	1:1	0.712	0.303	-0.02	18.84	19.70	1.219	0.868	22.4
Right tilted	20	QPSK 1 99	21100/2535	1:1	0.143	0.080	0.14	18.84	19.70	1.219	0.174	22.4
Right cheek	20	QPSK 1 0	20850/2510	1:1	0.415	0.177	-0.14	18.64	19.70	1.276	0.530	22.4
Right cheek	20	QPSK 1 99	21350/2560	1:1	0.778	0.314	-0.12	18.83	19.70	1.222	0.951	22.4
Right cheek	20	QPSK PCC 1 0 QPSK SCC 1 99	21350/2560 21152/2540.2	1:1	0.741	0.309	-0.15	18.79	19.70	1.233	0.914	22.4
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	21350/2560	1:1	0.462	0.215	0.05	18.92	19.70	1.197	0.553	22.4
Left tilted	20	QPSK 50 0	21350/2560	1:1	0.090	0.047	-0.19	18.92	19.70	1.197	0.108	22.4
Right cheek	20	QPSK 50 0	21350/2560	1:1	0.776	0.329	0.16	18.92	19.70	1.197	0.929	22.4
Right tilted	20	QPSK 50 0	21350/2560	1:1	0.133	0.073	0.09	18.92	19.70	1.197	0.159	22.4
Right cheek	20	QPSK 50 25	20850/2510	1:1	0.473	0.201	-0.10	18.67	19.70	1.268	0.600	22.4
Right cheek	20	QPSK 50 50	21100/2535	1:1	0.676	0.287	0.07	18.82	19.70	1.225	0.828	22.4
Head Test Data (100%RB) DSI2												
Right cheek	20	QPSK 100 0	21350/2560	1:1	0.794	0.337	0.14	18.93	19.70	1.194	0.948	22.4
Head Test Data (1RB) DSI3												
Left cheek	20	QPSK 1 99	21100/2535	1:1	0.462	0.222	0.15	18.84	18.70	0.968	0.447	22.4
Left tilted	20	QPSK 1 99	21100/2535	1:1	0.085	0.045	-0.12	18.84	18.70	0.968	0.082	22.4
Right cheek	20	QPSK 1 99	21100/2535	1:1	0.712	0.303	-0.02	18.84	18.70	0.968	0.689	22.4
Right tilted	20	QPSK 1 99	21100/2535	1:1	0.143	0.080	0.14	18.84	18.70	0.968	0.138	22.4
Right cheek	20	QPSK 1 0	20850/2510	1:1	0.415	0.177	-0.14	18.64	18.70	1.014	0.421	22.4



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Right cheek	20	QPSK 1 99	21350/2560	1:1	0.778	0.314	-0.12	18.83	18.70	0.971	0.755	22.4
Right cheek	20	QPSK PCC 1 0	21350/2560	1:1	0.741	0.309	-0.15	18.79	18.70	0.979	0.726	22.4
		QPSK SCC 1 99	21152/2540.2	1:1								
Head Test Data (50%RB) DSI3												
Left cheek	20	QPSK 50 0	21350/2560	1:1	0.462	0.215	0.05	18.92	18.70	0.951	0.439	22.4
Left tilted	20	QPSK 50 0	21350/2560	1:1	0.090	0.047	-0.19	18.92	18.70	0.951	0.086	22.4
Right cheek	20	QPSK 50 0	21350/2560	1:1	0.776	0.329	0.16	18.92	18.70	0.951	0.738	22.4
Right tilted	20	QPSK 50 0	21350/2560	1:1	0.133	0.073	0.09	18.92	18.70	0.951	0.126	22.4
Right cheek	20	QPSK 50 25	20850/2510	1:1	0.473	0.201	-0.10	18.67	18.70	1.007	0.476	22.4
Right cheek	20	QPSK 50 50	21100/2535	1:1	0.676	0.287	0.07	18.82	18.70	0.973	0.658	22.4
Head Test Data (100%RB) DSI3												
Right cheek	20	QPSK 100 0	21350/2560	1:1	0.794	0.337	0.14	18.93	18.70	0.948	0.753	22.4
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	21350/2560	1:1	0.264	0.133	-0.09	23.39	24.20	1.205	0.318	22.6
Back side	20	QPSK 1 50	21350/2560	1:1	0.587	0.286	0.00	23.39	24.20	1.205	0.707	22.6
Back side	20	QPSK PCC 1 0	21350/2560	1:1	0.575	0.275	-0.14	23.41	24.20	1.199	0.690	22.6
		QPSK SCC 1 99	21152/2540.2	1:1								
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 25	21350/2560	1:1	0.204	0.095	-0.02	22.48	23.20	1.180	0.241	22.6
Back side	20	QPSK 50 25	21350/2560	1:1	0.469	0.227	0.19	22.48	23.20	1.180	0.554	22.6
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 50	21350/2560	1:1	0.104	0.049	-0.07	16.43	17.20	1.194	0.124	22.6
Back side	20	QPSK 1 50	21350/2560	1:1	0.251	0.112	-0.07	16.43	17.20	1.194	0.300	22.6
Left side	20	QPSK 1 50	21350/2560	1:1	0.371	0.156	0.05	16.43	17.20	1.194	0.443	22.6
Left side	20	QPSK PCC 1 0	21350/2560	1:1	0.345	0.135	0.14	16.59	17.20	1.151	0.397	22.6
		QPSK SCC 1 99	21152/2540.2	1:1								
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 25	21350/2560	1:1	0.109	0.050	0.18	16.44	17.20	1.191	0.130	22.6
Back side	20	QPSK 50 25	21350/2560	1:1	0.240	0.108	-0.14	16.44	17.20	1.191	0.286	22.6
Left side	20	QPSK 50 25	21350/2560	1:1	0.373	0.156	0.19	16.44	17.20	1.191	0.444	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 11mm	20	QPSK 1 50	21350/2560	1:1	1.410	0.605	-0.17	23.39	24.20	1.205	0.729	22.8
Left side 11mm	20	QPSK 1 50	21350/2560	1:1	2.250	0.949	-0.09	23.39	24.20	1.205	1.144	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 11mm	20	QPSK 50 25	21350/2560	1:1	1.130	0.481	0.05	22.48	23.20	1.180	0.568	22.8
Left side 11mm	20	QPSK 50 25	21350/2560	1:1	1.810	0.762	-0.12	22.48	23.20	1.180	0.899	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1 99	21100/2535	1:1	4.590	1.710	-0.09	18.84	19.70	1.219	2.084	22.8
Left side	20	QPSK 1 99	21100/2535	1:1	5.540	2.060	-0.09	18.84	19.70	1.219	2.511	22.8
Back side	20	QPSK 1 0	20850/2510	1:1	3.320	1.280	0.15	18.64	19.70	1.276	1.634	22.8
Back side	20	QPSK 1 99	21350/2560	1:1	4.970	1.810	-0.09	18.83	19.70	1.222	2.211	22.8
Left side	20	QPSK 1 0	20850/2510	1:1	4.970	1.880	-0.05	18.64	19.70	1.276	2.400	22.8
Left side	20	QPSK 1 99	21350/2560	1:1	5.360	1.980	-0.15	18.83	19.70	1.222	2.419	22.8
Left side	20	QPSK PCC 1 0	21350/2560	1:1	5.120	1.820	0.06	18.79	19.70	1.233	2.244	22.8
		QPSK SCC 1 99	21152/2540.2	1:1								
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	20	QPSK 50 0	21350/2560	1:1	4.910	1.800	-0.01	18.92	19.70	1.197	2.154	22.8
Left side	20	QPSK 50 0	21350/2560	1:1	7.440	2.430	0.05	18.92	19.70	1.197	2.908	22.8
Back side	20	QPSK 50 25	20850/2510	1:1	3.570	1.360	-0.16	18.67	19.70	1.268	1.724	22.8
Back side	20	QPSK 50 50	21100/2535	1:1	4.080	1.540	0.12	18.82	19.70	1.225	1.886	22.8
Left side	20	QPSK 50 25	20850/2510	1:1	5.180	1.950	0.05	18.67	19.70	1.268	2.472	22.8
Left side	20	QPSK 50 50	21100/2535	1:1	5.550	2.060	-0.16	18.82	19.70	1.225	2.523	22.8
Left side with Repeat	20	QPSK 50 0	21350/2560	1:1	7.210	2.350	0.05	18.92	19.70	1.197	2.812	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 5												
Back side	20	QPSK 100 0	21350/2560	1:1	4.950	1.820	-0.08	18.93	19.70	1.194	2.173	22.8
Left side	20	QPSK 100 0	21350/2560	1:1	5.730	2.110	-0.08	18.93	19.70	1.194	2.519	22.8
Product specific 10g SAR Test data (1RB) Sensor off DSI 9												
Back side 11mm	20	QPSK 1 50	21350/2560	1:1	1.410	0.605	-0.17	23.39	17.20	0.240	0.145	22.8
Left side 11mm	20	QPSK 1 50	21350/2560	1:1	2.250	0.949	-0.09	23.39	17.20	0.240	0.228	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 9												
Back side 11mm	20	QPSK 50 25	21350/2560	1:1	1.130	0.481	0.05	22.48	17.20	0.296	0.143	22.8



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Left side 11mm	20	QPSK 50 25	21350/2560	1:1	1.810	0.762	-0.12	22.48	17.20	0.296	0.226	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 8												
Back side	20	QPSK 1 99	21100/2535	1:1	4.590	1.710	-0.09	18.84	17.20	0.685	1.172	22.8
Left side	20	QPSK 1 99	21100/2535	1:1	5.540	2.060	-0.09	18.84	17.20	0.685	1.412	22.8
Back side	20	QPSK 1 0	20850/2510	1:1	3.320	1.280	0.15	18.64	17.20	0.718	0.919	22.8
Back side	20	QPSK 1 99	21350/2560	1:1	4.970	1.810	-0.09	18.83	17.20	0.687	1.244	22.8
Left side	20	QPSK 1 0	20850/2510	1:1	4.970	1.880	-0.05	18.64	17.20	0.718	1.349	22.8
Left side	20	QPSK 1 99	21350/2560	1:1	5.360	1.980	-0.15	18.83	17.20	0.687	1.360	22.8
Left side	20	QPSK PCC 1 0	21350/2560	1:1	5.120	1.820	0.06	18.79	17.20	0.693	1.262	22.8
		QPSK SCC 1 99	21152/2540.2									
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 8												
Back side	20	QPSK 50 0	21350/2560	1:1	4.910	1.800	-0.01	18.92	17.20	0.673	1.211	22.8
Left side	20	QPSK 50 0	21350/2560	1:1	7.440	2.430	0.05	18.92	17.20	0.673	1.635	22.8
Back side	20	QPSK 50 25	20850/2510	1:1	3.570	1.360	-0.16	18.67	17.20	0.713	0.969	22.8
Back side	20	QPSK 50 50	21100/2535	1:1	4.080	1.540	0.12	18.82	17.20	0.689	1.061	22.8
Left side	20	QPSK 50 25	20850/2510	1:1	5.180	1.950	0.05	18.67	17.20	0.713	1.390	22.8
Left side	20	QPSK 50 50	21100/2535	1:1	5.550	2.060	-0.16	18.82	17.20	0.689	1.419	22.8
Left side with Repeat	20	QPSK 50 0	21350/2560	1:1	7.210	2.350	0.05	18.92	17.20	0.673	1.581	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 8												
Back side	20	QPSK 100 0	21350/2560	1:1	4.950	1.820	-0.08	18.93	17.20	0.671	1.222	22.8
Left side	20	QPSK 100 0	21350/2560	1:1	5.730	2.110	-0.08	18.93	17.20	0.671	1.417	22.8
ENDC&ULCA LTE Band 7 SAR Evaluate data												
Ant 13 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) DSI2												
Left cheek	20	QPSK 1 0	20850/2510	1:1	0.218	0.106	0.09	17.67	15.20	0.566	0.123	22.4
Left tilted	20	QPSK 1 0	20850/2510	1:1	0.321	0.151	-0.13	17.67	15.20	0.566	0.182	22.4
Right cheek	20	QPSK 1 0	20850/2510	1:1	0.595	0.264	-0.10	17.67	15.20	0.566	0.337	22.4
Right tilted	20	QPSK 1 0	20850/2510	1:1	0.812	0.342	-0.08	17.67	15.20	0.566	0.460	22.4
Right tilted	20	QPSK 1 0	21100/2535	1:1	0.768	0.324	0.11	17.50	15.20	0.589	0.452	22.4
Right tilted	20	QPSK 1 50	21350/2560	1:1	0.771	0.332	0.09	17.49	15.20	0.590	0.455	22.4
Right tilted	20	QPSK PCC 1 99	20850/2510	1:1	0.715	0.287	0.14	17.32	15.20	0.614	0.439	22.4
		QPSK SCC 1 0	21048/2529.8									
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	20850/2510	1:1	0.215	0.105	-0.06	17.64	15.20	0.570	0.123	22.4
Left tilted	20	QPSK 50 0	20850/2510	1:1	0.304	0.142	-0.13	17.64	15.20	0.570	0.173	22.4
Right cheek	20	QPSK 50 0	20850/2510	1:1	0.574	0.255	0.15	17.64	15.20	0.570	0.327	22.4
Right tilted	20	QPSK 50 0	20850/2510	1:1	0.787	0.330	0.09	17.64	15.20	0.570	0.449	22.4
Right tilted	20	QPSK 50 0	21100/2535	1:1	0.778	0.328	0.08	17.53	15.20	0.585	0.455	22.4
Right tilted	20	QPSK 50 25	21350/2560	1:1	0.772	0.332	0.00	17.49	15.20	0.590	0.456	22.4
Head Test Data (100%RB) DSI2												
Right tilted	20	QPSK 100 0	20850/2510	1:1	0.789	0.330	-0.06	17.63	15.20	0.571	0.451	22.4
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 0	21350/2560	1:1	0.226	0.118	0.14	23.55	21.20	0.582	0.132	22.2
Back side	20	QPSK 1 0	21350/2560	1:1	0.632	0.306	0.05	23.55	21.20	0.582	0.368	22.2
Back side	20	QPSK PCC 1 0	21350/2560	1:1	0.557	0.242	-0.07	23.29	21.20	0.618	0.344	22.2
		QPSK SCC 1 99	21152/2540.2									
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 0	21350/2560	1:1	0.179	0.093	0.09	22.56	21.20	0.731	0.131	22.2
Back side	20	QPSK 50 0	21350/2560	1:1	0.525	0.246	0.16	22.56	21.20	0.731	0.384	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 0	20850/2510	1:1	0.102	0.049	0.11	17.12	14.70	0.573	0.058	22.2
Back side	20	QPSK 1 0	20850/2510	1:1	0.353	0.155	0.03	17.12	14.70	0.573	0.202	22.2
Left side	20	QPSK 1 0	20850/2510	1:1	0.054	0.029	-0.04	17.12	14.70	0.573	0.031	22.2
Top side	20	QPSK 1 0	20850/2510	1:1	0.401	0.181	-0.14	17.12	14.70	0.573	0.230	22.2
Top side	20	QPSK PCC 1 99	20850/2510	1:1	0.352	0.159	0.13	16.85	14.70	0.610	0.215	22.2
		QPSK SCC 1 0	21048/2529.8									
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 0	20850/2510	1:1	0.099	0.048	-0.06	17.08	14.70	0.578	0.057	22.2
Back side	20	QPSK 50 0	20850/2510	1:1	0.342	0.151	0.18	17.08	14.70	0.578	0.198	22.2
Left side	20	QPSK 50 0	20850/2510	1:1	0.057	0.029	0.15	17.08	14.70	0.578	0.033	22.2
Top side	20	QPSK 50 0	20850/2510	1:1	0.403	0.179	0.10	17.08	14.70	0.578	0.233	22.2
Test position	BW.	Test mode	Test ch./Freq.	Duty	SAR	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid



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				Cycle	(W/kg) 1-g	(W/kg) 10-g	drift (dB)	Power(dBm)	Limit(dBm)	factor	SAR 10- g (W/kg)	Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 1 0	21350/2560	1:1	0.711	0.328	0.02	23.55	21.20	0.582	0.191	22.8
Top side 12mm	20	QPSK 1 0	21350/2560	1:1	1.540	0.693	0.17	23.55	21.20	0.582	0.403	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 50 0	21350/2560	1:1	0.551	0.255	-0.15	22.56	21.20	0.731	0.186	22.8
Top side 12mm	20	QPSK 50 0	21350/2560	1:1	1.220	0.545	-0.17	22.56	21.20	0.731	0.398	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1 0	20850/2510	1:1	3.380	1.340	-0.09	18.67	16.20	0.566	0.759	22.8
Top side	20	QPSK 1 0	20850/2510	1:1	4.600	1.690	0.14	18.67	16.20	0.566	0.957	22.8
Top side	20	QPSK PCC 1 99	20850/2510	1:1	4.230	1.550	0.03	18.33	16.20	0.612	0.949	22.8
		QPSK SCC 1 0	21048/2529.8									
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	20	QPSK 50 0	20850/2510	1:1	3.100	1.250	0.00	18.66	16.20	0.568	0.709	22.8
Top side	20	QPSK 50 0	20850/2510	1:1	4.680	1.720	0.15	18.66	16.20	0.568	0.976	22.8
Ant 31 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) DSI2												
Left cheek	20	QPSK 1 50	21350/2560	1:1	0.261	0.153	0.16	24.02	21.20	0.522	0.136	22.2
Left tilted	20	QPSK 1 50	21350/2560	1:1	0.157	0.088	-0.17	24.02	21.20	0.522	0.082	22.2
Right cheek	20	QPSK 1 50	21350/2560	1:1	0.461	0.256	0.06	24.02	21.20	0.522	0.241	22.2
Right tilted	20	QPSK 1 50	21350/2560	1:1	0.240	0.125	0.17	24.02	21.20	0.522	0.125	22.2
Right cheek	20	QPSK PCC 1 0	21350/2560	1:1	0.405	0.225	0.12	23.69	21.20	0.564	0.228	22.2
		QPSK SCC 1 99	21152/2540.2									
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	21350/2560	1:1	0.203	0.110	-0.14	23.10	21.20	0.646	0.131	22.2
Left tilted	20	QPSK 50 0	21350/2560	1:1	0.124	0.070	-0.17	23.10	21.20	0.646	0.080	22.2
Right cheek	20	QPSK 50 0	21350/2560	1:1	0.372	0.207	0.03	23.10	21.20	0.646	0.240	22.2
Right tilted	20	QPSK 50 0	21350/2560	1:1	0.187	0.098	-0.07	23.10	21.20	0.646	0.121	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	21350/2560	1:1	0.194	0.106	-0.11	22.13	19.20	0.509	0.099	22.2
Back side	20	QPSK 1 50	21350/2560	1:1	0.220	0.122	-0.13	22.13	19.20	0.509	0.112	22.2
Back side	20	QPSK PCC 1 0	21350/2560	1:1	0.195	0.112	0.04	21.66	19.20	0.568	0.111	22.2
		QPSK SCC 1 99	21152/2540.2									
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 0	21350/2560	1:1	0.190	0.104	0.00	22.07	19.20	0.516	0.098	22.2
Back side	20	QPSK 50 0	21350/2560	1:1	0.221	0.122	0.11	22.07	19.20	0.516	0.114	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 50	21350/2560	1:1	0.361	0.198	0.06	22.13	19.20	0.509	0.184	22.2
Back side	20	QPSK 1 50	21350/2560	1:1	0.434	0.233	0.13	22.13	19.20	0.509	0.221	22.2
Left side	20	QPSK 1 50	21350/2560	1:1	0.038	0.020	0.02	22.13	19.20	0.509	0.019	22.2
Right side	20	QPSK 1 50	21350/2560	1:1	0.323	0.173	0.11	22.13	19.20	0.509	0.165	22.2
Bottom side	20	QPSK 1 50	21350/2560	1:1	0.267	0.128	-0.09	22.13	19.20	0.509	0.136	22.2
Back side	20	QPSK PCC 1 0	21350/2560	1:1	0.375	0.205	0.14	21.66	19.20	0.568	0.213	22.2
		QPSK SCC 1 99	21152/2540.2									
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 0	21350/2560	1:1	0.372	0.201	0.19	22.07	19.20	0.516	0.192	22.2
Back side	20	QPSK 50 0	21350/2560	1:1	0.453	0.240	-0.13	22.07	19.20	0.516	0.234	22.2
Left side	20	QPSK 50 0	21350/2560	1:1	0.042	0.021	-0.18	22.07	19.20	0.516	0.022	22.2
Right side	20	QPSK 50 0	21350/2560	1:1	0.318	0.171	-0.15	22.07	19.20	0.516	0.164	22.2
Bottom side	20	QPSK 50 0	21350/2560	1:1	0.272	0.130	0.13	22.07	19.20	0.516	0.140	22.2
Ant 11 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) DSI2												
Left cheek	20	QPSK 1 99	21100/2535	1:1	0.462	0.222	0.15	18.84	16.70	0.611	0.282	22.4
Left tilted	20	QPSK 1 99	21100/2535	1:1	0.085	0.045	-0.12	18.84	16.70	0.611	0.052	22.4
Right cheek	20	QPSK 1 99	21100/2535	1:1	0.712	0.303	-0.02	18.84	16.70	0.611	0.435	22.4
Right tilted	20	QPSK 1 99	21100/2535	1:1	0.143	0.080	0.14	18.84	16.70	0.611	0.087	22.4
Right cheek	20	QPSK 1 0	20850/2510	1:1	0.415	0.177	-0.14	18.64	16.70	0.640	0.265	22.4



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Right cheek	20	QPSK 1 99	21350/2560	1:1	0.778	0.314	-0.12	18.83	16.70	0.612	0.476	22.4
Right cheek	20	QPSK PCC 1 0	21350/2560	1:1	0.741	0.309	-0.15	18.79	16.70	0.618	0.458	22.4
		QPSK SCC 1 99	21152/2540.2									
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	21350/2560	1:1	0.462	0.215	0.05	18.92	16.70	0.600	0.277	22.4
Left tilted	20	QPSK 50 0	21350/2560	1:1	0.090	0.047	-0.19	18.92	16.70	0.600	0.054	22.4
Right cheek	20	QPSK 50 0	21350/2560	1:1	0.776	0.329	0.16	18.92	16.70	0.600	0.465	22.4
Right tilted	20	QPSK 50 0	21350/2560	1:1	0.133	0.073	0.09	18.92	16.70	0.600	0.080	22.4
Right cheek	20	QPSK 50 25	20850/2510	1:1	0.473	0.201	-0.10	18.67	16.70	0.635	0.301	22.4
Right cheek	20	QPSK 50 50	21100/2535	1:1	0.676	0.287	0.07	18.82	16.70	0.614	0.415	22.4
Head Test Data (100%RB) DSI2												
Right cheek	20	QPSK 100 0	21350/2560	1:1	0.794	0.337	0.14	18.93	16.70	0.598	0.475	22.4
Head Test Data (1RB) DSI3												
Left cheek	20	QPSK 1 99	21100/2535	1:1	0.462	0.222	0.15	18.84	15.70	0.485	0.224	22.4
Left tilted	20	QPSK 1 99	21100/2535	1:1	0.085	0.045	-0.12	18.84	15.70	0.485	0.041	22.4
Right cheek	20	QPSK 1 99	21100/2535	1:1	0.712	0.303	-0.02	18.84	15.70	0.485	0.346	22.4
Right tilted	20	QPSK 1 99	21100/2535	1:1	0.143	0.080	0.14	18.84	15.70	0.485	0.069	22.4
Right cheek	20	QPSK 1 0	20850/2510	1:1	0.415	0.177	-0.14	18.64	15.70	0.508	0.211	22.4
Right cheek	20	QPSK 1 99	21350/2560	1:1	0.778	0.314	-0.12	18.83	15.70	0.486	0.378	22.4
Right cheek	20	QPSK PCC 1 0	21350/2560	1:1	0.741	0.309	-0.15	18.79	15.70	0.491	0.364	22.4
		QPSK SCC 1 99	21152/2540.2									
Head Test Data (50%RB) DSI3												
Left cheek	20	QPSK 50 0	21350/2560	1:1	0.462	0.215	0.05	18.92	15.70	0.476	0.220	22.4
Left tilted	20	QPSK 50 0	21350/2560	1:1	0.090	0.047	-0.19	18.92	15.70	0.476	0.043	22.4
Right cheek	20	QPSK 50 0	21350/2560	1:1	0.776	0.329	0.16	18.92	15.70	0.476	0.370	22.4
Right tilted	20	QPSK 50 0	21350/2560	1:1	0.133	0.073	0.09	18.92	15.70	0.476	0.063	22.4
Right cheek	20	QPSK 50 25	20850/2510	1:1	0.473	0.201	-0.10	18.67	15.70	0.505	0.239	22.4
Right cheek	20	QPSK 50 50	21100/2535	1:1	0.676	0.287	0.07	18.82	15.70	0.488	0.330	22.4
Head Test Data (100%RB) DSI3												
Right cheek	20	QPSK 100 0	21350/2560	1:1	0.794	0.337	0.14	18.93	15.70	0.475	0.377	22.4
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	21350/2560	1:1	0.264	0.133	-0.09	23.39	21.20	0.604	0.159	22.6
Back side	20	QPSK 1 50	21350/2560	1:1	0.587	0.286	0.00	23.39	21.20	0.604	0.355	22.6
Back side	20	QPSK PCC 1 0	21350/2560	1:1	0.575	0.275	-0.14	23.41	21.20	0.601	0.346	22.6
		QPSK SCC 1 99	21152/2540.2									
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 25	21350/2560	1:1	0.204	0.095	-0.02	22.48	21.20	0.745	0.152	22.6
Back side	20	QPSK 50 25	21350/2560	1:1	0.469	0.227	0.19	22.48	21.20	0.745	0.349	22.6
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 50	21350/2560	1:1	0.104	0.049	-0.07	16.43	14.20	0.598	0.062	22.6
Back side	20	QPSK 1 50	21350/2560	1:1	0.251	0.112	-0.07	16.43	14.20	0.598	0.150	22.6
Left side	20	QPSK 1 50	21350/2560	1:1	0.371	0.156	0.05	16.43	14.20	0.598	0.222	22.6
Left side	20	QPSK PCC 1 0	21350/2560	1:1	0.345	0.135	0.14	16.59	14.20	0.577	0.199	22.6
		QPSK SCC 1 99	21152/2540.2									
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 25	21350/2560	1:1	0.109	0.050	0.18	16.44	14.20	0.597	0.065	22.6
Back side	20	QPSK 50 25	21350/2560	1:1	0.240	0.108	-0.14	16.44	14.20	0.597	0.143	22.6
Left side	20	QPSK 50 25	21350/2560	1:1	0.373	0.156	0.19	16.44	14.20	0.597	0.223	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 11mm	20	QPSK 1 50	21350/2560	1:1	1.410	0.605	-0.17	23.39	21.20	0.604	0.365	22.8
Left side 11mm	20	QPSK 1 50	21350/2560	1:1	2.250	0.949	-0.09	23.39	21.20	0.604	0.573	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 11mm	20	QPSK 50 25	21350/2560	1:1	1.130	0.481	0.05	22.48	21.20	0.745	0.358	22.8
Left side 11mm	20	QPSK 50 25	21350/2560	1:1	1.810	0.762	-0.12	22.48	21.20	0.745	0.567	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1 99	21100/2535	1:1	4.590	1.710	-0.09	18.84	16.70	0.611	1.045	22.8
Left side	20	QPSK 1 99	21100/2535	1:1	5.540	2.060	-0.09	18.84	16.70	0.611	1.259	22.8
Back side	20	QPSK 1 0	20850/2510	1:1	3.320	1.280	0.15	18.64	16.70	0.640	0.819	22.8
Back side	20	QPSK 1 99	21350/2560	1:1	4.970	1.810	-0.09	18.83	16.70	0.612	1.108	22.8
Left side	20	QPSK 1 0	20850/2510	1:1	4.970	1.880	-0.05	18.64	16.70	0.640	1.203	22.8
Left side	20	QPSK 1 99	21350/2560	1:1	5.360	1.980	-0.15	18.83	16.70	0.612	1.212	22.8



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Left side	20	QPSK PCC 1 0	21350/2560	1:1	5.120	1.820	0.06	18.79	16.70	0.618	1.125	22.8
		QPSK SCC 1 99	21152/2540.2									
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	20	QPSK 50 0	21350/2560	1:1	4.910	1.800	-0.01	18.92	16.70	0.600	1.080	22.8
Left side	20	QPSK 50 0	21350/2560	1:1	7.440	2.430	0.05	18.92	16.70	0.600	1.457	22.8
Back side	20	QPSK 50 25	20850/2510	1:1	3.570	1.360	-0.16	18.67	16.70	0.635	0.864	22.8
Back side	20	QPSK 50 50	21100/2535	1:1	4.080	1.540	0.12	18.82	16.70	0.614	0.945	22.8
Left side	20	QPSK 50 25	20850/2510	1:1	5.180	1.950	0.05	18.67	16.70	0.635	1.239	22.8
Left side	20	QPSK 50 50	21100/2535	1:1	5.550	2.060	-0.16	18.82	16.70	0.614	1.264	22.8
Left side with Repeat	20	QPSK 50 0	21350/2560	1:1	7.210	2.350	0.05	18.92	16.70	0.600	1.410	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 5												
Back side	20	QPSK 100 0	21350/2560	1:1	4.950	1.820	-0.08	18.93	16.70	0.598	1.089	22.8
Left side	20	QPSK 100 0	21350/2560	1:1	5.730	2.110	-0.08	18.93	16.70	0.598	1.263	22.8
Product specific 10g SAR Test data (1RB) Sensor off DSI 9												
Back side 11mm	20	QPSK 1 50	21350/2560	1:1	1.410	0.605	-0.17	23.39	14.20	0.121	0.073	22.8
Left side 11mm	20	QPSK 1 50	21350/2560	1:1	2.250	0.949	-0.09	23.39	14.20	0.121	0.114	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 9												
Back side 11mm	20	QPSK 50 25	21350/2560	1:1	1.130	0.481	0.05	22.48	14.20	0.149	0.071	22.8
Left side 11mm	20	QPSK 50 25	21350/2560	1:1	1.810	0.762	-0.12	22.48	14.20	0.149	0.113	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 8												
Back side	20	QPSK 1 99	21100/2535	1:1	4.590	1.710	-0.09	18.84	14.20	0.344	0.587	22.8
Left side	20	QPSK 1 99	21100/2535	1:1	5.540	2.060	-0.09	18.84	14.20	0.344	0.708	22.8
Back side	20	QPSK 1 0	20850/2510	1:1	3.320	1.280	0.15	18.64	14.20	0.360	0.460	22.8
Back side	20	QPSK 1 99	21350/2560	1:1	4.970	1.810	-0.09	18.83	14.20	0.344	0.623	22.8
Left side	20	QPSK 1 0	20850/2510	1:1	4.970	1.880	-0.05	18.64	14.20	0.360	0.676	22.8
Left side	20	QPSK 1 99	21350/2560	1:1	5.360	1.980	-0.15	18.83	14.20	0.344	0.682	22.8
Left side	20	QPSK PCC 1 0	21350/2560	1:1	5.120	1.820	0.06	18.79	14.20	0.348	0.633	22.8
		QPSK SCC 1 99	21152/2540.2									
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 8												
Back side	20	QPSK 50 0	21350/2560	1:1	4.910	1.800	-0.01	18.92	14.20	0.337	0.607	22.8
Left side	20	QPSK 50 0	21350/2560	1:1	7.440	2.430	0.05	18.92	14.20	0.337	0.820	22.8
Back side	20	QPSK 50 25	20850/2510	1:1	3.570	1.360	-0.16	18.67	14.20	0.357	0.486	22.8
Back side	20	QPSK 50 50	21100/2535	1:1	4.080	1.540	0.12	18.82	14.20	0.345	0.532	22.8
Left side	20	QPSK 50 25	20850/2510	1:1	5.180	1.950	0.05	18.67	14.20	0.357	0.697	22.8
Left side	20	QPSK 50 50	21100/2535	1:1	5.550	2.060	-0.16	18.82	14.20	0.345	0.711	22.8
Left side with Repeat	20	QPSK 50 0	21350/2560	1:1	7.210	2.350	0.05	18.92	14.20	0.337	0.793	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 8												
Back side	20	QPSK 100 0	21350/2560	1:1	4.950	1.820	-0.08	18.93	14.20	0.337	0.612	22.8
Left side	20	QPSK 100 0	21350/2560	1:1	5.730	2.110	-0.08	18.93	14.20	0.337	0.710	22.8

Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Left side	21350/2560	2.430	2.350	1.03	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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8.2.8 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	10	QPSK 1_0	23060/704	1:1	0.278	0.165	0.14	23.81	24.70	1.227	0.341	22.2
Left tilted	10	QPSK 1_0	23060/704	1:1	0.295	0.162	0.02	23.81	24.70	1.227	0.362	22.2
Right cheek	10	QPSK 1_0	23060/704	1:1	0.419	0.238	-0.18	23.81	24.70	1.227	0.514	22.2
Right tilted	10	QPSK 1_0	23060/704	1:1	0.421	0.227	0.00	23.81	24.70	1.227	0.517	22.2
Head Test Data (50%RB) DSI2												
Left cheek	10	QPSK 25_0	23060/704	1:1	0.230	0.136	0.16	22.78	23.70	1.236	0.284	22.2
Left tilted	10	QPSK 25_0	23060/704	1:1	0.243	0.133	-0.01	22.78	23.70	1.236	0.300	22.2
Right cheek	10	QPSK 25_0	23060/704	1:1	0.343	0.194	-0.06	22.78	23.70	1.236	0.424	22.2
Right tilted	10	QPSK 25_0	23060/704	1:1	0.362	0.184	0.17	22.78	23.70	1.236	0.447	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	10	QPSK 1_0	23060/704	1:1	0.087	0.061	0.08	23.81	24.70	1.227	0.107	22.2
Back side	10	QPSK 1_0	23060/704	1:1	0.108	0.078	-0.04	23.81	24.70	1.227	0.133	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	10	QPSK 25_0	23060/704	1:1	0.071	0.050	-0.19	22.78	23.70	1.236	0.088	22.2
Back side	10	QPSK 25_0	23060/704	1:1	0.091	0.065	-0.03	22.78	23.70	1.236	0.112	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	10	QPSK 1_0	23060/704	1:1	0.078	0.051	0.09	23.81	24.70	1.227	0.096	22.2
Back side	10	QPSK 1_0	23060/704	1:1	0.112	0.080	0.07	23.81	24.70	1.227	0.137	22.2
Left side	10	QPSK 1_0	23060/704	1:1	0.126	0.083	0.11	23.81	24.70	1.227	0.155	22.2
Top side	10	QPSK 1_0	23060/704	1:1	0.067	0.039	0.08	23.81	24.70	1.227	0.082	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	10	QPSK 25_0	23060/704	1:1	0.063	0.045	-0.13	22.78	23.70	1.236	0.078	22.2
Back side	10	QPSK 25_0	23060/704	1:1	0.090	0.066	-0.03	22.78	23.70	1.236	0.111	22.2
Left side	10	QPSK 25_0	23060/704	1:1	0.101	0.068	0.15	22.78	23.70	1.236	0.125	22.2
Top side	10	QPSK 25_0	23060/704	1:1	0.056	0.033	0.13	22.78	23.70	1.236	0.069	22.2
Ant 31 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) DSI2												
Left cheek	10	QPSK 1_0	23060/704	1:1	0.115	0.082	0.14	24.05	24.70	1.161	0.134	22.2
Left tilted	10	QPSK 1_0	23060/704	1:1	0.061	0.045	0.16	24.05	24.70	1.161	0.071	22.2
Right cheek	10	QPSK 1_0	23060/704	1:1	0.103	0.075	-0.15	24.05	24.70	1.161	0.120	22.2
Right tilted	10	QPSK 1_0	23060/704	1:1	0.057	0.043	0.06	24.05	24.70	1.161	0.066	22.2
Head Test Data (50%RB) DSI2												
Left cheek	10	QPSK 25_13	23060/704	1:1	0.091	0.065	-0.12	23.00	23.70	1.175	0.107	22.2
Left tilted	10	QPSK 25_13	23060/704	1:1	0.048	0.036	0.17	23.00	23.70	1.175	0.056	22.2



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Right cheek	10	QPSK 25_13	23060/704	1:1	0.083	0.061	0.07	23.00	23.70	1.175	0.098	22.2
Right tilted	10	QPSK 25_13	23060/704	1:1	0.046	0.034	0.12	23.00	23.70	1.175	0.054	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	10	QPSK 1_0	23060/704	1:1	0.153	0.110	-0.09	24.05	24.70	1.161	0.178	22.2
Back side	10	QPSK 1_0	23060/704	1:1	0.177	0.138	0.04	24.05	24.70	1.161	0.206	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	10	QPSK 25_13	23060/704	1:1	0.124	0.090	0.01	23.00	23.70	1.175	0.146	22.2
Back side	10	QPSK 25_13	23060/704	1:1	0.132	0.097	-0.05	23.00	23.70	1.175	0.155	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	10	QPSK 1_0	23060/704	1:1	0.142	0.104	-0.04	24.05	24.70	1.161	0.165	22.2
Back side	10	QPSK 1_0	23060/704	1:1	0.179	0.131	-0.15	24.05	24.70	1.161	0.208	22.2
Left side	10	QPSK 1_0	23060/704	1:1	0.236	0.166	0.02	24.05	24.70	1.161	0.274	22.2
Right side	10	QPSK 1_0	23060/704	1:1	0.120	0.080	0.14	24.05	24.70	1.161	0.139	22.2
Bottom side	10	QPSK 1_0	23060/704	1:1	0.131	0.065	0.17	24.05	24.70	1.161	0.152	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	10	QPSK 25_13	23060/704	1:1	0.114	0.083	-0.07	23.00	23.70	1.175	0.134	22.2
Back side	10	QPSK 25_13	23060/704	1:1	0.142	0.104	0.14	23.00	23.70	1.175	0.167	22.2
Left side	10	QPSK 25_13	23060/704	1:1	0.167	0.113	0.10	23.00	23.70	1.175	0.196	22.2
Right side	10	QPSK 25_13	23060/704	1:1	0.098	0.065	-0.17	23.00	23.70	1.175	0.115	22.2
Bottom side	10	QPSK 25_13	23060/704	1:1	0.116	0.059	0.09	23.00	23.70	1.175	0.136	22.2



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8.2.9 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.400	0.245	-0.04	23.70	24.70	1.259	0.504	22.2
Left tilted	10	QPSK 1_0	23230/782	1:1	0.385	0.220	0.12	23.70	24.70	1.259	0.485	22.2
Right cheek	10	QPSK 1_0	23230/782	1:1	0.527	0.324	-0.03	23.70	24.70	1.259	0.663	22.2
Right tilted	10	QPSK 1_0	23230/782	1:1	0.503	0.265	-0.17	23.70	24.70	1.259	0.633	22.2
Head Test Data (50%RB) DSI2												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.308	0.189	-0.15	22.80	23.70	1.230	0.379	22.2
Left tilted	10	QPSK 25_0	23230/782	1:1	0.300	0.170	0.03	22.80	23.70	1.230	0.369	22.2
Right cheek	10	QPSK 25_0	23230/782	1:1	0.403	0.238	-0.14	22.80	23.70	1.230	0.496	22.2
Right tilted	10	QPSK 25_0	23230/782	1:1	0.393	0.206	0.08	22.80	23.70	1.230	0.483	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	10	QPSK 1_0	23230/782	1:1	0.092	0.065	0.13	23.70	24.70	1.259	0.116	22.2
Back side	10	QPSK 1_0	23230/782	1:1	0.108	0.077	0.01	23.70	24.70	1.259	0.136	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	10	QPSK 25_0	23230/782	1:1	0.070	0.048	-0.15	22.80	23.70	1.230	0.086	22.2
Back side	10	QPSK 25_0	23230/782	1:1	0.082	0.058	0.19	22.80	23.70	1.230	0.101	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	10	QPSK 1_0	23230/782	1:1	0.109	0.070	0.04	23.70	24.70	1.259	0.137	22.2
Back side	10	QPSK 1_0	23230/782	1:1	0.158	0.096	0.01	23.70	24.70	1.259	0.199	22.2
Left side	10	QPSK 1_0	23230/782	1:1	0.111	0.074	0.10	23.70	24.70	1.259	0.140	22.2
Top side	10	QPSK 1_0	23230/782	1:1	0.128	0.073	-0.09	23.70	24.70	1.259	0.161	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	10	QPSK 25_0	23230/782	1:1	0.088	0.055	-0.07	22.80	23.70	1.230	0.108	22.2
Back side	10	QPSK 25_0	23230/782	1:1	0.121	0.074	-0.07	22.80	23.70	1.230	0.149	22.2
Left side	10	QPSK 25_0	23230/782	1:1	0.086	0.057	-0.09	22.80	23.70	1.230	0.106	22.2
Top side	10	QPSK 25_0	23230/782	1:1	0.099	0.056	-0.08	22.80	23.70	1.230	0.122	22.2
Ant 31 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) DSI2												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.133	0.095	0.17	23.70	24.70	1.259	0.167	22.2
Left tilted	10	QPSK 1_0	23230/782	1:1	0.086	0.063	-0.10	23.70	24.70	1.259	0.108	22.2
Right cheek	10	QPSK 1_0	23230/782	1:1	0.108	0.078	0.10	23.70	24.70	1.259	0.136	22.2
Right tilted	10	QPSK 1_0	23230/782	1:1	0.074	0.056	-0.05	23.70	24.70	1.259	0.093	22.2
Head Test Data (50%RB) DSI2												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.105	0.074	-0.03	22.73	23.70	1.250	0.131	22.2
Left tilted	10	QPSK 25_0	23230/782	1:1	0.066	0.049	0.02	22.73	23.70	1.250	0.083	22.2



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Right cheek	10	QPSK 25_0	23230/782	1:1	0.082	0.060	-0.18	22.73	23.70	1.250	0.103	22.2
Right tilted	10	QPSK 25_0	23230/782	1:1	0.056	0.042	0.07	22.73	23.70	1.250	0.070	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	10	QPSK 1_0	23230/782	1:1	0.136	0.099	0.13	23.70	24.70	1.259	0.171	22.2
Back side	10	QPSK 1_0	23230/782	1:1	0.219	0.169	0.01	23.70	24.70	1.259	0.276	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	10	QPSK 25_0	23230/782	1:1	0.105	0.075	0.11	22.73	23.70	1.250	0.131	22.2
Back side	10	QPSK 25_0	23230/782	1:1	0.129	0.093	-0.08	22.73	23.70	1.250	0.161	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	10	QPSK 1_0	23230/782	1:1	0.121	0.089	0.16	23.70	24.70	1.259	0.152	22.2
Back side	10	QPSK 1_0	23230/782	1:1	0.184	0.112	-0.10	23.70	24.70	1.259	0.232	22.2
Left side	10	QPSK 1_0	23230/782	1:1	0.193	0.128	-0.16	23.70	24.70	1.259	0.243	22.2
Right side	10	QPSK 1_0	23230/782	1:1	0.090	0.060	0.14	23.70	24.70	1.259	0.113	22.2
Bottom side	10	QPSK 1_0	23230/782	1:1	0.250	0.133	-0.04	23.70	24.70	1.259	0.315	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	10	QPSK 25_0	23230/782	1:1	0.097	0.060	-0.04	22.73	23.70	1.250	0.121	22.2
Back side	10	QPSK 25_0	23230/782	1:1	0.143	0.087	0.06	22.73	23.70	1.250	0.179	22.2
Left side	10	QPSK 25_0	23230/782	1:1	0.148	0.098	0.00	22.73	23.70	1.250	0.185	22.2
Right side	10	QPSK 25_0	23230/782	1:1	0.068	0.045	-0.02	22.73	23.70	1.250	0.085	22.2
Bottom side	10	QPSK 25_0	23230/782	1:1	0.161	0.082	-0.02	22.73	23.70	1.250	0.201	22.2



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8.2.10 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	15	QPSK 1_38	26965/841.5	1:1	0.536	0.342	0.03	22.33	23.20	1.222	0.655	22.2
Left tilted	15	QPSK 1_38	26965/841.5	1:1	0.533	0.311	-0.07	22.33	23.20	1.222	0.651	22.2
Right cheek	15	QPSK 1_38	26965/841.5	1:1	0.689	0.406	0.03	22.33	23.20	1.222	0.842	22.2
Right tilted	15	QPSK 1_38	26965/841.5	1:1	0.651	0.347	0.11	22.33	23.20	1.222	0.795	22.2
Right cheek	15	QPSK 1_74	26765/821.5	1:1	0.709	0.443	0.05	22.21	23.20	1.256	0.891	22.2
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.700	0.411	0.05	22.33	23.20	1.222	0.855	22.2
Head Test Data (50%RB) DSI2												
Left cheek	15	QPSK 36_18	26965/841.5	1:1	0.534	0.341	-0.09	22.34	23.20	1.219	0.651	22.2
Left tilted	15	QPSK 36_18	26965/841.5	1:1	0.523	0.307	-0.11	22.34	23.20	1.219	0.638	22.2
Right cheek	15	QPSK 36_18	26965/841.5	1:1	0.692	0.408	0.09	22.34	23.20	1.219	0.844	22.2
Right tilted	15	QPSK 36_18	26965/841.5	1:1	0.646	0.347	0.14	22.34	23.20	1.219	0.787	22.2
Right cheek	15	QPSK 36_39	26765/821.5	1:1	0.679	0.397	0.00	22.27	23.20	1.239	0.841	22.2
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.690	0.405	-0.12	22.32	23.20	1.225	0.845	22.2
Head Test Data (100%RB) DSI2												
Right cheek	15	QPSK 75_0	26965/841.5	1:1	0.692	0.408	-0.15	22.34	23.20	1.219	0.844	22.2
Head Test Data (1RB) DSI3												
Left cheek	15	QPSK 1_38	26965/841.5	1:1	0.536	0.342	0.03	22.33	22.20	0.971	0.520	22.2
Left tilted	15	QPSK 1_38	26965/841.5	1:1	0.533	0.311	-0.07	22.33	22.20	0.971	0.517	22.2
Right cheek	15	QPSK 1_38	26965/841.5	1:1	0.689	0.406	0.03	22.33	22.20	0.971	0.669	22.2
Right tilted	15	QPSK 1_38	26965/841.5	1:1	0.651	0.347	0.11	22.33	22.20	0.971	0.632	22.2
Right cheek	15	QPSK 1_74	26765/821.5	1:1	0.709	0.443	0.05	22.21	22.20	0.998	0.707	22.2
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.700	0.411	0.05	22.33	22.20	0.971	0.679	22.2
Head Test Data (50%RB) DSI3												
Left cheek	15	QPSK 36_18	26965/841.5	1:1	0.534	0.341	-0.09	22.34	22.20	0.968	0.517	22.2
Left tilted	15	QPSK 36_18	26965/841.5	1:1	0.523	0.307	-0.11	22.34	22.20	0.968	0.506	22.2
Right cheek	15	QPSK 36_18	26965/841.5	1:1	0.692	0.408	0.09	22.34	22.20	0.968	0.670	22.2
Right tilted	15	QPSK 36_18	26965/841.5	1:1	0.646	0.347	0.14	22.34	22.20	0.968	0.626	22.2
Right cheek	15	QPSK 36_39	26765/821.5	1:1	0.679	0.397	0.00	22.27	22.20	0.984	0.668	22.2
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.690	0.405	-0.12	22.32	22.20	0.973	0.671	22.2
Head Test Data (100%RB) DSI3												
Right cheek	15	QPSK 75_0	26965/841.5	1:1	0.692	0.408	-0.15	22.34	22.20	0.968	0.670	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.110	0.070	-0.02	23.90	24.70	1.202	0.132	22.2
Back side	15	QPSK 1_38	26865/831.5	1:1	0.133	0.088	0.00	23.90	24.70	1.202	0.160	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	15	QPSK 36_0	26965/841.5	1:1	0.083	0.053	0.13	22.79	23.70	1.233	0.102	22.2
Back side	15	QPSK 36_0	26965/841.5	1:1	0.102	0.067	-0.05	22.79	23.70	1.233	0.126	22.2



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Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.202	0.126	0.02	23.90	24.70	1.202	0.243	22.2
Back side	15	QPSK 1_38	26865/831.5	1:1	0.361	0.233	-0.02	23.90	24.70	1.202	0.434	22.2
Left side	15	QPSK 1_38	26865/831.5	1:1	0.103	0.068	0.16	23.90	24.70	1.202	0.124	22.2
Top side	15	QPSK 1_38	26865/831.5	1:1	0.275	0.162	0.15	23.90	24.70	1.202	0.331	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	15	QPSK 36_0	26965/841.5	1:1	0.169	0.105	-0.16	22.79	23.70	1.233	0.208	22.2
Back side	15	QPSK 36_0	26965/841.5	1:1	0.245	0.147	0.14	22.79	23.70	1.233	0.302	22.2
Left side	15	QPSK 36_0	26965/841.5	1:1	0.085	0.057	-0.19	22.79	23.70	1.233	0.105	22.2
Top side	15	QPSK 36_0	26965/841.5	1:1	0.215	0.130	0.15	22.79	23.70	1.233	0.265	22.2
Ant 31 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) DSI2												
Left cheek	15	QPSK 1_38	26865/831.5	1:1	0.194	0.136	-0.09	23.81	24.70	1.227	0.238	22.2
Left tilted	15	QPSK 1_38	26865/831.5	1:1	0.114	0.084	-0.18	23.81	24.70	1.227	0.140	22.2
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.132	0.095	0.15	23.81	24.70	1.227	0.162	22.2
Right tilted	15	QPSK 1_38	26865/831.5	1:1	0.089	0.066	0.09	23.81	24.70	1.227	0.109	22.2
Head Test Data (50%RB) DSI2												
Left cheek	15	QPSK 36_18	26965/841.5	1:1	0.155	0.108	-0.14	22.78	23.70	1.236	0.192	22.2
Left tilted	15	QPSK 36_18	26965/841.5	1:1	0.089	0.066	-0.12	22.78	23.70	1.236	0.110	22.2
Right cheek	15	QPSK 36_18	26965/841.5	1:1	0.112	0.080	-0.01	22.78	23.70	1.236	0.138	22.2
Right tilted	15	QPSK 36_18	26965/841.5	1:1	0.070	0.053	-0.08	22.78	23.70	1.236	0.087	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.139	0.101	-0.04	23.81	24.70	1.227	0.171	22.2
Back side	15	QPSK 1_38	26865/831.5	1:1	0.200	0.152	-0.04	23.81	24.70	1.227	0.245	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	15	QPSK 36_18	26965/841.5	1:1	0.108	0.078	0.11	22.78	23.70	1.236	0.133	22.2
Back side	15	QPSK 36_18	26965/841.5	1:1	0.139	0.099	-0.07	22.78	23.70	1.236	0.172	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.168	0.106	0.08	23.81	24.70	1.227	0.206	22.2
Back side	15	QPSK 1_38	26865/831.5	1:1	0.267	0.163	0.05	23.81	24.70	1.227	0.328	22.2
Left side	15	QPSK 1_38	26865/831.5	1:1	0.181	0.119	0.04	23.81	24.70	1.227	0.222	22.2
Right side	15	QPSK 1_38	26865/831.5	1:1	0.106	0.070	0.07	23.81	24.70	1.227	0.130	22.2
Bottom side	15	QPSK 1_38	26865/831.5	1:1	0.261	0.134	0.10	23.81	24.70	1.227	0.320	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	15	QPSK 36_18	26965/841.5	1:1	0.147	0.091	0.19	22.78	23.70	1.236	0.182	22.2
Back side	15	QPSK 36_18	26965/841.5	1:1	0.229	0.138	0.05	22.78	23.70	1.236	0.283	22.2
Left side	15	QPSK 36_18	26965/841.5	1:1	0.151	0.099	0.00	22.78	23.70	1.236	0.187	22.2
Right side	15	QPSK 36_18	26965/841.5	1:1	0.076	0.050	0.12	22.78	23.70	1.236	0.094	22.2
Bottom side	15	QPSK 36_18	26965/841.5	1:1	0.233	0.119	-0.18	22.78	23.70	1.236	0.288	22.2



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ENDC&ULCA LTE Band 26 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	15	QPSK 1_38	26965/841.5	1:1	0.536	0.342	0.03	22.33	20.20	0.612	0.328	22.2
Left tilted	15	QPSK 1_38	26965/841.5	1:1	0.533	0.311	-0.07	22.33	20.20	0.612	0.326	22.2
Right cheek	15	QPSK 1_38	26965/841.5	1:1	0.689	0.406	0.03	22.33	20.20	0.612	0.422	22.2
Right tilted	15	QPSK 1_38	26965/841.5	1:1	0.651	0.347	0.11	22.33	20.20	0.612	0.399	22.2
Right cheek	15	QPSK 1_74	26765/821.5	1:1	0.709	0.443	0.05	22.21	20.20	0.630	0.446	22.2
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.700	0.411	0.05	22.33	20.20	0.612	0.429	22.2
Head Test Data (50%RB) DSI2												
Left cheek	15	QPSK 36_18	26965/841.5	1:1	0.534	0.341	-0.09	22.34	20.20	0.611	0.326	22.2
Left tilted	15	QPSK 36_18	26965/841.5	1:1	0.523	0.307	-0.11	22.34	20.20	0.611	0.320	22.2
Right cheek	15	QPSK 36_18	26965/841.5	1:1	0.692	0.408	0.09	22.34	20.20	0.611	0.423	22.2
Right tilted	15	QPSK 36_18	26965/841.5	1:1	0.646	0.347	0.14	22.34	20.20	0.611	0.395	22.2
Right cheek	15	QPSK 36_39	26765/821.5	1:1	0.679	0.397	0.00	22.27	20.20	0.621	0.422	22.2
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.690	0.405	-0.12	22.32	20.20	0.614	0.423	22.2
Head Test Data (100%RB) DSI2												
Right cheek	15	QPSK 75_0	26965/841.5	1:1	0.692	0.408	-0.15	22.34	20.20	0.611	0.423	22.2
Head Test Data (1RB) DSI3												
Left cheek	15	QPSK 1_38	26965/841.5	1:1	0.536	0.342	0.03	22.33	19.20	0.486	0.261	22.2
Left tilted	15	QPSK 1_38	26965/841.5	1:1	0.533	0.311	-0.07	22.33	19.20	0.486	0.259	22.2
Right cheek	15	QPSK 1_38	26965/841.5	1:1	0.689	0.406	0.03	22.33	19.20	0.486	0.335	22.2
Right tilted	15	QPSK 1_38	26965/841.5	1:1	0.651	0.347	0.11	22.33	19.20	0.486	0.317	22.2
Right cheek	15	QPSK 1_74	26765/821.5	1:1	0.709	0.443	0.05	22.21	19.20	0.500	0.355	22.2
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.700	0.411	0.05	22.33	19.20	0.486	0.340	22.2
Head Test Data (50%RB) DSI3												
Left cheek	15	QPSK 36_18	26965/841.5	1:1	0.534	0.341	-0.09	22.34	19.20	0.485	0.259	22.2
Left tilted	15	QPSK 36_18	26965/841.5	1:1	0.523	0.307	-0.11	22.34	19.20	0.485	0.254	22.2
Right cheek	15	QPSK 36_18	26965/841.5	1:1	0.692	0.408	0.09	22.34	19.20	0.485	0.336	22.2
Right tilted	15	QPSK 36_18	26965/841.5	1:1	0.646	0.347	0.14	22.34	19.20	0.485	0.313	22.2
Right cheek	15	QPSK 36_39	26765/821.5	1:1	0.679	0.397	0.00	22.27	19.20	0.493	0.335	22.2
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.690	0.405	-0.12	22.32	19.20	0.488	0.336	22.2
Head Test Data (100%RB) DSI3												
Right cheek	15	QPSK 75_0	26965/841.5	1:1	0.692	0.408	-0.15	22.34	19.20	0.485	0.336	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.110	0.070	-0.02	23.90	21.70	0.603	0.066	22.2
Back side	15	QPSK 1_38	26865/831.5	1:1	0.133	0.088	0.00	23.90	21.70	0.603	0.080	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	15	QPSK 36_0	26965/841.5	1:1	0.083	0.053	0.13	22.79	20.70	0.618	0.051	22.2
Back side	15	QPSK 36_0	26965/841.5	1:1	0.102	0.067	-0.05	22.79	20.70	0.618	0.063	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.202	0.126	0.02	23.90	21.70	0.603	0.122	22.2



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Back side	15	QPSK 1_38	26865/831.5	1:1	0.361	0.233	-0.02	23.90	21.70	0.603	0.218	22.2
Left side	15	QPSK 1_38	26865/831.5	1:1	0.103	0.068	0.16	23.90	21.70	0.603	0.062	22.2
Top side	15	QPSK 1_38	26865/831.5	1:1	0.275	0.162	0.15	23.90	21.70	0.603	0.166	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	15	QPSK 36_0	26965/841.5	1:1	0.169	0.105	-0.16	22.79	20.70	0.618	0.104	22.2
Back side	15	QPSK 36_0	26965/841.5	1:1	0.245	0.147	0.14	22.79	20.70	0.618	0.151	22.2
Left side	15	QPSK 36_0	26965/841.5	1:1	0.085	0.057	-0.19	22.79	20.70	0.618	0.053	22.2
Top side	15	QPSK 36_0	26965/841.5	1:1	0.215	0.130	0.15	22.79	20.70	0.618	0.133	22.2
Ant 31 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) DSI2												
Left cheek	15	QPSK 1_38	26865/831.5	1:1	0.194	0.136	-0.09	23.81	21.70	0.615	0.119	22.2
Left tilted	15	QPSK 1_38	26865/831.5	1:1	0.114	0.084	-0.18	23.81	21.70	0.615	0.070	22.2
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.132	0.095	0.15	23.81	21.70	0.615	0.081	22.2
Right tilted	15	QPSK 1_38	26865/831.5	1:1	0.089	0.066	0.09	23.81	21.70	0.615	0.055	22.2
Head Test Data (50%RB) DSI2												
Left cheek	15	QPSK 36_18	26965/841.5	1:1	0.155	0.108	-0.14	22.78	20.70	0.619	0.096	22.2
Left tilted	15	QPSK 36_18	26965/841.5	1:1	0.089	0.066	-0.12	22.78	20.70	0.619	0.055	22.2
Right cheek	15	QPSK 36_18	26965/841.5	1:1	0.112	0.080	-0.01	22.78	20.70	0.619	0.069	22.2
Right tilted	15	QPSK 36_18	26965/841.5	1:1	0.070	0.053	-0.08	22.78	20.70	0.619	0.043	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.139	0.101	-0.04	23.81	21.70	0.615	0.086	22.2
Back side	15	QPSK 1_38	26865/831.5	1:1	0.200	0.152	-0.04	23.81	21.70	0.615	0.123	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	15	QPSK 36_18	26965/841.5	1:1	0.108	0.078	0.11	22.78	20.70	0.619	0.067	22.2
Back side	15	QPSK 36_18	26965/841.5	1:1	0.139	0.099	-0.07	22.78	20.70	0.619	0.086	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.168	0.106	0.08	23.81	21.70	0.615	0.103	22.2
Back side	15	QPSK 1_38	26865/831.5	1:1	0.267	0.163	0.05	23.81	21.70	0.615	0.164	22.2
Left side	15	QPSK 1_38	26865/831.5	1:1	0.181	0.119	0.04	23.81	21.70	0.615	0.111	22.2
Right side	15	QPSK 1_38	26865/831.5	1:1	0.106	0.070	0.07	23.81	21.70	0.615	0.065	22.2
Bottom side	15	QPSK 1_38	26865/831.5	1:1	0.261	0.134	0.10	23.81	21.70	0.615	0.161	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	15	QPSK 36_18	26965/841.5	1:1	0.147	0.091	0.19	22.78	20.70	0.619	0.091	22.2
Back side	15	QPSK 36_18	26965/841.5	1:1	0.229	0.138	0.05	22.78	20.70	0.619	0.142	22.2
Left side	15	QPSK 36_18	26965/841.5	1:1	0.151	0.099	0.00	22.78	20.70	0.619	0.094	22.2
Right side	15	QPSK 36_18	26965/841.5	1:1	0.076	0.050	0.12	22.78	20.70	0.619	0.047	22.2
Bottom side	15	QPSK 36_18	26965/841.5	1:1	0.233	0.119	-0.18	22.78	20.70	0.619	0.144	22.2



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8.2.11 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	20	QPSK 1 0	41055/2636.5	1:1.58	0.170	0.082	0.13	18.71	19.20	1.119	0.190	22.4
Left tilted	20	QPSK 1 0	41055/2636.5	1:1.58	0.246	0.116	0.00	18.71	19.20	1.119	0.275	22.4
Right cheek	20	QPSK 1 0	41055/2636.5	1:1.58	0.412	0.203	-0.19	18.71	19.20	1.119	0.461	22.4
Right tilted	20	QPSK 1 0	41055/2636.5	1:1.58	0.549	0.248	-0.14	18.71	19.20	1.119	0.615	22.4
Right tilted	20	QPSK 1 0	39750/2506	1:1.58	0.606	0.258	-0.14	18.65	19.20	1.135	0.688	22.4
Right tilted	20	QPSK 1 0	40185/2549.5	1:1.58	0.535	0.231	0.14	18.52	19.20	1.169	0.626	22.4
Right tilted	20	QPSK 1 50	40620/2593	1:1.58	0.512	0.229	-0.03	18.46	19.20	1.186	0.607	22.4
Right tilted	20	QPSK 1 99	41490/2680	1:1.58	0.705	0.334	-0.09	18.48	19.20	1.180	0.832	22.4
Right tilted	20	QPSK PCC 1 0	41490/2680	1:1	0.668	0.315	-0.06	18.62	19.20	1.143	0.763	22.4
		QPSK SCC 1 99	41292/2660.2									
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 25	41055/2636.5	1:1.58	0.179	0.086	-0.09	18.67	19.20	1.130	0.202	22.4
Left tilted	20	QPSK 50 25	41055/2636.5	1:1.58	0.258	0.121	0.01	18.67	19.20	1.130	0.291	22.4
Right cheek	20	QPSK 50 25	41055/2636.5	1:1.58	0.433	0.215	0.07	18.67	19.20	1.130	0.489	22.4
Right tilted	20	QPSK 50 25	41055/2636.5	1:1.58	0.580	0.264	0.10	18.67	19.20	1.130	0.655	22.4
Right tilted	20	QPSK 50 0	39750/2506	1:1.58	0.588	0.250	0.07	18.61	19.20	1.146	0.674	22.4
Right tilted	20	QPSK 50 50	40185/2549.5	1:1.58	0.514	0.211	-0.08	18.49	19.20	1.178	0.605	22.4
Right tilted	20	QPSK 50 25	40620/2593	1:1.58	0.515	0.230	-0.11	18.45	19.20	1.189	0.612	22.4
Right tilted	20	QPSK 50 0	41490/2680	1:1.58	0.688	0.320	0.08	18.45	19.20	1.189	0.818	22.4
Head Test Data (100%RB) DSI2												
Right tilted	20	QPSK 100 0	39750/2506	1:1.58	0.586	0.248	0.16	18.60	19.20	1.148	0.673	22.4
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	39750/2506	1:1.58	0.150	0.081	-0.08	24.06	24.70	1.159	0.174	22.2
Back side	20	QPSK 1 50	39750/2506	1:1.58	0.462	0.217	0.13	24.06	24.70	1.159	0.535	22.2
Front side	20	QPSK PCC 1 99	39750/2506	1:1	0.445	0.208	0.05	23.95	24.70	1.189	0.529	22.2
		QPSK SCC 1 0	39948/2525.8									
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 25	39750/2506	1:1.58	0.121	0.064	0.17	23.18	23.70	1.127	0.136	22.2
Back side	20	QPSK 50 25	39750/2506	1:1.58	0.354	0.072	-0.13	23.18	23.70	1.127	0.399	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 0	41055/2636.5	1:1.58	0.114	0.056	-0.16	18.71	19.20	1.119	0.128	22.2
Back side	20	QPSK 1 0	41055/2636.5	1:1.58	0.337	0.144	-0.16	18.71	19.20	1.119	0.377	22.2
Left side	20	QPSK 1 0	41055/2636.5	1:1.58	0.063	0.034	0.06	18.71	19.20	1.119	0.071	22.2
Top side	20	QPSK 1 0	41055/2636.5	1:1.58	0.402	0.178	-0.18	18.71	19.20	1.119	0.450	22.2
Left side	20	QPSK PCC 1 0	41055/2636.5	1:1	0.375	0.155	0.17	18.60	19.20	1.148	0.431	22.2
		QPSK SCC 1 99	40857/2616.7									
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 25	41055/2636.5	1:1.58	0.122	0.060	-0.12	18.67	19.20	1.130	0.138	22.2
Back side	20	QPSK 50 25	41055/2636.5	1:1.58	0.351	0.154	0.08	18.67	19.20	1.130	0.397	22.2
Left side	20	QPSK 50 25	41055/2636.5	1:1.58	0.067	0.035	0.15	18.67	19.20	1.130	0.076	22.2
Top side	20	QPSK 50 25	41055/2636.5	1:1.58	0.416	0.184	0.14	18.67	19.20	1.130	0.470	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 1 50	39750/2506	1:1	0.493	0.226	0.11	24.06	24.70	1.159	0.262	22.8
Top side 12mm	20	QPSK 1 50	39750/2506	1:1	0.909	0.415	0.11	24.06	24.70	1.159	0.481	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 50 25	39750/2506	1:1	0.387	0.178	0.16	23.18	23.70	1.127	0.201	22.8
Top side 12mm	20	QPSK 50 25	39750/2506	1:1	0.722	0.331	0.01	23.18	23.70	1.127	0.373	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1 0	41055/2636.5	1:1	2.940	1.160	0.09	20.68	21.20	1.127	1.308	22.8
Top side	20	QPSK 1 0	41055/2636.5	1:1	4.380	1.720	-0.10	20.68	21.20	1.127	1.939	22.8
Top side	20	QPSK 1 0	39750/2506	1:1	4.090	1.660	0.11	20.62	21.20	1.143	1.897	22.8
Top side	20	QPSK 1 50	40185/2549.5	1:1	3.930	1.570	-0.06	20.64	21.20	1.138	1.786	22.8
Top side	20	QPSK 1 50	40620/2593	1:1	3.890	1.520	0.10	20.44	21.20	1.191	1.811	22.8
Top side	20	QPSK 1 99	41490/2680	1:1	5.470	1.960	-0.19	20.66	21.20	1.132	2.220	22.8
Top side	20	QPSK PCC 1 0	41490/2680	1:1	5.120	1.750	-0.10	20.47	21.20	1.183	2.070	22.8
		QPSK SCC 1 99	41292/2660.2									
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	20	QPSK 50 0	41055/2636.5	1:1	3.160	1.210	0.05	20.71	21.20	1.119	1.355	22.8
Top side	20	QPSK 50 0	41055/2636.5	1:1	4.480	1.750	-0.13	20.71	21.20	1.119	1.959	22.8
Top side	20	QPSK 50 0	39750/2506	1:1	4.060	1.650	0.02	20.63	21.20	1.140	1.881	22.8
Top side	20	QPSK 50 25	40185/2549.5	1:1	4.010	1.600	0.16	20.57	21.20	1.156	1.850	22.8
Top side	20	QPSK 50 25	40620/2593	1:1	3.900	1.520	-0.18	20.42	21.20	1.197	1.819	22.8



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Top side	20	QPSK 50 25	41490/2680	1:1	5.410	1.950	0.10	20.62	21.20	1.143	2.229	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Top side	20	QPSK 100 0	41055/2636.5	1:1	4.420	1.720	0.17	20.66	21.20	1.132	1.948	22.8
Ant 31 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) DSI2												
Left cheek	20	QPSK 1 50	40185/2549.5	1:1.58	0.157	0.091	0.03	24.37	24.70	1.079	0.169	22.2
Left tilted	20	QPSK 1 50	40185/2549.5	1:1.58	0.100	0.056	-0.09	24.37	24.70	1.079	0.108	22.2
Right cheek	20	QPSK 1 50	40185/2549.5	1:1.58	0.302	0.168	-0.19	24.37	24.70	1.079	0.326	22.2
Right tilted	20	QPSK 1 50	40185/2549.5	1:1.58	0.148	0.078	0.02	24.37	24.70	1.079	0.160	22.2
Right cheek	20	QPSK PCC 1 99	40185/2549.5	1:1	0.255	0.135	0.06	24.05	24.70	1.161	0.296	22.2
		QPSK SCC 1 0	40383/2569.3									
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	41490/2680	1:1.58	0.094	0.054	-0.15	23.44	23.70	1.062	0.100	22.2
Left tilted	20	QPSK 50 0	41490/2680	1:1.58	0.065	0.036	-0.06	23.44	23.70	1.062	0.069	22.2
Right cheek	20	QPSK 50 0	41490/2680	1:1.58	0.178	0.095	-0.02	23.44	23.70	1.062	0.189	22.2
Right tilted	20	QPSK 50 0	41490/2680	1:1.58	0.079	0.041	-0.08	23.44	23.70	1.062	0.084	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	40185/2549.5	1:1.58	0.207	0.114	-0.17	24.37	24.70	1.079	0.223	22.2
Back side	20	QPSK 1 50	40185/2549.5	1:1.58	0.236	0.129	0.18	24.37	24.70	1.079	0.255	22.2
Front side	20	QPSK PCC 1 99	40185/2549.5	1:1	0.202	0.112	0.00	24.05	24.70	1.161	0.235	22.2
		QPSK SCC 1 0	40383/2569.3									
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 0	41490/2680	1:1.58	0.146	0.079	-0.14	23.44	23.70	1.062	0.155	22.2
Back side	20	QPSK 50 0	41490/2680	1:1.58	0.160	0.086	-0.09	23.44	23.70	1.062	0.170	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 50	40185/2549.5	1:1.58	0.388	0.210	-0.12	24.37	24.70	1.079	0.419	22.2
Back side	20	QPSK 1 50	40185/2549.5	1:1.58	0.470	0.249	0.19	24.37	24.70	1.079	0.507	22.2
Left side	20	QPSK 1 50	40185/2549.5	1:1.58	0.052	0.021	-0.06	24.37	24.70	1.079	0.056	22.2
Right side	20	QPSK 1 50	40185/2549.5	1:1.58	0.354	0.190	0.04	24.37	24.70	1.079	0.382	22.2
Bottom side	20	QPSK 1 50	40185/2549.5	1:1.58	0.312	0.148	-0.17	24.37	24.70	1.079	0.337	22.2
Right side	20	QPSK PCC 1 99	40185/2549.5	1:1	0.424	0.225	0.12	24.05	24.70	1.161	0.492	22.2
		QPSK SCC 1 0	40383/2569.3									
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 0	41490/2680	1:1.58	0.267	0.140	-0.06	23.44	23.70	1.062	0.283	22.2
Back side	20	QPSK 50 0	41490/2680	1:1.58	0.288	0.152	-0.10	23.44	23.70	1.062	0.306	22.2
Left side	20	QPSK 50 0	41490/2680	1:1.58	0.035	0.012	-0.09	23.44	23.70	1.062	0.037	22.2
Right side	20	QPSK 50 0	41490/2680	1:1.58	0.223	0.116	-0.07	23.44	23.70	1.062	0.237	22.2
Bottom side	20	QPSK 50 0	41490/2680	1:1.58	0.173	0.079	-0.14	23.44	23.70	1.062	0.184	22.2
Ant 11 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) DSI2												
Left cheek	20	QPSK 1 50	40185/2549.5	1:1.58	0.306	0.150	-0.12	20.46	21.20	1.186	0.363	22.4
Left tilted	20	QPSK 1 50	40185/2549.5	1:1.58	0.063	0.036	-0.16	20.46	21.20	1.186	0.075	22.4
Right cheek	20	QPSK 1 50	40185/2549.5	1:1.58	0.591	0.264	0.00	20.46	21.20	1.186	0.701	22.4
Right tilted	20	QPSK 1 50	40185/2549.5	1:1.58	0.109	0.058	-0.02	20.46	21.20	1.186	0.129	22.4
Right cheek	20	QPSK 1 0	39750/2506	1:1.58	0.318	0.142	-0.05	20.15	21.20	1.274	0.405	22.4
Right cheek	20	QPSK 1 0	40620/2593	1:1.58	0.668	0.295	0.19	20.33	21.20	1.222	0.816	22.4
Right cheek	20	QPSK 1 0	41055/2636.5	1:1.58	0.690	0.307	0.00	20.43	21.20	1.194	0.824	22.4
Right cheek	20	QPSK 1 0	41490/2680	1:1.58	0.533	0.239	0.12	20.35	21.20	1.216	0.648	22.4
Right cheek	20	QPSK PCC 1 0	41055/2636.5	1:1	0.666	0.288	-0.07	20.28	21.20	1.236	0.823	22.4
		QPSK SCC 1 99	40857/2616.7									
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 25	40185/2549.5	1:1.58	0.297	0.144	0.06	20.34	21.20	1.219	0.362	22.4
Left tilted	20	QPSK 50 25	40185/2549.5	1:1.58	0.055	0.029	0.10	20.34	21.20	1.219	0.067	22.4
Right cheek	20	QPSK 50 25	40185/2549.5	1:1.58	0.590	0.263	0.04	20.34	21.20	1.219	0.719	22.4
Right tilted	20	QPSK 50 25	40185/2549.5	1:1.58	0.110	0.059	0.19	20.34	21.20	1.219	0.134	22.4
Right cheek	20	QPSK 50 0	39750/2506	1:1.58	0.336	0.150	0.04	20.14	21.20	1.276	0.429	22.4
Right cheek	20	QPSK 50 0	40620/2593	1:1.58	0.711	0.285	-0.08	20.28	21.20	1.236	0.879	22.4
Right cheek	20	QPSK 50 25	41055/2636.5	1:1.58	0.648	0.290	-0.04	20.31	21.20	1.227	0.795	22.4
Right cheek	20	QPSK 50 25	41490/2680	1:1.58	0.498	0.224	0.03	20.28	21.20	1.236	0.616	22.4
Head Test Data (100%RB) DSI2												
Right cheek	20	QPSK 100 0	40185/2549.5	1:1.58	0.611	0.274	0.11	20.31	21.20	1.227	0.750	22.4
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 0	41055/2636.5	1:1.58	0.208	0.106	-0.19	23.87	24.70	1.211	0.252	22.6
Back side	20	QPSK 1 0	41055/2636.5	1:1.58	0.590	0.286	0.06	23.87	24.70	1.211	0.714	22.6
Back side	20	QPSK 1 50	39750/2506	1:1.58	0.280	0.137	-0.04	23.68	24.70	1.265	0.354	22.6
Back side	20	QPSK 1 0	40185/2549.5	1:1.58	0.339	0.167	0.00	23.78	24.70	1.236	0.419	22.6
Back side	20	QPSK 1 0	40620/2593	1:1.58	0.499	0.245	-0.14	23.70	24.70	1.259	0.628	22.6
Back side	20	QPSK 1 0	41490/2680	1:1.58	0.496	0.242	-0.19	23.61	24.70	1.285	0.638	22.6



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Back side	20	QPSK PCC 1 0	41055/2636.5	1:1	0.590	0.285	-0.04	23.93	24.70	1.194	0.704	22.6
		QPSK SCC 1 99	40857/2616.7									
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 25	41055/2636.5	1:1.58	0.157	0.064	0.12	22.88	23.70	1.208	0.190	22.6
Back side	20	QPSK 50 25	41055/2636.5	1:1.58	0.421	0.207	-0.06	22.88	23.70	1.208	0.508	22.6
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 0	41490/2680	1:1.58	0.101	0.048	-0.02	18.42	19.20	1.197	0.121	22.6
Back side	20	QPSK 1 0	41490/2680	1:1.58	0.335	0.140	0.01	18.42	19.20	1.197	0.401	22.6
Left side	20	QPSK 1 0	41490/2680	1:1.58	0.469	0.196	0.07	18.42	19.20	1.197	0.561	22.6
Back side	20	QPSK PCC 1 0	41490/2680	1:1	0.462	0.192	0.16	18.45	19.20	1.189	0.549	22.6
		QPSK SCC 1 99	41292/2660.2									
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 0	41490/2680	1:1.58	0.098	0.045	-0.08	18.37	19.20	1.211	0.119	22.6
Back side	20	QPSK 50 0	41490/2680	1:1.58	0.295	0.134	-0.15	18.37	19.20	1.211	0.357	22.6
Left side	20	QPSK 50 0	41490/2680	1:1.58	0.423	0.173	0.05	18.37	19.20	1.211	0.512	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 11mm	20	QPSK 1 0	41055/2636.5	1:1	1.240	0.522	0.04	23.87	24.70	1.211	0.632	22.8
Left side 11mm	20	QPSK 1 0	41055/2636.5	1:1	1.830	0.742	-0.05	23.87	24.70	1.211	0.898	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 11mm	20	QPSK 50 25	41055/2636.5	1:1	0.907	0.403	-0.16	22.88	23.70	1.208	0.487	22.8
Left side 11mm	20	QPSK 50 25	41055/2636.5	1:1	1.410	0.566	-0.01	22.88	23.70	1.208	0.684	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1 0	40185/2549.5	1:1	4.360	1.590	0.13	20.92	21.70	1.197	1.903	22.8
Left side	20	QPSK 1 0	40185/2549.5	1:1	6.040	2.020	-0.13	20.92	21.70	1.197	2.417	22.8
Back side	20	QPSK 1 0	39750/2506	1:1	2.800	1.050	0.05	20.68	21.70	1.265	1.328	22.8
Back side	20	QPSK 1 0	40620/2593	1:1	5.310	1.780	-0.10	20.81	21.70	1.227	2.185	22.8
Back side	20	QPSK 1 0	41055/2636.5	1:1	5.120	1.720	0.11	20.86	21.70	1.213	2.087	22.8
Back side	20	QPSK 1 0	41490/2680	1:1	4.540	1.550	-0.14	20.83	21.70	1.222	1.894	22.8
Left side	20	QPSK 1 0	39750/2506	1:1	4.730	1.780	-0.13	20.68	21.70	1.265	2.251	22.8
Left side	20	QPSK 1 0	40620/2593	1:1	5.370	1.950	0.04	20.81	21.70	1.227	2.394	22.8
Left side	20	QPSK 1 0	41055/2636.5	1:1	4.470	1.630	-0.17	20.86	21.70	1.213	1.978	22.8
Left side	20	QPSK 1 0	41490/2680	1:1	3.740	1.360	0.16	20.83	21.70	1.222	1.662	22.8
Left side	20	QPSK PCC 1 99	40185/2549.5	1:1	6.030	1.990	-0.14	20.88	21.70	1.208	2.404	22.8
		QPSK SCC 1 0	40383/2569.3									
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	20	QPSK 50 0	40185/2549.5	1:1	3.520	1.490	0.02	20.84	21.70	1.219	1.816	22.8
Left side	20	QPSK 50 0	40185/2549.5	1:1	6.270	2.080	-0.16	20.84	21.70	1.219	2.535	22.8
Back side	20	QPSK 50 0	39750/2506	1:1	3.080	1.120	0.12	20.66	21.70	1.271	1.423	22.8
Back side	20	QPSK 50 0	40620/2593	1:1	5.500	1.800	-0.06	20.80	21.70	1.230	2.214	22.8
Back side	20	QPSK 50 0	41055/2636.5	1:1	5.490	1.780	0.12	20.82	21.70	1.225	2.180	22.8
Back side	20	QPSK 50 0	41490/2680	1:1	5.250	1.690	-0.03	20.73	21.70	1.250	2.113	22.8
Left side	20	QPSK 50 0	39750/2506	1:1	5.160	1.850	-0.05	20.66	21.70	1.271	2.351	22.8
Left side	20	QPSK 50 0	40620/2593	1:1	5.580	1.970	0.00	20.80	21.70	1.230	2.424	22.8
Left side	20	QPSK 50 0	41055/2636.5	1:1	4.630	1.620	-0.03	20.82	21.70	1.225	1.984	22.8
Left side	20	QPSK 50 0	41490/2680	1:1	3.910	1.350	0.07	20.73	21.70	1.250	1.688	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 5												
Back side	20	QPSK 100 0	40185/2549.5	1:1	4.590	1.690	-0.19	20.84	21.70	1.219	2.060	22.8
Left side	20	QPSK 100 0	40185/2549.5	1:1	7.580	2.400	0.04	20.84	21.70	1.219	2.926	22.8
Left side with Repeat	20	QPSK 100 0	40185/2549.5	1:1	7.450	2.350	0.04	20.84	21.70	1.219	2.865	22.8
Product specific 10g SAR Test data (1RB) Sensor off DSI 9												
Back side 11mm	20	QPSK 1 0	41055/2636.5	1:1	1.240	0.522	0.04	23.87	19.20	0.341	0.178	22.8
Left side 11mm	20	QPSK 1 0	41055/2636.5	1:1	1.830	0.742	-0.05	23.87	19.20	0.341	0.253	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 9												
Back side 11mm	20	QPSK 50 25	41055/2636.5	1:1	0.907	0.403	-0.16	22.88	19.20	0.429	0.173	22.8
Left side 11mm	20	QPSK 50 25	41055/2636.5	1:1	1.410	0.566	-0.01	22.88	19.20	0.429	0.243	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 8												
Back side	20	QPSK 1 0	40185/2549.5	1:1	4.360	1.590	0.13	20.92	19.20	0.673	1.070	22.8
Left side	20	QPSK 1 0	40185/2549.5	1:1	6.040	2.020	-0.13	20.92	19.20	0.673	1.359	22.8
Back side	20	QPSK 1 0	39750/2506	1:1	2.800	1.050	0.05	20.68	19.20	0.711	0.747	22.8
Back side	20	QPSK 1 0	40620/2593	1:1	5.310	1.780	-0.10	20.81	19.20	0.690	1.229	22.8
Back side	20	QPSK 1 0	41055/2636.5	1:1	5.120	1.720	0.11	20.86	19.20	0.682	1.174	22.8
Back side	20	QPSK 1 0	41490/2680	1:1	4.540	1.550	-0.14	20.83	19.20	0.687	1.065	22.8
Left side	20	QPSK 1 0	39750/2506	1:1	4.730	1.780	-0.13	20.68	19.20	0.711	1.266	22.8
Left side	20	QPSK 1 0	40620/2593	1:1	5.370	1.950	0.04	20.81	19.20	0.690	1.346	22.8
Left side	20	QPSK 1 0	41055/2636.5	1:1	4.470	1.630	-0.17	20.86	19.20	0.682	1.112	22.8
Left side	20	QPSK 1 0	41490/2680	1:1	3.740	1.360	0.16	20.83	19.20	0.687	0.934	22.8
Left side	20	QPSK PCC 1 99	40185/2549.5	1:1	6.030	1.990	-0.14	20.88	19.20	0.679	1.352	22.8
		QPSK SCC 1 0	40383/2569.3									
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 8												
Back side	20	QPSK 50 0	40185/2549.5	1:1	3.520	1.490	0.02	20.84	19.20	0.685	1.021	22.8
Left side	20	QPSK 50 0	40185/2549.5	1:1	6.270	2.080	-0.16	20.84	19.20	0.685	1.426	22.8



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Back side	20	QPSK 50 0	39750/2506	1:1	3.080	1.120	0.12	20.66	19.20	0.714	0.800	22.8
Back side	20	QPSK 50 0	40620/2593	1:1	5.500	1.800	-0.06	20.80	19.20	0.692	1.245	22.8
Back side	20	QPSK 50 0	41055/2636.5	1:1	5.490	1.780	0.12	20.82	19.20	0.689	1.226	22.8
Back side	20	QPSK 50 0	41490/2680	1:1	5.250	1.690	-0.03	20.73	19.20	0.703	1.188	22.8
Left side	20	QPSK 50 0	39750/2506	1:1	5.160	1.850	-0.05	20.66	19.20	0.714	1.322	22.8
Left side	20	QPSK 50 0	40620/2593	1:1	5.580	1.970	0.00	20.80	19.20	0.692	1.363	22.8
Left side	20	QPSK 50 0	41055/2636.5	1:1	4.630	1.620	-0.03	20.82	19.20	0.689	1.116	22.8
Left side	20	QPSK 50 0	41490/2680	1:1	3.910	1.350	0.07	20.73	19.20	0.703	0.949	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 8												
Back side	20	QPSK 100 0	40185/2549.5	1:1	4.590	1.690	-0.19	20.84	19.20	0.685	1.158	22.8
Left side	20	QPSK 100 0	40185/2549.5	1:1	7.580	2.400	0.04	20.84	19.20	0.685	1.645	22.8
Left side with Repeat	20	QPSK 100 0	40185/2549.5	1:1	7.450	2.350	0.04	20.84	19.20	0.685	1.611	22.8
ENDC&ULCA LTE Band 41 SAR Evaluate data												
Ant 13 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) DSI2												
Left cheek	20	QPSK 1 0	41055/2636.5	1:1.58	0.170	0.082	0.13	18.71	16.20	0.561	0.095	22.4
Left tilted	20	QPSK 1 0	41055/2636.5	1:1.58	0.246	0.116	0.00	18.71	16.20	0.561	0.138	22.4
Right cheek	20	QPSK 1 0	41055/2636.5	1:1.58	0.412	0.203	-0.19	18.71	16.20	0.561	0.231	22.4
Right tilted	20	QPSK 1 0	41055/2636.5	1:1.58	0.549	0.248	-0.14	18.71	16.20	0.561	0.308	22.4
Right tilted	20	QPSK 1 0	39750/2506	1:1.58	0.606	0.258	-0.14	18.65	16.20	0.569	0.345	22.4
Right tilted	20	QPSK 1 0	40185/2549.5	1:1.58	0.535	0.231	0.14	18.52	16.20	0.586	0.314	22.4
Right tilted	20	QPSK 1 50	40620/2593	1:1.58	0.512	0.229	-0.03	18.46	16.20	0.594	0.304	22.4
Right tilted	20	QPSK 1 99	41490/2680	1:1.58	0.705	0.334	-0.09	18.48	16.20	0.592	0.417	22.4
Right tilted	20	QPSK PCC 1 0	41490/2680	1:1	0.668	0.315	-0.06	18.62	16.20	0.573	0.383	22.4
		QPSK SCC 1 99	41292/2660.2									
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 25	41055/2636.5	1:1.58	0.179	0.086	-0.09	18.67	16.20	0.566	0.101	22.4
Left tilted	20	QPSK 50 25	41055/2636.5	1:1.58	0.258	0.121	0.01	18.67	16.20	0.566	0.146	22.4
Right cheek	20	QPSK 50 25	41055/2636.5	1:1.58	0.433	0.215	0.07	18.67	16.20	0.566	0.245	22.4
Right tilted	20	QPSK 50 25	41055/2636.5	1:1.58	0.580	0.264	0.10	18.67	16.20	0.566	0.328	22.4
Right tilted	20	QPSK 50 0	39750/2506	1:1.58	0.588	0.250	0.07	18.61	16.20	0.574	0.338	22.4
Right tilted	20	QPSK 50 50	40185/2549.5	1:1.58	0.514	0.211	-0.08	18.49	16.20	0.590	0.303	22.4
Right tilted	20	QPSK 50 25	40620/2593	1:1.58	0.515	0.230	-0.11	18.45	16.20	0.596	0.307	22.4
Right tilted	20	QPSK 50 0	41490/2680	1:1.58	0.688	0.320	0.08	18.45	16.20	0.596	0.410	22.4
Head Test Data (100%RB) DSI2												
Right tilted	20	QPSK 100 0	39750/2506	1:1.58	0.586	0.248	0.16	18.60	16.20	0.575	0.337	22.4
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	39750/2506	1:1.58	0.150	0.081	-0.08	24.06	21.70	0.581	0.087	22.2
Back side	20	QPSK 1 50	39750/2506	1:1.58	0.462	0.217	0.13	24.06	21.70	0.581	0.268	22.2
Front side	20	QPSK PCC 1 99	39750/2506	1:1	0.445	0.208	0.05	23.95	21.70	0.596	0.265	22.2
		QPSK SCC 1 0	39948/2525.8									
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 25	39750/2506	1:1.58	0.121	0.064	0.17	23.18	21.70	0.711	0.086	22.2
Back side	20	QPSK 50 25	39750/2506	1:1.58	0.354	0.072	-0.13	23.18	21.70	0.711	0.252	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 0	41055/2636.5	1:1.58	0.114	0.056	-0.16	18.71	16.20	0.561	0.064	22.2
Back side	20	QPSK 1 0	41055/2636.5	1:1.58	0.337	0.144	-0.16	18.71	16.20	0.561	0.189	22.2
Left side	20	QPSK 1 0	41055/2636.5	1:1.58	0.063	0.034	0.06	18.71	16.20	0.561	0.035	22.2
Top side	20	QPSK 1 0	41055/2636.5	1:1.58	0.402	0.178	-0.18	18.71	16.20	0.561	0.226	22.2
Left side	20	QPSK PCC 1 0	41055/2636.5	1:1	0.375	0.155	0.17	18.60	16.20	0.575	0.216	22.2
		QPSK SCC 1 99	40857/2616.7									
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 25	41055/2636.5	1:1.58	0.122	0.060	-0.12	18.67	16.20	0.566	0.069	22.2
Back side	20	QPSK 50 25	41055/2636.5	1:1.58	0.351	0.154	0.08	18.67	16.20	0.566	0.199	22.2
Left side	20	QPSK 50 25	41055/2636.5	1:1.58	0.067	0.035	0.15	18.67	16.20	0.566	0.038	22.2
Top side	20	QPSK 50 25	41055/2636.5	1:1.58	0.416	0.184	0.14	18.67	16.20	0.566	0.236	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 1 50	39750/2506	1:1	0.493	0.226	0.11	24.06	21.70	0.581	0.131	22.8
Top side 12mm	20	QPSK 1 50	39750/2506	1:1	0.909	0.415	0.11	24.06	21.70	0.581	0.241	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 16mm	20	QPSK 50 25	39750/2506	1:1	0.387	0.178	0.16	23.18	21.70	0.711	0.127	22.8
Top side 12mm	20	QPSK 50 25	39750/2506	1:1	0.722	0.331	0.01	23.18	21.70	0.711	0.235	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1 0	41055/2636.5	1:1	2.940	1.160	0.09	20.68	18.20	0.565	0.655	22.8
Top side	20	QPSK 1 0	41055/2636.5	1:1	4.380	1.720	-0.10	20.68	18.20	0.565	0.972	22.8
Top side	20	QPSK 1 0	39750/2506	1:1	4.090	1.660	0.11	20.62	18.20	0.573	0.951	22.8
Top side	20	QPSK 1 50	40185/2549.5	1:1	3.930	1.570	-0.06	20.64	18.20	0.570	0.895	22.8
Top side	20	QPSK 1 50	40620/2593	1:1	3.890	1.520	0.10	20.44	18.20	0.597	0.907	22.8



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Top side	20	QPSK 1 99	41490/2680	1:1	5.470	1.960	-0.19	20.66	18.20	0.568	1.112	22.8
Top side	20	QPSK PCC 1 0	41490/2680	1:1	5.120	1.750	-0.10	20.47	18.20	0.593	1.038	22.8
		QPSK SCC 1 99	41292/2660.2									
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	20	QPSK 50 0	41055/2636.5	1:1	3.160	1.210	0.05	20.71	18.20	0.561	0.679	22.8
Top side	20	QPSK 50 0	41055/2636.5	1:1	4.480	1.750	-0.13	20.71	18.20	0.561	0.982	22.8
Top side	20	QPSK 50 0	39750/2506	1:1	4.060	1.650	0.02	20.63	18.20	0.571	0.943	22.8
Top side	20	QPSK 50 25	40185/2549.5	1:1	4.010	1.600	0.16	20.57	18.20	0.579	0.927	22.8
Top side	20	QPSK 50 25	40620/2593	1:1	3.900	1.520	-0.18	20.42	18.20	0.600	0.912	22.8
Top side	20	QPSK 50 25	41490/2680	1:1	5.410	1.950	0.10	20.62	18.20	0.573	1.117	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Top side	20	QPSK 100 0	41055/2636.5	1:1	4.420	1.720	0.17	20.66	18.20	0.568	0.976	22.8
Ant 31 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) DSI2												
Left cheek	20	QPSK 1 50	40185/2549.5	1:1.58	0.157	0.091	0.03	24.37	21.70	0.541	0.085	22.2
Left tilted	20	QPSK 1 50	40185/2549.5	1:1.58	0.100	0.056	-0.09	24.37	21.70	0.541	0.054	22.2
Right cheek	20	QPSK 1 50	40185/2549.5	1:1.58	0.302	0.168	-0.19	24.37	21.70	0.541	0.163	22.2
Right tilted	20	QPSK 1 50	40185/2549.5	1:1.58	0.148	0.078	0.02	24.37	21.70	0.541	0.080	22.2
Right cheek	20	QPSK PCC 1 99	40185/2549.5	1:1	0.255	0.135	0.06	24.05	21.70	0.582	0.148	22.2
		QPSK SCC 1 0	40383/2569.3									
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 0	41490/2680	1:1.58	0.094	0.054	-0.15	23.44	21.70	0.670	0.063	22.2
Left tilted	20	QPSK 50 0	41490/2680	1:1.58	0.065	0.036	-0.06	23.44	21.70	0.670	0.044	22.2
Right cheek	20	QPSK 50 0	41490/2680	1:1.58	0.178	0.095	-0.02	23.44	21.70	0.670	0.119	22.2
Right tilted	20	QPSK 50 0	41490/2680	1:1.58	0.079	0.041	-0.08	23.44	21.70	0.670	0.053	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 50	40185/2549.5	1:1.58	0.207	0.114	-0.17	24.37	21.70	0.541	0.112	22.2
Back side	20	QPSK 1 50	40185/2549.5	1:1.58	0.236	0.129	0.18	24.37	21.70	0.541	0.128	22.2
Front side	20	QPSK PCC 1 99	40185/2549.5	1:1	0.202	0.112	0.00	24.05	21.70	0.582	0.118	22.2
		QPSK SCC 1 0	40383/2569.3									
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 0	41490/2680	1:1.58	0.146	0.079	-0.14	23.44	21.70	0.670	0.098	22.2
Back side	20	QPSK 50 0	41490/2680	1:1.58	0.160	0.086	-0.09	23.44	21.70	0.670	0.107	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 50	40185/2549.5	1:1.58	0.388	0.210	-0.12	24.37	21.70	0.541	0.210	22.2
Back side	20	QPSK 1 50	40185/2549.5	1:1.58	0.470	0.249	0.19	24.37	21.70	0.541	0.254	22.2
Left side	20	QPSK 1 50	40185/2549.5	1:1.58	0.052	0.021	-0.06	24.37	21.70	0.541	0.028	22.2
Right side	20	QPSK 1 50	40185/2549.5	1:1.58	0.354	0.190	0.04	24.37	21.70	0.541	0.191	22.2
Bottom side	20	QPSK 1 50	40185/2549.5	1:1.58	0.312	0.148	-0.17	24.37	21.70	0.541	0.169	22.2
Right side	20	QPSK PCC 1 99	40185/2549.5	1:1	0.424	0.225	0.12	24.05	21.70	0.582	0.247	22.2
		QPSK SCC 1 0	40383/2569.3									
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 0	41490/2680	1:1.58	0.267	0.140	-0.06	23.44	21.70	0.670	0.179	22.2
Back side	20	QPSK 50 0	41490/2680	1:1.58	0.288	0.152	-0.10	23.44	21.70	0.670	0.193	22.2
Left side	20	QPSK 50 0	41490/2680	1:1.58	0.035	0.012	-0.09	23.44	21.70	0.670	0.023	22.2
Right side	20	QPSK 50 0	41490/2680	1:1.58	0.223	0.116	-0.07	23.44	21.70	0.670	0.149	22.2
Bottom side	20	QPSK 50 0	41490/2680	1:1.58	0.173	0.079	-0.14	23.44	21.70	0.670	0.116	22.2



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8.2.12 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	20	QPSK 1 99	132072/1720	1:1	0.327	0.188	-0.18	18.25	19.00	1.189	0.389	22.2
Left tilted	20	QPSK 1 99	132072/1720	1:1	0.411	0.227	-0.13	18.25	19.00	1.189	0.488	22.2
Right cheek	20	QPSK 1 99	132072/1720	1:1	0.522	0.258	0.13	18.25	19.00	1.189	0.620	22.2
Right tilted	20	QPSK 1 99	132072/1720	1:1	0.658	0.325	0.00	18.25	19.00	1.189	0.782	22.2
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 50	132072/1720	1:1	0.321	0.184	-0.07	18.31	19.00	1.172	0.376	22.2
Left tilted	20	QPSK 50 50	132072/1720	1:1	0.412	0.226	-0.10	18.31	19.00	1.172	0.483	22.2
Right cheek	20	QPSK 50 50	132072/1720	1:1	0.523	0.257	0.10	18.31	19.00	1.172	0.613	22.2
Right tilted	20	QPSK 50 50	132072/1720	1:1	0.590	0.290	0.16	18.31	19.00	1.172	0.692	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 0	132322/1745	1:1	0.262	0.152	0.12	23.75	24.50	1.189	0.311	22.2
Back side	20	QPSK 1 0	132322/1745	1:1	0.445	0.268	0.01	23.75	24.50	1.189	0.529	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 50	132072/1720	1:1	0.194	0.112	-0.12	22.79	23.50	1.178	0.228	22.2
Back side	20	QPSK 50 50	132072/1720	1:1	0.261	0.159	-0.12	22.79	23.50	1.178	0.307	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 99	132072/1720	1:1	0.171	0.094	-0.01	19.25	20.00	1.189	0.203	22.2
Back side	20	QPSK 1 99	132072/1720	1:1	0.243	0.138	0.18	19.25	20.00	1.189	0.289	22.2
Left side	20	QPSK 1 99	132072/1720	1:1	0.076	0.041	0.15	19.25	20.00	1.189	0.090	22.2
Top side	20	QPSK 1 99	132072/1720	1:1	0.369	0.178	0.19	19.25	20.00	1.189	0.439	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 50	132072/1720	1:1	0.175	0.094	-0.08	19.36	20.00	1.159	0.203	22.2
Back side	20	QPSK 50 50	132072/1720	1:1	0.236	0.136	0.02	19.36	20.00	1.159	0.273	22.2
Left side	20	QPSK 50 50	132072/1720	1:1	0.071	0.038	-0.15	19.36	20.00	1.159	0.082	22.2
Top side	20	QPSK 50 50	132072/1720	1:1	0.371	0.180	-0.11	19.36	20.00	1.159	0.430	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Top side 12mm	20	QPSK 1 0	132322/1745	1:1	0.876	0.452	-0.07	23.75	24.50	1.189	0.537	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Top side 12mm	20	QPSK 50 50	132072/1720	1:1	0.648	0.334	-0.09	22.79	23.50	1.178	0.393	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Top side	20	QPSK 1 99	132072/1720	1:1	4.090	1.690	-0.12	20.77	21.50	1.183	1.999	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Top side	20	QPSK 50 50	132072/1720	1:1	4.170	1.730	0.02	20.82	21.50	1.169	2.023	22.8
Top side	20	QPSK 50 50	132322/1745	1:1	4.310	1.770	-0.13	20.68	21.50	1.208	2.138	22.8
Top side	20	QPSK 50 50	132572/1770	1:1	4.590	1.970	0.02	20.68	21.50	1.208	2.379	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 5												
Top side	20	QPSK 100 0	132072/1720	1:1	4.210	1.720	0.01	20.77	21.50	1.183	2.035	22.8
Ant 31 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) DSI2												
Left cheek	20	QPSK 1 0	132322/1745	1:1	0.082	0.052	-0.07	23.76	24.50	1.186	0.097	22.2
Left tilted	20	QPSK 1 0	132322/1745	1:1	0.035	0.022	0.19	23.76	24.50	1.186	0.042	22.2
Right cheek	20	QPSK 1 0	132322/1745	1:1	0.042	0.028	0.14	23.76	24.50	1.186	0.050	22.2
Right tilted	20	QPSK 1 0	132322/1745	1:1	0.026	0.012	0.08	23.76	24.50	1.186	0.031	22.2
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 50	132072/1720	1:1	0.064	0.040	0.14	22.80	23.50	1.175	0.075	22.2
Left tilted	20	QPSK 50 50	132072/1720	1:1	0.021	0.011	-0.02	22.80	23.50	1.175	0.025	22.2
Right cheek	20	QPSK 50 50	132072/1720	1:1	0.038	0.022	-0.05	22.80	23.50	1.175	0.045	22.2
Right tilted	20	QPSK 50 50	132072/1720	1:1	0.015	0.008	0.16	22.80	23.50	1.175	0.018	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 0	132072/1720	1:1	0.102	0.064	0.18	21.30	22.00	1.175	0.120	22.2
Back side	20	QPSK 1 0	132072/1720	1:1	0.201	0.119	-0.11	21.30	22.00	1.175	0.236	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 50	132072/1720	1:1	0.100	0.063	-0.10	21.33	22.00	1.167	0.117	22.2
Back side	20	QPSK 50 50	132072/1720	1:1	0.195	0.116	0.19	21.33	22.00	1.167	0.228	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 0	132072/1720	1:1	0.169	0.100	0.15	21.30	22.00	1.175	0.199	22.2
Back side	20	QPSK 1 0	132072/1720	1:1	0.403	0.227	0.09	21.30	22.00	1.175	0.473	22.2
Left side	20	QPSK 1 0	132072/1720	1:1	0.043	0.025	0.12	21.30	22.00	1.175	0.051	22.2
Right side	20	QPSK 1 0	132072/1720	1:1	0.073	0.042	0.07	21.30	22.00	1.175	0.086	22.2



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Bottom side	20	QPSK 1 0	132072/1720	1:1	0.458	0.275	0.11	21.30	22.00	1.175	0.538	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 50	132072/1720	1:1	0.179	0.105	0.15	21.33	22.00	1.167	0.209	22.2
Back side	20	QPSK 50 50	132072/1720	1:1	0.402	0.232	-0.02	21.33	22.00	1.167	0.469	22.2
Left side	20	QPSK 50 50	132072/1720	1:1	0.049	0.028	-0.05	21.33	22.00	1.167	0.057	22.2
Right side	20	QPSK 50 50	132072/1720	1:1	0.077	0.043	-0.04	21.33	22.00	1.167	0.090	22.2
Bottom side	20	QPSK 50 50	132072/1720	1:1	0.540	0.310	0.00	21.33	22.00	1.167	0.630	22.2
Ant 11 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) DSI2												
Left cheek	20	QPSK 1 99	132072/1720	1:1	0.319	0.196	0.02	22.08	22.20	1.028	0.328	22.4
Left tilted	20	QPSK 1 99	132072/1720	1:1	0.157	0.095	-0.19	22.08	22.20	1.028	0.161	22.4
Right cheek	20	QPSK 1 99	132072/1720	1:1	0.605	0.327	0.19	22.08	22.20	1.028	0.622	22.4
Right tilted	20	QPSK 1 99	132072/1720	1:1	0.166	0.100	-0.08	22.08	22.20	1.028	0.171	22.4
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 50	132072/1720	1:1	0.312	0.191	-0.07	22.12	22.20	1.019	0.318	22.4
Left tilted	20	QPSK 50 50	132072/1720	1:1	0.141	0.085	0.12	22.12	22.20	1.019	0.144	22.4
Right cheek	20	QPSK 50 50	132072/1720	1:1	0.593	0.320	-0.17	22.12	22.20	1.019	0.604	22.4
Right tilted	20	QPSK 50 50	132072/1720	1:1	0.161	0.098	0.06	22.12	22.20	1.019	0.164	22.4
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 99	132072/1720	1:1	0.136	0.076	0.02	24.17	24.20	1.007	0.137	22.6
Back side	20	QPSK 1 99	132072/1720	1:1	0.307	0.162	-0.06	24.17	24.20	1.007	0.309	22.6
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 25	132072/1720	1:1	0.100	0.057	-0.14	23.09	23.20	1.026	0.103	22.6
Back side	20	QPSK 50 25	132072/1720	1:1	0.226	0.121	-0.01	23.09	23.20	1.026	0.232	22.6
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 99	132072/1720	1:1	0.082	0.044	-0.19	19.03	19.20	1.040	0.085	22.8
Back side	20	QPSK 1 99	132072/1720	1:1	0.216	0.106	0.05	19.03	19.20	1.040	0.225	22.8
Left side	20	QPSK 1 99	132072/1720	1:1	0.230	0.121	0.14	19.03	19.20	1.040	0.239	22.8
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 50	132072/1720	1:1	0.079	0.044	0.01	19.07	19.20	1.030	0.081	22.8
Back side	20	QPSK 50 50	132072/1720	1:1	0.210	0.106	-0.03	19.07	19.20	1.030	0.216	22.8
Left side	20	QPSK 50 50	132072/1720	1:1	0.223	0.118	-0.16	19.07	19.20	1.030	0.230	22.8
ENDC&ULCA LTE Band 66 SAR Evaluate data												
Ant 13 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) DSI2												
Left cheek	20	QPSK 1 99	132072/1720	1:1	0.327	0.188	-0.18	18.25	16.00	0.596	0.195	22.2
Left tilted	20	QPSK 1 99	132072/1720	1:1	0.411	0.227	-0.13	18.25	16.00	0.596	0.245	22.2
Right cheek	20	QPSK 1 99	132072/1720	1:1	0.522	0.258	0.13	18.25	16.00	0.596	0.311	22.2
Right tilted	20	QPSK 1 99	132072/1720	1:1	0.658	0.325	0.00	18.25	16.00	0.596	0.392	22.2
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 50	132072/1720	1:1	0.321	0.184	-0.07	18.31	16.00	0.587	0.189	22.2
Left tilted	20	QPSK 50 50	132072/1720	1:1	0.412	0.226	-0.10	18.31	16.00	0.587	0.242	22.2
Right cheek	20	QPSK 50 50	132072/1720	1:1	0.523	0.257	0.10	18.31	16.00	0.587	0.307	22.2
Right tilted	20	QPSK 50 50	132072/1720	1:1	0.590	0.290	0.16	18.31	16.00	0.587	0.347	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 0	132322/1745	1:1	0.262	0.152	0.12	23.75	21.50	0.596	0.156	22.2
Back side	20	QPSK 1 0	132322/1745	1:1	0.445	0.268	0.01	23.75	21.50	0.596	0.265	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 50	132072/1720	1:1	0.194	0.112	-0.12	22.79	21.50	0.743	0.144	22.2
Back side	20	QPSK 50 50	132072/1720	1:1	0.261	0.159	-0.12	22.79	21.50	0.743	0.194	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 99	132072/1720	1:1	0.171	0.094	-0.01	19.25	17.00	0.596	0.102	22.2
Back side	20	QPSK 1 99	132072/1720	1:1	0.243	0.138	0.18	19.25	17.00	0.596	0.145	22.2
Left side	20	QPSK 1 99	132072/1720	1:1	0.076	0.041	0.15	19.25	17.00	0.596	0.045	22.2
Top side	20	QPSK 1 99	132072/1720	1:1	0.369	0.178	0.19	19.25	17.00	0.596	0.220	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 50	132072/1720	1:1	0.175	0.094	-0.08	19.36	17.00	0.581	0.102	22.2
Back side	20	QPSK 50 50	132072/1720	1:1	0.236	0.136	0.02	19.36	17.00	0.581	0.137	22.2
Left side	20	QPSK 50 50	132072/1720	1:1	0.071	0.038	-0.15	19.36	17.00	0.581	0.041	22.2
Top side	20	QPSK 50 50	132072/1720	1:1	0.371	0.180	-0.11	19.36	17.00	0.581	0.215	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Top side 12mm	20	QPSK 1 0	132322/1745	1:1	0.876	0.452	-0.07	23.75	21.50	0.596	0.269	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Top side 12mm	20	QPSK 50 50	132072/1720	1:1	0.648	0.334	-0.09	22.79	21.50	0.743	0.248	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Top side	20	QPSK 1 99	132072/1720	1:1	4.090	1.690	-0.12	20.77	18.50	0.593	1.002	22.8



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Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Top side	20	QPSK 50 50	132072/1720	1:1	4.170	1.730	0.02	20.82	18.50	0.586	1.014	22.8
Top side	20	QPSK 50 50	132322/1745	1:1	4.310	1.770	-0.13	20.68	18.50	0.605	1.071	22.8
Top side	20	QPSK 50 50	132572/1770	1:1	4.590	1.970	0.02	20.68	18.50	0.605	1.193	22.8
Product specific 10g SAR Test data (Separate 0mm 100RB) Sensor on DSI 5												
Top side	20	QPSK 100 0	132072/1720	1:1	4.210	1.720	0.01	20.77	18.50	0.593	1.020	22.8
Ant 31 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) DSI2												
Left cheek	20	QPSK 1 0	132322/1745	1:1	0.082	0.052	-0.07	23.76	21.50	0.594	0.049	22.2
Left tilted	20	QPSK 1 0	132322/1745	1:1	0.035	0.022	0.19	23.76	21.50	0.594	0.021	22.2
Right cheek	20	QPSK 1 0	132322/1745	1:1	0.042	0.028	0.14	23.76	21.50	0.594	0.025	22.2
Right tilted	20	QPSK 1 0	132322/1745	1:1	0.026	0.012	0.08	23.76	21.50	0.594	0.015	22.2
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 50	132072/1720	1:1	0.064	0.040	0.14	22.80	21.50	0.741	0.047	22.2
Left tilted	20	QPSK 50 50	132072/1720	1:1	0.021	0.011	-0.02	22.80	21.50	0.741	0.016	22.2
Right cheek	20	QPSK 50 50	132072/1720	1:1	0.038	0.022	-0.05	22.80	21.50	0.741	0.028	22.2
Right tilted	20	QPSK 50 50	132072/1720	1:1	0.015	0.008	0.16	22.80	21.50	0.741	0.011	22.2
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 0	132072/1720	1:1	0.102	0.064	0.18	21.30	19.00	0.589	0.060	22.2
Back side	20	QPSK 1 0	132072/1720	1:1	0.201	0.119	-0.11	21.30	19.00	0.589	0.118	22.2
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 50	132072/1720	1:1	0.100	0.063	-0.10	21.33	19.00	0.585	0.058	22.2
Back side	20	QPSK 50 50	132072/1720	1:1	0.195	0.116	0.19	21.33	19.00	0.585	0.114	22.2
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 0	132072/1720	1:1	0.169	0.100	0.15	21.30	19.00	0.589	0.100	22.2
Back side	20	QPSK 1 0	132072/1720	1:1	0.403	0.227	0.09	21.30	19.00	0.589	0.237	22.2
Left side	20	QPSK 1 0	132072/1720	1:1	0.043	0.025	0.12	21.30	19.00	0.589	0.025	22.2
Right side	20	QPSK 1 0	132072/1720	1:1	0.073	0.042	0.07	21.30	19.00	0.589	0.043	22.2
Bottom side	20	QPSK 1 0	132072/1720	1:1	0.458	0.275	0.11	21.30	19.00	0.589	0.270	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 50	132072/1720	1:1	0.179	0.105	0.15	21.33	19.00	0.585	0.105	22.2
Back side	20	QPSK 50 50	132072/1720	1:1	0.402	0.232	-0.02	21.33	19.00	0.585	0.235	22.2
Left side	20	QPSK 50 50	132072/1720	1:1	0.049	0.028	-0.05	21.33	19.00	0.585	0.029	22.2
Right side	20	QPSK 50 50	132072/1720	1:1	0.077	0.043	-0.04	21.33	19.00	0.585	0.045	22.2
Bottom side	20	QPSK 50 50	132072/1720	1:1	0.540	0.310	0.00	21.33	19.00	0.585	0.316	22.2
Ant 11 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) DSI2												
Left cheek	20	QPSK 1 99	132072/1720	1:1	0.319	0.196	0.02	22.08	19.20	0.515	0.164	22.4
Left tilted	20	QPSK 1 99	132072/1720	1:1	0.157	0.095	-0.19	22.08	19.20	0.515	0.081	22.4
Right cheek	20	QPSK 1 99	132072/1720	1:1	0.605	0.327	0.19	22.08	19.20	0.515	0.312	22.4
Right tilted	20	QPSK 1 99	132072/1720	1:1	0.166	0.100	-0.08	22.08	19.20	0.515	0.086	22.4
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50 50	132072/1720	1:1	0.312	0.191	-0.07	22.12	19.20	0.511	0.159	22.4
Left tilted	20	QPSK 50 50	132072/1720	1:1	0.141	0.085	0.12	22.12	19.20	0.511	0.072	22.4
Right cheek	20	QPSK 50 50	132072/1720	1:1	0.593	0.320	-0.17	22.12	19.20	0.511	0.303	22.4
Right tilted	20	QPSK 50 50	132072/1720	1:1	0.161	0.098	0.06	22.12	19.20	0.511	0.082	22.4
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1 99	132072/1720	1:1	0.136	0.076	0.02	24.17	21.20	0.505	0.069	22.6
Back side	20	QPSK 1 99	132072/1720	1:1	0.307	0.162	-0.06	24.17	21.20	0.505	0.155	22.6
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50 25	132072/1720	1:1	0.100	0.057	-0.14	23.09	21.20	0.647	0.065	22.6
Back side	20	QPSK 50 25	132072/1720	1:1	0.226	0.121	-0.01	23.09	21.20	0.647	0.146	22.6
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1 99	132072/1720	1:1	0.082	0.044	-0.19	19.03	16.20	0.521	0.043	22.8
Back side	20	QPSK 1 99	132072/1720	1:1	0.216	0.106	0.05	19.03	16.20	0.521	0.113	22.8
Left side	20	QPSK 1 99	132072/1720	1:1	0.230	0.121	0.14	19.03	16.20	0.521	0.120	22.8
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50 50	132072/1720	1:1	0.079	0.044	0.01	19.07	16.20	0.516	0.041	22.8
Back side	20	QPSK 50 50	132072/1720	1:1	0.210	0.106	-0.03	19.07	16.20	0.516	0.108	22.8
Left side	20	QPSK 50 50	132072/1720	1:1	0.223	0.118	-0.16	19.07	16.20	0.516	0.115	22.8



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8.2.13 SAR Result of NR Band n2

SA N2 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	20	QPSK 1_104	372000/1860	100%	0.284	0.167	0.14	16.64	17.20	1.138	0.323	22.1
Left tilted	20	QPSK 1_104	372000/1860	100%	0.315	0.178	-0.02	16.64	17.20	1.138	0.358	22.1
Right cheek	20	QPSK 1_104	372000/1860	100%	0.488	0.242	0.01	16.64	17.20	1.138	0.555	22.1
Right tilted	20	QPSK 1_104	372000/1860	100%	0.461	0.228	0.17	16.64	17.20	1.138	0.524	22.1
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50_28	372000/1860	100%	0.275	0.160	-0.12	16.50	17.20	1.175	0.323	22.1
Left tilted	20	QPSK 50_28	372000/1860	100%	0.300	0.170	0.07	16.50	17.20	1.175	0.352	22.1
Right cheek	20	QPSK 50_28	372000/1860	100%	0.456	0.233	0.19	16.50	17.20	1.175	0.536	22.1
Right tilted	20	QPSK 50_28	372000/1860	100%	0.438	0.217	-0.14	16.50	17.20	1.175	0.515	22.1
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1_1	380000/1900	100%	0.413	0.241	0.01	23.63	24.20	1.140	0.471	22.1
Back side	20	QPSK 1_1	380000/1900	100%	0.612	0.327	0.01	23.63	24.20	1.140	0.698	22.1
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50_28	376000/1880	100%	0.381	0.219	0.11	23.50	24.20	1.175	0.448	22.1
Back side	20	QPSK 50_28	376000/1880	100%	0.587	0.334	-0.10	23.50	24.20	1.175	0.690	22.1
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1_104	372000/1860	100%	0.189	0.102	0.12	18.12	18.70	1.143	0.216	22.1
Back side	20	QPSK 1_104	372000/1860	100%	0.274	0.147	-0.04	18.12	18.70	1.143	0.313	22.1
Left side	20	QPSK 1_104	372000/1860	100%	0.087	0.048	0.15	18.12	18.70	1.143	0.099	22.1
Top side	20	QPSK 1_104	372000/1860	100%	0.349	0.180	0.00	18.12	18.70	1.143	0.399	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50_28	372000/1860	100%	0.180	0.096	-0.05	18.01	18.70	1.172	0.211	22.1
Back side	20	QPSK 50_28	372000/1860	100%	0.260	0.141	0.07	18.01	18.70	1.172	0.305	22.1
Left side	20	QPSK 50_28	372000/1860	100%	0.082	0.046	0.17	18.01	18.70	1.172	0.096	22.1
Top side	20	QPSK 50_28	372000/1860	100%	0.325	0.175	-0.01	18.01	18.70	1.172	0.381	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Top side 12mm	20	QPSK 1_1	380000/1900	100%	1.250	0.657	-0.17	23.63	24.20	1.140	0.749	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Top side 12mm	20	QPSK 50_28	376000/1880	100%	1.310	0.668	-0.09	23.50	24.20	1.175	0.785	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Top side	20	QPSK 1_104	372000/1860	100%	3.690	1.470	0.01	20.67	21.20	1.130	1.661	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Top side	20	QPSK 50_28	372000/1860	100%	3.950	1.500	-0.07	20.46	21.20	1.186	1.779	22.8



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Ant 31 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) DSI2												
Left cheek	20	QPSK 1_104	372000/1860	100%	0.083	0.050	0.07	23.55	24.20	1.161	0.096	22.1
Left tilted	20	QPSK 1_104	372000/1860	100%	0.052	0.031	-0.10	23.55	24.20	1.161	0.060	22.1
Right cheek	20	QPSK 1_104	372000/1860	100%	0.077	0.047	0.07	23.55	24.20	1.161	0.089	22.1
Right tilted	20	QPSK 1_104	372000/1860	100%	0.060	0.038	-0.04	23.55	24.20	1.161	0.070	22.1
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50_28	372000/1860	100%	0.089	0.054	0.17	23.37	24.20	1.211	0.108	22.1
Left tilted	20	QPSK 50_28	372000/1860	100%	0.052	0.032	0.16	23.37	24.20	1.211	0.063	22.1
Right cheek	20	QPSK 50_28	372000/1860	100%	0.080	0.049	0.09	23.37	24.20	1.211	0.097	22.1
Right tilted	20	QPSK 50_28	372000/1860	100%	0.064	0.039	0.18	23.37	24.20	1.211	0.077	22.1
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1_104	372000/1860	100%	0.081	0.050	-0.11	20.60	21.20	1.148	0.093	22.1
Back side	20	QPSK 1_104	372000/1860	100%	0.194	0.114	0.09	20.60	21.20	1.148	0.223	22.1
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50_28	376000/1880	100%	0.093	0.057	0.14	20.40	21.20	1.202	0.112	22.3
Back side	20	QPSK 50_28	376000/1880	100%	0.207	0.121	-0.14	20.40	21.20	1.202	0.249	22.3
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1_104	372000/1860	100%	0.100	0.060	-0.18	20.60	21.20	1.148	0.115	22.1
Back side	20	QPSK 1_104	372000/1860	100%	0.264	0.145	-0.16	20.60	21.20	1.148	0.303	22.1
Left side	20	QPSK 1_104	372000/1860	100%	0.032	0.019	-0.15	20.60	21.20	1.148	0.037	22.1
Right side	20	QPSK 1_104	372000/1860	100%	0.068	0.037	-0.11	20.60	21.20	1.148	0.078	22.1
Bottom side	20	QPSK 1_104	372000/1860	100%	0.222	0.124	0.13	20.60	21.20	1.148	0.255	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50_28	376000/1880	100%	0.131	0.078	0.13	20.40	21.20	1.202	0.157	22.3
Back side	20	QPSK 50_28	376000/1880	100%	0.345	0.199	0.10	20.40	21.20	1.202	0.415	22.3
Left side	20	QPSK 50_28	376000/1880	100%	0.036	0.020	0.16	20.40	21.20	1.202	0.043	22.3
Right side	20	QPSK 50_28	376000/1880	100%	0.075	0.041	0.16	20.40	21.20	1.202	0.090	22.3
Bottom side	20	QPSK 50_28	376000/1880	100%	0.209	0.118	-0.05	20.40	21.20	1.202	0.251	22.3
Ant 11 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) DSI2												
Left cheek	20	QPSK 1_104	380000/1900	100%	0.108	0.061	0.07	23.51	24.20	1.172	0.127	22.3
Left tilted	20	QPSK 1_104	380000/1900	100%	0.025	0.015	-0.16	23.51	24.20	1.172	0.029	22.3
Right cheek	20	QPSK 1_104	380000/1900	100%	0.205	0.105	0.10	23.51	24.20	1.172	0.240	22.3
Right tilted	20	QPSK 1_104	380000/1900	100%	0.051	0.030	0.11	23.51	24.20	1.172	0.060	22.3
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.124	0.067	0.18	23.19	24.20	1.262	0.156	22.3
Left tilted	20	QPSK 50_28	380000/1900	100%	0.047	0.021	-0.03	23.19	24.20	1.262	0.059	22.3
Right cheek	20	QPSK 50_28	380000/1900	100%	0.187	0.086	0.05	23.19	24.20	1.262	0.236	22.3



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Right tilted	20	QPSK 50_28	380000/1900	100%	0.050	0.029	-0.17	23.19	24.20	1.262	0.063	22.3
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1_104	380000/1900	100%	0.012	0.003	-0.14	23.51	24.20	1.172	0.014	22.3
Back side	20	QPSK 1_104	380000/1900	100%	0.033	0.018	0.02	23.51	24.20	1.172	0.039	22.3
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50_28	380000/1900	100%	0.016	0.006	0.17	23.19	24.20	1.262	0.020	22.3
Back side	20	QPSK 50_28	380000/1900	100%	0.043	0.024	0.07	23.19	24.20	1.262	0.054	22.3
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1_104	380000/1900	100%	0.048	0.026	0.09	22.50	23.20	1.175	0.056	22.3
Back side	20	QPSK 1_104	380000/1900	100%	0.086	0.045	0.00	22.50	23.20	1.175	0.101	22.3
Left side	20	QPSK 1_104	380000/1900	100%	0.137	0.060	-0.10	22.50	23.20	1.175	0.161	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50_28	376000/1880	100%	0.038	0.017	-0.07	22.22	23.20	1.253	0.048	22.3
Back side	20	QPSK 50_28	376000/1880	100%	0.058	0.031	0.13	22.22	23.20	1.253	0.073	22.3
Left side	20	QPSK 50_28	376000/1880	100%	0.102	0.048	-0.14	22.22	23.20	1.253	0.128	22.3
NSA N2 SAR Evaluate data												
Ant 11 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) DSI2												
Left cheek	20	QPSK 1_104	380000/1900	100%	0.108	0.061	0.07	23.51	21.20	0.587	0.063	22.3
Left tilted	20	QPSK 1_104	380000/1900	100%	0.025	0.015	-0.16	23.51	21.20	0.587	0.015	22.3
Right cheek	20	QPSK 1_104	380000/1900	100%	0.205	0.105	0.10	23.51	21.20	0.587	0.120	22.3
Right tilted	20	QPSK 1_104	380000/1900	100%	0.051	0.030	0.11	23.51	21.20	0.587	0.030	22.3
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.124	0.067	0.18	23.19	21.20	0.632	0.078	22.3
Left tilted	20	QPSK 50_28	380000/1900	100%	0.047	0.021	-0.03	23.19	21.20	0.632	0.030	22.3
Right cheek	20	QPSK 50_28	380000/1900	100%	0.187	0.086	0.05	23.19	21.20	0.632	0.118	22.3
Right tilted	20	QPSK 50_28	380000/1900	100%	0.050	0.029	-0.17	23.19	21.20	0.632	0.032	22.3
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1_104	380000/1900	100%	0.012	0.003	-0.14	23.51	21.20	0.587	0.007	22.3
Back side	20	QPSK 1_104	380000/1900	100%	0.033	0.018	0.02	23.51	21.20	0.587	0.019	22.3
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50_28	380000/1900	100%	0.016	0.006	0.17	23.19	21.20	0.632	0.010	22.3
Back side	20	QPSK 50_28	380000/1900	100%	0.043	0.024	0.07	23.19	21.20	0.632	0.027	22.3
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1_104	380000/1900	100%	0.048	0.026	0.09	22.50	20.20	0.589	0.028	22.3
Back side	20	QPSK 1_104	380000/1900	100%	0.086	0.045	0.00	22.50	20.20	0.589	0.051	22.3
Left side	20	QPSK 1_104	380000/1900	100%	0.137	0.060	-0.10	22.50	20.20	0.589	0.081	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50_28	376000/1880	100%	0.038	0.017	-0.07	22.22	20.20	0.628	0.024	22.3
Back side	20	QPSK 50_28	376000/1880	100%	0.058	0.031	0.13	22.22	20.20	0.628	0.036	22.3
Left side	20	QPSK 50_28	376000/1880	100%	0.102	0.048	-0.14	22.22	20.20	0.628	0.064	22.3



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8.2.14 SAR Result of NR Band n7

SA N7 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	50	QPSK 1_135	507000/2535	100%	0.159	0.077	-0.01	16.75	17.70	1.245	0.198	22.1
Left tilted	50	QPSK 1_135	507000/2535	100%	0.228	0.110	0.01	16.75	17.70	1.245	0.284	22.1
Right cheek	50	QPSK 1_135	507000/2535	100%	0.415	0.199	0.12	16.75	17.70	1.245	0.516	22.1
Right tilted	50	QPSK 1_135	507000/2535	100%	0.535	0.240	0.18	16.75	17.70	1.245	0.666	22.1
Head Test Data (50%RB) DSI2												
Left cheek	50	QPSK 135_67	505000/2525	100%	0.165	0.081	0.09	16.71	17.70	1.256	0.207	22.1
Left tilted	50	QPSK 135_67	505000/2525	100%	0.235	0.113	0.06	16.71	17.70	1.256	0.295	22.1
Right cheek	50	QPSK 135_67	505000/2525	100%	0.431	0.205	-0.03	16.71	17.70	1.256	0.541	22.1
Right tilted	50	QPSK 135_67	505000/2525	100%	0.547	0.224	-0.15	16.71	17.70	1.256	0.687	22.1
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	50	QPSK 1_135	507000/2535	100%	0.202	0.106	-0.10	23.23	24.20	1.250	0.253	22.5
Back side	50	QPSK 1_135	507000/2535	100%	0.598	0.291	-0.06	23.23	24.20	1.250	0.748	22.5
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	50	QPSK 135_67	507000/2535	100%	0.198	0.107	0.00	23.25	24.20	1.245	0.246	22.5
Back side	50	QPSK 135_67	507000/2535	100%	0.660	0.324	-0.03	23.25	24.20	1.245	0.821	22.5
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	50	QPSK 1_135	507000/2535	100%	0.085	0.042	-0.11	16.75	17.70	1.245	0.106	22.5
Back side	50	QPSK 1_135	507000/2535	100%	0.293	0.124	-0.04	16.75	17.70	1.245	0.365	22.5
Left side	50	QPSK 1_135	507000/2535	100%	0.055	0.029	-0.08	16.75	17.70	1.245	0.068	22.5
Top side	50	QPSK 1_135	507000/2535	100%	0.401	0.176	0.02	16.75	17.70	1.245	0.499	22.5
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	50	QPSK 135_67	505000/2525	100%	0.086	0.043	-0.06	16.71	17.70	1.256	0.108	22.5
Back side	50	QPSK 135_67	505000/2525	100%	0.305	0.129	0.14	16.71	17.70	1.256	0.383	22.5
Left side	50	QPSK 135_67	505000/2525	100%	0.055	0.029	-0.06	16.71	17.70	1.256	0.069	22.5
Top side	50	QPSK 135_67	505000/2525	100%	0.386	0.177	0.04	16.71	17.70	1.256	0.485	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 16mm	50	QPSK 1_135	507000/2535	100%	0.616	0.287	-0.11	23.23	24.20	1.250	0.359	22.8
Top side 12mm	50	QPSK 1_135	507000/2535	100%	1.350	0.615	0.01	23.23	24.20	1.250	0.769	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 16mm	50	QPSK 135_67	507000/2535	100%	0.619	0.293	0.15	23.25	24.20	1.245	0.365	22.8
Top side 12mm	50	QPSK 135_67	507000/2535	100%	1.380	0.629	0.10	23.25	24.20	1.245	0.783	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	50	QPSK 1_268	509000/2545	100%	2.900	1.070	0.05	18.24	19.20	1.247	1.335	22.8
Top side	50	QPSK 1_268	509000/2545	100%	3.320	1.320	0.11	18.24	19.20	1.247	1.647	22.8



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Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	50	QPSK 135_67	505000/2525	100%	3.220	1.190	0.11	18.20	19.20	1.259	1.498	22.8
Top side	50	QPSK 135_67	505000/2525	100%	3.990	1.500	0.02	18.20	19.20	1.259	1.888	22.8
Top side	50	QPSK 135_67	505000/2525	100%	4.600	1.600	0.12	18.20	19.20	1.259	2.014	22.8
Ant 31 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) DSI2												
Left cheek	50	QPSK 1_135	505000/2525	100%	0.192	0.112	-0.03	23.66	24.20	1.132	0.217	22.3
Left tilted	50	QPSK 1_135	505000/2525	100%	0.120	0.067	-0.17	23.66	24.20	1.132	0.136	22.3
Right cheek	50	QPSK 1_135	505000/2525	100%	0.302	0.167	0.09	23.66	24.20	1.132	0.342	22.3
Right tilted	50	QPSK 1_135	505000/2525	100%	0.118	0.067	0.14	23.66	24.20	1.132	0.134	22.3
Head Test Data (50%RB) DSI2												
Left cheek	50	QPSK 135_67	505000/2525	100%	0.200	0.118	-0.04	23.60	24.20	1.148	0.230	22.3
Left tilted	50	QPSK 135_67	505000/2525	100%	0.121	0.067	-0.17	23.60	24.20	1.148	0.139	22.3
Right cheek	50	QPSK 135_67	505000/2525	100%	0.310	0.172	0.04	23.60	24.20	1.148	0.356	22.3
Right tilted	50	QPSK 135_67	505000/2525	100%	0.141	0.077	-0.04	23.60	24.20	1.148	0.162	22.3
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	50	QPSK 1_135	509000/2545	100%	0.144	0.081	-0.15	21.67	22.20	1.130	0.163	22.3
Back side	50	QPSK 1_135	509000/2545	100%	0.170	0.094	-0.10	21.67	22.20	1.130	0.192	22.3
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	50	QPSK 135_67	509000/2545	100%	0.165	0.095	0.07	21.62	22.20	1.143	0.189	22.3
Back side	50	QPSK 135_67	509000/2545	100%	0.177	0.100	0.00	21.62	22.20	1.143	0.202	22.3
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	50	QPSK 1_135	509000/2545	100%	0.261	0.142	-0.05	21.67	22.20	1.130	0.295	22.3
Back side	50	QPSK 1_135	509000/2545	100%	0.339	0.177	0.03	21.67	22.20	1.130	0.383	22.3
Left side	50	QPSK 1_135	509000/2545	100%	0.023	0.009	-0.16	21.67	22.20	1.130	0.026	22.3
Right side	50	QPSK 1_135	509000/2545	100%	0.268	0.146	0.19	21.67	22.20	1.130	0.303	22.3
Bottom side	50	QPSK 1_135	509000/2545	100%	0.239	0.112	-0.09	21.67	22.20	1.130	0.270	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	50	QPSK 135_67	509000/2545	100%	0.294	0.157	-0.12	21.67	22.20	1.130	0.332	22.3
Back side	50	QPSK 135_67	509000/2545	100%	0.372	0.201	0.02	21.67	22.20	1.130	0.420	22.3
Left side	50	QPSK 135_67	509000/2545	100%	0.016	0.005	-0.04	21.67	22.20	1.130	0.018	22.3
Right side	50	QPSK 135_67	509000/2545	100%	0.287	0.152	0.02	21.67	22.20	1.130	0.324	22.3
Bottom side	50	QPSK 135_67	509000/2545	100%	0.232	0.116	0.02	21.67	22.20	1.130	0.262	22.3
Ant 11 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) DSI2												
Left cheek	50	QPSK 1_135	507000/2535	100%	0.287	0.136	-0.12	18.45	19.20	1.189	0.341	22.3
Left tilted	50	QPSK 1_135	507000/2535	100%	0.065	0.036	-0.09	18.45	19.20	1.189	0.077	22.3
Right cheek	50	QPSK 1_135	507000/2535	100%	0.552	0.242	0.04	18.45	19.20	1.189	0.656	22.3
Right tilted	50	QPSK 1_135	507000/2535	100%	0.103	0.057	-0.06	18.45	19.20	1.189	0.122	22.3



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Head Test Data (50%RB) DSI2												
Left cheek	50	QPSK 135_67	505000/2525	100%	0.240	0.120	-0.07	18.46	19.20	1.186	0.285	22.3
Left tilted	50	QPSK 135_67	505000/2525	100%	0.065	0.035	0.01	18.46	19.20	1.186	0.077	22.3
Right cheek	50	QPSK 135_67	505000/2525	100%	0.503	0.220	-0.06	18.46	19.20	1.186	0.596	22.3
Right tilted	50	QPSK 135_67	505000/2525	100%	0.092	0.051	-0.16	18.46	19.20	1.186	0.109	22.3
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	50	QPSK 1_135	507000/2535	100%	0.249	0.128	0.03	23.46	24.20	1.186	0.295	22.3
Back side	50	QPSK 1_135	507000/2535	100%	0.537	0.263	0.13	23.46	24.20	1.186	0.637	22.3
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	50	QPSK 135_67	505000/2525	100%	0.228	0.116	-0.03	23.50	24.20	1.175	0.268	22.3
Back side	50	QPSK 135_67	505000/2525	100%	0.470	0.230	0.04	23.50	24.20	1.175	0.552	22.3
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	50	QPSK 1_135	507000/2535	100%	0.089	0.040	-0.10	15.41	16.20	1.199	0.107	22.3
Back side	50	QPSK 1_135	507000/2535	100%	0.171	0.079	0.11	15.41	16.20	1.199	0.205	22.3
Left side	50	QPSK 1_135	507000/2535	100%	0.268	0.113	0.05	15.41	16.20	1.199	0.321	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	50	QPSK 135_67	505000/2525	100%	0.077	0.036	0.11	15.52	16.20	1.169	0.090	22.3
Back side	50	QPSK 135_67	505000/2525	100%	0.164	0.072	-0.07	15.52	16.20	1.169	0.192	22.3
Left side	50	QPSK 135_67	505000/2525	100%	0.242	0.103	0.03	15.52	16.20	1.169	0.283	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 11mm	50	QPSK 1_135	507000/2535	100%	1.080	0.499	-0.07	23.46	24.20	1.186	0.592	22.8
Left side 11mm	50	QPSK 1_135	507000/2535	100%	1.870	0.779	0.06	23.46	24.20	1.186	0.924	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 11mm	50	QPSK 135_67	505000/2525	100%	0.998	0.430	-0.12	23.50	24.20	1.175	0.505	22.8
Left side 11mm	50	QPSK 135_67	505000/2525	100%	1.640	0.683	-0.14	23.50	24.20	1.175	0.802	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	50	QPSK 1_135	507000/2535	100%	3.480	1.210	0.03	17.90	18.70	1.202	1.455	22.8
Left side	50	QPSK 1_135	507000/2535	100%	5.610	1.780	0.01	17.90	18.70	1.202	2.140	22.8
Left side	50	QPSK 1_135	505000/2525	100%	4.980	1.720	0.05	17.83	18.70	1.222	2.101	22.8
Left side	50	QPSK 1_135	509000/2545	100%	5.110	1.770	-0.10	17.82	18.70	1.225	2.168	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	50	QPSK 135_67	505000/2525	100%	3.340	1.210	-0.17	17.98	18.70	1.180	1.428	22.8
Left side	50	QPSK 135_67	505000/2525	100%	5.750	1.800	-0.05	17.98	18.70	1.180	2.125	22.8
Left side	50	QPSK 135_67	507000/2535	100%	5.370	1.850	0.17	17.90	18.70	1.202	2.224	22.8
Left side	50	QPSK 135_67	509000/2545	100%	5.920	1.940	0.07	17.88	18.70	1.208	2.343	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Left side	50	QPSK 270_0	507000/2535	100%	4.040	1.400	0.02	16.96	17.70	1.186	1.660	22.8



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NSA N7 SAR Evaluate data												
Ant 11 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) DSI2												
Left cheek	50	QPSK 1_135	507000/2535	100%	0.287	0.136	-0.12	18.45	16.20	0.596	0.171	22.3
Left tilted	50	QPSK 1_135	507000/2535	100%	0.065	0.036	-0.09	18.45	16.20	0.596	0.039	22.3
Right cheek	50	QPSK 1_135	507000/2535	100%	0.552	0.242	0.04	18.45	16.20	0.596	0.329	22.3
Right tilted	50	QPSK 1_135	507000/2535	100%	0.103	0.057	-0.06	18.45	16.20	0.596	0.061	22.3
Head Test Data (50%RB) DSI2												
Left cheek	50	QPSK 135_67	505000/2525	100%	0.240	0.120	-0.07	18.46	16.20	0.594	0.143	22.3
Left tilted	50	QPSK 135_67	505000/2525	100%	0.065	0.035	0.01	18.46	16.20	0.594	0.039	22.3
Right cheek	50	QPSK 135_67	505000/2525	100%	0.503	0.220	-0.06	18.46	16.20	0.594	0.299	22.3
Right tilted	50	QPSK 135_67	505000/2525	100%	0.092	0.051	-0.16	18.46	16.20	0.594	0.055	22.3
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	50	QPSK 1_135	507000/2535	100%	0.249	0.128	0.03	23.46	21.20	0.594	0.148	22.3
Back side	50	QPSK 1_135	507000/2535	100%	0.537	0.263	0.13	23.46	21.20	0.594	0.319	22.3
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	50	QPSK 135_67	505000/2525	100%	0.228	0.116	-0.03	23.50	21.20	0.589	0.134	22.3
Back side	50	QPSK 135_67	505000/2525	100%	0.470	0.230	0.04	23.50	21.20	0.589	0.277	22.3
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	50	QPSK 1_135	507000/2535	100%	0.089	0.040	-0.10	15.41	13.20	0.601	0.054	22.3
Back side	50	QPSK 1_135	507000/2535	100%	0.171	0.079	0.11	15.41	13.20	0.601	0.103	22.3
Left side	50	QPSK 1_135	507000/2535	100%	0.268	0.113	0.05	15.41	13.20	0.601	0.161	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	50	QPSK 135_67	505000/2525	100%	0.077	0.036	0.11	15.52	13.20	0.586	0.045	22.3
Back side	50	QPSK 135_67	505000/2525	100%	0.164	0.072	-0.07	15.52	13.20	0.586	0.096	22.3
Left side	50	QPSK 135_67	505000/2525	100%	0.242	0.103	0.03	15.52	13.20	0.586	0.142	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 SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 11mm	50	QPSK 1_135	507000/2535	100%	1.080	0.499	-0.07	23.46	21.20	0.594	0.297	22.8
Left side 11mm	50	QPSK 1_135	507000/2535	100%	1.870	0.779	0.06	23.46	21.20	0.594	0.463	22.8
Product specific 10g SAR Test data (50RB) Sensor off DSI 4												
Back side 11mm	50	QPSK 135_67	505000/2525	100%	0.998	0.430	-0.12	23.50	21.20	0.589	0.253	22.8
Left side 11mm	50	QPSK 135_67	505000/2525	100%	1.640	0.683	-0.14	23.50	21.20	0.589	0.402	22.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	50	QPSK 1_135	507000/2535	100%	3.480	1.210	0.03	17.90	15.70	0.603	0.729	22.8
Left side	50	QPSK 1_135	507000/2535	100%	5.610	1.780	0.01	17.90	15.70	0.603	1.073	22.8
Left side	50	QPSK 1_135	505000/2525	100%	4.980	1.720	0.05	17.83	15.70	0.612	1.053	22.8
Left side	50	QPSK 1_135	509000/2545	100%	5.110	1.770	-0.10	17.82	15.70	0.614	1.086	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Back side	50	QPSK 135_67	505000/2525	100%	3.340	1.210	-0.17	17.98	15.70	0.592	0.716	22.8



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Left side	50	QPSK 135_67	505000/2525	100%	5.750	1.800	-0.05	17.98	15.70	0.592	1.065	22.8
Left side	50	QPSK 135_67	507000/2535	100%	5.370	1.850	0.17	17.90	15.70	0.603	1.115	22.8
Left side	50	QPSK 135_67	509000/2545	100%	5.920	1.940	0.07	17.88	15.70	0.605	1.174	22.8
Product specific 10g SAR Test data (Separate 0mm 50RB) Sensor on DSI 5												
Left side	50	QPSK 270_0	507000/2535	100%	4.040	1.400	0.02	16.96	14.70	0.594	0.832	22.8



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8.2.15 SAR Result of NR Band n26

SA N26 SAR Test Record												
Ant 13 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) DSI2												
Left cheek	20	QPSK 1_53	164800/824	100%	0.296	0.188	0.03	20.96	21.70	1.186	0.351	22.1
Left tilted	20	QPSK 1_53	164800/824	100%	0.277	0.160	0.15	20.96	21.70	1.186	0.328	22.1
Right cheek	20	QPSK 1_53	164800/824	100%	0.452	0.252	0.15	20.96	21.70	1.186	0.536	22.1
Right tilted	20	QPSK 1_53	164800/824	100%	0.380	0.190	0.19	20.96	21.70	1.186	0.451	22.1
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50_28	167800/839	100%	0.308	0.196	0.13	20.93	21.70	1.194	0.368	22.1
Left tilted	20	QPSK 50_28	167800/839	100%	0.285	0.167	-0.12	20.93	21.70	1.194	0.340	22.1
Right cheek	20	QPSK 50_28	167800/839	100%	0.461	0.277	0.04	20.93	21.70	1.194	0.550	22.1
Right tilted	20	QPSK 50_28	167800/839	100%	0.393	0.196	-0.17	20.93	21.70	1.194	0.469	22.1
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1_53	164800/824	100%	0.088	0.059	-0.07	23.93	24.70	1.194	0.105	22.1
Back side	20	QPSK 1_53	164800/824	100%	0.111	0.075	-0.02	23.93	24.70	1.194	0.133	22.1
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50_28	166300/831.5	100%	0.099	0.072	-0.19	23.92	24.70	1.197	0.118	22.1
Back side	20	QPSK 50_28	166300/831.5	100%	0.124	0.082	0.09	23.92	24.70	1.197	0.148	22.1
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1_53	164800/824	100%	0.185	0.120	0.18	23.93	24.70	1.194	0.221	22.1
Back side	20	QPSK 1_53	164800/824	100%	0.271	0.172	0.16	23.93	24.70	1.194	0.324	22.1
Left side	20	QPSK 1_53	164800/824	100%	0.119	0.079	-0.06	23.93	24.70	1.194	0.142	22.1
Top side	20	QPSK 1_53	164800/824	100%	0.262	0.145	0.08	23.93	24.70	1.194	0.313	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50_28	166300/831.5	100%	0.201	0.130	0.10	23.92	24.70	1.197	0.241	22.1
Back side	20	QPSK 50_28	166300/831.5	100%	0.314	0.196	0.00	23.92	24.70	1.197	0.376	22.1
Left side	20	QPSK 50_28	166300/831.5	100%	0.121	0.079	-0.03	23.92	24.70	1.197	0.145	22.1
Top side	20	QPSK 50_28	166300/831.5	100%	0.281	0.154	0.06	23.92	24.70	1.197	0.336	22.1
Ant 31 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) DSI2												
Left cheek	20	QPSK 1_53	166300/831.5	100%	0.100	0.069	-0.09	23.59	24.70	1.291	0.129	22.3
Left tilted	20	QPSK 1_53	166300/831.5	100%	0.067	0.049	-0.04	23.59	24.70	1.291	0.087	22.3
Right cheek	20	QPSK 1_53	166300/831.5	100%	0.143	0.089	-0.14	23.59	24.70	1.291	0.185	22.3
Right tilted	20	QPSK 1_53	166300/831.5	100%	0.108	0.068	0.17	23.59	24.70	1.291	0.139	22.3
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.111	0.076	-0.16	23.67	24.70	1.268	0.141	22.3
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.084	0.056	-0.18	23.67	24.70	1.268	0.106	22.3



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Right cheek	20	QPSK 50_28	166300/831.5	100%	0.145	0.090	0.11	23.67	24.70	1.268	0.184	22.3
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.108	0.068	0.02	23.67	24.70	1.268	0.137	22.3
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1_53	166300/831.5	100%	0.061	0.037	-0.03	23.59	24.70	1.291	0.079	22.3
Back side	20	QPSK 1_53	166300/831.5	100%	0.140	0.101	-0.13	23.59	24.70	1.291	0.181	22.3
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50_28	166300/831.5	100%	0.112	0.081	-0.05	23.67	24.70	1.268	0.142	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.146	0.095	-0.02	23.67	24.70	1.268	0.185	22.3
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1_53	166300/831.5	100%	0.178	0.107	0.11	23.59	24.70	1.291	0.230	22.3
Back side	20	QPSK 1_53	166300/831.5	100%	0.268	0.164	0.02	23.59	24.70	1.291	0.346	22.3
Left side	20	QPSK 1_53	166300/831.5	100%	0.187	0.122	-0.01	23.59	24.70	1.291	0.241	22.3
Right side	20	QPSK 1_53	166300/831.5	100%	0.099	0.065	-0.17	23.59	24.70	1.291	0.128	22.3
Bottom side	20	QPSK 1_53	166300/831.5	100%	0.272	0.143	-0.09	23.59	24.70	1.291	0.351	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50_28	166300/831.5	100%	0.146	0.083	0.10	23.67	24.70	1.268	0.185	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.261	0.159	-0.08	23.67	24.70	1.268	0.331	22.3
Left side	20	QPSK 50_28	166300/831.5	100%	0.190	0.125	0.05	23.67	24.70	1.268	0.241	22.3
Right side	20	QPSK 50_28	166300/831.5	100%	0.096	0.064	-0.12	23.67	24.70	1.268	0.122	22.3
Bottom side	20	QPSK 50_28	166300/831.5	100%	0.279	0.138	0.04	23.67	24.70	1.268	0.354	22.3
NSA N26 SAR Evaluate data												
Ant 31 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) DSI2												
Left cheek	20	QPSK 1_53	166300/831.5	100%	0.100	0.069	-0.09	23.59	21.70	0.647	0.065	22.3
Left tilted	20	QPSK 1_53	166300/831.5	100%	0.067	0.049	-0.04	23.59	21.70	0.647	0.043	22.3
Right cheek	20	QPSK 1_53	166300/831.5	100%	0.143	0.089	-0.14	23.59	21.70	0.647	0.093	22.3
Right tilted	20	QPSK 1_53	166300/831.5	100%	0.108	0.068	0.17	23.59	21.70	0.647	0.070	22.3
Head Test Data (50%RB) DSI2												
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.111	0.076	-0.16	23.67	21.70	0.635	0.071	22.3
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.084	0.056	-0.18	23.67	21.70	0.635	0.053	22.3
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.145	0.090	0.11	23.67	21.70	0.635	0.092	22.3
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.108	0.068	0.02	23.67	21.70	0.635	0.069	22.3
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1_53	166300/831.5	100%	0.061	0.037	-0.03	23.59	21.70	0.647	0.039	22.3
Back side	20	QPSK 1_53	166300/831.5	100%	0.140	0.101	-0.13	23.59	21.70	0.647	0.091	22.3
Body worn Test data (Separate 15mm 50%RB) DSI4												
Front side	20	QPSK 50_28	166300/831.5	100%	0.112	0.081	-0.05	23.67	21.70	0.635	0.071	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.146	0.095	-0.02	23.67	21.70	0.635	0.093	22.3
Hotspot Test data (Separate 10mm 1RB) DSI10												
Front side	20	QPSK 1_53	166300/831.5	100%	0.178	0.107	0.11	23.59	21.70	0.647	0.115	22.3
Back side	20	QPSK 1_53	166300/831.5	100%	0.268	0.164	0.02	23.59	21.70	0.647	0.173	22.3
Left side	20	QPSK 1_53	166300/831.5	100%	0.187	0.122	-0.01	23.59	21.70	0.647	0.121	22.3



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Right side	20	QPSK 1_53	166300/831.5	100%	0.099	0.065	-0.17	23.59	21.70	0.647	0.064	22.3
Bottom side	20	QPSK 1_53	166300/831.5	100%	0.272	0.143	-0.09	23.59	21.70	0.647	0.176	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI10												
Front side	20	QPSK 50_28	166300/831.5	100%	0.146	0.083	0.10	23.67	21.70	0.635	0.093	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.261	0.159	-0.08	23.67	21.70	0.635	0.166	22.3
Left side	20	QPSK 50_28	166300/831.5	100%	0.190	0.125	0.05	23.67	21.70	0.635	0.121	22.3
Right side	20	QPSK 50_28	166300/831.5	100%	0.096	0.064	-0.12	23.67	21.70	0.635	0.061	22.3
Bottom side	20	QPSK 50_28	166300/831.5	100%	0.279	0.138	0.04	23.67	21.70	0.635	0.177	22.3



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