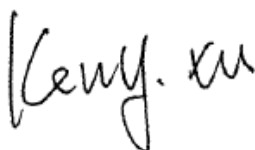


FCC SAR TEST REPORT

Application No.: SZCR2410003810WM
Applicant: Sonim Technologies, Inc.
Address of Applicant: 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Manufacturer: Sonim Technologies, Inc.
Address of Manufacturer: 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
EUT Description: smartphone
Model No.: X800
Type No.: S1003/S1001/S1004/S1005/S1006/S1010
Trade Mark: Sonim
FCC ID: WYPS1003
Standards: FCC 47CFR §2.1093
Date of Receipt: 2024-11-25
Date of Test: 2024-11-26 to 2024-12-26
Date of Issue: 2025-01-02

Test Result : **PASS ***

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



Keny Xu
EMC Laboratory Manager



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

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



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Test Summary

Frequency Band	Maximum Reported SAR(W/kg)		
	Head	Body worn&Hotspot	Product specific 10g SAR
GSM850	0.59	0.56	/
GSM1900	0.86	0.41	/
WCDMA Band II	0.74	0.74	/
WCDMA Band IV	0.80	0.85	/
WCDMA Band V	1.03	0.80	/
LTE Band 7	1.10	1.11	3.16
LTE Band 12	1.15	0.58	/
LTE Band 13	1.19	0.74	/
LTE Band 14	1.19	0.68	/
LTE Band 25/2	0.87	0.67	/
LTE Band 26/5	1.19	0.91	/
LTE Band 30	1.03	0.92	/
LTE Band 41/38	1.09	0.87	2.58
LTE Band 42	1.03	0.86	/
LTE Band 43	0.82	0.96	/
LTE Band 48	1.17	0.97	/
LTE Band 66/4	0.80	0.90	/
LTE Band 71	1.16	0.46	/
NR Band n7	1.01	1.13	3.02
NR Band n14	1.05	0.71	/
NR Band n25/2	1.11	0.82	/
NR Band n26/5	0.98	0.75	/
NR Band n30	1.14	0.89	/
NR Band n41/38	1.15	1.12	3.17
NR Band n48	1.11	0.58	/
NR Band n66	1.15	1.08	/
NR Band n70	0.51	0.85	/
NR Band n71	0.87	0.45	/
NR Band n77/78	1.19	1.12	/
WI-FI (2.4GHz)	1.09	1.03	/
WI-FI (5GHz)	0.65	0.40	0.57
WI-FI 6E	0.23	<0.10	0.21
BT	0.35	0.20	/
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	1.58	1.57	3.17
SPLSR	/	/	/
SPLSR Limited	0.04		0.1



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- 1) The Simultaneous transmission SAR is the same test position of the WWAN antenna + WiFi/BT antenna.
- 2) According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 2 (frequency range: 1850-1910 MHz) is covered by LTE ba7n 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). The SAR in LTE band 38 (frequency range: 2570-2620 MHz) is covered by LTE band 41 (frequency range: 2496-2690 MHz). SAR in NR N2 (frequency range: 1850-1910 MHz) is covered by NR N25 (frequency range: 1930-1990MHz). SAR in NR N5 (frequency range: 824-849 MHz) are covered by NR N26 (frequency range: 814-849 MHz). The SAR in NR N38 (frequency range: 2570-2620 MHz) is covered by NR N41 (frequency range: 2496-2690 MHz). The SAR in NR N78 (frequency range: 3450-3550 MHz) is covered by NR N77 (frequency range: 3450-3550 MHz). The SAR in NR N78 (frequency range: 3700-3800 MHz) is covered by NR N77 (frequency range: 3700-3980 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.

Frequency Band	Report Power Density (W/m ²)
WIFI 6E	9.67
PD Limited(W/m ²)	10.0



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1 General Information

1.1 General Description of EUT

Product Name:	smartphone		
Model No.:	X800		
Trade Mark:	Sonim		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	016582000014737; 016582000014935; 016582000014679; 016582000008952.		
Hardware Version:	V1.0		
Software Version:	X80.0-01-14.0-19.40.01		
Antenna Type:	PIFA Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK,16QAM LTE: QPSK,16QAM,64QAM, 256QAM 5G NR: DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) WIFI: DSSS, OFDM, OFDMA; BT: GFSK, $\pi/4$ DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	10	HSUPA UE Category:	6
HSPA+:	14		
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
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850 ~1910	1930 ~1990



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	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 14	788~798	758~768
	LTE Band 25	1850~1915	1930~1995
	LTE Band 26	814~849	859~894
	LTE Band 30	2305~2315	2350~2360
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 42	3450~3550	3450~3550
	LTE Band 43	3600~3800	3600~3800
	LTE Band 48	3550~3700	3550~3700
	LTE Band 66	1710~1780	2110~2200
	LTE Band 71	663~698	617~652
	NR Band n2	1850 ~1910	1930 ~1990
	NR Band n5	824~849	869-894
	NR Band n7	2500~2570	2620~2690
	NR Band n14	788~798	758~768
	NR Band n25	1850~1915	1930~1995
	NR Band n26	814~849	859~894
	NR Band n30	2305~2315	2350~2360
	NR Band n38	2570~2620	2570~2620
	NR Band n41 (Class 2/3)	2496~2690	2496~2690
	NR Band n48	3550~3700	3550~3700
	NR Band n66	1710~1780	2110~2200
	NR Band n70	1695~1710	1995~2020
	NR Band n71	663~698	617~652
	NR Band n77(Class 2/3)	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78(Class 2/3)	3450~3550	3450~3550
		3700~3800	3700~3800



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	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5350	5150~5350
		5470~5600	5470~5600
		5650~5725	5650~5725
		5725~5850	5725~5850
	WIFI 6E	5925~6425	5925~6425
		6425~6525	6425~6525
		6525~6875	6525~6875
		6875~7125	6875~7125
	BT	2402~2480	2402~2480
NFC	13.56	13.56	
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory		
Battery Information:	Model:	BAT-05000-21S	
	Normal Voltage:	3.87V	
	Rated capacity:	5000mAh	
	Manufacturer:	Shenzhen Aerospace Electronic Co., Ltd.	
Note: The hotspot mode is not supported for WIFI 5G U-NII-2A and WIFI 5G U-NII-2C. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			



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1.1.1 DUT Antenna Locations (Back View)

Please see the 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 NR/LTE/WCDMA/GSM/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
Ant1	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant2	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant3	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant5	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant7	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant9	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant10	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$

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

Note:

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



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1.1.2 Smart Transmit feature for RF Exposure compliance

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

The parameters obtained from SAR characterization(referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System(EFS) to enable the Smart Transmit Feature.

<Terminologies in this report>

P_{limit}	The time-averaged RF power which corresponds to SAR_design_target
P_{max}	Maximum tune-up power level
SAR_design_target	The design target for SAR compliance. It should be less than SAR limit to account for all device design related uncertainties.
SAR char	P_{limit} for all the technologies/bands

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for Smart Transmit to control and manage RF exposure for $f < 6$ GHz.

SAR_design_target and Uncertainty

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device design related uncertainties specified by the manufacturer.

$$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$



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Exposure position	Frequency band	SAR Regulatory Limit W/kg(1g)	SAR design target W/kg(1g)
Head	WWAN	1.6	0.8
Body worn/Hotspot	WWAN	1.6	0.8
Exposure position	Frequency band	SAR Regulatory Limit W/kg(10g)	SAR design target W/kg(10g)
Limbs	WWAN	4.0	2.6

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max}, when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit}. Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (DSI: Device State Index).

P_{limit} for supported technologies and bands (actual EFS settings)

Band	Mode	Antenna	P _{max} *	Uncertainty	P _{limit} (average)		
					Head	Sensor on	Sensor off
					DSI 4	DSI 1	DSI 6
GSM850	GPRS 2TS	1#	23.0	2.0	/	/	23.0
GSM850	GPRS 4TS	1#	22.0	2.0	20.5	/	/
GSM1900	GPRS 4TS	2#	21.0	2.0	18.5	/	21.0
WCDMA B2	RMC	2#	23.0	2.0	17.5	/	23.0
WCDMA B4	RMC	2#	23.0	1.5	18.0	/	23.0
WCDMA B5	RMC	1#	24.0	1.0	22.0	/	24.0
LTE B2	QPSK	2#	23.0	2.0	17.5	23.0	23.0
LTE B2 ENDC	QPSK	5#	23.0	1.0	23.0	23.0	23.0
LTE B4	QPSK	2#	23.0	1.5	18.0	23.0	23.0
LTE B4 ENDC	QPSK	5#	24.0	1.0	24.0	24.0	24.0
LTE B5	QPSK	1#	24.0	1.0	23.0	24.0	24.0
LTE B7	QPSK	2#	23.5	1.0	15.5	18.5	23.5
LTE B7	QPSK	5#	24.0	1.0	24.0	24.0	24.0
LTE B12	QPSK	1#	24.0	1.0	22.0	24.0	24.0
LTE B13	QPSK	1#	24.0	1.0	22.5	24.0	24.0



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LTE B14	QPSK	1#	24.0	1.0	22.5	24.0	24.0
LTE B25	QPSK	2#	23.0	2.0	17.5	23.0	23.0
LTE B25 ENDC	QPSK	5#	23.0	1.0	23.0	23.0	23.0
LTE B26	QPSK	1#	24.0	1.0	23.0	24.0	24.0
LTE B30	QPSK	2#	23.0	1.5	17.5	23.0	23.0
LTE B38 PC3	QPSK	2#	22.0	1.0	15.5	18.0	22.0
LTE B38 ENDC	QPSK	5#	22.0	1.0	22.0	22.0	22.0
LTE B41 PC2	QPSK	2#	22.4	1.0	15.9	18.4	22.4
LTE B41 PC3	QPSK	2#	22.0	1.0	15.5	18.0	22.0
LTE B41 ENDC	QPSK	5#	22.0	1.0	22.0	22.0	22.0
LTE B42 PC3	QPSK	3#	21.0	2.0	19.5	21.0	21.0
LTE B43	QPSK	3#	21.0	2.0	19.0	21.0	21.0
LTE B48	QPSK	3#	20.0	2.0	18.0	20.0	20.0
LTE B66	QPSK	2#	23.0	1.5	18.0	23.0	23.0
LTE B66 ENDC	QPSK	5#	24.0	1.0	24.0	24.0	24.0
LTE B71	QPSK	1#	24.0	1.0	22.5	24.0	24.0
NR 5G N2	QPSK	2#	23.0	2.0	18.5	23.0	23.0
NR 5G N5	QPSK	1#	23.0	2.0	21.5	23.0	23.0
NR 5G N7	QPSK	2#	23.0	2.0	14.0	17.5	23.0
NR 5G N7	QPSK	5#	23.0	2.0	23.0	23.0	23.0
NR 5G N14	QPSK	1#	23.0	2.0	21.5	23.0	23.0
NR 5G N25	QPSK	2#	23.0	2.0	18.5	23.0	23.0
NR 5G N26	QPSK	1#	23.0	2.0	21.5	23.0	23.0
NR 5G N30	QPSK	2#	23.5	2.0	17.0	23.5	23.5
NR 5G N38	QPSK	2#	23.0	2.0	14.0	18.0	21.0
NR 5G N41 PC2	QPSK	2#	26.0	2.0	14.0	18.0	21.0
NR 5G N41 PC3	QPSK	2#	24.0	2.0	14.0	18.0	21.0
NR 5G N48	QPSK	3#	22.0	2.0	18.0	22.0	22.0
NR 5G N66	QPSK	2#	23.0	2.0	19.0	23.0	23.0
NR 5G N70	QPSK	5#	22.0	2.0	22.0	22.0	22.0
NR 5G N71	QPSK	1#	23.0	2.0	21.0	23.0	23.0
NR 5G N77 PC2	QPSK	3#	25.0	2.0	22.0	25.0	25.0
NR 5G N77 PC3	QPSK	3#	23.0	2.0	22.0	23.0	23.0



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NR 5G N78 PC2	QPSK	3#	26.0	2.0	22.0	25.0	25.0
NR 5G N78 PC3	QPSK	3#	24.0	2.0	22.0	24.0	24.0
NR 5G N77 PC2	QPSK	7#	26.0	2.0	18.0	19.0	19.0
NR 5G N77 PC3	QPSK	7#	24.0	2.0	18.0	19.0	19.0
NR 5G N78 PC2	QPSK	7#	25.0	2.0	18.0	19.0	19.0
NR 5G N78 PC3	QPSK	7#	23.0	2.0	17.0	18.0	18.0

Note:

- 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + Total uncertainty.
- 2) The max allowed output power is the P_{limit} + Total uncertainty, and if P_{limit} is higher than P_{max}, the device output power will be P_{max} instead.
- 3) Note that WLAN operations are not enabled with Smart Transmit.
- 4) The following table is duty cycle and factor used for calculating time average power.

Mode	Duty Cycle	Time Average calculation Factor
GSM 1TX	12.5%	-9.0
GSM 2TX	25.0%	-6.0
GSM 3TX	37.5%	-4.3
GSM 4TX	50.0%	-3.0
LTE FDD	100.0%	0.0
LTE TDD	63.3%	-2.0
LTE TDD HPUE	43.3%	-3.6

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.



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1.1.3 Power reduction specification

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

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

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



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1.2 Test Specification

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



1.3 RF exposure limits for SAR

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

Notes:

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

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

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

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

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



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1.4 Test Location

All tests were performed at:

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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.

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1.6 RF exposure limits for above 6GHz

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

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

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

Note: 1.0 mW/cm² is equal to 10 W/m²



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
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.	

Table 2 : The Ambient Conditions



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3 Measurements System Configuraion

3.1 The SAR Measurement System

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

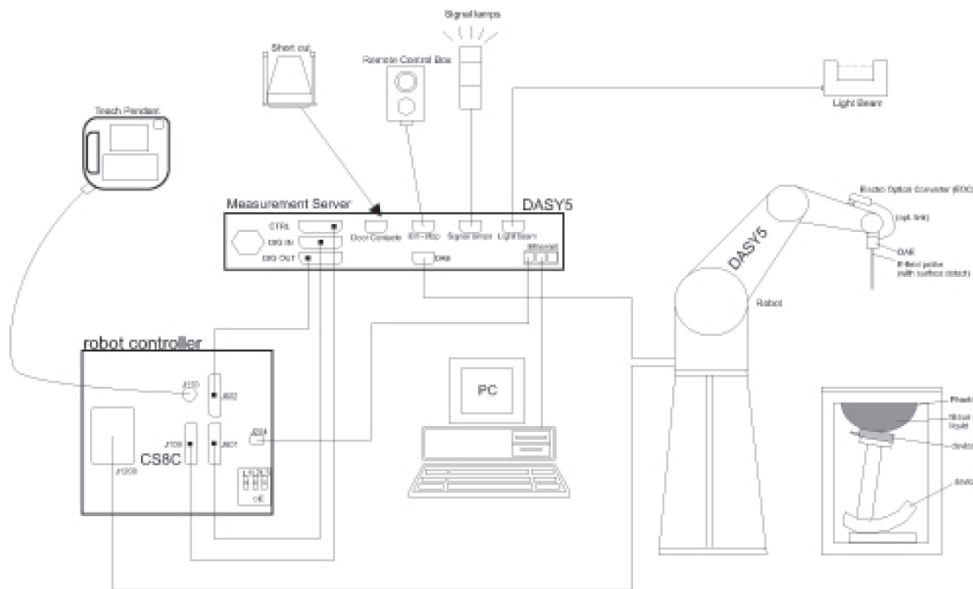
The DASY system for performing compliance tests consists of the following items:

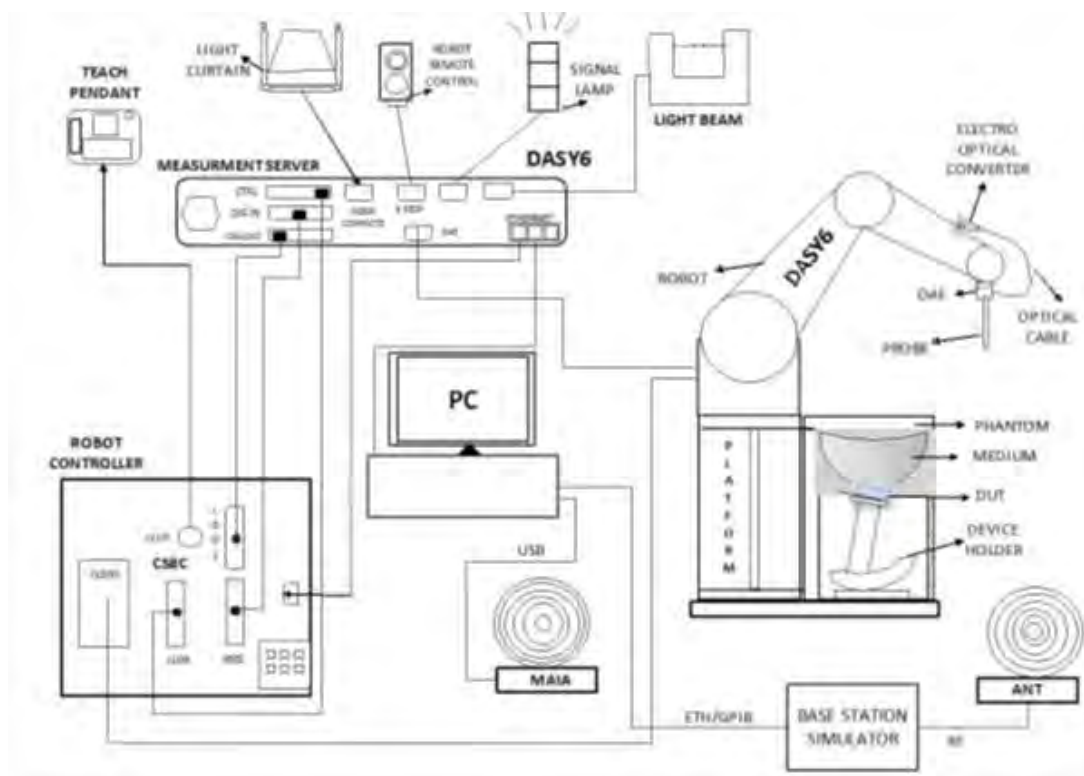
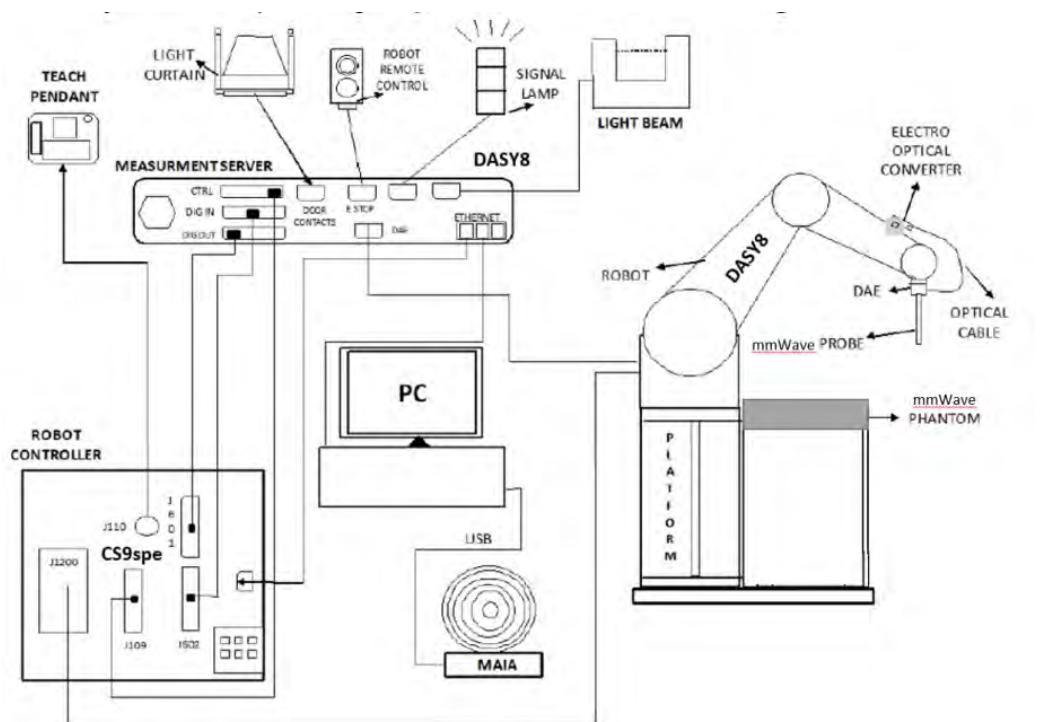
A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

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

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.





F-1. SAR Measurement System Configuration

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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	DASY3, DASY4, 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 and IEC 62209-1. 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 IEC 62209-2 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 SAR 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 62209-1528.



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Parameter	DUT transmit frequency being tested	
	$f \leq 3 \text{ GHz}$	$3 \text{ GHz} < f \leq 10 \text{ GHz}$
Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface (z_{M1} in Figure 20 in mm)	5 ± 1	$\delta \ln(2)/2 \pm 0,5^a$
Maximum spacing between adjacent measured points in mm (see O.8.3.1) ^b	20, or half of the corresponding zoom scan length, whichever is smaller	$60/f$, or half of the corresponding zoom scan length, whichever is smaller
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20) ^c	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Tolerance in the probe angle	1°	1°
^a δ is the penetration depth for a plane-wave incident normally on a planar half-space. ^b See Clause O.8 on how Δx and Δy may be selected for individual area scan requirements. ^c The probe angle relative to the phantom surface normal is restricted due to the degradation in the measurement accuracy in fields with steep spatial gradients. The measurement accuracy decreases with increasing probe angle and increasing frequency. This is the reason for the tighter probe angle restriction at frequencies above 3 GHz.		

Parameter	DUT transmit frequency being tested	
	$f \leq 3 \text{ GHz}$	$3 \text{ GHz} < f \leq 10 \text{ GHz}$
Maximum distance between the closest measured points and the phantom surface (z_{M1} in Figure 20 and Table 3, in mm)	5	$\delta \ln(2)/2^a$
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20)	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Maximum spacing between measured points in the x- and y-directions (Δx and Δy , in mm)	8	$24/f^b$
For uniform grids: Maximum spacing between measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	5	$10/(f-1)$
For graded grids: Maximum spacing between the two closest measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	4	$12/f$
For graded grids: Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell ($R_z = \Delta z_2/\Delta z_1$ in Figure 20)	1,5	1,5
Minimum edge length of the zoom scan volume in the x- and y-directions (L_z in O.8.3.2, in mm)	30	22
Minimum edge length of the zoom scan volume in the direction normal to the phantom shell (L_h in O.8.3.2 in mm)	30	22
Tolerance in the probe angle	1°	1°
^a δ is the penetration depth for a plane-wave incident normally on a planar half-space. ^b This is the maximum spacing allowed, which might not work for all circumstances.		



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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. $\pm 5\%$



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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:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

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:

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



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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



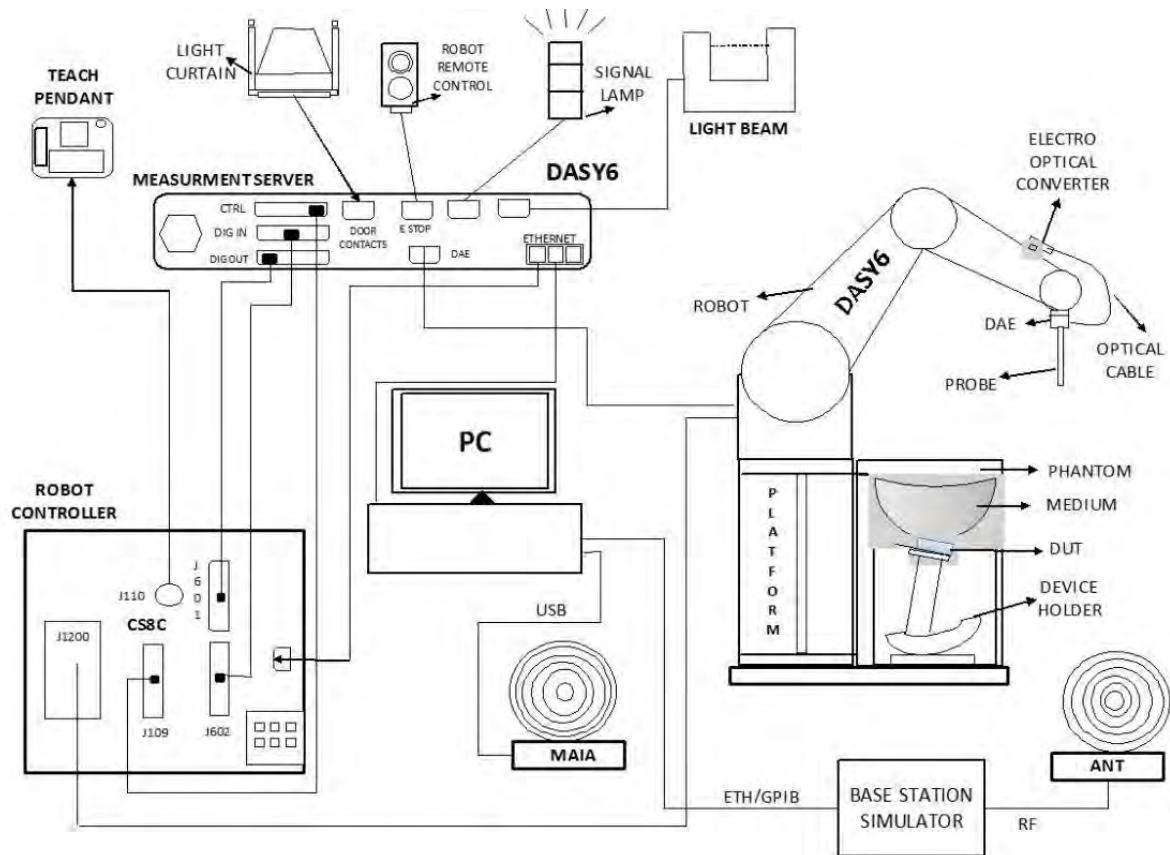
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3.8 Power density measurement system

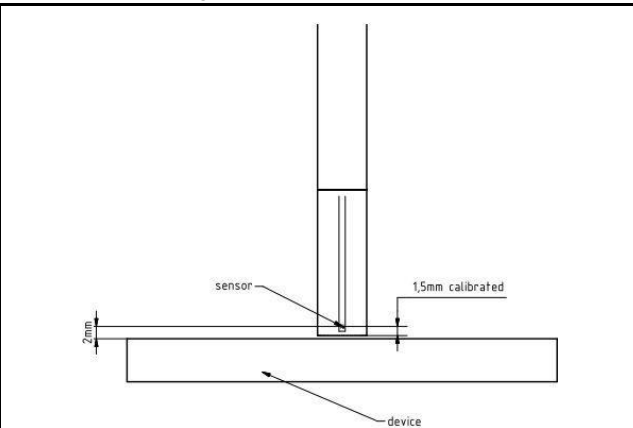
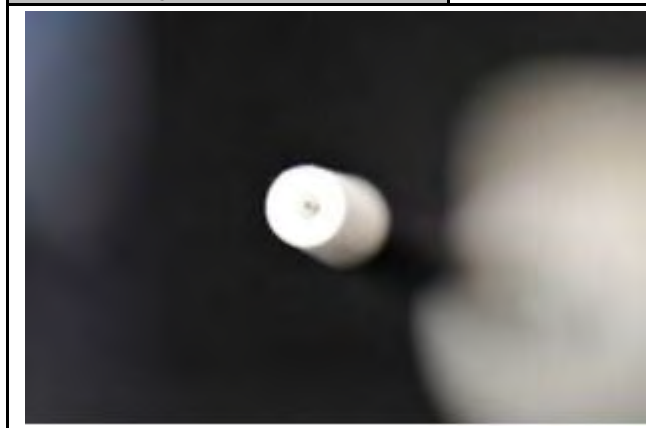
Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.



Measurement System Configuration

3.9 EUmWVaVe probe

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



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

4 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

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

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

Table 3 : Measurement Uncertainty



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4.3 PD measurement uncertainty

Declaration of Conformity:

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

Comments and Explanations:

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

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

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

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

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multiplying Factor ^(a)	1/ κ ^(b)	1/ $\sqrt{3}$	1/ $\sqrt{6}$	1/ $\sqrt{2}$

Standard Uncertainty for Assumed Distribution

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

(b) κ is the coverage factor

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

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



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

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

cDASY6 Module mmWave Uncertainty Budget for PD Evaluation Distances to the Antennas $\geq \lambda/5$ In Compliance with IEC/IEEE 63195						
a	b	c	d	e	f=b*e/d	g
Error Description	Uncertainty Value ($\pm$ dB)	Probability	Div.	Ci	Standard Uncertainty ($\pm$ dB)	Vi (Veff)
Uncertainty terms dependent on the measurement system						
Probe Calibration	0.49	N	1	1	0.49	∞
Probe correction	0.00	R	1.732	1	0.00	∞
Frequency response (BW ≤ 1 GHz)	0.20	R	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	1.732	1	0.00	∞
Isotropy	0.50	R	1.732	1	0.29	∞
Linearity	0.20	R	1.732	1	0.12	∞
Probe scattering	0.00	R	1.732	1	0.00	∞
Probe positioning offset	0.30	R	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	1.732	1	0.00	∞
Field impedance dependance	0.00	R	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	1.732	1	0.02	∞
Measurement area truncation	0.00	R	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.732	1	0.00	∞
Field reconstruction	2.00	R	1.732	1	1.15	∞
Forward transformation	0.00	R	1.732	1	0.00	∞
Power density scaling	0.00	R	1.732	1	0.00	∞
Spatial averaging	0.10	R	1.732	1	0.06	∞
System detection limit	0.04	R	1.732	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors						
Probe coupling with DUT	0.00	R	1.732	1	0.00	∞
Modulation response	0.40	R	1.732	1	0.23	∞
Integration time	0.00	R	1.732	1	0.00	∞
Response time	0.00	R	1.732	1	0.00	∞
Device holder influence	0.10	R	1.732	1	0.06	∞
DUT alignment	0.00	R	1.732	1	0.00	∞
RF ambient conditions	0.04	R	1.732	1	0.02	∞
Ambient reflections	0.04	R	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	1.732	1	0.00	∞
Drift of the DUT		R	1.732	1	0.00	∞
Combined Std. Uncertainty					1.33	
Expanded STD Uncertainty (95%), K=2					2.67	



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5 Description of Test Position

5.1 The Head Test Position

5.1.1 SAM Phantom Shape

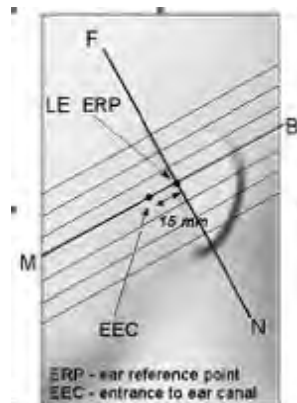


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

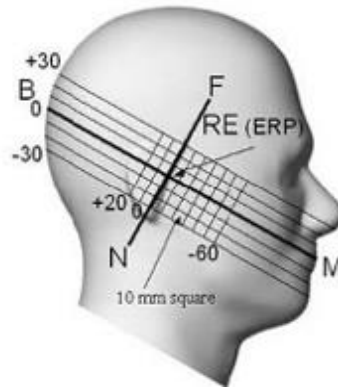
Note: The centre strip including the nose region has a different thickness tolerance.



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

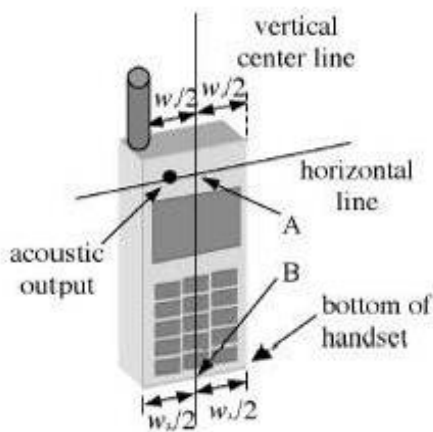


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

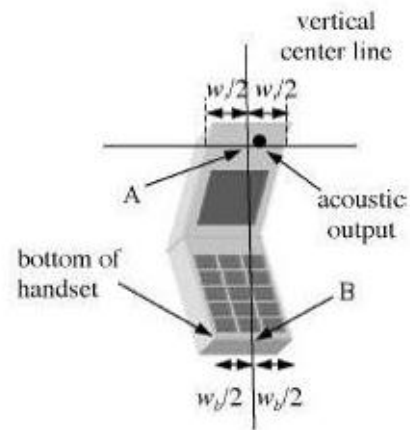


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



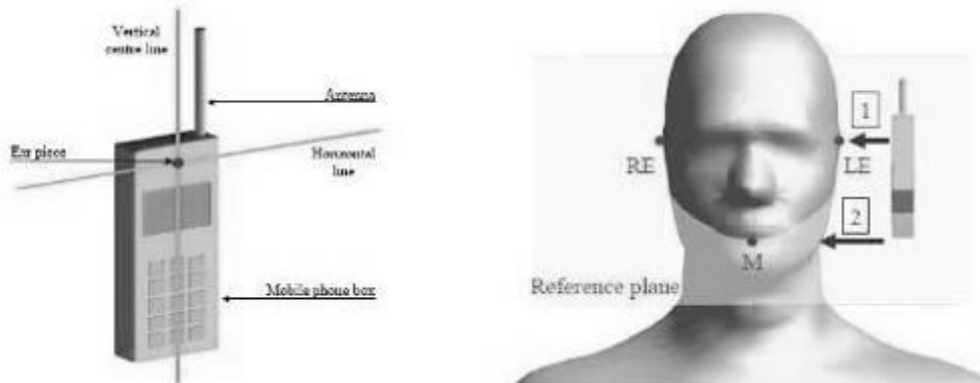
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

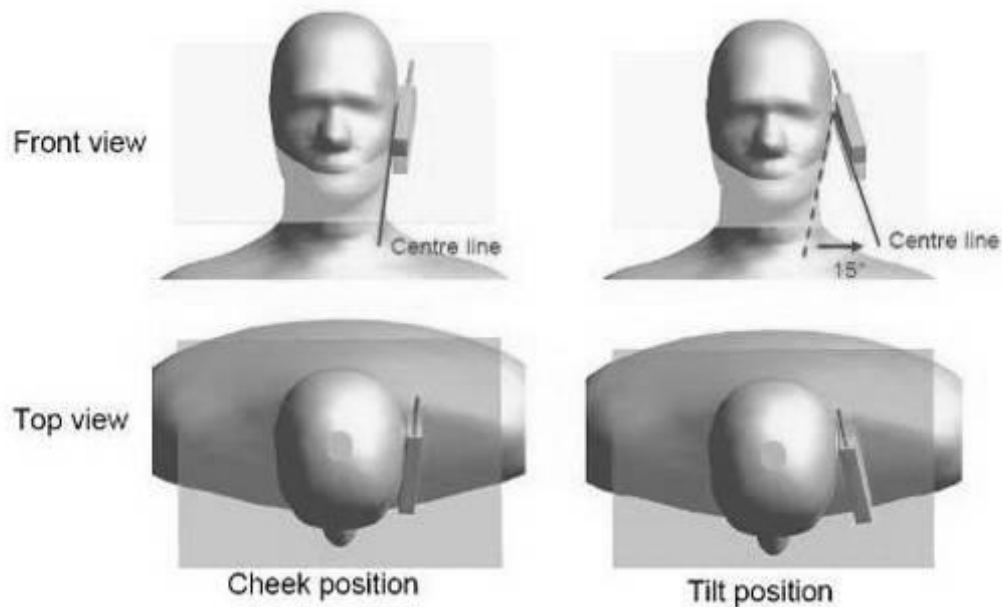
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with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

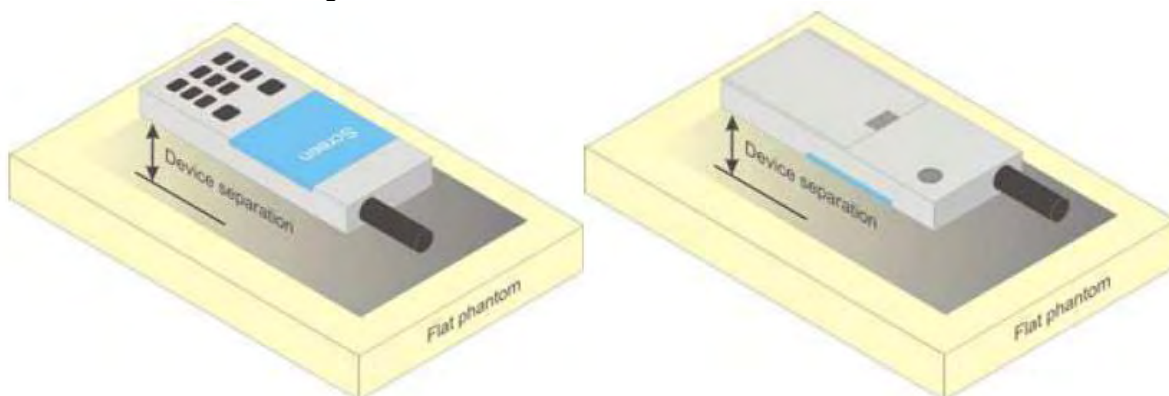
5.2.1 Body-worn accessory exposure conditions

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 $> 1.2 \text{ W/kg}$, 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.

LTE Band 7 SAR Test Record													
Ant 2 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DS11													
Front side	20	QPSK 1_99	20850/2510	1:1	0.298	0.155	-0.13	19.17	24.50	3.412	1.017	22.1	Yes
Back side	20	QPSK 1_99	20850/2510	1:1	0.350	0.170	0.09	19.17	24.50	3.412	1.194	22.1	Yes
Left side	20	QPSK 1_99	20850/2510	1:1	0.574	0.254	-0.18	19.17	24.50	3.412	1.958	22.1	No
Top side	20	QPSK 1_99	20850/2510	1:1	0.081	0.042	0.03	19.17	24.50	3.412	0.276	22.1	Yes
Left side	20	QPSK 1_50	21100/2535	1:1	0.648	0.285	-0.11	19.00	24.50	3.548	2.299	22.1	No
Left side	20	QPSK 1_0	21350/2560	1:1	0.804	0.373	-0.05	19.14	24.50	3.436	2.762	22.1	No
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DS11													
Front side	20	QPSK 50_0	20850/2510	1:1	0.253	0.129	0.12	19.22	24.50	3.373	0.853	22.1	Yes
Back side	20	QPSK 50_0	20850/2510	1:1	0.285	0.142	0.09	19.22	24.50	3.373	0.961	22.1	Yes
Left side	20	QPSK 50_0	20850/2510	1:1	0.688	0.305	0.11	19.22	24.50	3.373	2.321	22.1	No
Top side	20	QPSK 50_0	20850/2510	1:1	0.071	0.036	0.11	19.22	24.50	3.373	0.239	22.1	Yes
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DS11													
Left side	20	QPSK 100_0	20850/2510	1:1	0.692	0.315	-0.02	19.24	24.50	3.357	2.323	22.1	No



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LTE Band 41 SAR Test Record													
Ant 2 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DS11													
Front side	20	QPSK 1_50	39750/2506	1:1.58	0.324	0.164	0.03	20.68	25.00	2.704	0.876	22.3	Yes
Back side	20	QPSK 1_50	39750/2506	1:1.58	0.398	0.194	-0.11	20.68	25.00	2.704	1.076	22.3	Yes
Left side	20	QPSK 1_50	39750/2506	1:1.58	0.608	0.285	0.17	20.68	25.00	2.704	1.644	22.3	No
Top side	20	QPSK 1_50	39750/2506	1:1.58	0.093	0.047	-0.17	20.68	25.00	2.704	0.251	22.3	Yes
Left side	20	QPSK 1_0	40185/2549.5	1:1.58	0.620	0.280	-0.15	20.67	25.00	2.710	1.680	22.3	No
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.762	0.355	0.15	20.45	25.00	2.851	2.172	22.3	No
Left side	20	QPSK 1_0	41055/2636.5	1:1.58	0.747	0.330	0.04	20.68	25.00	2.704	2.020	22.3	No
Left side	20	QPSK 1_0	41490/2680	1:1.58	0.787	0.351	-0.02	20.68	25.00	2.704	2.128	22.3	No
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DS11													
Front side	20	QPSK 50_50	40185/2549.5	1:1.58	0.318	0.155	0.07	20.76	25.00	2.655	0.844	22.3	Yes
Back side	20	QPSK 50_50	40185/2549.5	1:1.58	0.415	0.198	-0.01	20.76	25.00	2.655	1.102	22.3	Yes
Left side	20	QPSK 50_50	40185/2549.5	1:1.58	0.733	0.332	-0.13	20.76	25.00	2.655	1.946	22.3	No
Top side	20	QPSK 50_50	40185/2549.5	1:1.58	0.063	0.032	-0.01	20.76	25.00	2.655	0.167	22.3	Yes
Left side	20	QPSK 50_50	39750/2506	1:1.58	0.638	0.298	-0.19	20.74	25.00	2.667	1.701	22.3	No
Left side	20	QPSK 50_50	40620/2593	1:1.58	0.771	0.346	0.05	20.53	25.00	2.799	2.158	22.3	No
Left side	20	QPSK 50_25	41055/2636.5	1:1.58	0.776	0.343	-0.10	20.73	25.00	2.673	2.074	22.3	No
Left side	20	QPSK 50_50	41490/2680	1:1.58	0.797	0.354	0.05	20.75	25.00	2.661	2.121	22.3	No
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DS11													
Left side	20	QPSK 50_50	41055/2636.5	1:1.58	0.733	0.335	-0.14	20.76	25.00	2.655	1.946	22.3	No

SA N7 SAR Test Record													
Ant2 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DS11													
Front side	20	QPSK 1_1	512000/2560	100%	0.390	0.191	-0.14	18.77	25.00	4.198	1.637	22.4	No
Back side	20	QPSK 1_1	512000/2560	100%	0.465	0.218	-0.13	18.77	25.00	4.198	1.952	22.4	No
Left side	20	QPSK 1_1	512000/2560	100%	0.851	0.403	0.14	18.77	25.00	4.198	3.572	22.4	No
Top side	20	QPSK 1_1	512000/2560	100%	0.068	0.034	0.12	18.77	25.00	4.198	0.285	22.4	Yes
Left side	20	QPSK 1_104	502000/2510	100%	0.793	0.353	0.09	18.64	25.00	4.325	3.430	22.4	No
Left side	20	QPSK 1_104	507000/2535	100%	0.780	0.345	-0.08	18.72	25.00	4.246	3.312	22.4	No
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DS11													
Front side	20	QPSK 50_28	507000/2535	100%	0.365	0.181	-0.02	18.85	25.00	4.121	1.504	22.4	No
Back side	20	QPSK 50_28	507000/2535	100%	0.425	0.203	-0.08	18.85	25.00	4.121	1.751	22.4	No
Left side	20	QPSK 50_28	507000/2535	100%	0.758	0.345	-0.01	18.85	25.00	4.121	3.124	22.4	No
Top side	20	QPSK 50_28	507000/2535	100%	0.158	0.047	0.05	18.85	25.00	4.121	0.651	22.4	Yes
Left side	20	QPSK 50_28	502000/2510	100%	0.733	0.335	0.01	18.82	25.00	4.150	3.042	22.4	No
Left side	20	QPSK 50_28	502000/2510	100%	0.738	0.339	0.01	18.79	25.00	4.178	3.084	22.4	No
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DS11													
Left side	20	QPSK 100_0	507000/2535	100%	0.590	0.271	0.08	17.79	25.00	5.260	3.104	22.4	No



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

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SA N41 SAR Test Record													
Ant2 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	Product Specific 10-g SAR Exclusion
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DS11													
Front side	100	OFDM QPSK 1_1	523302/2616.51	100%	0.412	0.195	-0.13	18.89	23.00	2.576	1.061	22.3	Yes
Back side	100	OFDM QPSK 1_1	523302/2616.51	100%	0.440	0.210	0.00	18.89	23.00	2.576	1.134	22.3	Yes
Left side	100	OFDM QPSK 1_1	523302/2616.51	100%	0.846	0.374	0.06	18.89	23.00	2.576	2.180	22.3	No
Top side	100	OFDM QPSK 1_1	523302/2616.51	100%	0.059	0.033	-0.01	18.89	23.00	2.576	0.152	22.3	Yes
Left side	100	OFDM QPSK 1_271	509202/2546.01	100%	0.786	0.344	-0.06	18.61	23.00	2.748	2.160	22.3	No
Left side	100	OFDM QPSK 1_137	513900/2569.5	100%	0.790	0.348	0.09	18.80	23.00	2.630	2.078	22.3	No
Left side	100	OFDM QPSK 1_137	518598/2592.99	100%	0.851	0.392	0.10	18.81	23.00	2.624	2.233	22.3	No
Left side	100	OFDM QPSK 1_1	528000/2640	100%	0.832	0.356	0.13	18.87	23.00	2.588	2.153	22.3	No
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DS11													
Front side	100	OFDM QPSK 135_69	518598/2592.99	100%	0.342	0.175	0.06	18.86	23.00	2.594	0.887	22.3	Yes
Back side	100	OFDM QPSK 135_69	518598/2592.99	100%	0.428	0.205	0.06	18.86	23.00	2.594	1.110	22.3	Yes
Left side	100	OFDM QPSK 135_69	518598/2592.99	100%	0.812	0.359	-0.16	18.86	23.00	2.594	2.106	22.3	No
Top side	100	OFDM QPSK 135_69	518598/2592.99	100%	0.057	0.032	0.18	18.86	23.00	2.594	0.148	22.3	Yes
Left side	100	OFDM QPSK 135_69	509202/2546.01	100%	0.755	0.330	-0.14	18.65	23.00	2.723	2.056	22.3	No
Left side	100	OFDM QPSK 135_69	513900/2569.5	100%	0.758	0.334	0.13	18.73	23.00	2.673	2.026	22.3	No
Left side	100	OFDM QPSK 135_69	523302/2616.51	100%	0.817	0.376	0.17	18.88	23.00	2.582	2.110	22.3	No
Left side	100	OFDM QPSK 135_69	528000/2640	100%	0.799	0.342	-0.14	18.77	23.00	2.649	2.116	22.3	No
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DS11													
Left side	100	OFDM QPSK 270_0	518598/2592.99	100%	0.681	0.321	-0.08	17.83	23.00	3.289	2.239	22.3	No



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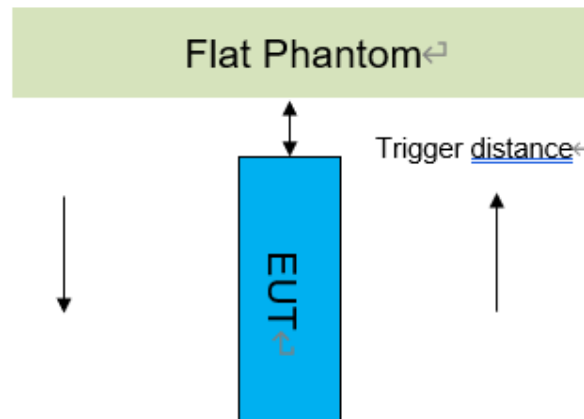
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5.4 Proximity Sensor Triggering Test

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.

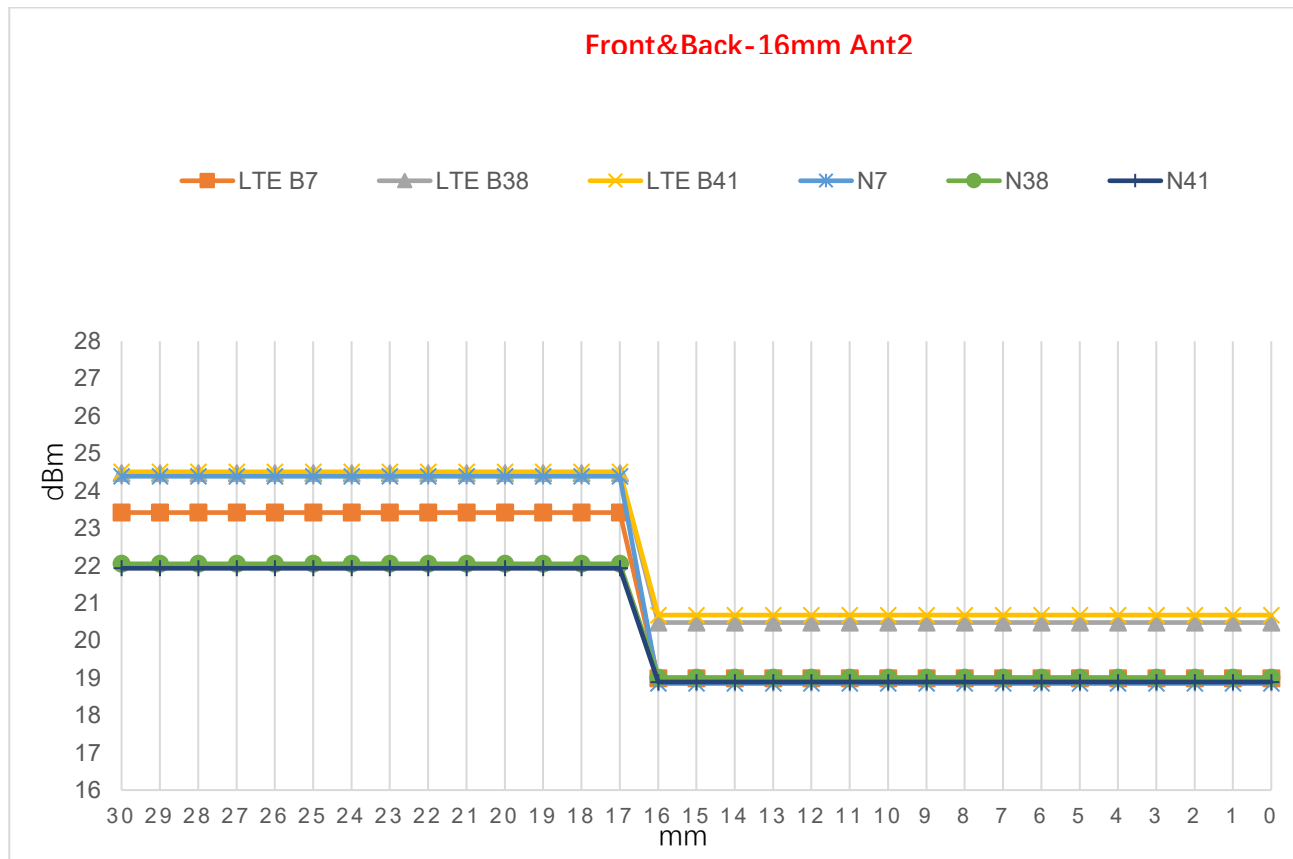


Proximity Sensor Triggering Distance(mm)	
Ant No.	Ant2
Band	LTE Band7/B38/B41 NR N7/38/41
Position	Front Side 16mm Back Side 16mm Left Side 20mm Top Side 11mm

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



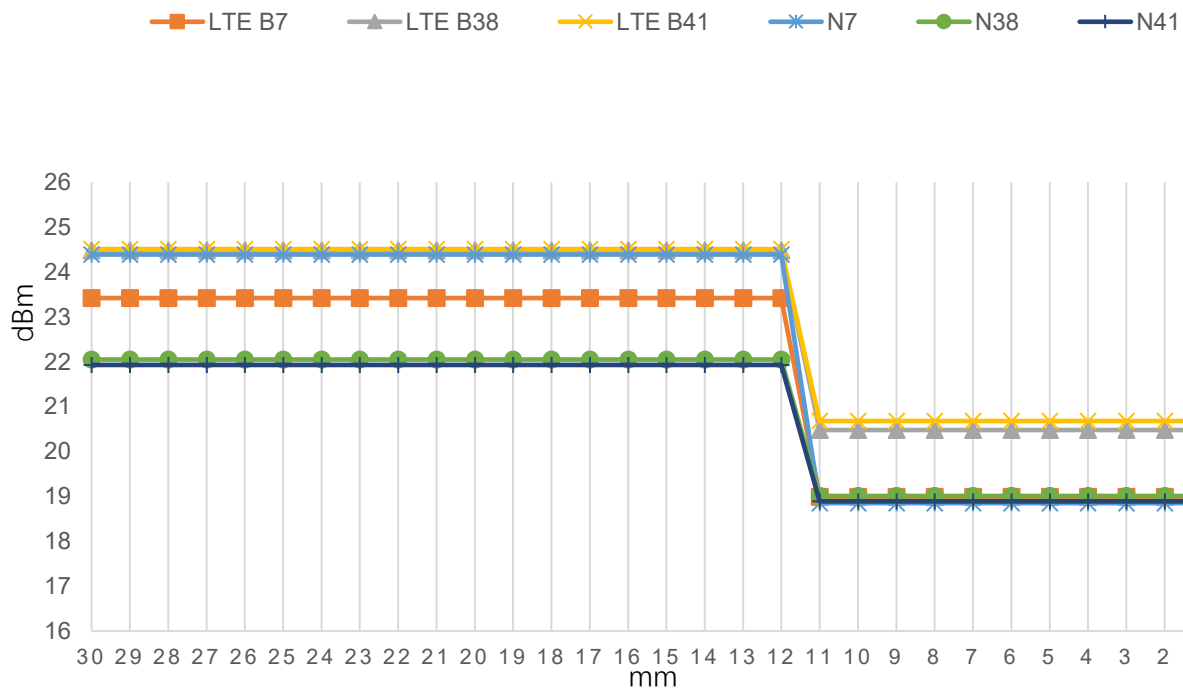
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Top-11mm Ant2



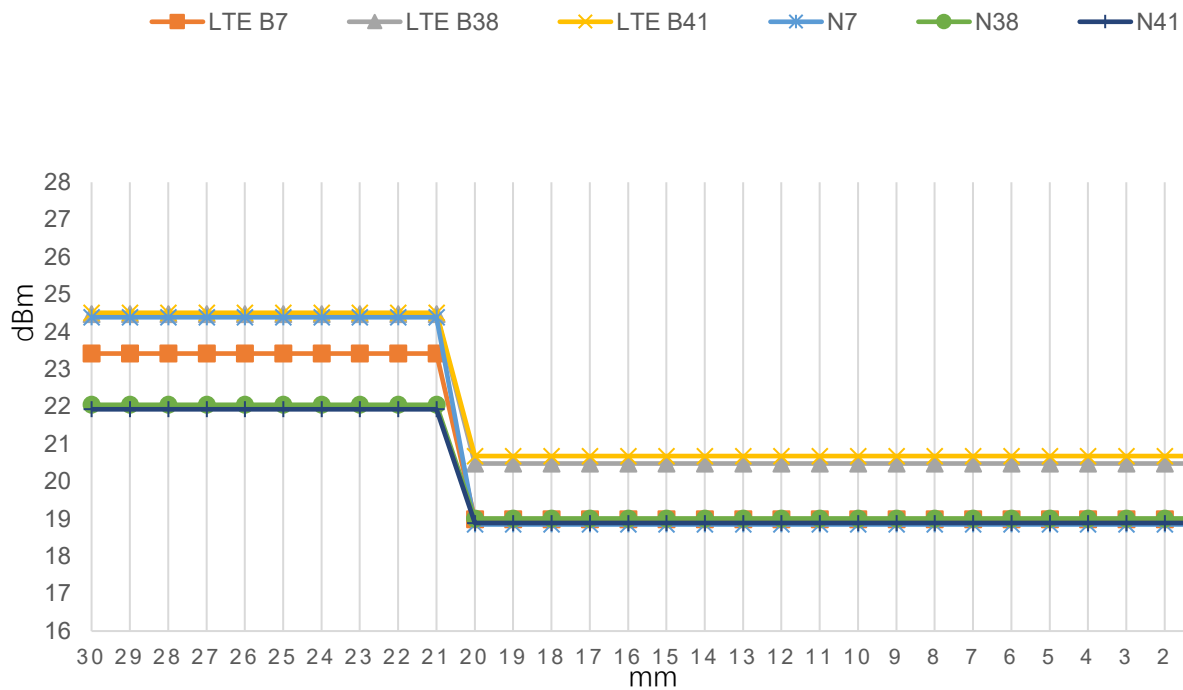
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Left-20mm (Ant2)



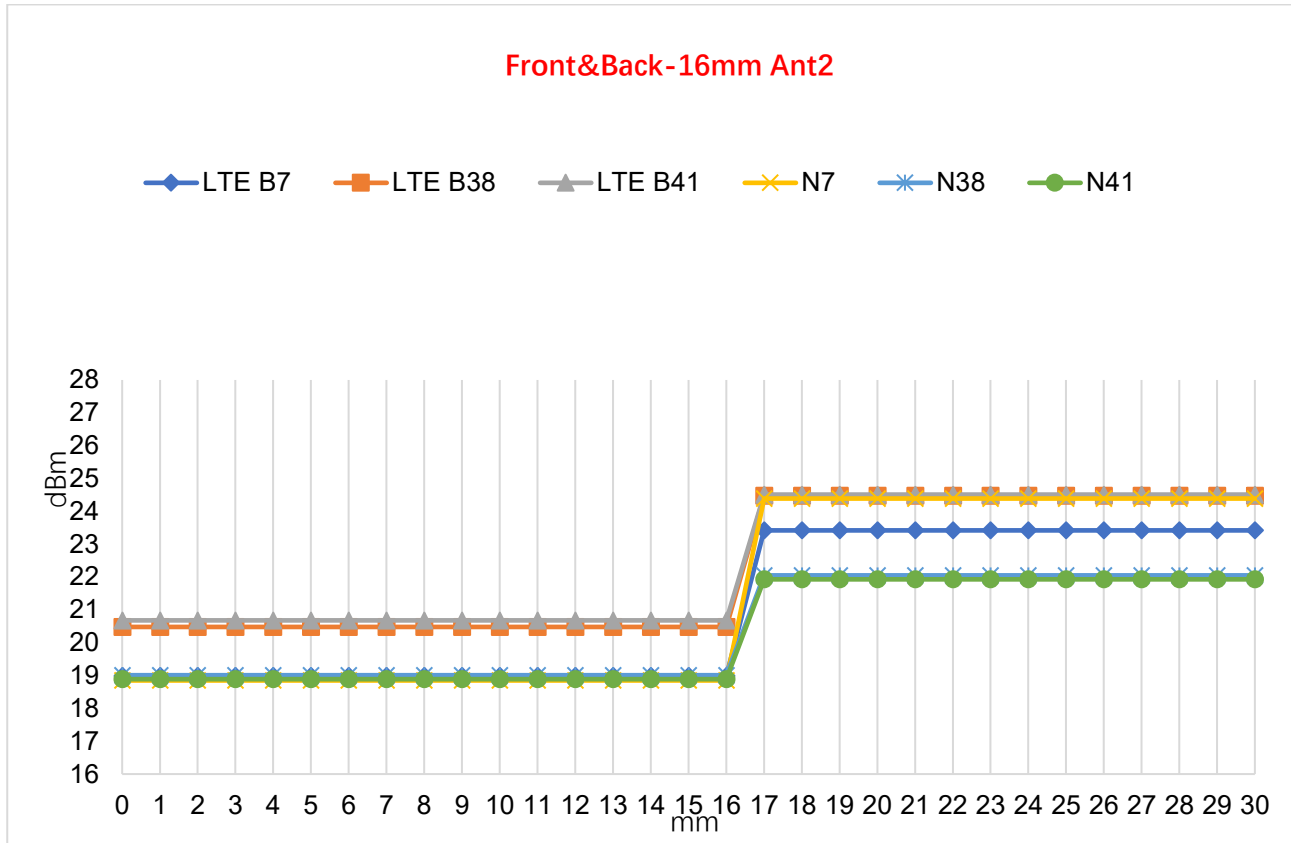
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- DUT Moving Away(Release) from the Phantom



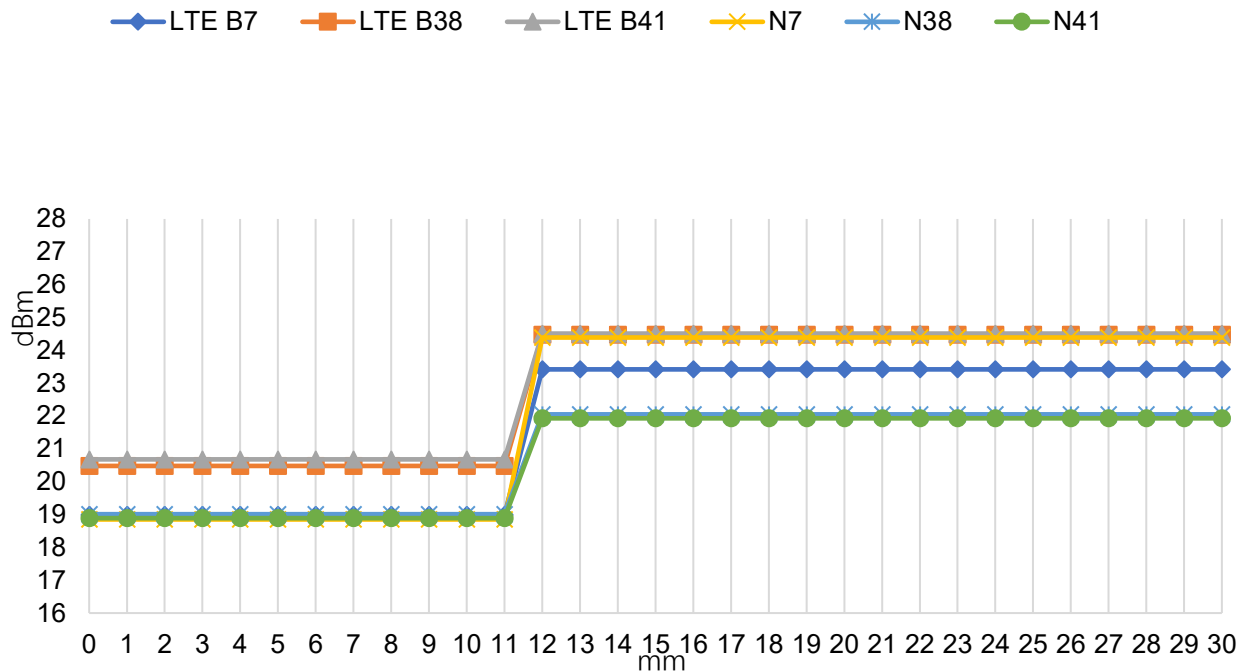
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Top-11mm Ant2

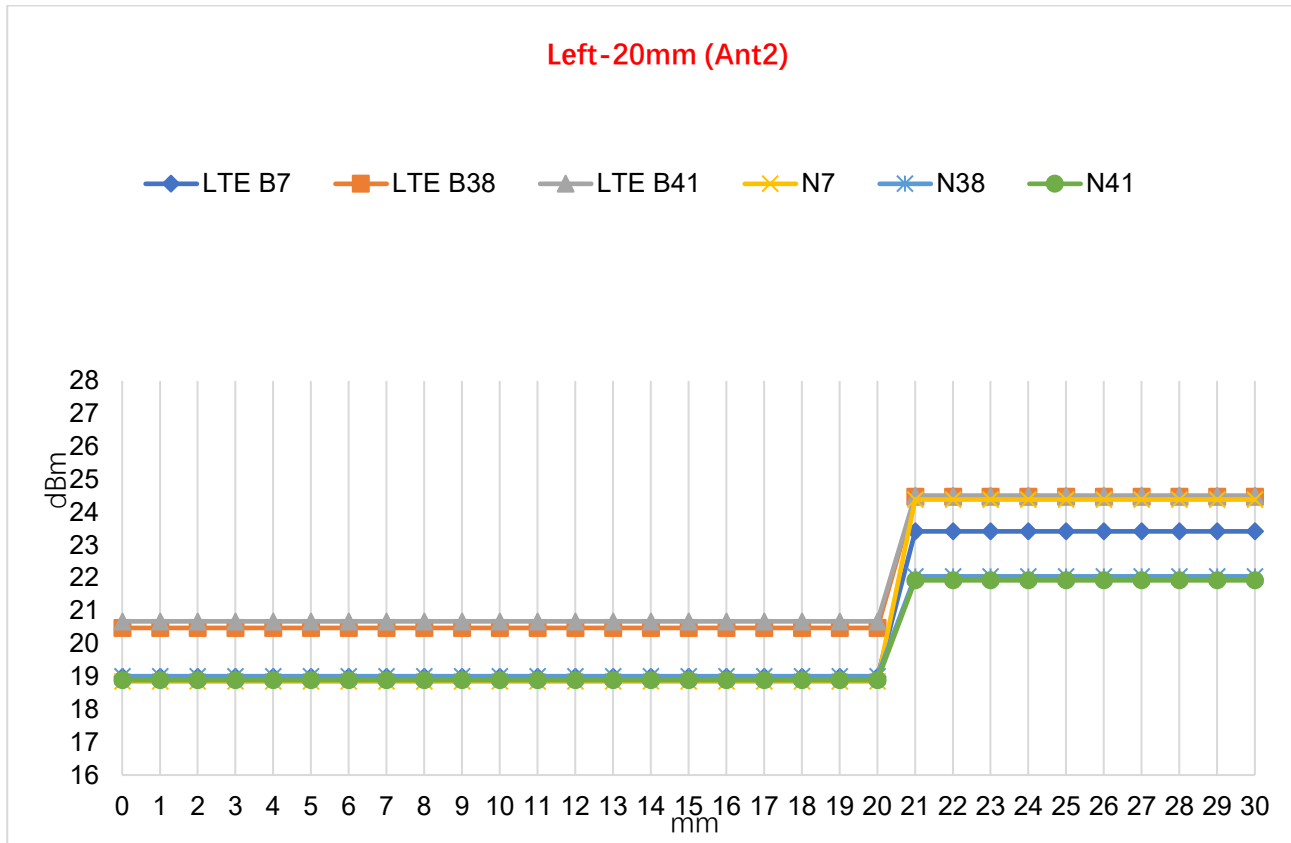


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Proximity sensor coverage

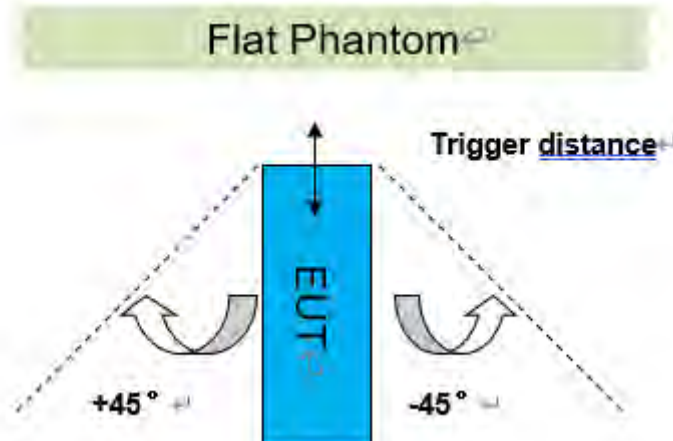
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user, but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage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

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

Device tilt angle influences on proximity sensor triggering

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

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



Summary of Tablet Tilt Angle Influence on Proximity Sensor Triggering for Edge Side													
Band (MHz)	Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant2: LTE Band7/B38/B41 NR N7/38/41	Left Side 20mm Top Side 11mm	Left Side 20mm Top Side 11mm	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 4 : 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	42.800	0.873	41.90	0.89	2.15%	-1.91%	22.3	2024/12/13
750 Head	750	43.900	0.885	41.90	0.89	4.77%	-0.56%	22.3	2024/12/18
750 Head	750	43.000	0.876	41.90	0.89	2.63%	-1.57%	22.3	2024/12/19
835 Head	835	40.600	0.880	41.50	0.90	-2.17%	-2.22%	22.3	2024/12/15
835 Head	835	43.100	0.885	41.50	0.90	3.86%	-1.67%	22.3	2024/12/18
835 Head	835	41.000	0.890	41.50	0.90	-1.20%	-1.11%	22.3	2024/12/18
835 Head	835	41.000	0.919	41.50	0.90	-1.20%	2.11%	22.3	2024/12/23
1750 Head	1750	40.545	1.384	40.10	1.37	1.11%	1.02%	22.4	2024/12/8
1750 Head	1750	40.200	1.320	40.10	1.37	0.25%	-3.65%	22.3	2024/12/14
1750 Head	1750	41.900	1.340	40.10	1.37	4.49%	-2.19%	22.3	2024/12/18
1750 Head	1750	40.200	1.310	40.10	1.37	0.25%	-4.38%	22.3	2024/12/20
1950 Head	1950	39.500	1.390	40.00	1.40	-1.25%	-0.71%	22.3	2024/12/16
1950 Head	1950	41.600	1.460	40.00	1.40	4.00%	4.29%	22.3	2024/12/18
2300 Head	2300	40.498	1.629	39.50	1.67	2.53%	-2.46%	22.1	2024/12/5
2450 Head	2450	39.863	1.756	39.20	1.80	1.69%	-2.44%	22.4	2024/12/6
2600 Head	2600	38.361	1.897	39.00	1.96	-1.64%	-3.21%	22.1	2024/12/17
2600 Head	2600	39.515	1.937	39.00	1.96	1.32%	-1.17%	22.1	2024/12/20
2600 Head	2600	39.371	1.921	39.00	1.96	0.95%	-1.99%	22.4	2024/12/22
2600 Head	2600	38.709	1.947	39.00	1.96	-0.75%	-0.66%	22.3	2024/12/23
3500 Head	3500	37.300	2.790	37.90	2.91	-1.58%	-4.12%	22.4	2024/12/18
3500 Head	3500	37.400	2.810	37.90	2.91	-1.32%	-3.44%	22.1	2024/12/24
3700 Head	3700	36.600	2.980	37.70	3.12	-2.92%	-4.49%	22.1	2024/12/19
3700 Head	3700	36.600	2.990	37.70	3.12	-2.92%	-4.17%	22.4	2024/12/25
3900 Head	3900	35.900	3.200	37.50	3.32	-4.27%	-3.61%	22.4	2024/12/26
5250 Head	5250	36.200	4.760	35.90	4.71	0.84%	1.06%	22.3	2024/11/26
5600 Head	5600	35.300	5.140	35.50	5.07	-0.56%	1.38%	22.4	2024/11/27
5750 Head	5750	35.100	5.340	35.40	5.22	-0.85%	2.30%	22.4	2024/11/28
6500 Head	6500	34.400	6.320	34.50	6.07	-0.29%	4.12%	22.3	2024/12/4

Table 5 : Measurement result of Tissue electric parameters



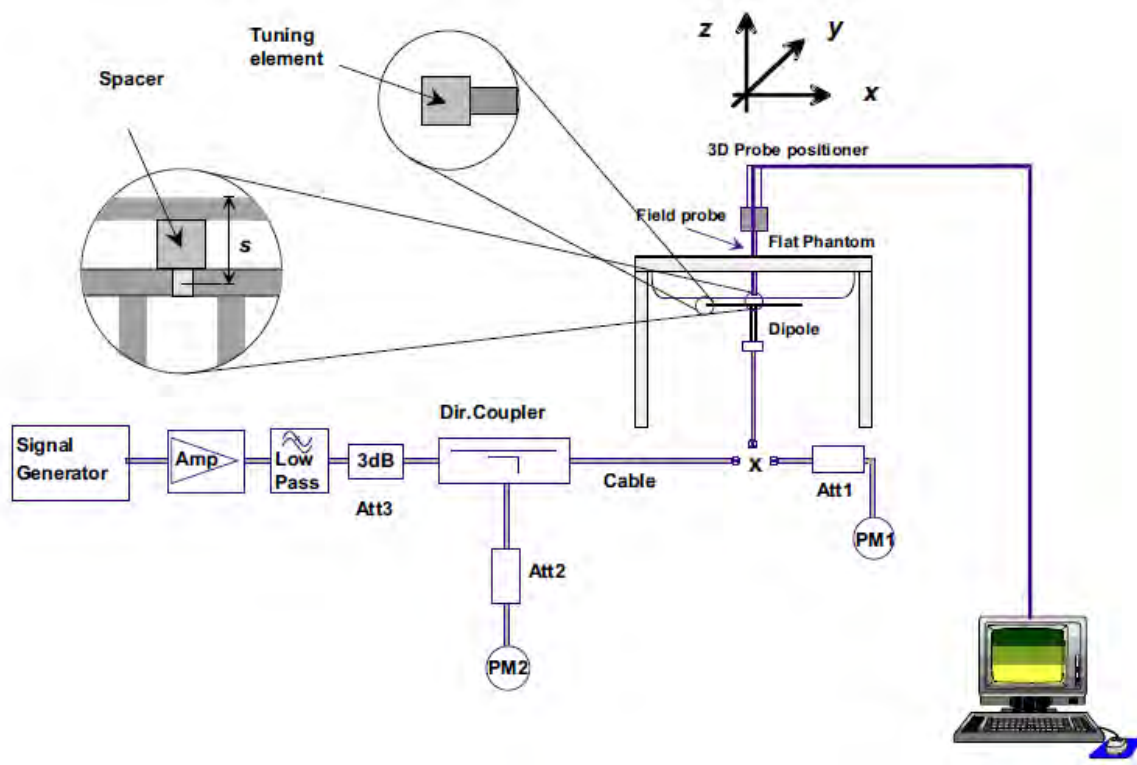
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6.2 SAR System Check

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	2.13	1.43	8.52	5.72	8.37	5.53	1.79%	3.44%	22.3	2024/12/13
D750V3	Head	2.15	1.42	8.60	5.68	8.37	5.53	2.75%	2.71%	22.3	2024/12/18
D750V3	Head	2.14	1.44	8.56	5.76	8.37	5.53	2.27%	4.16%	22.3	2024/12/19
D835V2	Head	2.59	1.72	10.36	6.88	9.53	6.29	8.71%	9.38%	22.3	2024/12/15
D835V2	Head	2.22	1.46	8.88	5.84	9.53	6.29	-6.82%	-7.15%	22.3	2024/12/18
D835V2	Head	2.57	1.71	10.28	6.84	9.53	6.29	7.87%	8.74%	22.3	2024/12/18
D835V2	Head	2.51	1.67	10.04	6.68	9.53	6.29	5.35%	6.20%	22.3	2024/12/23
D1750V2	Head	8.98	4.79	35.92	19.16	36.60	19.30	-1.86%	-0.73%	22.4	2024/12/8
D1750V2	Head	9.60	5.20	38.40	20.80	36.60	19.30	4.92%	7.77%	22.3	2024/12/14
D1750V2	Head	9.44	5.09	37.76	20.36	36.60	19.30	3.17%	5.49%	22.3	2024/12/18
D1750V2	Head	9.50	5.15	38.00	20.60	36.60	19.30	3.83%	6.74%	22.3	2024/12/20
D1950V3	Head	10.80	5.64	43.20	22.56	40.50	20.80	6.67%	8.46%	22.3	2024/12/16
D1950V3	Head	10.80	5.61	43.20	22.44	40.50	20.80	6.67%	7.88%	22.3	2024/12/17
D1950V3	Head	9.65	5.04	38.60	20.16	40.50	20.80	-4.69%	-3.08%	22.3	2024/12/18
D2300V2	Head	12.80	6.12	51.20	24.48	48.70	23.30	5.13%	5.06%	22.1	2024/12/5
D2450V2	Head	13.10	6.06	52.40	24.24	52.20	24.30	0.38%	-0.25%	22.4	2024/12/6
D2600V2	Head	14.40	6.46	57.60	25.84	57.70	25.80	-0.17%	0.16%	22.1	2024/12/17
D2600V2	Head	14.20	6.41	56.80	25.64	57.70	25.80	-1.56%	-0.62%	22.1	2024/12/20
D2600V2	Head	13.60	6.09	54.40	24.36	57.70	25.80	-5.72%	-5.58%	22.4	2024/12/22
D2600V2	Head	13.70	6.14	54.80	24.56	57.70	25.80	-5.03%	-4.81%	22.3	2024/12/23
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)	6.45	2.62	64.50	26.20	65.80	25.70	-1.98%	1.95%	22.4	2024/12/18
	Head(3.5GHz)	6.37	2.52	63.70	25.20	65.80	25.70	-3.19%	-1.95%	22.1	2024/12/24
D3700V2	Head(3.7GHz)	6.27	2.45	62.70	24.50	66.10	24.70	-5.14%	-0.81%	22.1	2024/12/19
D3700V2	Head(3.7GHz)	6.15	2.35	61.50	23.50	66.10	24.70	-6.96%	-4.86%	22.4	2024/12/25
D3900V2	Head(3.9GHz)	6.79	2.49	67.90	24.90	66.70	23.80	1.80%	4.62%	22.4	2024/12/26
D5GHzV2	Head(5.25GHz)	7.24	2.11	72.40	21.10	77.30	22.10	-6.34%	-4.52%	22.3	2024/11/26
	Head(5.6GHz)	8.60	2.48	86.00	24.80	81.30	23.10	5.78%	7.36%	22.4	2024/11/27
	Head(5.75GHz)	7.67	2.25	76.70	22.50	77.10	21.30	-0.52%	5.63%	22.4	2024/11/28
D6500V2	Head(6.5GHz)	30.70	5.82	307.00	58.20	291.00	53.90	5.50%	7.98%	22.3	2024/12/4

Table 6 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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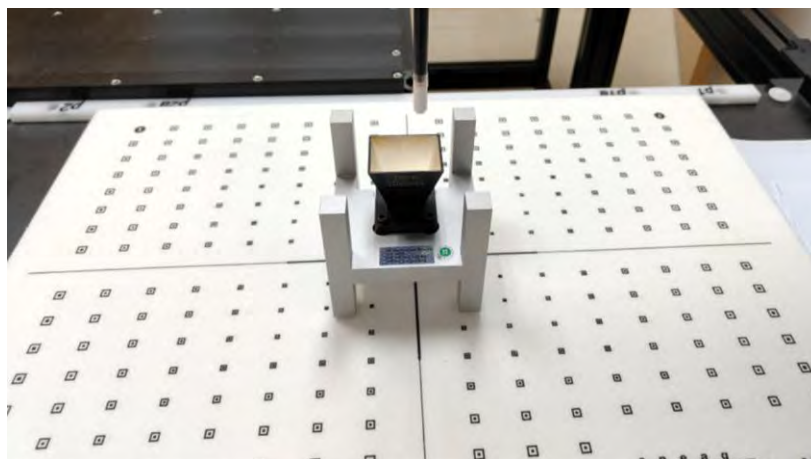
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7 PD System Check

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

PD System Validation Result(s)				
Frequent	Measured PD W/m ²	Target PD W/m ²	Circular Deviation (Within ± 0.66 dB)	Test Date
	4cm ²	4cm ²	4cm ²	
10G HZ Source	197.00	183	0.32	2024/12/11

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



System Verification Setup Photo

8 Test Configuration

8.1 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.

8.2 Operation Configurations

8.2.1 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 33 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 33 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.

8.2.2 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.

2) . Head SAR



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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 7 : 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 8 : 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 ^o	β_c^{o}	β_d^{o}	β_d (SF)) ^o	β_c/β_d^{o}	$\beta_{hs}^{(1)}$) ^o	β_{acc}^{o}	β_{ad}^{o}	β_c^{o} (SF)) ^o	β_{ad}^{o} (code)) ^o	CM ⁽²⁾ (dB)) ^o	MP R ^o (dB)) ^o	AG ⁽⁴⁾) ^o Inde x ^o	E- TFC I ^o
1 ^o	11/15 ⁽³⁾ ^o	15/15 ⁽³⁾ ^o	64 ^o	11/15 ⁽³⁾ ^o	22/15 ^o	209/225 ^o	1039/225 ^o	4 ^o	1 ^o	1.0 ^o	0.0 ^o	20 ^o	75 ^o
2 ^o	6/15 ^o	15/15 ^o	64 ^o	6/15 ^o	12/15 ^o	12/15 ^o	94/75 ^o	4 ^o	1 ^o	3.0 ^o	2.0 ^o	12 ^o	67 ^o
3 ^o	15/15 ^o	9/15 ^o	64 ^o	15/9 ^o	30/15 ^o	30/15 ^o	$\beta_{ad1}:47/15o$ $\beta_{ad2}:47/15o$	4 ^o	2 ^o	2.0 ^o	1.0 ^o	15 ^o	92 ^o
4 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	2/15 ^o	56/75 ^o	4 ^o	1 ^o	3.0 ^o	2.0 ^o	17 ^o	71 ^o
5 ^o	15/15 ⁽⁴⁾ ^o	15/15 ⁽⁴⁾ ^o	64 ^o	15/15 ⁽⁴⁾ ^o	30/15 ^o	24/15 ^o	134/15 ^o	4 ^o	1 ^o	1.0 ^o	0.0 ^o	21 ^o	81 ^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, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference^o 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 $\beta_d = 15/15$^o 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 $\beta_d = 15/15$^o 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^o Note 6: β_{ad} can not be set directly; it is set by Absolute Grant Value.^o													

Table 9 : 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 10 : HSUPA UE category



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c) 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_{HSPA} (Note1)	$\beta_{\text{E-DCH}}$	$\beta_{\text{E-DCH}}^{\text{SF2}}$ (2xSF2) (Note 4)	$\beta_{\text{E-DCH}}^{\text{SF4}}$ (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{\text{E-DCH}}^{\text{SF2}}: 30/15$ $\beta_{\text{E-DCH}}^{\text{SF4}}: 30/15$	$\beta_{\text{E-DCH}}^{\text{SF3}}: 24/15$ $\beta_{\text{E-DCH}}^{\text{SF4}}: 24/15$	3.5	2.5	14	105	105
Note 1: $\Delta_{\text{ACK}}, \Delta_{\text{NACK}}$ and $\Delta_{\text{CQI}} = 30/15$ with $\beta_{\text{HSPA}} = 30/15 * \beta_{\text{c}}$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, $\text{MPR} = \text{MAX}(\text{CM}-1, 0)$. Note 3: DPDCH is not configured, therefore the β_{c} is set to 1 and $\beta_{\text{d}} = 0$ by default. Note 4: $\beta_{\text{E-DCH}}$ 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 E-DCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.											



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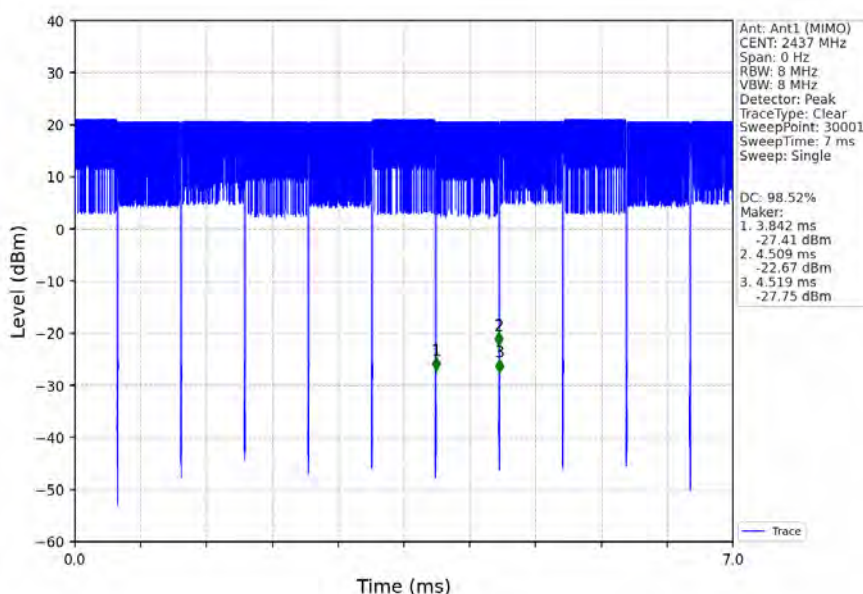
8.2.3 WIFI Test Configuration

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.

8.2.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=98.52%

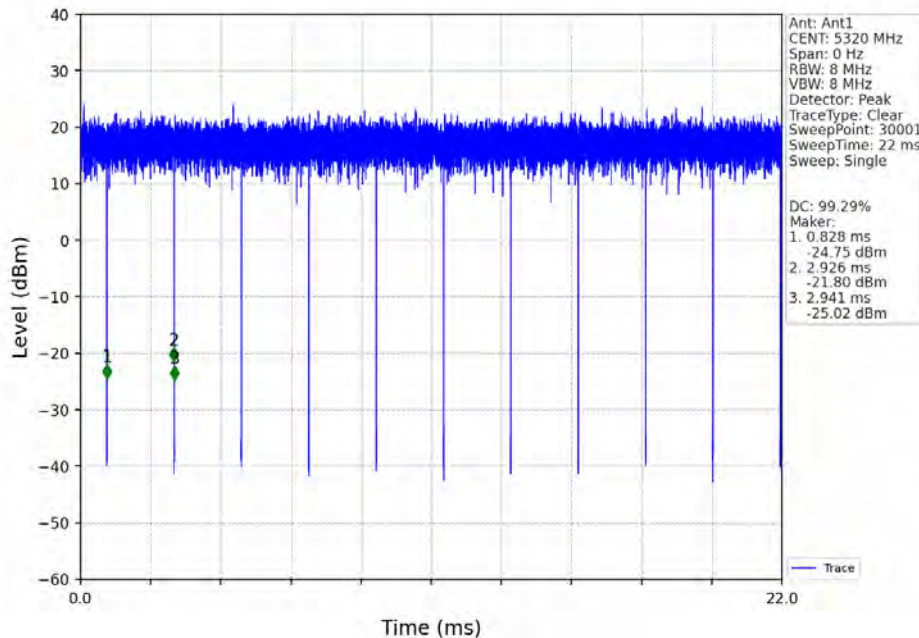


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2) Wi-Fi 5GHz 802.11a:

Duty cycle=99.29%



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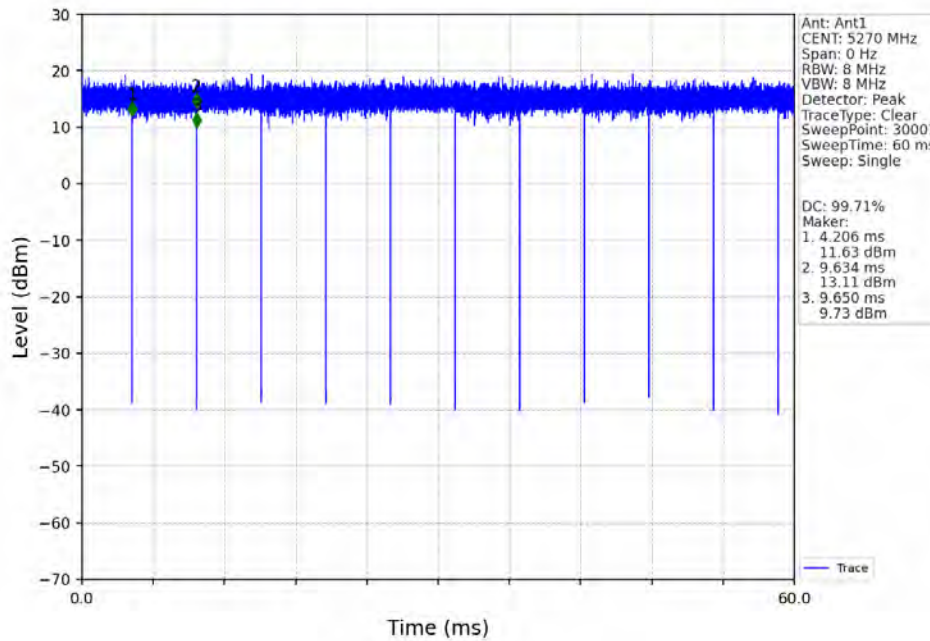
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3) Wi-Fi 5GHz 802.11n40:

Duty cycle=99.71%



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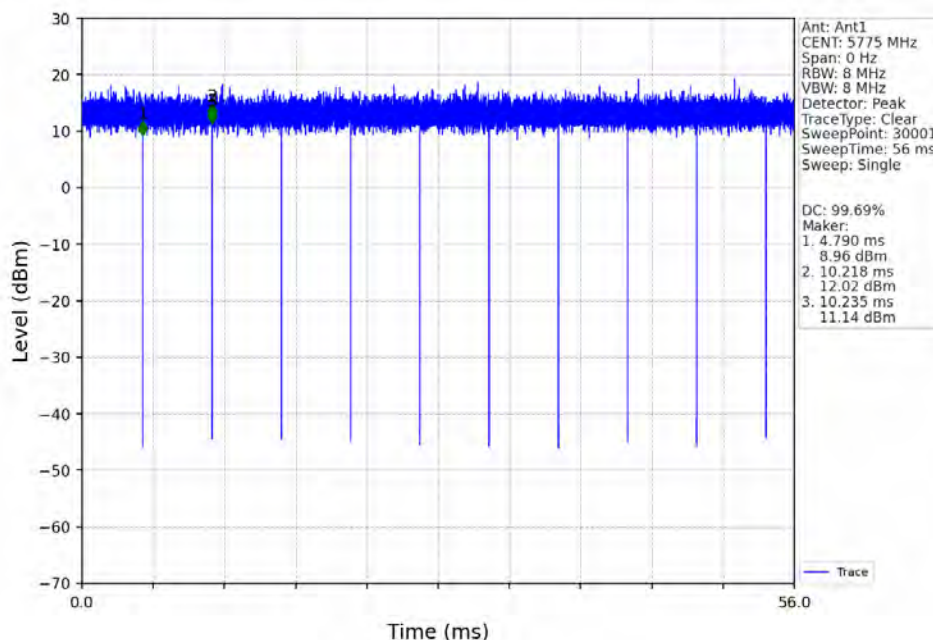
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4) Wi-Fi 5GHz 802.11ac:

Duty cycle=99.69%



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8.2.3.2 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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8.2.3.3 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"



8.2.3.4 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.



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8.2.3.5 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.



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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.



8.2.3.6 5 GHz WiFi PD Procedures

Power Density General Notes:

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

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

Wi-Fi 6E PD Test Record MIMO										
Test position	Test mode	Test ch./Freq.	Distance (mm)	Grid Step (λ)	Duty Cycle	Duty Cycle Scaled factor	iPD _n	iPD ratio	Measured PD 4cm ² (W/m ²)	Power drift (dB)
Power Density Test DATA										
Right side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	26.00	0.87	4.06	-0.09
Right side	802.11ax 160M	143/6665	9.7	0.0625	99.71%	1.003	21.30		1.12	0.07



8.2.4 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:

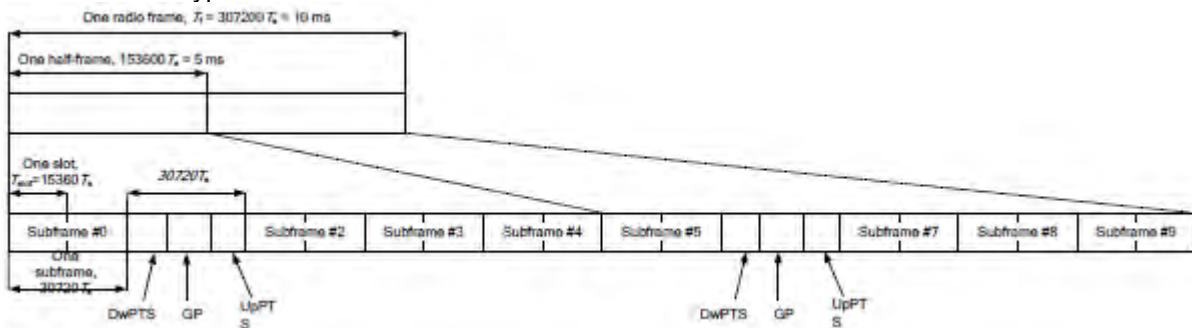


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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	4384.Ts	5120.Ts	7680.Ts	4384.Ts	5120.Ts
5	6592.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 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0



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QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM	≥1						5

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

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



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F) LTE CA additional specification

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

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

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

2DL		3DL		4DL		5DL	
Combination	Exclusion	Combination	Exclusion	Combination	Exclusion	Combination	Exclusion
CA_12A-66A	Yes	CA_12A-66A-66A	Yes	CA_5A-30A-66A-66A	No	CA_2A-7A-7A-66A-66A	No
CA_13A-48A	No	CA_2A-12A-66A	No	CA_2A-12A-66C	No		
CA_2A-12A	Yes	CA_2A-2A-12A	Yes	CA_2C-66A-66A	No		
CA_2A-2A	Yes	CA_2A-2A-4A	Yes	CA_2A-66C-71A	No		
CA_2A-48A	Yes	CA_2A-2A-5A	Yes	CA_2A-66A-66A-71A	No		
CA_2A-4A	Yes	CA_2A-2A-66A	Yes	CA_2A-2A-66A-71A	No		
CA_2A-5A	Yes	CA_2A-48A-66A	No	CA_2A-2A-4A-71A	No		
CA_2A-66A	Yes	CA_2A-48C	No	CA_2A-2A-4A-12A	No		
CA_48A-48A	Yes	CA_2A-4A-4A	Yes	CA_2A-2A-5A-7A	No		
CA_48A-66A	Yes	CA_2A-4A-5A	No	CA_2A-2A-7A-12A	No		
CA_48C	Yes	CA_2A-5A-48A	No	CA_2A-2A-7A-66A	No		
CA_4A-12A	Yes	CA_2A-5A-66A	No	CA_2A-4A-4A-12A	No		
CA_4A-48A	Yes	CA_2A-66A-66A	Yes	CA_2A-4A-7A-7A	No		
CA_4A-4A	Yes	CA_2A-66C	No	CA_2A-4A-7C	No		
CA_4A-5A	Yes	CA_48A-48C	No	CA_2A-7A-66A-66A	Yes		
CA_5A-48A	Yes	CA_48A-66A-66A	No	CA_2A-7A-7A-66A	Yes		
CA_5A-66A	Yes	CA_48C-66A	No	CA_5A-7A-66A-66A	No		
CA_66A-66A	Yes	CA_48D	No	CA_7A-7A-66A-66A	No		
CA_66B	No	CA_4A-48C	No				
CA_66C	Yes	CA_4A-4A-12A	No				
CA_12A-30A	Yes	CA_4A-4A-5A	No				
CA_14A-30A	Yes	CA_5A-48A-66A	No				
CA_14A-66A	Yes	CA_5A-48C	No				
CA_2A-14A	Yes	CA_5A-66A-66A	No				
CA_2A-30A	Yes	CA_66A-66A-66A	No				
CA_30A-66A	Yes	CA_12A-30A-66A	No				
CA_4A-30A	Yes	CA_14A-30A-66A	No				
CA_5A-30A	Yes	CA_14A-66A-66A	No				
CA_2A-71A	Yes	CA_2A-12A-30A	No				
CA_4A-71A	Yes	CA_2A-14A-30A	No				



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CA_66A-71A	Yes	CA_2A-14A-66A	No
CA_41A-41A	No	CA_2A-2A-14A	No
CA_2A-7A	Yes	CA_2A-30A-66A	No
CA_2C	Yes	CA_2A-5A-30A	No
CA_41C	No	CA_30A-66A-66A	No
CA_4A-7A	Yes	CA_4A-12A-30A	No
CA_5A-7A	Yes	CA_4A-5A-30A	No
CA_7A-12A	Yes	CA_5A-30A-66A	No
CA_7A-66A	Yes	CA_2A-4A-12A	Yes
CA_7A-7A	Yes	CA_12A-66C	No
CA_7C	Yes	CA_48A-48A-66A	No
		CA_2A-4A-71A	Yes
		CA_2A-66A-71A	Yes
		CA_66A-66A-71A	Yes
		CA_66C-71A	Yes
		CA_4A-4A-71A	No
		CA_2A-2A-71A	Yes
		CA_66A-66C	No
		CA_2C-66A	Yes
		CA_2A-48A-48A	No
		CA_2A-2A-7A	Yes
		CA_2A-4A-7A	Yes
		CA_2A-5A-7A	Yes
		CA_2A-7A-12A	Yes
		CA_2A-7A-66A	Yes
		CA_2A-7A-7A	Yes
		CA_2A-7C	Yes
		CA_4A-4A-7A	No
		CA_4A-7A-12A	No
		CA_4A-7A-7A	Yes
		CA_4A-7C	Yes
		CA_5A-7A-66A	Yes
		CA_5A-7A-7A	Yes
		CA_7A-12A-66A	No
		CA_7A-66A-66A	Yes
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Downlink LTE CA Power

Please refer to Appendix E.

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 C3)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.

1. For Inter-band uplink CA mode, Qualcomm Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from another 4G(LTE). Smart Transmit algorithm controls the total RF exposure of Inter-band uplink CA to not exceed FCC limit.

The Inter band Uplink CA as below table:

LTE Band/Antenna		B4 Ant5	B5 Ant1	B7 Ant2	B12 Ant1	B13 Ant1	B14 Ant1	B30 Ant2	B66 Ant2	B71 Ant1
B2	Ant2		√		√	√	√			√
	Ant5	√		√					√	
B4	Ant2		√		√	√				√
	Ant5			√						
B5	Ant1			√				√	√	
B7	Ant2				√					
B12	Ant1							√		
B13	Ant1								√	
B14	Ant1							√	√	
B66	Ant2									√

8.2.5 NR Band Test Configuration

1. NR Band n2/n5/n7/n14/n25/n26/n30/n38/n41/n66/n70/n71/n77/n78 support SA mode and n2/n5/n7/n25/n38/n41/n66/n71/n77/n78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		NR N2		NR N5	NR N7	NR N25	NR N38	NR N41	NR N66		NR N71	NR N77		NR N78
		Ant2	Ant5	Ant1	Ant2	Ant2	Ant2	Ant2	Ant2	Ant5	Ant1	Ant3	Ant7	Ant7
LTE Band2	Ant2			√							√			
	Ant5				√		√	√	√				√	√
LTE Band4	Ant5						√	√						
LTE Band5	Ant1	√			√		√		√				√	√
LTE Band7	Ant2										√			
	Ant5	√							√				√	√
LTE Band12	Ant1	√				√		√	√				√	√
LTE Band13	Ant1								√					
LTE Band14	Ant1	√							√				√	
LTE Band30	Ant2		√	√						√		√		
LTE Band48	Ant3	√							√					
	Ant7			√										
LTE Band66	Ant2			√							√			
	Ant5	√			√	√	√	√					√	√
LTE Band71	Ant1	√					√	√	√					√

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

Band		n2	n5	n7	n14	n25	n26	n30	n38
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Max Duty Cycle		100%	100%	100%	100%	100%	100%	100%

Band		n41	n48	n66	n70	n71	n77	n78
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
	Max Duty Cycle		100%	100%	100%	100%	100%	100%



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Band	SCS	Bandwidth												
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n2	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n14	15 kHz	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 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n25	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n26	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n30	15 kHz	N/A	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n41	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n48	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n66	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n70	15 kHz	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n71	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	Yes	N/A	Yes	N/A	Yes
n78	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	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 mode, Qualcomm Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed regulatory limit.



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9 Test Result

9.1 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:

$$\text{Frame-averaged power} = 10 \times \log (\text{Burst-averaged power mW} \times \text{Slot used} / 8).$$

- 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



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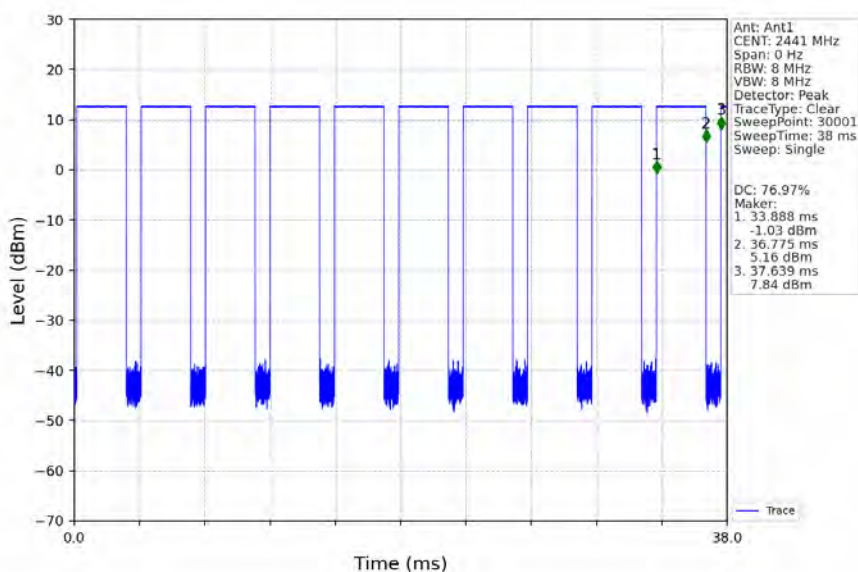
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measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

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

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

- 9) . The conducted power of BT is measured with RMS detector.
BT DH5 Duty Cycle=76.97%



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9.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 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 $\geq 200\text{ MHz}$.

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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9.2.1 SAR Result of GSM850

GSM850 SAR Test Record											
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.297	0.171	0.02	24.16	25.50	1.361	0.404	22.5
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.254	0.148	-0.07	24.16	25.50	1.361	0.346	22.5
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.381	0.234	0.08	24.16	25.50	1.361	0.519	22.5
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.272	0.159	-0.01	24.16	25.50	1.361	0.370	22.5
Right cheek	GPRS 4TS	128/824.2	1:2.075	0.439	0.250	0.12	24.25	25.50	1.334	0.585	22.5
Right cheek	GPRS 4TS	251/848.8	1:2.075	0.363	0.226	0.05	24.23	25.50	1.340	0.486	22.5
Body worn&Hotspot Test data(Separate 10mm) DSI6											
Front side	GPRS 2TS	190/836.6	1:4.15	0.361	0.222	-0.19	29.27	31.00	1.489	0.538	22.5
Back side	GPRS 2TS	190/836.6	1:4.15	0.275	0.168	-0.13	29.27	31.00	1.489	0.410	22.5
Left side	GPRS 2TS	190/836.6	1:4.15	0.065	0.037	0.14	29.27	31.00	1.489	0.097	22.5
Right side	GPRS 2TS	190/836.6	1:4.15	0.116	0.077	-0.19	29.27	31.00	1.489	0.173	22.5
Top side	GPRS 2TS	190/836.6	1:4.15	0.152	0.078	-0.11	29.27	31.00	1.489	0.226	22.5
Front side	GPRS 2TS	128/824.2	1:4.15	0.336	0.207	-0.19	29.27	31.00	1.489	0.500	22.5
Front side	GPRS 2TS	251/848.8	1:4.15	0.378	0.240	-0.01	29.27	31.00	1.489	0.563	22.5



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9.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record											
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.258	0.167	0.18	21.58	23.50	1.556	0.401	22.1
Left tilted	GPRS 4TS	661/1880	1:2.075	0.232	0.142	0.09	21.58	23.50	1.556	0.361	22.1
Right cheek	GPRS 4TS	661/1880	1:2.075	0.552	0.302	0.13	21.58	23.50	1.556	0.859	22.1
Right tilted	GPRS 4TS	661/1880	1:2.075	0.279	0.170	0.08	21.58	23.50	1.556	0.434	22.1
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.553	0.305	0.11	21.63	23.50	1.538	0.851	22.1
Right cheek	GPRS 4TS	810/1909.8	1:2.075	0.564	0.308	0.10	21.65	23.50	1.531	0.864	22.5
Body worn&Hotspot Test data(Separate 10mm) DSI6											
Front side	GPRS 4TS	661/1880	1:2.075	0.345	0.188	0.09	25.29	26.00	1.178	0.406	22.5
Back side	GPRS 4TS	661/1880	1:2.075	0.332	0.200	0.00	25.29	26.00	1.178	0.391	22.5
Left side	GPRS 4TS	661/1880	1:2.075	0.344	0.170	0.15	25.29	26.00	1.178	0.405	22.5
Top side	GPRS 4TS	661/1880	1:2.075	0.257	0.150	-0.03	25.29	26.00	1.178	0.303	22.5
Back side	GPRS 4TS	512/1850.2	1:2.075	0.341	0.185	0.02	25.17	26.00	1.211	0.413	22.5
Back side	GPRS 4TS	810/1909.8	1:2.075	0.346	0.198	0.11	25.28	26.00	1.180	0.408	22.5



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9.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record											
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Left cheek	RMC	9400/1880	1:1	0.266	0.177	0.15	18.72	19.50	1.197	0.318	22.1
Left tilted	RMC	9400/1880	1:1	0.262	0.162	0.03	18.72	19.50	1.197	0.314	22.1
Right cheek	RMC	9400/1880	1:1	0.618	0.359	0.01	18.72	19.50	1.197	0.740	22.1
Right tilted	RMC	9400/1880	1:1	0.290	0.181	-0.13	18.72	19.50	1.197	0.347	22.1
Right cheek	RMC	9262/1852.4	1:1	0.554	0.330	-0.08	18.65	19.50	1.216	0.674	22.1
Right cheek	RMC	9538/1907.6	1:1	0.543	0.321	0.17	18.70	19.50	1.202	0.653	22.1
Body worn&Hotspot Test data(Separate 10mm) DSI6											
Front side	RMC	9400/1880	1:1	0.543	0.358	-0.01	23.63	25.00	1.371	0.744	22.5
Back side	RMC	9400/1880	1:1	0.537	0.333	-0.13	23.63	25.00	1.371	0.736	22.5
Left side	RMC	9400/1880	1:1	0.415	0.245	0.04	23.63	25.00	1.371	0.569	22.5
Top side	RMC	9400/1880	1:1	0.414	0.245	0.14	23.63	25.00	1.371	0.568	22.5
Front side	RMC	9262/1852.4	1:1	0.533	0.345	-0.05	23.57	25.00	1.390	0.741	22.5
Front side	RMC	9538/1907.6	1:1	0.522	0.331	0.16	23.56	25.00	1.393	0.727	22.5



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9.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record											
Ant 2 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Left cheek	RMC	1412/1732.4	1:1	0.353	0.236	-0.09	19.06	19.50	1.107	0.391	22.1
Left tilted	RMC	1412/1732.4	1:1	0.270	0.167	0.15	19.06	19.50	1.107	0.299	22.1
Right cheek	RMC	1412/1732.4	1:1	0.724	0.430	0.01	19.06	19.50	1.107	0.801	22.1
Right tilted	RMC	1412/1732.4	1:1	0.417	0.246	-0.09	19.06	19.50	1.107	0.461	22.1
Right cheek	RMC	1312/1712.4	1:1	0.680	0.412	-0.06	19.04	19.50	1.112	0.756	22.1
Right cheek	RMC	1513/1752.6	1:1	0.685	0.418	-0.10	18.96	19.50	1.132	0.776	22.1
Body worn&Hotspot Test data(Separate 10mm) DSI6											
Front side	RMC	1412/1732.4	1:1	0.577	0.360	0.18	23.64	24.50	1.219	0.703	22.5
Back side	RMC	1412/1732.4	1:1	0.694	0.408	-0.08	23.64	24.50	1.219	0.846	22.5
Left side	RMC	1412/1732.4	1:1	0.634	0.359	-0.17	23.64	24.50	1.219	0.773	22.5
Top side	RMC	1412/1732.4	1:1	0.491	0.271	0.18	23.64	24.50	1.219	0.599	22.5
Back side	RMC	1312/1712.4	1:1	0.483	0.286	-0.09	23.61	24.50	1.227	0.593	22.5
Back side	RMC	1513/1752.6	1:1	0.605	0.363	-0.11	23.63	24.50	1.222	0.739	22.5



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9.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record											
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI4											
Left cheek	RMC	4182/836.4	1:1	0.594	0.358	0.00	22.32	23.00	1.169	0.695	22.1
Left tilted	RMC	4182/836.4	1:1	0.501	0.295	0.14	22.32	23.00	1.169	0.586	22.1
Right cheek	RMC	4182/836.4	1:1	0.806	0.499	-0.09	22.32	23.00	1.169	0.943	22.1
Right tilted	RMC	4182/836.4	1:1	0.599	0.360	-0.09	22.32	23.00	1.169	0.701	22.1
Right cheek	RMC	4132/826.4	1:1	0.878	0.528	-0.01	22.32	23.00	1.169	1.027	22.1
Right cheek	RMC	4233/846.6	1:1	0.756	0.468	-0.07	22.21	23.00	1.199	0.907	22.1
Right cheek with Repeat	RMC	4132/826.4	1:1	0.872	0.524	0.08	22.32	23.00	1.169	1.020	22.1
Body worn&Hotspot Test data(Separate 10mm) DSI6											
Front side	RMC	4182/836.4	1:1	0.739	0.467	-0.08	24.68	25.00	1.076	0.796	22.5
Back side	RMC	4182/836.4	1:1	0.419	0.261	-0.05	24.68	25.00	1.076	0.451	22.5
Left side	RMC	4182/836.4	1:1	0.105	0.061	0.04	24.68	25.00	1.076	0.113	22.5
Right side	RMC	4182/836.4	1:1	0.201	0.133	0.17	24.68	25.00	1.076	0.216	22.5
Top side	RMC	4182/836.4	1:1	0.361	0.177	0.08	24.68	25.00	1.076	0.389	22.5
Front side	RMC	4132/826.4	1:1	0.712	0.433	-0.04	24.65	25.00	1.084	0.772	22.5
Front side	RMC	4233/846.6	1:1	0.689	0.442	0.05	24.67	25.00	1.079	0.743	22.5

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	4132/826.4	0.878	0.872	1.01	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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9.2.6 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_0	20850/2510	1:1	0.224	0.129	-0.03	16.06	16.50	1.107	0.248	22.1
Left tilted	20	QPSK 1_0	20850/2510	1:1	0.105	0.060	-0.08	16.06	16.50	1.107	0.116	22.1
Right cheek	20	QPSK 1_0	20850/2510	1:1	0.851	0.400	0.00	16.06	16.50	1.107	0.942	22.1
Right tilted	20	QPSK 1_0	20850/2510	1:1	0.364	0.179	0.16	16.06	16.50	1.107	0.403	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.873	0.405	0.08	15.91	16.50	1.146	1.000	22.1
Right cheek	20	QPSK 1_0	21350/2560	1:1	0.942	0.392	0.17	15.83	16.50	1.167	1.099	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.202	0.112	-0.01	16.21	16.50	1.069	0.216	22.1
Left tilted	20	QPSK 50_50	21350/2560	1:1	0.095	0.054	0.00	16.21	16.50	1.069	0.102	22.1
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.832	0.385	-0.06	16.21	16.50	1.069	0.889	22.1
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.266	0.132	-0.06	16.21	16.50	1.069	0.284	22.1
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.855	0.389	0.16	16.20	16.50	1.072	0.916	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.875	0.402	-0.13	15.90	16.50	1.148	1.005	22.1
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	20850/2510	1:1	0.859	0.375	-0.10	16.02	16.50	1.117	0.959	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1_99	20850/2510	1:1	0.298	0.155	-0.13	19.17	19.50	1.079	0.322	22.1
Back side	20	QPSK 1_99	20850/2510	1:1	0.350	0.170	0.09	19.17	19.50	1.079	0.378	22.1
Left side	20	QPSK 1_99	20850/2510	1:1	0.574	0.254	-0.18	19.17	19.50	1.079	0.619	22.1
Top side	20	QPSK 1_99	20850/2510	1:1	0.081	0.042	0.03	19.17	19.50	1.079	0.087	22.1
Left side	20	QPSK 1_50	21100/2535	1:1	0.648	0.285	-0.11	19.00	19.50	1.122	0.727	22.1
Left side	20	QPSK 1_0	21350/2560	1:1	0.804	0.373	-0.05	19.14	19.50	1.086	0.873	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50_0	20850/2510	1:1	0.253	0.129	0.12	19.22	19.50	1.067	0.270	22.1
Back side	20	QPSK 50_0	20850/2510	1:1	0.285	0.142	0.09	19.22	19.50	1.067	0.304	22.1
Left side	20	QPSK 50_0	20850/2510	1:1	0.688	0.305	0.11	19.22	19.50	1.067	0.734	22.1
Top side	20	QPSK 50_0	20850/2510	1:1	0.071	0.036	0.11	19.22	19.50	1.067	0.076	22.1
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI1												
Left side	20	QPSK 100_0	20850/2510	1:1	0.692	0.315	-0.02	19.24	19.50	1.062	0.735	22.1
Body worn&Hotspot Test data 1RB Sensor off DSI6												
Front side with 15mm	20	QPSK 1_99	20850/2510	1:1	0.464	0.232	-0.05	23.42	24.50	1.282	0.595	22.3
Back side with 15mm	20	QPSK 1_99	20850/2510	1:1	0.574	0.297	-0.14	23.42	24.50	1.282	0.736	22.3
Left side with 19mm	20	QPSK 1_99	20850/2510	1:1	0.648	0.348	0.08	23.42	24.50	1.282	0.831	22.3
Top side with 10mm	20	QPSK 1_99	20850/2510	1:1	0.261	0.136	0.15	23.42	24.50	1.282	0.335	22.3
Left side with 19mm	20	QPSK 1_50	21100/2535	1:1	0.776	0.413	-0.19	23.36	24.50	1.300	1.009	22.3
Left side with 19mm	20	QPSK 1_99	21350/2560	1:1	0.856	0.445	0.03	23.38	24.50	1.294	1.108	22.3
Left side with 19mm with Repeat	20	QPSK 1_99	21350/2560	1:1	0.851	0.442	0.02	23.38	24.50	1.294	1.101	22.3



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Body worn&Hotspot Test data 50%RB Sensor off DSI6												
Front side with 15mm	20	QPSK 50_0	20850/2510	1:1	0.423	0.225	-0.14	22.54	23.50	1.247	0.528	22.3
Back side with 15mm	20	QPSK 50_0	20850/2510	1:1	0.471	0.242	0.05	22.54	23.50	1.247	0.588	22.3
Left side with 19mm	20	QPSK 50_0	20850/2510	1:1	0.633	0.325	0.07	22.54	23.50	1.247	0.790	22.3
Top side with 10mm	20	QPSK 50_0	20850/2510	1:1	0.210	0.108	-0.16	22.54	23.50	1.247	0.262	22.3
Body worn&Hotspot Test data 100%RB Sensor off DSI6												
Left side with 19mm	20	QPSK 100_0	20850/2510	1:1	0.624	0.331	-0.02	22.50	23.50	1.259	0.786	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI1												
Left side	20	QPSK 1_99	20850/2510	1:1	7.070	2.250	-0.09	19.17	19.50	1.079	2.428	22.3
Left side	20	QPSK 1_50	21100/2535	1:1	7.660	2.440	0.16	19.00	19.50	1.122	2.738	22.3
Left side	20	QPSK 1_0	21350/2560	1:1	8.230	2.620	-0.05	19.14	19.50	1.086	2.846	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI1												
Left side	20	QPSK 50_0	20850/2510	1:1	6.860	2.170	0.03	19.22	19.50	1.067	2.315	22.3
Left side	20	QPSK 50_50	21100/2535	1:1	7.940	2.530	-0.15	19.05	19.50	1.109	2.806	22.3
Left side	20	QPSK 50_25	21350/2560	1:1	8.740	2.930	0.07	19.17	19.50	1.079	3.161	22.3
Left side with Repeat	20	QPSK 50_25	21350/2560	1:1	8.730	2.930	0.03	19.17	19.50	1.079	3.161	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 100%RB) DSI1												
Left side	20	QPSK 100_0	20850/2510	1:1	8.270	2.850	-0.11	19.24	19.50	1.062	3.026	22.3
Product specific 10g SAR Test data (Sensor off 1RB) DSI6												
Left side with 19mm	20	QPSK 1_99	20850/2510	1:1	0.648	0.348	0.08	23.42	24.50	1.282	0.446	22.3
Product specific 10g SAR Test data (Sensor off 50%RB) DSI6												
Left side with 19mm	20	QPSK 50_0	20850/2510	1:1	0.633	0.325	0.07	22.54	23.50	1.247	0.405	22.3
Ant 5 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) DSI4												
Left cheek	20	QPSK 1_99	21100/2535	1:1	0.528	0.315	-0.13	24.17	25.00	1.211	0.639	22.1
Left tilted	20	QPSK 1_99	21100/2535	1:1	0.179	0.094	0.16	24.17	25.00	1.211	0.217	22.1
Right cheek	20	QPSK 1_99	21100/2535	1:1	0.317	0.169	0.04	24.17	25.00	1.211	0.384	22.1
Right tilted	20	QPSK 1_99	21100/2535	1:1	0.298	0.154	0.19	24.17	25.00	1.211	0.361	22.1
Left cheek	20	QPSK 1_0	20850/2510	1:1	0.634	0.346	0.03	24.14	25.00	1.219	0.773	22.1
Left cheek	20	QPSK 1_99	21350/2560	1:1	0.377	0.188	0.03	24.12	25.00	1.225	0.462	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_25	21350/2560	1:1	0.425	0.212	-0.18	22.71	24.00	1.346	0.572	22.1
Left tilted	20	QPSK 50_25	21350/2560	1:1	0.175	0.092	-0.07	22.71	24.00	1.346	0.236	22.1
Right cheek	20	QPSK 50_25	21350/2560	1:1	0.312	0.165	-0.12	22.71	24.00	1.346	0.420	22.1
Right tilted	20	QPSK 50_25	21350/2560	1:1	0.295	0.156	0.06	22.71	24.00	1.346	0.397	22.1
Left cheek	20	QPSK 50_25	20850/2510	1:1	0.523	0.335	0.14	22.68	24.00	1.355	0.709	22.1
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.522	0.312	-0.05	22.65	24.00	1.365	0.712	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_99	21100/2535	1:1	0.626	0.325	0.15	24.17	25.00	1.211	0.758	22.4
Back side	20	QPSK 1_99	21100/2535	1:1	0.701	0.393	-0.08	24.17	25.00	1.211	0.849	22.4
Left side	20	QPSK 1_99	21100/2535	1:1	0.686	0.339	-0.14	24.17	25.00	1.211	0.830	22.4



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Bottom side	20	QPSK 1_99	21100/2535	1:1	0.218	0.117	0.05	24.17	25.00	1.211	0.264	22.4
Back side	20	QPSK 1_0	20850/2510	1:1	0.512	0.267	0.13	24.14	25.00	1.219	0.624	22.4
Back side	20	QPSK 1_99	21350/2560	1:1	0.556	0.296	-0.18	24.12	25.00	1.225	0.681	22.4
Left side	20	QPSK 1_0	20850/2510	1:1	0.521	0.265	-0.14	24.14	25.00	1.219	0.635	22.4
Left side	20	QPSK 1_99	21350/2560	1:1	0.487	0.244	-0.19	24.12	25.00	1.225	0.596	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_25	21350/2560	1:1	0.494	0.263	0.01	22.71	24.00	1.346	0.665	22.4
Back side	20	QPSK 50_25	21350/2560	1:1	0.595	0.312	0.09	22.71	24.00	1.346	0.801	22.4
Left side	20	QPSK 50_25	21350/2560	1:1	0.605	0.303	0.08	22.71	24.00	1.346	0.814	22.4
Bottom side	20	QPSK 50_25	21350/2560	1:1	0.170	0.091	0.18	22.71	24.00	1.346	0.229	22.4
Back side	20	QPSK 50_25	20850/2510	1:1	0.397	0.214	0.00	22.68	24.00	1.355	0.538	22.4
Back side	20	QPSK 50_25	21100/2535	1:1	0.545	0.282	-0.11	22.65	24.00	1.365	0.744	22.4
Left side	20	QPSK 50_25	20850/2510	1:1	0.395	0.198	0.10	22.68	24.00	1.355	0.535	22.4
Left side	20	QPSK 50_25	21100/2535	1:1	0.456	0.229	0.17	22.65	24.00	1.365	0.622	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Back side	20	QPSK 100_0	20850/2510	1:1	0.402	0.216	-0.09	22.68	24.00	1.355	0.545	22.4
Left side	20	QPSK 100_0	20850/2510	1:1	0.426	0.215	0.11	22.68	24.00	1.355	0.577	22.4

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Left side with 19mm	21350/2560	0.856	0.851	1.01	N/A	N/A

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

Test Position	Channel/ Frequency (MHz)	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (10g)		SAR (1g)	SAR (1g)
Left side	21350/2560	2.930	2.930	1.00	N/A	N/A

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



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9.2.7 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_25	23130/711	1:1	0.754	0.445	-0.03	21.92	23.00	1.282	0.967	22.1
Left tilted	10	QPSK 1_25	23130/711	1:1	0.603	0.347	-0.09	21.92	23.00	1.282	0.773	22.1
Right cheek	10	QPSK 1_25	23130/711	1:1	0.816	0.519	-0.02	21.92	23.00	1.282	1.046	22.1
Right tilted	10	QPSK 1_25	23130/711	1:1	0.556	0.334	0.04	21.92	23.00	1.282	0.713	22.1
Left cheek	10	QPSK 1_25	23060/704	1:1	0.756	0.457	-0.12	21.90	23.00	1.288	0.974	22.1
Left cheek	10	QPSK 1_25	23095/707.5	1:1	0.672	0.428	0.16	21.86	23.00	1.300	0.874	22.1
Right cheek	10	QPSK 1_25	23060/704	1:1	0.889	0.538	0.01	21.90	23.00	1.288	1.145	22.1
Right cheek	10	QPSK 1_25	23095/707.5	1:1	0.790	0.503	-0.15	21.86	23.00	1.300	1.027	22.1
Right cheek with Repeat	10	QPSK 1_25	23060/704	1:1	0.884	0.537	0.03	21.90	23.00	1.288	1.139	22.1
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_25	23060/704	1:1	0.737	0.433	0.19	21.97	23.00	1.268	0.934	22.1
Left tilted	10	QPSK 25_25	23060/704	1:1	0.605	0.348	0.13	21.97	23.00	1.268	0.767	22.1
Right cheek	10	QPSK 25_25	23060/704	1:1	0.742	0.471	0.00	21.97	23.00	1.268	0.941	22.1
Right tilted	10	QPSK 25_25	23060/704	1:1	0.505	0.306	-0.08	21.97	23.00	1.268	0.640	22.1
Left cheek	10	QPSK 25_13	23095/707.5	1:1	0.718	0.434	-0.17	21.94	23.00	1.276	0.916	22.1
Left cheek	10	QPSK 25_13	23130/711	1:1	0.638	0.407	-0.11	21.96	23.00	1.271	0.811	22.1
Right cheek	10	QPSK 25_13	23095/707.5	1:1	0.845	0.511	-0.14	21.94	23.00	1.276	1.079	22.1
Right cheek	10	QPSK 25_13	23130/711	1:1	0.751	0.478	-0.19	21.96	23.00	1.271	0.954	22.1
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 50_0	23060/704	1:1	0.728	0.426	0.19	21.99	23.00	1.262	0.919	22.1
Right cheek	10	QPSK 50_0	23060/704	1:1	0.842	0.501	-0.02	21.99	23.00	1.262	1.062	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	10	QPSK 1_25	23130/711	1:1	0.412	0.284	-0.17	24.46	25.00	1.132	0.467	22.3
Back side	10	QPSK 1_25	23130/711	1:1	0.443	0.297	0.13	24.46	25.00	1.132	0.502	22.3
Left side	10	QPSK 1_25	23130/711	1:1	0.144	0.097	0.17	24.46	25.00	1.132	0.163	22.3
Right side	10	QPSK 1_25	23130/711	1:1	0.287	0.195	-0.18	24.46	25.00	1.132	0.325	22.3
Top side	10	QPSK 1_25	23130/711	1:1	0.322	0.153	-0.15	24.46	25.00	1.132	0.365	22.3
Back side	10	QPSK 1_25	23060/704	1:1	0.406	0.277	-0.13	24.42	25.00	1.143	0.464	22.3
Back side	10	QPSK 1_49	23095/707.5	1:1	0.503	0.371	-0.07	24.37	25.00	1.156	0.582	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	10	QPSK 25_25	23060/704	1:1	0.347	0.233	0.02	23.49	24.00	1.125	0.390	22.3
Back side	10	QPSK 25_25	23060/704	1:1	0.333	0.227	-0.13	23.49	24.00	1.125	0.374	22.3
Left side	10	QPSK 25_25	23060/704	1:1	0.110	0.074	0.18	23.49	24.00	1.125	0.124	22.3
Right side	10	QPSK 25_25	23060/704	1:1	0.209	0.141	0.18	23.49	24.00	1.125	0.235	22.3
Top side	10	QPSK 25_25	23060/704	1:1	0.227	0.117	-0.16	23.49	24.00	1.125	0.255	22.3



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	23060/704	0.889	0.884	1.01	N/A	N/A

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



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9.2.8 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record												
Ant 1 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.634	0.381	0.16	22.56	23.50	1.242	0.787	22.1
Left tilted	10	QPSK 1_0	23230/782	1:1	0.509	0.300	0.04	22.56	23.50	1.242	0.632	22.1
Right cheek	10	QPSK 1_0	23230/782	1:1	0.960	0.566	-0.01	22.56	23.50	1.242	1.192	22.1
Right tilted	10	QPSK 1_0	23230/782	1:1	0.539	0.325	0.07	22.56	23.50	1.242	0.669	22.1
Right cheek with Repeat	10	QPSK 1_0	23230/782	1:1	0.944	0.559	-0.14	22.56	23.50	1.242	1.172	22.1
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.632	0.364	0.16	22.49	23.50	1.262	0.797	22.1
Left tilted	10	QPSK 25_0	23230/782	1:1	0.473	0.278	0.11	22.49	23.50	1.262	0.597	22.1
Right cheek	10	QPSK 25_0	23230/782	1:1	0.835	0.533	0.14	22.49	23.50	1.262	1.054	22.1
Right tilted	10	QPSK 25_0	23230/782	1:1	0.455	0.277	-0.09	22.49	23.50	1.262	0.574	22.1
Head Test Data (100%RB) DSI4												
Right cheek	10	QPSK 50_0	23230/782	1:1	0.802	0.502	-0.05	22.31	23.50	1.315	1.055	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	10	QPSK 1_0	23230/782	1:1	0.644	0.393	0.07	24.38	25.00	1.153	0.743	22.3
Back side	10	QPSK 1_0	23230/782	1:1	0.456	0.306	-0.12	24.38	25.00	1.153	0.526	22.3
Left side	10	QPSK 1_0	23230/782	1:1	0.085	0.049	0.08	24.38	25.00	1.153	0.098	22.3
Right side	10	QPSK 1_0	23230/782	1:1	0.200	0.134	-0.02	24.38	25.00	1.153	0.231	22.3
Top side	10	QPSK 1_0	23230/782	1:1	0.295	0.154	0.00	24.38	25.00	1.153	0.340	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	10	QPSK 25_0	23230/782	1:1	0.394	0.254	0.16	23.33	24.00	1.167	0.460	22.3
Back side	10	QPSK 25_0	23230/782	1:1	0.378	0.252	0.00	23.33	24.00	1.167	0.441	22.3
Left side	10	QPSK 25_0	23230/782	1:1	0.073	0.041	-0.16	23.33	24.00	1.167	0.085	22.3
Right side	10	QPSK 25_0	23230/782	1:1	0.183	0.124	-0.11	23.33	24.00	1.167	0.214	22.3
Top side	10	QPSK 25_0	23230/782	1:1	0.263	0.121	-0.11	23.33	24.00	1.167	0.307	22.3

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	23230/782	0.960	0.944	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 performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

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

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

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



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9.2.9 SAR Result of LTE Band 14

LTE Band 14 SAR Test Record												
Ant 1 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_0	23330/793	1:1	0.785	0.512	-0.15	22.55	23.50	1.245	0.977	22.1
Left tilted	10	QPSK 1_0	23330/793	1:1	0.658	0.394	-0.04	22.55	23.50	1.245	0.819	22.1
Right cheek	10	QPSK 1_0	23330/793	1:1	0.955	0.544	0.10	22.55	23.50	1.245	1.189	22.1
Right tilted	10	QPSK 1_0	23330/793	1:1	0.649	0.397	-0.03	22.55	23.50	1.245	0.808	22.1
Right cheek with Repeat	10	QPSK 1_0	23330/793	1:1	0.952	0.544	0.00	22.55	23.50	1.245	1.185	22.1
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_0	23330/793	1:1	0.653	0.389	0.06	22.22	23.50	1.343	0.877	22.1
Left tilted	10	QPSK 25_0	23330/793	1:1	0.530	0.307	-0.04	22.22	23.50	1.343	0.712	22.1
Right cheek	10	QPSK 25_0	23330/793	1:1	0.770	0.492	-0.03	22.22	23.50	1.343	1.034	22.1
Right tilted	10	QPSK 25_0	23330/793	1:1	0.545	0.330	0.19	22.22	23.50	1.343	0.732	22.1
Head Test Data (100%RB) DSI4												
Left cheek	10	QPSK 50_0	23330/793	1:1	0.653	0.388	0.19	22.19	23.50	1.352	0.883	22.1
Left tilted	10	QPSK 50_0	23330/793	1:1	0.564	0.321	-0.18	22.19	23.50	1.352	0.763	22.1
Right cheek	10	QPSK 50_0	23330/793	1:1	0.781	0.492	0.15	22.19	23.50	1.352	1.056	22.1
Right tilted	10	QPSK 50_0	23330/793	1:1	0.551	0.348	0.19	22.19	23.50	1.352	0.745	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	10	QPSK 1_0	23330/793	1:1	0.448	0.278	-0.09	24.33	25.00	1.167	0.523	22.3
Back side	10	QPSK 1_0	23330/793	1:1	0.585	0.418	0.00	24.33	25.00	1.167	0.683	22.3
Left side	10	QPSK 1_0	23330/793	1:1	0.081	0.045	-0.10	24.33	25.00	1.167	0.095	22.3
Right side	10	QPSK 1_0	23330/793	1:1	0.219	0.144	0.05	24.33	25.00	1.167	0.256	22.3
Top side	10	QPSK 1_0	23330/793	1:1	0.296	0.137	0.18	24.33	25.00	1.167	0.345	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	10	QPSK 25_0	23330/793	1:1	0.355	0.229	0.12	23.23	24.00	1.194	0.424	22.3
Back side	10	QPSK 25_0	23330/793	1:1	0.361	0.238	0.17	23.23	24.00	1.194	0.431	22.3
Left side	10	QPSK 25_0	23330/793	1:1	0.065	0.036	-0.13	23.23	24.00	1.194	0.078	22.3
Right side	10	QPSK 25_0	23330/793	1:1	0.184	0.124	0.18	23.23	24.00	1.194	0.220	22.3
Top side	10	QPSK 25_0	23330/793	1:1	0.229	0.114	0.16	23.23	24.00	1.194	0.273	22.3



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	23330/793	0.955	0.952	1.01	N/A	N/A

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

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

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

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

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



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9.2.10 SAR Result of LTE Band 25

LTE Band 25 SAR Test Record												
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_50	26365/1882.5	1:1	0.242	0.165	0.18	18.57	19.50	1.239	0.300	22.1
Left tilted	20	QPSK 1_50	26365/1882.5	1:1	0.229	0.141	0.16	18.57	19.50	1.239	0.284	22.1
Right cheek	20	QPSK 1_50	26365/1882.5	1:1	0.655	0.375	-0.01	18.57	19.50	1.239	0.811	22.1
Right tilted	20	QPSK 1_50	26365/1882.5	1:1	0.275	0.172	-0.15	18.57	19.50	1.239	0.341	22.1
Right cheek	20	QPSK 1_50	26140/1860	1:1	0.623	0.363	0.01	18.17	19.50	1.199	0.747	22.1
Right cheek	20	QPSK 1_99	26590/1905	1:1	0.644	0.363	0.01	18.22	19.50	1.343	0.865	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_25	26140/1860	1:1	0.260	0.175	-0.16	18.26	19.50	1.330	0.346	22.1
Left tilted	20	QPSK 50_25	26140/1860	1:1	0.232	0.144	0.04	18.26	19.50	1.330	0.309	22.1
Right cheek	20	QPSK 50_25	26140/1860	1:1	0.612	0.360	0.00	18.26	19.50	1.330	0.814	22.1
Right tilted	20	QPSK 50_25	26140/1860	1:1	0.298	0.184	0.07	18.26	19.50	1.330	0.396	22.1
Right cheek	20	QPSK 50_50	26365/1882.5	1:1	0.605	0.348	0.11	18.25	19.50	1.334	0.807	22.1
Right cheek	20	QPSK 50_25	26590/1905	1:1	0.624	0.362	0.03	18.26	19.50	1.330	0.830	22.1
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	26590/1905	1:1	0.635	0.368	0.19	18.29	19.50	1.321	0.839	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_99	26140/1860	1:1	0.385	0.242	-0.14	23.46	25.00	1.426	0.549	22.3
Back side	20	QPSK 1_99	26140/1860	1:1	0.392	0.244	0.19	23.46	25.00	1.426	0.559	22.3
Left side	20	QPSK 1_99	26140/1860	1:1	0.333	0.183	0.03	23.46	25.00	1.426	0.475	22.3
Top side	20	QPSK 1_99	26140/1860	1:1	0.312	0.179	0.03	23.46	25.00	1.426	0.445	22.3
Back side	20	QPSK 1_50	26365/1882.5	1:1	0.419	0.257	0.10	23.37	25.00	1.455	0.610	22.3
Back side	20	QPSK 1_50	26590/1905	1:1	0.423	0.255	0.16	23.41	25.00	1.442	0.610	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_25	26140/1860	1:1	0.316	0.199	-0.07	22.40	24.00	1.445	0.457	22.3
Back side	20	QPSK 50_25	26140/1860	1:1	0.338	0.210	0.08	22.40	24.00	1.445	0.489	22.3
Left side	20	QPSK 50_25	26140/1860	1:1	0.259	0.146	-0.03	22.40	24.00	1.445	0.374	22.3
Top side	20	QPSK 50_25	26140/1860	1:1	0.276	0.158	-0.19	22.40	24.00	1.445	0.399	22.3
Back side	20	QPSK 50_50	26365/1882.5	1:1	0.340	0.212	0.12	22.40	24.00	1.445	0.491	22.3
Back side	20	QPSK 50_50	26590/1905	1:1	0.333	0.206	-0.10	22.30	24.00	1.479	0.493	22.3
Ant 5 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) DSI4												
Left cheek	20	QPSK 1_50	26365/1882.5	1:1	0.358	0.213	0.12	22.80	24.00	1.318	0.472	22.1
Left tilted	20	QPSK 1_50	26365/1882.5	1:1	0.132	0.086	0.14	22.80	24.00	1.318	0.174	22.1
Right cheek	20	QPSK 1_50	26365/1882.5	1:1	0.251	0.154	-0.02	22.80	24.00	1.318	0.331	22.1



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Right tilted	20	QPSK 1_50	26365/1882.5	1:1	0.165	0.101	0.04	22.80	24.00	1.318	0.218	22.1
Left cheek	20	QPSK 1_50	26140/1860	1:1	0.345	0.205	0.05	22.80	24.00	1.318	0.455	22.1
Left cheek	20	QPSK 1_50	26590/1905	1:1	0.490	0.284	-0.01	22.72	24.00	1.343	0.658	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	26140/1860	1:1	0.253	0.150	0.17	21.59	23.00	1.384	0.350	22.1
Left tilted	20	QPSK 50_50	26140/1860	1:1	0.088	0.058	0.10	21.59	23.00	1.384	0.122	22.1
Right cheek	20	QPSK 50_50	26140/1860	1:1	0.171	0.106	-0.11	21.59	23.00	1.384	0.237	22.1
Right tilted	20	QPSK 50_50	26140/1860	1:1	0.104	0.064	-0.17	21.59	23.00	1.384	0.144	22.1
Left cheek	20	QPSK 50_50	26365/1882.5	1:1	0.342	0.201	-0.14	21.55	23.00	1.396	0.478	22.1
Left cheek	20	QPSK 50_50	26590/1905	1:1	0.379	0.220	-0.12	21.54	23.00	1.400	0.530	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_50	26365/1882.5	1:1	0.252	0.152	-0.13	22.80	24.00	1.318	0.332	22.4
Back side	20	QPSK 1_50	26365/1882.5	1:1	0.389	0.230	-0.10	22.80	24.00	1.318	0.513	22.4
Left side	20	QPSK 1_50	26365/1882.5	1:1	0.470	0.253	-0.13	22.80	24.00	1.318	0.620	22.4
Bottom side	20	QPSK 1_50	26365/1882.5	1:1	0.156	0.087	0.00	22.80	24.00	1.318	0.206	22.4
Back side	20	QPSK 1_50	26140/1860	1:1	0.376	0.201	0.08	22.80	24.00	1.199	0.451	22.4
Back side	20	QPSK 1_50	26590/1905	1:1	0.393	0.237	0.05	22.72	24.00	1.343	0.528	22.4
Left side	20	QPSK 1_50	26140/1860	1:1	0.421	0.224	0.10	22.80	24.00	1.199	0.505	22.4
Left side	20	QPSK 1_50	26590/1905	1:1	0.501	0.283	-0.08	22.72	24.00	1.343	0.673	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_50	26140/1860	1:1	0.212	0.127	0.13	21.59	23.00	1.384	0.293	22.4
Back side	20	QPSK 50_50	26140/1860	1:1	0.303	0.181	0.12	21.59	23.00	1.384	0.419	22.4
Left side	20	QPSK 50_50	26140/1860	1:1	0.337	0.184	-0.09	21.59	23.00	1.384	0.466	22.4
Bottom side	20	QPSK 50_50	26140/1860	1:1	0.122	0.067	-0.12	21.59	23.00	1.384	0.169	22.4
Left side	20	QPSK 50_50	26365/1882.5	1:1	0.360	0.194	0.00	21.55	23.00	1.396	0.503	22.4
Left side	20	QPSK 50_50	26590/1905	1:1	0.384	0.207	-0.16	21.54	23.00	1.400	0.537	22.4



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9.2.11 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	15	QPSK 1_38	26865/831.5	1:1	0.616	0.362	-0.17	23.07	24.00	1.239	0.763	22.1
Left tilted	15	QPSK 1_38	26865/831.5	1:1	0.634	0.375	-0.06	23.07	24.00	1.239	0.785	22.1
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.903	0.569	0.12	23.07	24.00	1.239	1.119	22.1
Right tilted	15	QPSK 1_38	26865/831.5	1:1	0.673	0.409	0.16	23.07	24.00	1.239	0.834	22.1
Left cheek	15	QPSK 1_38	26765/821.5	1:1	0.650	0.388	-0.12	23.04	24.00	1.247	0.811	22.1
Left cheek	15	QPSK 1_0	26965/841.5	1:1	0.600	0.378	0.09	23.02	24.00	1.253	0.752	22.1
Right cheek	15	QPSK 1_38	26765/821.5	1:1	0.956	0.570	-0.03	23.04	24.00	1.247	1.192	22.1
Right cheek	15	QPSK 1_0	26965/841.5	1:1	0.882	0.556	-0.16	23.02	24.00	1.253	1.105	22.1
Right cheek with Repeat	15	QPSK 1_38	26765/821.5	1:1	0.935	0.559	0.09	23.04	24.00	1.247	1.166	22.1
Head Test Data (50%RB) DSI4												
Left cheek	15	QPSK 36_39	26865/831.5	1:1	0.601	0.344	0.13	23.12	24.00	1.225	0.736	22.1
Left tilted	15	QPSK 36_39	26865/831.5	1:1	0.543	0.319	-0.11	23.12	24.00	1.225	0.665	22.1
Right cheek	15	QPSK 36_39	26865/831.5	1:1	0.763	0.482	-0.13	23.12	24.00	1.225	0.934	22.1
Right tilted	15	QPSK 36_39	26865/831.5	1:1	0.563	0.336	0.18	23.12	24.00	1.225	0.689	22.1
Left cheek	15	QPSK 36_18	26765/821.5	1:1	0.579	0.355	-0.03	23.08	24.00	1.236	0.715	22.1
Left cheek	15	QPSK 36_39	26965/841.5	1:1	0.541	0.334	0.04	22.95	24.00	1.274	0.689	22.1
Right cheek	15	QPSK 36_18	26765/821.5	1:1	0.756	0.463	-0.03	23.08	24.00	1.236	0.934	22.1
Right cheek	15	QPSK 36_39	26965/841.5	1:1	0.707	0.436	0.06	22.95	24.00	1.274	0.900	22.1
Head Test Data (100%RB) DSI4												
Left cheek	15	QPSK 75_0	26965/841.5	1:1	0.577	0.330	0.09	23.07	24.00	1.239	0.715	22.1
Right cheek	15	QPSK 75_0	26965/841.5	1:1	0.935	0.542	0.03	23.07	24.00	1.239	1.158	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.598	0.369	-0.01	24.20	25.00	1.202	0.719	22.3
Back side	15	QPSK 1_0	26865/831.5	1:1	0.516	0.317	-0.08	24.20	25.00	1.202	0.620	22.3
Left side	15	QPSK 1_0	26865/831.5	1:1	0.099	0.057	-0.04	24.20	25.00	1.202	0.119	22.3
Right side	15	QPSK 1_0	26865/831.5	1:1	0.225	0.150	0.02	24.20	25.00	1.202	0.271	22.3
Top side	15	QPSK 1_0	26865/831.5	1:1	0.355	0.182	0.11	24.20	25.00	1.202	0.427	22.3
Front side	15	QPSK 1_38	26765/821.5	1:1	0.577	0.364	-0.07	24.11	25.00	1.227	0.708	22.3
Front side	15	QPSK 1_38	26965/841.5	1:1	0.744	0.467	0.04	24.13	25.00	1.222	0.909	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.452	0.282	0.02	23.27	24.00	1.183	0.535	22.3
Back side	15	QPSK 36_0	26865/831.5	1:1	0.420	0.260	-0.19	23.27	24.00	1.183	0.497	22.3
Left side	15	QPSK 36_0	26865/831.5	1:1	0.088	0.051	-0.17	23.27	24.00	1.183	0.104	22.3
Right side	15	QPSK 36_0	26865/831.5	1:1	0.172	0.116	0.05	23.27	24.00	1.183	0.203	22.3
Top side	15	QPSK 36_0	26865/831.5	1:1	0.298	0.151	0.00	23.27	24.00	1.183	0.353	22.3
Front side	15	QPSK 36_18	26765/821.5	1:1	0.473	0.296	-0.02	23.27	24.00	1.183	0.560	22.3
Front side	15	QPSK 36_18	26965/841.5	1:1	0.532	0.335	-0.17	23.24	24.00	1.191	0.634	22.3



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Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	15	QPSK 75 0	26765/821.5	1:1	0.544	0.348	-0.07	23.27	24.00	1.183	0.644	22.3

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	26765/821.5	0.956	0.935	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 performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

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

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

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



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9.2.12 SAR Result of LTE Band 30

LTE Band 30 SAR Test Record												
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_25	27710/2310	1:1	0.233	0.138	0.10	18.42	19.00	1.143	0.266	22.1
Left tilted	10	QPSK 1_25	27710/2310	1:1	0.224	0.117	-0.17	18.42	19.00	1.143	0.256	22.1
Right cheek	10	QPSK 1_25	27710/2310	1:1	0.900	0.454	-0.10	18.42	19.00	1.143	1.029	22.1
Right tilted	10	QPSK 1_25	27710/2310	1:1	0.515	0.253	0.12	18.42	19.00	1.143	0.589	22.1
Right cheek with Repeat	10	QPSK 1_25	27710/2310	1:1	0.895	0.448	-0.19	18.42	19.00	1.143	1.023	22.1
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_13	27710/2310	1:1	0.177	0.108	0.07	18.35	19.00	1.161	0.206	22.1
Left tilted	10	QPSK 25_13	27710/2310	1:1	0.188	0.097	0.11	18.35	19.00	1.161	0.218	22.1
Right cheek	10	QPSK 25_13	27710/2310	1:1	0.825	0.432	-0.10	18.35	19.00	1.161	0.958	22.1
Right tilted	10	QPSK 25_13	27710/2310	1:1	0.389	0.196	0.18	18.35	19.00	1.161	0.452	22.1
Head Test Data (100%RB) DSI4												
Right cheek	10	QPSK 50_0	27710/2310	1:1	0.835	0.439	0.01	18.31	19.00	1.172	0.979	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	10	QPSK 1_25	27710/2310	1:1	0.686	0.353	-0.10	23.60	24.50	1.230	0.844	22.3
Back side	10	QPSK 1_25	27710/2310	1:1	0.751	0.379	-0.04	23.60	24.50	1.230	0.924	22.3
Left side	10	QPSK 1_25	27710/2310	1:1	0.489	0.248	0.19	23.60	24.50	1.230	0.602	22.3
Top side	10	QPSK 1_25	27710/2310	1:1	0.459	0.231	0.01	23.60	24.50	1.230	0.565	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	10	QPSK 25_13	27710/2310	1:1	0.564	0.296	-0.04	22.53	23.50	1.250	0.705	22.3
Back side	10	QPSK 25_13	27710/2310	1:1	0.587	0.294	-0.10	22.53	23.50	1.250	0.734	22.3
Left side	10	QPSK 25_13	27710/2310	1:1	0.367	0.186	0.09	22.53	23.50	1.250	0.459	22.3
Top side	10	QPSK 25_13	27710/2310	1:1	0.380	0.190	-0.09	22.53	23.50	1.250	0.475	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Front side	10	QPSK 50_0	27710/2310	1:1	0.544	0.282	0.08	22.59	23.50	1.233	0.671	22.3
Back side	10	QPSK 50_0	27710/2310	1:1	0.566	0.289	-0.06	22.59	23.50	1.233	0.698	22.3

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)				SAR (1g)	SAR (1g)
Right cheek	27710/2310	0.900	0.895	1.01	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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9.2.13 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.173	0.090	-0.19	18.25	18.50	1.059	0.183	22.1
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.124	0.066	0.14	18.25	18.50	1.059	0.131	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.984	0.425	-0.10	18.25	18.50	1.059	1.042	22.1
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.429	0.200	0.02	18.25	18.50	1.059	0.454	22.1
Right cheek	20	QPSK 1_50	39750/2506	1:1.58	0.949	0.429	-0.03	18.13	18.50	1.089	1.033	22.1
Right cheek	20	QPSK 1_50	40185/2549.5	1:1.58	0.955	0.422	0.17	18.24	18.50	1.062	1.014	22.1
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.903	0.396	-0.14	17.96	18.50	1.132	1.023	22.1
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	0.811	0.356	-0.05	18.03	18.50	1.114	0.904	22.1
Right cheek	20	QPSK PCC 1_99	40620/2593	1:1.58	0.912	0.401	0.10	17.94	18.50	1.138	1.038	22.1
		QPSK SCC 1_0	40818/2612.8									
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_25	40185/2549.5	1:1.58	0.198	0.111	0.05	18.29	18.50	1.050	0.208	22.1
Left tilted	20	QPSK 50_25	40185/2549.5	1:1.58	0.111	0.060	-0.17	18.29	18.50	1.050	0.116	22.1
Right cheek	20	QPSK 50_25	40185/2549.5	1:1.58	0.972	0.431	-0.15	18.29	18.50	1.050	1.020	22.1
Right tilted	20	QPSK 50_25	40185/2549.5	1:1.58	0.373	0.177	-0.19	18.29	18.50	1.050	0.391	22.1
Right cheek	20	QPSK 50_25	39750/2506	1:1.58	0.964	0.436	-0.18	18.21	18.50	1.069	1.031	22.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.968	0.397	0.02	17.99	18.50	1.125	1.089	22.1
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.891	0.389	-0.06	18.02	18.50	1.117	0.995	22.1
Right cheek	20	QPSK 50_25	41490/2680	1:1.58	0.804	0.350	-0.01	18.05	18.50	1.109	0.892	22.1
Right cheek with Repeat	20	QPSK 50_0	40620/2593	1:1.58	0.962	0.432	-0.08	17.99	18.50	1.125	1.082	22.1
Right cheek with HPUE	20	QPSK 50_25	40620/2593	1:2.31	0.901	0.391	0.03	19.72	20.50	1.197	1.078	22.1
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	40185/2549.5	1:1.58	0.980	0.436	-0.10	18.23	18.50	1.064	1.043	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1_50	39750/2506	1:1.58	0.324	0.164	0.03	20.68	21.00	1.076	0.349	22.3
Back side	20	QPSK 1_50	39750/2506	1:1.58	0.398	0.194	-0.11	20.68	21.00	1.076	0.428	22.3
Left side	20	QPSK 1_50	39750/2506	1:1.58	0.608	0.285	0.17	20.68	21.00	1.076	0.654	22.3
Top side	20	QPSK 1_50	39750/2506	1:1.58	0.093	0.047	-0.17	20.68	21.00	1.076	0.100	22.3
Left side	20	QPSK 1_0	40185/2549.5	1:1.58	0.620	0.280	-0.15	20.67	21.00	1.079	0.669	22.3
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.762	0.355	0.15	20.45	21.00	1.135	0.865	22.3
Left side	20	QPSK 1_0	41055/2636.5	1:1.58	0.747	0.330	0.04	20.68	21.00	1.076	0.804	22.3
Left side	20	QPSK 1_0	41490/2680	1:1.58	0.787	0.351	-0.02	20.68	21.00	1.076	0.847	22.3
Left side	20	QPSK PCC 1_99	40620/2593	1:1.58	0.721	0.321	0.10	20.48	21.00	1.127	0.813	22.3
		QPSK SCC 1_0	40818/2612.8									
Left side with HPUE	20	QPSK 1_0	40620/2593	1:2.31	0.731	0.342	0.17	22.37	23.00	1.156	0.845	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50_50	40185/2549.5	1:1.58	0.318	0.155	0.07	20.76	21.00	1.057	0.336	22.3



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Back side	20	QPSK 50_50	40185/2549.5	1:1.58	0.415	0.198	-0.01	20.76	21.00	1.057	0.439	22.3
Left side	20	QPSK 50_50	40185/2549.5	1:1.58	0.733	0.332	-0.13	20.76	21.00	1.057	0.775	22.3
Top side	20	QPSK 50_50	40185/2549.5	1:1.58	0.063	0.032	-0.01	20.76	21.00	1.057	0.067	22.3
Left side	20	QPSK 50_50	39750/2506	1:1.58	0.638	0.298	-0.19	20.74	21.00	1.062	0.677	22.3
Left side	20	QPSK 50_50	40620/2593	1:1.58	0.771	0.346	0.05	20.53	21.00	1.114	0.859	22.3
Left side	20	QPSK 50_25	41055/2636.5	1:1.58	0.776	0.343	-0.10	20.73	21.00	1.064	0.826	22.3
Left side	20	QPSK 50_50	41490/2680	1:1.58	0.797	0.354	0.05	20.75	21.00	1.059	0.844	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI1												
Left side	20	QPSK 50_50	41055/2636.5	1:1.58	0.733	0.335	-0.14	20.76	21.00	1.057	0.775	22.3
Body worn&Hotspot Test data 1RB Sensor off DSI6												
Front side with 15mm	20	QPSK 1_50	39750/2506	1:1.58	0.455	0.241	0.01	24.51	25.00	1.119	0.509	22.3
Back side with 15mm	20	QPSK 1_50	39750/2506	1:1.58	0.488	0.256	-0.13	24.51	25.00	1.119	0.546	22.3
Left side with 19mm	20	QPSK 1_50	39750/2506	1:1.58	0.760	0.400	0.07	24.51	25.00	1.119	0.851	22.3
Top side with 10mm	20	QPSK 1_50	39750/2506	1:1.58	0.187	0.096	-0.06	24.51	25.00	1.119	0.209	22.3
Left side with 19mm	20	QPSK 1_50	40185/2549.5	1:1.58	0.608	0.274	0.11	24.28	25.00	1.180	0.718	22.3
Left side with 19mm	20	QPSK 1_0	40620/2593	1:1.58	0.747	0.348	-0.14	24.53	25.00	1.114	0.832	22.3
Left side with 19mm	20	QPSK 1_0	41055/2636.5	1:1.58	0.732	0.323	0.14	24.44	25.00	1.138	0.833	22.3
Left side with 19mm	20	QPSK 1_0	41490/2680	1:1.58	0.721	0.321	-0.19	24.34	25.00	1.164	0.839	22.3
Body worn&Hotspot Test data 50%RB Sensor off DSI6												
Front side with 15mm	20	QPSK 50_25	40620/2593	1:1.58	0.343	0.175	0.18	23.68	24.00	1.076	0.369	22.3
Back side with 15mm	20	QPSK 50_25	40620/2593	1:1.58	0.431	0.210	0.06	23.68	24.00	1.076	0.464	22.3
Left side with 19mm	20	QPSK 50_25	40620/2593	1:1.58	0.685	0.355	0.00	23.68	24.00	1.076	0.737	22.3
Top side with 10mm	20	QPSK 50_25	40620/2593	1:1.58	0.131	0.073	0.19	23.68	24.00	1.076	0.141	22.3
Left side with 19mm	20	QPSK 50_25	39750/2506	1:1.58	0.062	0.031	0.18	23.67	24.00	1.079	0.067	22.3
Left side with 19mm	20	QPSK 50_25	40185/2549.5	1:1.58	0.625	0.292	0.09	23.56	24.00	1.107	0.692	22.3
Left side with 19mm	20	QPSK 50_25	41055/2636.5	1:1.58	0.756	0.339	0.15	23.51	24.00	1.119	0.846	22.3
Left side with 19mm	20	QPSK 50_0	41490/2680	1:1.58	0.760	0.336	0.17	23.47	24.00	1.130	0.859	22.3
Body worn&Hotspot Test data 100%RB Sensor off DSI6												
Front side with 15mm	20	QPSK 100_0	39750/2506	1:1.58	0.748	0.328	0.07	23.67	24.00	1.079	0.807	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI1												
Left side	20	QPSK 1_50	39750/2506	1:1.58	5.650	1.810	0.15	20.68	21.00	1.076	1.948	22.3
Left side	20	QPSK 1_0	40185/2549.5	1:1.58	6.160	1.950	-0.05	20.67	21.00	1.079	2.104	22.3
Left side	20	QPSK 1_0	40620/2593	1:1.58	6.720	2.270	0.02	20.45	21.00	1.135	2.576	22.3
Left side	20	QPSK 1_0	41055/2636.5	1:1.58	6.320	2.050	0.15	20.68	21.00	1.076	2.207	22.3
Left side	20	QPSK 1_0	41490/2680	1:1.58	6.270	2.270	-0.12	20.68	21.00	1.076	2.444	22.3
Left side	20	QPSK PCC 1_99	40620/2593	1:1.58	6.390	2.060	-0.01	20.48	21.00	1.127	2.444	22.3
		QPSK SCC 1_0	40818/2612.8									
Left side with Repeat	20	QPSK 1_0	40620/2593	1:1.58	6.710	2.260	-0.05	20.45	21.00	1.135	2.565	22.3
Left side with HPUE	20	QPSK 1_0	40620/2593	1:2.31	5.980	2.050	0.04	22.37	23.00	1.156	2.370	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI1												
Left side	20	QPSK 50_50	40185/2549.5	1:1.58	5.500	1.730	0.11	20.76	21.00	1.057	1.828	22.3
Left side	20	QPSK 50_50	39750/2506	1:1.58	6.350	2.080	-0.13	20.74	21.00	1.062	2.208	22.3
Left side	20	QPSK 50_50	40620/2593	1:1.58	6.500	2.250	-0.18	20.53	21.00	1.114	2.507	22.3



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Left side	20	QPSK 50_25	41055/2636.5	1:1.58	6.208	2.280	0.00	20.73	21.00	1.064	2.426	22.3
Left side	20	QPSK 50_50	41490/2680	1:1.58	6.376	2.270	-0.15	20.75	21.00	1.059	2.405	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 100%RB) DSI1												
Left side	20	QPSK 100_0	41055/2636.5	1:1.58	6.750	2.180	0.09	20.76	21.00	1.057	2.304	22.3
Product specific 10g SAR Test data (Sensor off 1RB) DSI6												
Left side with 19mm	20	QPSK 1_50	39750/2506	1:1.58	0.760	0.400	0.07	24.51	25.00	1.119	0.448	22.3
Product specific 10g SAR Test data (Sensor off 50%RB) DSI6												
Left side with 19mm	20	QPSK 50_25	40620/2593	1:1.58	0.685	0.355	0.00	23.68	24.00	1.247	0.443	22.3
Ant 5 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) DSI4												
Left cheek	20	QPSK 1_0	41490/2680	1:2.31	0.345	0.175	0.12	23.83	25.00	1.309	0.452	22.1
Left tilted	20	QPSK 1_0	41490/2680	1:2.31	0.162	0.084	-0.19	23.83	25.00	1.309	0.212	22.1
Right cheek	20	QPSK 1_0	41490/2680	1:2.31	0.307	0.162	-0.07	23.83	25.00	1.309	0.402	22.1
Right tilted	20	QPSK 1_0	41490/2680	1:2.31	0.262	0.131	0.15	23.83	25.00	1.309	0.343	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_25	40185/2549.5	1:2.31	0.382	0.193	-0.04	22.55	24.00	1.396	0.533	22.1
Left tilted	20	QPSK 50_25	40185/2549.5	1:2.31	0.164	0.086	-0.02	22.55	24.00	1.396	0.229	22.1
Right cheek	20	QPSK 50_25	40185/2549.5	1:2.31	0.308	0.165	0.02	22.55	24.00	1.396	0.430	22.1
Right tilted	20	QPSK 50_25	40185/2549.5	1:2.31	0.263	0.135	-0.19	22.55	24.00	1.396	0.367	22.1
Left cheek	20	QPSK 50_50	39750/2506	1:2.31	0.359	0.181	-0.11	22.46	24.00	1.426	0.512	22.1
Left cheek	20	QPSK 50_0	40620/2593	1:2.31	0.300	0.151	-0.03	22.42	24.00	1.439	0.432	22.1
Left cheek	20	QPSK 50_0	41055/2636.5	1:2.31	0.168	0.084	-0.14	22.50	24.00	1.413	0.237	22.1
Left cheek	20	QPSK 50_50	41490/2680	1:2.31	0.173	0.088	-0.17	22.50	24.00	1.413	0.244	22.1
Body worn&Hotspot Test data 1RB Sensor off DSI6												
Front side	20	QPSK 1_0	41490/2680	1:2.31	0.423	0.219	-0.15	23.83	25.00	1.309	0.554	22.4
Back side	20	QPSK 1_0	41490/2680	1:2.31	0.287	0.147	0.05	23.83	25.00	1.309	0.376	22.4
Left side	20	QPSK 1_0	41490/2680	1:2.31	0.468	0.268	-0.18	23.83	25.00	1.309	0.613	22.4
Bottom side	20	QPSK 1_0	41490/2680	1:2.31	0.103	0.055	-0.12	23.83	25.00	1.309	0.135	22.4
Left side	20	QPSK 1_0	39750/2506	1:2.31	0.423	0.195	0.06	23.75	25.00	1.334	0.564	22.4
Left side	20	QPSK 1_0	40185/2549.5	1:2.31	0.412	0.198	-0.18	23.76	25.00	1.330	0.548	22.4
Left side	20	QPSK 1_0	40620/2593	1:2.31	0.408	0.182	-0.06	23.70	25.00	1.349	0.550	22.4
Left side	20	QPSK 1_50	41055/2636.5	1:2.31	0.411	0.185	-0.09	23.75	25.00	1.334	0.548	22.4
Body worn&Hotspot Test data 50%RB Sensor off DSI6												
Front side	20	QPSK 50_25	40185/2549.5	1:2.31	0.396	0.211	-0.07	22.55	24.00	1.396	0.553	22.4
Back side	20	QPSK 50_25	40185/2549.5	1:2.31	0.457	0.257	-0.12	22.55	24.00	1.396	0.638	22.4
Left side	20	QPSK 50_25	40185/2549.5	1:2.31	0.475	0.225	0.02	22.55	24.00	1.396	0.663	22.4
Bottom side	20	QPSK 50_25	40185/2549.5	1:2.31	0.132	0.072	0.19	22.55	24.00	1.396	0.184	22.4
Left side	20	QPSK 50_50	39750/2506	1:2.31	0.425	0.210	0.03	22.46	24.00	1.426	0.606	22.4
Left side	20	QPSK 50_0	40620/2593	1:2.31	0.423	0.209	0.04	22.42	24.00	1.439	0.609	22.4
Left side	20	QPSK 50_0	41055/2636.5	1:2.31	0.278	0.135	-0.06	22.50	24.00	1.413	0.393	22.4
Left side	20	QPSK 50_50	41490/2680	1:2.31	0.378	0.178	-0.15	22.50	24.00	1.413	0.534	22.4



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	40620/2593	0.968	0.962	1.01	N/A	N/A

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

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

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

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

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

Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (1g)	SAR (1g)
Left side	40620/2593	2.270	2.260	1.01	N/A	N/A

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

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

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

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

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



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9.2.14 SAR Result of LTE Band 42

LTE Band 42 SAR Test Record												
Ant 3 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) DSI4												
Left cheek	20	QPSK 1_99	42590/3500	1:1.58	0.435	0.219	-0.12	23.07	23.50	1.104	0.480	22.1
Left tilted	20	QPSK 1_99	42590/3500	1:1.58	0.150	0.073	0.19	23.07	23.50	1.104	0.166	22.1
Right cheek	20	QPSK 1_99	42590/3500	1:1.58	0.934	0.408	-0.02	23.07	23.50	1.104	1.031	22.1
Right tilted	20	QPSK 1_99	42590/3500	1:1.58	0.273	0.126	-0.09	23.07	23.50	1.104	0.301	22.1
Left cheek	20	QPSK 1_50	41690/3410	1:1.58	0.412	0.204	0.10	22.98	23.50	1.127	0.464	22.1
Left cheek	20	QPSK 1_0	43490/3590	1:1.58	0.432	0.218	-0.14	22.92	23.50	1.143	0.494	22.1
Right cheek	20	QPSK 1_50	41690/3410	1:1.58	0.902	0.365	0.02	22.98	23.50	1.127	1.017	22.1
Right cheek	20	QPSK 1_0	43490/3590	1:1.58	0.889	0.358	0.19	22.92	23.50	1.143	1.016	22.1
Right cheek with Repeat	20	QPSK 1_99	42590/3500	1:1.58	0.918	0.401	-0.07	23.07	23.50	1.104	1.014	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	41690/3410	1:1.58	0.488	0.248	-0.08	22.34	23.50	1.306	0.637	22.1
Left tilted	20	QPSK 50_50	41690/3410	1:1.58	0.177	0.082	-0.15	22.34	23.50	1.306	0.231	22.1
Right cheek	20	QPSK 50_50	41690/3410	1:1.58	0.765	0.321	0.12	22.34	23.50	1.306	0.999	22.1
Right tilted	20	QPSK 50_50	41690/3410	1:1.58	0.334	0.150	-0.04	22.34	23.50	1.306	0.436	22.1
Left cheek	20	QPSK 50_25	42590/3500	1:1.58	0.475	0.238	-0.14	22.23	23.50	1.340	0.636	22.1
Left cheek	20	QPSK 50_25	43490/3590	1:1.58	0.435	0.219	0.18	21.88	23.50	1.452	0.632	22.1
Right cheek	20	QPSK 50_25	42590/3500	1:1.58	0.741	0.266	-0.11	22.23	23.50	1.340	0.993	22.1
Right cheek	20	QPSK 50_25	43490/3590	1:1.58	0.702	0.286	-0.13	21.88	23.50	1.452	1.019	22.1
Head Test Data (50%RB) DSI4												
Right cheek	20	QPSK 100_0	41690/3410	1:1.58	0.689	0.255	-0.02	22.27	23.50	1.327	0.915	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_50	41690/3410	1:1.58	0.251	0.123	0.14	24.31	25.00	1.172	0.294	22.3
Back side	20	QPSK 1_50	41690/3410	1:1.58	0.682	0.288	0.00	24.31	25.00	1.172	0.799	22.3
Left side	20	QPSK 1_50	41690/3410	1:1.58	0.328	0.152	0.15	24.31	25.00	1.172	0.384	22.3
Back side	20	QPSK 1_99	42590/3500	1:1.58	0.678	0.325	-0.03	24.13	25.00	1.222	0.828	22.3
Back side	20	QPSK 1_99	43490/3590	1:1.58	0.713	0.319	-0.07	24.18	25.00	1.208	0.861	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_25	42590/3500	1:1.58	0.279	0.134	0.03	23.38	24.00	1.153	0.322	22.3
Back side	20	QPSK 50_25	42590/3500	1:1.58	0.686	0.375	-0.11	23.38	24.00	1.153	0.791	22.3
Left side	20	QPSK 50_25	42590/3500	1:1.58	0.381	0.170	0.15	23.38	24.00	1.153	0.439	22.3
Left side	20	QPSK 50_25	41690/3410	1:1.58	0.375	0.165	0.01	23.23	24.00	1.194	0.448	22.3
Left side	20	QPSK 50_25	43490/3590	1:1.58	0.365	0.157	0.13	23.38	24.00	1.153	0.421	22.3
Back side	20	QPSK 50_25	41690/3410	1:1.58	0.675	0.328	0.15	23.23	24.00	1.194	0.806	22.3
Back side	20	QPSK 50_25	43490/3590	1:1.58	0.685	0.338	-0.13	23.38	24.00	1.153	0.790	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Back side	20	QPSK 100_0	41690/3410	1:1.58	0.655	0.318	-0.03	23.42	24.00	1.143	0.749	22.3



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	42590/3500	0.934	0.918	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 performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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9.2.15 SAR Result of LTE Band 43

LTE Band 43 SAR Test Record												
Ant 3 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) DSI4												
Left cheek	20	QPSK 1_99	45490/3790	1:1.58	0.226	0.103	-0.16	21.91	23.00	1.285	0.290	22.1
Left tilted	20	QPSK 1_99	45490/3790	1:1.58	0.068	0.034	-0.10	21.91	23.00	1.285	0.087	22.1
Right cheek	20	QPSK 1_99	45490/3790	1:1.58	0.624	0.285	0.10	21.91	23.00	1.285	0.802	22.1
Right tilted	20	QPSK 1_99	45490/3790	1:1.58	0.139	0.064	-0.15	21.91	23.00	1.285	0.179	22.1
Right cheek	20	QPSK 1_99	43690/3610	1:1.58	0.618	0.277	-0.01	21.83	23.00	1.309	0.809	22.1
Right cheek	20	QPSK 1_99	44140/3655	1:1.58	0.549	0.245	0.03	21.90	23.00	1.288	0.707	22.1
Right cheek	20	QPSK 1_99	44590/3700	1:1.58	0.472	0.208	0.15	21.89	23.00	1.291	0.609	22.1
Right cheek	20	QPSK 1_99	45040/3745	1:1.58	0.413	0.183	-0.18	21.87	23.00	1.297	0.536	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	44590/3700	1:1.58	0.269	0.125	-0.15	22.00	23.00	1.259	0.339	22.1
Left tilted	20	QPSK 50_50	44590/3700	1:1.58	0.079	0.040	0.02	22.00	23.00	1.259	0.099	22.1
Right cheek	20	QPSK 50_50	44590/3700	1:1.58	0.638	0.265	-0.08	22.00	23.00	1.259	0.803	22.1
Right tilted	20	QPSK 50_50	44590/3700	1:1.58	0.163	0.076	-0.13	22.00	23.00	1.259	0.205	22.1
Right cheek	20	QPSK 50_25	43690/3610	1:1.58	0.644	0.274	-0.02	21.95	23.00	1.274	0.820	22.1
Right cheek	20	QPSK 50_25	44140/3655	1:1.58	0.588	0.262	0.09	21.93	23.00	1.279	0.752	22.1
Right cheek	20	QPSK 50_50	45040/3745	1:1.58	0.427	0.188	-0.12	21.98	23.00	1.265	0.540	22.1
Right cheek	20	QPSK 50_50	45490/3790	1:1.58	0.431	0.188	0.15	21.99	23.00	1.262	0.544	22.1
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	45040/3745	1:1.58	0.525	0.232	-0.06	21.99	23.00	1.262	0.662	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_99	44590/3700	1:1.58	0.355	0.165	0.16	24.00	25.00	1.259	0.447	22.3
Back side	20	QPSK 1_99	44590/3700	1:1.58	0.678	0.301	0.06	24.00	25.00	1.259	0.854	22.3
Left side	20	QPSK 1_99	44590/3700	1:1.58	0.458	0.208	-0.13	24.00	25.00	1.259	0.577	22.3
Front side	20	QPSK 1_99	43690/3610	1:1.58	0.352	0.162	-0.09	23.74	25.00	1.337	0.470	22.3
Front side	20	QPSK 1_99	44140/3655	1:1.58	0.344	0.152	-0.06	23.96	25.00	1.271	0.437	22.3
Front side	20	QPSK 1_99	45040/3745	1:1.58	0.362	0.175	-0.16	23.99	25.00	1.262	0.457	22.3
Front side	20	QPSK 1_99	45490/3790	1:1.58	0.361	0.169	0.06	23.77	25.00	1.327	0.479	22.3
Back side	20	QPSK 1_99	43690/3610	1:1.58	0.721	0.323	0.03	23.74	25.00	1.337	0.964	22.3
Back side	20	QPSK 1_99	44140/3655	1:1.58	0.650	0.285	0.17	23.96	25.00	1.271	0.826	22.3
Back side	20	QPSK 1_99	45040/3745	1:1.58	0.480	0.229	0.17	23.99	25.00	1.262	0.606	22.3
Back side	20	QPSK 1_99	45490/3790	1:1.58	0.485	0.211	-0.15	23.77	25.00	1.327	0.644	22.3
Left side	20	QPSK 1_99	43690/3610	1:1.58	0.448	0.195	0.17	23.74	25.00	1.337	0.599	22.3
Left side	20	QPSK 1_99	44140/3655	1:1.58	0.458	0.207	0.14	23.96	25.00	1.271	0.582	22.3
Left side	20	QPSK 1_99	45040/3745	1:1.58	0.479	0.215	-0.03	23.99	25.00	1.262	0.604	22.3
Left side	20	QPSK 1_99	45490/3790	1:1.58	0.448	0.185	0.04	23.77	25.00	1.327	0.595	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_50	44140/3655	1:1.58	0.276	0.132	-0.09	23.14	24.00	1.219	0.336	22.3
Back side	20	QPSK 50_50	44140/3655	1:1.58	0.531	0.239	-0.08	23.14	24.00	1.219	0.647	22.3



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Left side	20	QPSK 50_50	44140/3655	1:1.58	0.426	0.198	-0.17	23.14	24.00	1.219	0.519	22.3
Back side	20	QPSK 50_50	43690/3610	1:1.58	0.557	0.243	0.18	22.81	24.00	1.315	0.733	22.3
Back side	20	QPSK 50_50	44590/3700	1:1.58	0.462	0.188	-0.12	23.11	24.00	1.227	0.567	22.3
Back side	20	QPSK 50_50	45040/3745	1:1.58	0.479	0.208	0.13	23.09	24.00	1.233	0.591	22.3
Back side	20	QPSK 50_25	45490/3790	1:1.58	0.467	0.209	-0.16	22.58	24.00	1.387	0.648	22.3
Left side	20	QPSK 50_50	43690/3610	1:1.58	0.412	0.175	0.07	22.81	24.00	1.315	0.542	22.3
Left side	20	QPSK 50_50	44590/3700	1:1.58	0.421	0.194	0.09	23.11	24.00	1.227	0.517	22.3
Left side	20	QPSK 50_50	45040/3745	1:1.58	0.411	0.175	0.07	23.09	24.00	1.233	0.507	22.3
Left side	20	QPSK 50_25	45490/3790	1:1.58	0.408	0.165	-0.03	22.58	24.00	1.387	0.566	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Back side	20	QPSK 100_0	44140/3655	1:1.58	0.456	0.205	0.07	22.99	24.00	1.262	0.575	22.3



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9.2.16 SAR Result of LTE Band 48

LTE Band 48 SAR Test Record												
Ant 3 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) DSI4												
Left cheek	20	QPSK 1_99	55340/3560	1:1.58	0.294	0.134	-0.08	20.76	22.00	1.330	0.391	22.4
Left tilted	20	QPSK 1_99	55340/3560	1:1.58	0.088	0.044	0.18	20.76	22.00	1.330	0.117	22.4
Right cheek	20	QPSK 1_99	55340/3560	1:1.58	0.848	0.364	0.17	20.76	22.00	1.330	1.128	22.4
Right tilted	20	QPSK 1_99	55340/3560	1:1.58	0.181	0.083	-0.16	20.76	22.00	1.330	0.241	22.4
Right cheek	20	QPSK 1_99	55990/3625	1:1.58	0.722	0.308	0.07	20.73	22.00	1.340	0.967	22.4
Right cheek	20	QPSK 1_99	56640/3690	1:1.58	0.602	0.255	-0.08	20.70	22.00	1.349	0.812	22.4
Right cheek	20	QPSK PCC 1_99	55340/3560	1:1	0.741	0.345	0.09	20.55	22.00	1.396	1.035	22.4
		QPSK SCC 1_0	55538/3579.2									
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	55990/3625	1:1.58	0.350	0.163	0.14	20.81	22.00	1.315	0.460	22.4
Left tilted	20	QPSK 50_50	55990/3625	1:1.58	0.103	0.052	0.08	20.81	22.00	1.315	0.135	22.4
Right cheek	20	QPSK 50_50	55990/3625	1:1.58	0.753	0.321	0.14	20.81	22.00	1.315	0.990	22.4
Right tilted	20	QPSK 50_50	55990/3625	1:1.58	0.212	0.099	0.01	20.81	22.00	1.315	0.279	22.4
Right cheek	20	QPSK 50_50	55340/3560	1:1.58	0.878	0.378	0.04	20.77	22.00	1.327	1.165	22.4
Right cheek	20	QPSK 50_50	56640/3690	1:1.58	0.623	0.265	-0.01	20.75	22.00	1.334	0.831	22.4
Right cheek with Repeat	20	QPSK 50_50	55340/3560	1:1.58	0.865	0.365	-0.08	20.77	22.00	1.327	1.148	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	56640/3690	1:1.58	0.622	0.268	-0.01	20.69	22.00	1.352	0.841	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_0	56640/3690	1:1.58	0.339	0.152	-0.19	22.93	24.00	1.279	0.434	22.3
Back side	20	QPSK 1_0	56640/3690	1:1.58	0.669	0.305	0.10	22.93	24.00	1.279	0.856	22.3
Left side	20	QPSK 1_0	56640/3690	1:1.58	0.615	0.277	-0.14	22.93	24.00	1.279	0.787	22.4
Back side	20	QPSK 1_50	55340/3560	1:1.58	0.605	0.273	0.14	22.78	24.00	1.324	0.801	22.4
Back side	20	QPSK 1_0	55990/3625	1:1.58	0.757	0.329	-0.08	22.91	24.00	1.285	0.973	22.4
Back side	20	QPSK PCC 1_0	56640/3690	1:1	0.712	0.312	-0.03	22.75	24.00	1.334	0.949	22.3
		QPSK SCC 1_99	56442/3670.8									
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_0	55340/3560	1:1.58	0.248	0.118	0.12	21.88	23.00	1.294	0.321	22.3
Back side	20	QPSK 50_0	55340/3560	1:1.58	0.483	0.216	-0.10	21.88	23.00	1.294	0.625	22.3
Left side	20	QPSK 50_0	55340/3560	1:1.58	0.423	0.185	-0.01	21.88	23.00	1.294	0.547	22.3
Back side	20	QPSK 50_0	55990/3625	1:1.58	0.566	0.251	0.13	21.81	23.00	1.315	0.744	22.3
Back side	20	QPSK 50_50	56640/3690	1:1.58	0.497	0.222	-0.07	21.70	23.00	1.349	0.670	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Front side	20	QPSK 100_0	55990/3625	1:1.58	0.555	0.244	-0.03	21.85	23.00	1.303	0.723	22.3



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	55340/3560	0.878	0.865	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 ($\sim 10\%$ 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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9.2.17 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record												
Ant 2 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_50	132322/1745	1:1	0.293	0.197	0.15	18.68	19.50	1.208	0.354	22.3
Left tilted	20	QPSK 1_50	132322/1745	1:1	0.237	0.148	0.16	18.68	19.50	1.208	0.286	22.3
Right cheek	20	QPSK 1_50	132322/1745	1:1	0.658	0.389	0.16	18.68	19.50	1.208	0.795	22.3
Right tilted	20	QPSK 1_50	132322/1745	1:1	0.343	0.209	-0.11	18.68	19.50	1.208	0.414	22.3
Right cheek	20	QPSK 1_50	132072/1720	1:1	0.631	0.377	0.09	18.66	19.50	1.213	0.766	22.3
Right cheek	20	QPSK 1_99	132572/1770	1:1	0.636	0.378	0.00	18.51	19.50	1.256	0.799	22.3
Right cheek	20	QPSK PCC 1_0	132572/1770	1:1	0.612	0.366	-0.05	18.43	19.50	1.279	0.783	22.3
		QPSK SCC 1_99	132374/1750.8									
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_25	132072/1720	1:1	0.288	0.196	0.19	18.67	19.50	1.211	0.349	22.3
Left tilted	20	QPSK 50_25	132072/1720	1:1	0.273	0.145	-0.11	18.67	19.50	1.211	0.330	22.3
Right cheek	20	QPSK 50_25	132072/1720	1:1	0.642	0.385	-0.12	18.67	19.50	1.211	0.777	22.3
Right tilted	20	QPSK 50_25	132072/1720	1:1	0.351	0.204	-0.07	18.67	19.50	1.211	0.425	22.3
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.632	0.375	-0.05	18.66	19.50	1.213	0.767	22.3
Right cheek	20	QPSK 50_50	132572/1770	1:1	0.620	0.385	-0.08	18.63	19.50	1.222	0.758	22.3
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_50	132572/1770	1:1	0.590	0.363	0.07	23.56	24.50	1.242	0.733	22.3
Back side	20	QPSK 1_50	132572/1770	1:1	0.695	0.406	-0.02	23.56	24.50	1.242	0.863	22.3
Left side	20	QPSK 1_50	132572/1770	1:1	0.501	0.279	0.17	23.56	24.50	1.242	0.622	22.3
Top side	20	QPSK 1_50	132572/1770	1:1	0.633	0.352	-0.18	23.56	24.50	1.242	0.786	22.3
Back side	20	QPSK 1_99	132072/1720	1:1	0.658	0.392	-0.19	23.34	24.50	1.306	0.859	22.3
Back side	20	QPSK 1_0	132322/1745	1:1	0.606	0.356	-0.08	23.19	24.50	1.352	0.819	22.3
Top side	20	QPSK PCC 1_0	132572/1770	1:1	0.632	0.351	-0.01	23.35	24.50	1.303	0.824	22.3
		QPSK SCC 1_99	132374/1750.8									
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_50	132572/1770	1:1	0.482	0.302	0.18	22.41	23.50	1.285	0.620	22.3
Back side	20	QPSK 50_50	132572/1770	1:1	0.563	0.351	0.12	22.41	23.50	1.285	0.724	22.3
Left side	20	QPSK 50_50	132572/1770	1:1	0.422	0.236	-0.16	22.41	23.50	1.285	0.542	22.3
Top side	20	QPSK 50_50	132572/1770	1:1	0.512	0.286	0.08	22.41	23.50	1.285	0.658	22.3
Back side	20	QPSK 50_50	132072/1720	1:1	0.536	0.313	-0.16	22.33	23.50	1.309	0.702	22.3
Back side	20	QPSK 50_50	132322/1745	1:1	0.564	0.335	0.12	22.33	23.50	1.309	0.738	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Back side	20	QPSK 100_0	132322/1745	1:1	0.551	0.326	-0.15	22.33	23.50	1.309	0.721	22.3



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Ant 5 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) DSI4												
Left cheek	20	QPSK 1_0	132572/1770	1:1	0.403	0.250	0.16	23.67	25.00	1.358	0.547	22.1
Left tilted	20	QPSK 1_0	132572/1770	1:1	0.110	0.073	-0.07	23.67	25.00	1.358	0.149	22.1
Right cheek	20	QPSK 1_0	132572/1770	1:1	0.270	0.171	-0.07	23.67	25.00	1.358	0.367	22.1
Right tilted	20	QPSK 1_0	132572/1770	1:1	0.142	0.090	0.09	23.67	25.00	1.358	0.193	22.1
Left cheek	20	QPSK 1_0	132072/1720	1:1	0.375	0.238	-0.05	23.58	25.00	1.387	0.520	22.1
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.372	0.234	-0.06	23.66	25.00	1.361	0.506	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.300	0.189	-0.15	22.32	24.00	1.472	0.442	22.1
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.114	0.069	-0.11	22.32	24.00	1.472	0.168	22.1
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.204	0.127	-0.07	22.32	24.00	1.472	0.300	22.1
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.089	0.055	0.03	22.32	24.00	1.472	0.131	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_0	132572/1770	1:1	0.555	0.333	0.03	23.67	25.00	1.358	0.754	22.1
Back side	20	QPSK 1_0	132572/1770	1:1	0.623	0.368	0.11	23.67	25.00	1.358	0.846	22.1
Left side	20	QPSK 1_0	132572/1770	1:1	0.638	0.357	-0.05	23.67	25.00	1.358	0.867	22.1
Left side	20	QPSK 1_0	132572/1770	1:1	0.664	0.328	0.07	23.67	25.00	1.358	0.902	22.1
Bottom side	20	QPSK 1_0	132572/1770	1:1	0.171	0.101	0.00	23.67	25.00	1.358	0.232	22.1
Left side	20	QPSK 1_0	132072/1720	1:1	0.572	0.334	0.05	23.58	25.00	1.387	0.793	22.1
Left side	20	QPSK 1_0	132322/1745	1:1	0.554	0.323	0.02	23.66	25.00	1.361	0.754	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_50	132322/1745	1:1	0.419	0.250	-0.14	22.32	24.00	1.472	0.617	22.1
Back side	20	QPSK 50_50	132322/1745	1:1	0.441	0.267	-0.08	22.32	24.00	1.472	0.649	22.1
Left side	20	QPSK 50_50	132322/1745	1:1	0.448	0.243	0.01	22.32	24.00	1.472	0.660	22.1
Bottom side	20	QPSK 50_50	132322/1745	1:1	0.131	0.077	0.00	22.32	24.00	1.472	0.193	22.1
Left side	20	QPSK 50_50	132072/1720	1:1	0.425	0.239	-0.07	22.32	24.00	1.472	0.626	22.1
Left side	20	QPSK 50_50	132572/1770	1:1	0.503	0.274	-0.06	22.30	24.00	1.479	0.744	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Left side	20	QPSK 100_0	132072/1720	1:1	0.489	0.268	-0.15	22.42	24.00	1.439	0.704	22.1



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9.2.18 SAR Result of LTE Band 71

LTE Band 71 SAR Test Record												
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_50	133322/683	1:1	0.685	0.385	0.08	22.35	23.50	1.303	0.893	22.3
Left tilted	20	QPSK 1_50	133322/683	1:1	0.649	0.355	-0.07	22.35	23.50	1.303	0.846	22.3
Right cheek	20	QPSK 1_50	133322/683	1:1	0.851	0.527	0.04	22.35	23.50	1.303	1.109	22.3
Right tilted	20	QPSK 1_50	133322/683	1:1	0.569	0.337	-0.16	22.35	23.50	1.303	0.742	22.3
Left cheek	20	QPSK 1_50	133222/673	1:1	0.672	0.365	-0.02	22.22	23.50	1.343	0.902	22.3
Left cheek	20	QPSK 1_50	133372/688	1:1	0.655	0.345	-0.03	22.26	23.50	1.330	0.871	22.3
Left tilted	20	QPSK 1_50	133222/673	1:1	0.632	0.342	0.09	22.22	23.50	1.343	0.849	22.3
Left tilted	20	QPSK 1_50	133372/688	1:1	0.588	0.348	0.04	22.26	23.50	1.330	0.782	22.3
Right cheek	20	QPSK 1_50	133222/673	1:1	0.867	0.524	-0.01	22.22	23.50	1.343	1.164	22.3
Right cheek	20	QPSK 1_50	133372/688	1:1	0.788	0.501	0.05	22.26	23.50	1.330	1.048	22.3
Right cheek with Repeat	20	QPSK 1_50	133222/673	1:1	0.852	0.524	-0.03	22.22	23.50	1.343	1.144	22.3
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_0	133222/673	1:1	0.655	0.452	0.11	22.25	23.50	1.334	0.873	22.3
Left tilted	20	QPSK 50_0	133222/673	1:1	0.635	0.348	0.16	22.25	23.50	1.334	0.847	22.3
Right cheek	20	QPSK 50_0	133222/673	1:1	0.836	0.516	0.02	22.25	23.50	1.334	1.115	22.3
Right tilted	20	QPSK 50_0	133222/673	1:1	0.557	0.330	0.01	22.25	23.50	1.334	0.743	22.3
Left cheek	20	QPSK 50_0	133322/683	1:1	0.633	0.345	-0.10	22.24	23.50	1.337	0.846	22.3
Left cheek	20	QPSK 50_0	133372/688	1:1	0.621	0.342	-0.03	22.22	23.50	1.343	0.834	22.3
Left tilted	20	QPSK 50_0	133222/683	1:1	0.633	0.348	0.09	22.24	23.50	1.337	0.846	22.3
Left tilted	20	QPSK 50_0	133372/688	1:1	0.592	0.348	-0.15	22.22	23.50	1.343	0.795	22.3
Right cheek	20	QPSK 50_0	133322/683	1:1	0.856	0.514	-0.18	22.24	23.50	1.337	1.144	22.3
Right cheek	20	QPSK 50_0	133372/688	1:1	0.722	0.489	0.13	22.22	23.50	1.343	0.969	22.3
Head Test Data (100%RB) DSI4												
Left cheek	20	QPSK 100_0	133222/673	1:1	0.637	0.442	0.15	22.26	23.50	1.330	0.847	22.3
Left tilted	20	QPSK 100_0	133222/673	1:1	0.618	0.315	-0.04	22.26	23.50	1.330	0.822	22.3
Right cheek	20	QPSK 100_0	133222/673	1:1	0.842	0.482	0.12	22.26	23.50	1.330	1.120	22.3
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_50	133322/683	1:1	0.386	0.229	-0.04	24.20	25.00	1.202	0.464	22.3
Back side	20	QPSK 1_50	133322/683	1:1	0.349	0.242	0.19	24.20	25.00	1.202	0.420	22.3
Left side	20	QPSK 1_50	133322/683	1:1	0.133	0.090	0.19	24.20	25.00	1.202	0.160	22.3
Right side	20	QPSK 1_50	133322/683	1:1	0.247	0.170	-0.11	24.20	25.00	1.202	0.297	22.3
Top side	20	QPSK 1_50	133322/683	1:1	0.241	0.118	0.11	24.20	25.00	1.202	0.290	22.3
Front side	20	QPSK 1_50	133222/673	1:1	0.298	0.201	0.16	24.18	25.00	1.208	0.360	22.3
Front side	20	QPSK 1_50	133372/688	1:1	0.322	0.222	-0.06	24.08	25.00	1.236	0.398	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_0	133222/673	1:1	0.277	0.190	0.01	23.28	24.00	1.180	0.327	22.3
Back side	20	QPSK 50_0	133222/673	1:1	0.261	0.181	0.01	23.28	24.00	1.180	0.308	22.3



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Left side	20	QPSK 50_0	133222/673	1:1	0.094	0.064	0.11	23.28	24.00	1.180	0.111	22.3
Right side	20	QPSK 50_0	133222/673	1:1	0.184	0.124	0.04	23.28	24.00	1.180	0.217	22.3
Top side	20	QPSK 50_0	133222/673	1:1	0.175	0.089	0.08	23.28	24.00	1.180	0.207	22.3
Front side	20	QPSK 50_0	133322/683	1:1	0.265	0.183	-0.01	23.23	24.00	1.194	0.316	22.3
Front side	20	QPSK 50_0	133372/688	1:1	0.263	0.183	0.08	23.20	24.00	1.202	0.316	22.3

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	133222/673	0.867	0.852	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 performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

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

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

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



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9.2.19 SAR Result of NR Band n7

SA N7 SAR Test Record												
Ant2 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_1	512000/2560	100%	0.170	0.098	0.18	15.23	16.00	1.194	0.203	22.1
Left tilted	20	QPSK 1_1	512000/2560	100%	0.109	0.058	0.09	15.23	16.00	1.194	0.130	22.1
Right cheek	20	QPSK 1_1	512000/2560	100%	0.846	0.362	0.01	15.23	16.00	1.194	1.010	22.1
Right tilted	20	QPSK 1_1	512000/2560	100%	0.342	0.167	-0.10	15.23	16.00	1.194	0.408	22.1
Right cheek	20	QPSK 1_1	502000/2510	100%	0.802	0.305	-0.09	15.14	16.00	1.219	0.978	22.1
Right cheek	20	QPSK 1_104	507000/2535	100%	0.815	0.322	0.04	15.23	16.00	1.194	0.973	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_28	507000/2535	100%	0.167	0.096	-0.09	15.31	16.00	1.172	0.196	22.1
Left tilted	20	QPSK 50_28	507000/2535	100%	0.107	0.057	0.10	15.31	16.00	1.172	0.125	22.1
Right cheek	20	QPSK 50_28	507000/2535	100%	0.809	0.342	-0.15	15.31	16.00	1.172	0.948	22.1
Right tilted	20	QPSK 50_28	507000/2535	100%	0.337	0.164	-0.06	15.31	16.00	1.172	0.395	22.1
Right cheek	20	QPSK 50_28	502000/2510	100%	0.752	0.278	-0.06	15.31	16.00	1.172	0.881	22.1
Right cheek	20	QPSK 50_28	512000/2560	100%	0.799	0.316	0.17	15.26	16.00	1.186	0.947	22.1
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	507000/2535	100%	0.685	0.224	0.19	14.28	15.00	1.180	0.809	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1_1	512000/2560	100%	0.390	0.191	-0.14	18.77	19.50	1.183	0.461	22.4
Back side	20	QPSK 1_1	512000/2560	100%	0.465	0.218	-0.13	18.77	19.50	1.183	0.550	22.4
Left side	20	QPSK 1_1	512000/2560	100%	0.851	0.403	0.14	18.77	19.50	1.183	1.007	22.4
Top side	20	QPSK 1_1	512000/2560	100%	0.068	0.034	0.12	18.77	19.50	1.183	0.080	22.4
Left side	20	QPSK 1_104	502000/2510	100%	0.793	0.353	0.09	18.64	19.50	1.219	0.967	22.4
Left side	20	QPSK 1_104	507000/2535	100%	0.780	0.345	-0.08	18.72	19.50	1.197	0.933	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50_28	507000/2535	100%	0.365	0.181	-0.02	18.85	19.50	1.161	0.424	22.4
Back side	20	QPSK 50_28	507000/2535	100%	0.425	0.203	-0.08	18.85	19.50	1.161	0.494	22.4
Left side	20	QPSK 50_28	507000/2535	100%	0.758	0.345	-0.01	18.85	19.50	1.161	0.880	22.4
Top side	20	QPSK 50_28	507000/2535	100%	0.158	0.047	0.05	18.85	19.50	1.161	0.184	22.4
Left side	20	QPSK 50_28	502000/2510	100%	0.733	0.335	0.01	18.82	19.50	1.169	0.857	22.4
Left side	20	QPSK 50_28	502000/2510	100%	0.738	0.339	0.01	18.79	19.50	1.178	0.869	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI1												
Left side	20	QPSK 100_0	507000/2535	100%	0.590	0.271	0.08	17.79	18.50	1.178	0.695	22.4
Body worn&Hotspot Test data 1RB Sensor off DSI6												
Front side with 15mm	20	QPSK 1_1	512000/2560	100%	0.671	0.388	0.14	24.30	25.00	1.175	0.788	22.4
Back side with 15mm	20	QPSK 1_1	512000/2560	100%	0.772	0.412	-0.13	24.30	25.00	1.175	0.907	22.4
Left side with 19mm	20	QPSK 1_1	512000/2560	100%	0.942	0.540	-0.03	24.30	25.00	1.175	1.107	22.4
Top side with 10mm	20	QPSK 1_1	512000/2560	100%	0.325	0.177	-0.11	24.30	25.00	1.175	0.382	22.4
Body worn&Hotspot Test data 50%RB Sensor off DSI6												
Front side with 15mm	20	QPSK 50_28	502000/2510	100%	0.670	0.387	-0.01	24.32	25.00	1.169	0.784	22.4



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Back side with 15mm	20	QPSK 50_28	502000/2510	100%	0.774	0.416	-0.12	24.32	25.00	1.169	0.905	22.4
Left side with 19mm	20	QPSK 50_28	502000/2510	100%	0.969	0.525	-0.19	24.32	25.00	1.169	1.133	22.4
Top side with 10mm	20	QPSK 50_28	502000/2510	100%	0.356	0.181	-0.16	24.32	25.00	1.169	0.416	22.4
Back side with 15mm	20	QPSK 50_28	502000/2510	100%	0.755	0.402	-0.02	24.34	25.00	1.164	0.879	22.4
Back side with 15mm	20	QPSK 50_28	502000/2510	100%	0.754	0.401	-0.07	24.32	25.00	1.169	0.882	22.4
Left side with 19mm	20	QPSK 50_28	502000/2510	100%	0.955	0.512	-0.19	24.34	25.00	1.164	1.112	22.4
Left side with 19mm	20	QPSK 50_28	502000/2510	100%	0.935	0.505	-0.10	24.32	25.00	1.169	1.093	22.4
Left side with 19mm with Repeat	20	QPSK 50_28	502000/2510	100%	0.965	0.521	0.12	24.32	25.00	1.169	1.129	22.4
Body worn&Hotspot Test data 100%RB Sensor off DSI6												
Back side with 15mm	20	QPSK 100_0	507000/2535	100%	0.741	0.395	-0.02	23.35	24.00	1.161	0.861	22.4
Left side with 19mm	20	QPSK 100_0	507000/2535	100%	0.757	0.410	0.10	23.35	24.00	1.161	0.879	22.4
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI1												
Front side	20	QPSK 1_1	512000/2560	100%	3.350	1.360	-0.07	18.77	19.50	1.183	1.609	22.4
Back side	20	QPSK 1_1	512000/2560	100%	2.990	1.120	-0.06	18.77	19.50	1.183	1.325	22.4
Left side	20	QPSK 1_1	512000/2560	100%	7.660	2.550	0.07	18.77	19.50	1.183	3.017	22.4
Left side	20	QPSK 1_104	502000/2510	100%	7.540	2.350	0.00	18.64	19.50	1.219	2.865	22.4
Left side	20	QPSK 1_104	507000/2535	100%	7.950	2.450	0.09	18.72	19.50	1.197	2.932	22.4
Left side with Repeat	20	QPSK 1_1	512000/2560	100%	7.650	2.540	0.01	18.77	19.50	1.183	3.005	22.4
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI1												
Front side	20	QPSK 50_28	507000/2535	100%	3.160	1.360	-0.08	18.85	19.50	1.161	1.580	22.4
Back side	20	QPSK 50_28	507000/2535	100%	2.600	1.030	-0.08	18.85	19.50	1.161	1.196	22.4
Left side	20	QPSK 50_28	507000/2535	100%	8.030	2.470	0.02	18.85	19.50	1.161	2.869	22.4
Left side	20	QPSK 50_28	502000/2510	100%	5.850	2.270	-0.04	18.82	19.50	1.169	2.655	22.4
Left side	20	QPSK 50_28	512000/2560	100%	6.430	2.500	-0.04	18.79	19.50	1.178	2.944	22.4
Product specific 10g SAR Test data (Sensor on Separate 0mm 100%RB) DSI1												
Front side	20	QPSK 100_0	507000/2535	100%	6.380	1.950	-0.08	17.79	18.50	1.178	2.296	22.4
Product specific 10g SAR Test data (Sensor off 1RB) DSI6												
Left side with 19mm	20	QPSK 1_99	20850/2510	1:1	0.685	0.388	-0.10	23.42	24.50	1.282	0.498	22.3
Left side with 19mm	20	QPSK 1_99	20850/2510	1:1	0.856	0.425	0.12	23.42	24.50	1.282	0.545	22.3
Left side with 19mm	20	QPSK 1_99	20850/2510	1:1	0.942	0.540	-0.08	23.42	24.50	1.282	0.692	22.3
Product specific 10g SAR Test data (Sensor off 50%RB) DSI6												
Left side with 19mm	20	QPSK 50_0	20850/2510	1:1	0.729	0.396	0.17	22.54	23.50	1.247	0.494	22.3
Left side with 19mm	20	QPSK 50_0	20850/2510	1:1	0.862	0.449	0.09	22.54	23.50	1.247	0.560	22.3
Left side with 19mm	20	QPSK 50_0	20850/2510	1:1	0.969	0.525	-0.13	22.54	23.50	1.247	0.655	22.3
Ant 5 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) DSI4												
Left cheek	20	QPSK 1_1	507000/2535	100%	0.499	0.261	-0.08	23.33	25.00	1.469	0.733	22.1
Left tilted	20	QPSK 1_1	507000/2535	100%	0.220	0.118	0.01	23.33	25.00	1.469	0.323	22.1
Right cheek	20	QPSK 1_1	507000/2535	100%	0.372	0.203	0.19	23.33	25.00	1.469	0.546	22.1
Right tilted	20	QPSK 1_1	507000/2535	100%	0.356	0.184	-0.08	23.33	25.00	1.469	0.523	22.1
Left cheek	20	QPSK 1_1	502000/2510	100%	0.524	0.269	0.17	23.22	25.00	1.507	0.789	22.1



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Left cheek	20	QPSK 1_53	512000/2560	100%	0.468	0.241	-0.14	23.32	25.00	1.472	0.689	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_28	507000/2535	100%	0.481	0.252	0.15	23.21	25.00	1.510	0.726	22.1
Left tilted	20	QPSK 50_28	507000/2535	100%	0.224	0.119	0.14	23.21	25.00	1.510	0.338	22.1
Right cheek	20	QPSK 50_28	507000/2535	100%	0.390	0.207	0.14	23.21	25.00	1.510	0.589	22.1
Right tilted	20	QPSK 50_28	507000/2535	100%	0.347	0.180	-0.12	23.21	25.00	1.510	0.524	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_1	507000/2535	100%	0.385	0.205	-0.17	23.33	25.00	1.469	0.566	22.4
Back side	20	QPSK 1_1	507000/2535	100%	0.495	0.279	-0.08	23.33	25.00	1.469	0.727	22.4
Left side	20	QPSK 1_1	507000/2535	100%	0.455	0.242	0.04	23.33	25.00	1.469	0.668	22.4
Bottom side	20	QPSK 1_1	507000/2535	100%	0.292	0.157	0.11	23.33	25.00	1.469	0.429	22.4
Back side	20	QPSK 1_1	502000/2510	100%	0.492	0.278	0.15	23.22	25.00	1.507	0.741	22.4
Back side	20	QPSK 1_53	512000/2560	100%	0.478	0.259	-0.02	23.32	25.00	1.472	0.704	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_28	507000/2535	100%	0.358	0.195	-0.09	23.21	25.00	1.510	0.541	22.4
Back side	20	QPSK 50_28	507000/2535	100%	0.485	0.268	0.08	23.21	25.00	1.510	0.732	22.4
Left side	20	QPSK 50_28	507000/2535	100%	0.479	0.238	0.08	23.21	25.00	1.510	0.723	22.4
Bottom side	20	QPSK 50_28	507000/2535	100%	0.295	0.152	0.17	23.21	25.00	1.510	0.445	22.4

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Left side with 19mm	502000/2510	0.969	0.965	1.01	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.

Test Position	Channel/ Frequency (MHz)	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (10g)		SAR (1g)	SAR (1g)
Left side	512000/2560	2.550	2.540	1.01	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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9.2.20 SAR Result of NR Band n14

SA N14 SAR Test Record												
Ant1 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_1	158600/793	100%	0.744	0.433	-0.15	22.66	23.50	1.213	0.903	22.1
Left tilted	10	QPSK 1_1	158600/793	100%	0.552	0.323	-0.08	22.66	23.50	1.213	0.670	22.1
Right cheek	10	QPSK 1_1	158600/793	100%	0.862	0.490	0.04	22.66	23.50	1.213	1.046	22.1
Right tilted	10	QPSK 1_1	158600/793	100%	0.582	0.354	0.12	22.66	23.50	1.213	0.706	22.1
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_14	158600/793	100%	0.737	0.429	0.15	22.43	23.50	1.279	0.943	22.1
Left tilted	10	QPSK 25_14	158600/793	100%	0.546	0.320	0.16	22.43	23.50	1.279	0.699	22.1
Right cheek	10	QPSK 25_14	158600/793	100%	0.785	0.448	0.13	22.43	23.50	1.279	1.004	22.1
Right tilted	10	QPSK 25_14	158600/793	100%	0.576	0.350	0.07	22.43	23.50	1.279	0.737	22.1
Head Test Data (100%RB) DSI4												
Left cheek	10	QPSK 50_0	158600/793	100%	0.653	0.371	-0.19	21.51	22.50	1.256	0.820	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	10	QPSK 1_1	158600/793	100%	0.501	0.333	-0.06	24.10	25.00	1.230	0.616	22.4
Back side	10	QPSK 1_1	158600/793	100%	0.468	0.309	0.12	24.10	25.00	1.230	0.576	22.4
Left side	10	QPSK 1_1	158600/793	100%	0.104	0.070	-0.09	24.10	25.00	1.230	0.128	22.4
Right side	10	QPSK 1_1	158600/793	100%	0.236	0.160	-0.03	24.10	25.00	1.230	0.290	22.4
Top side	10	QPSK 1_1	158600/793	100%	0.337	0.166	0.00	24.10	25.00	1.230	0.415	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	10	QPSK 25_14	158600/793	100%	0.548	0.330	-0.08	23.88	25.00	1.294	0.709	22.4
Back side	10	QPSK 25_14	158600/793	100%	0.437	0.292	0.19	23.88	25.00	1.294	0.566	22.4
Left side	10	QPSK 25_14	158600/793	100%	0.092	0.054	0.19	23.88	25.00	1.294	0.119	22.4
Right side	10	QPSK 25_14	158600/793	100%	0.245	0.165	0.16	23.88	25.00	1.294	0.317	22.4
Top side	10	QPSK 25_14	158600/793	100%	0.314	0.161	0.01	23.88	25.00	1.294	0.406	22.4



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9.2.21 SAR Result of NR Band n25

SA N25 SAR Test Record												
Ant2 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	30	QPSK 1_1	373000/1865	100%	0.389	0.260	0.06	19.66	20.50	1.213	0.472	22.1
Left tilted	30	QPSK 1_1	373000/1865	100%	0.353	0.219	0.15	19.66	20.50	1.213	0.428	22.1
Right cheek	30	QPSK 1_1	373000/1865	100%	0.918	0.522	0.00	19.66	20.50	1.213	1.114	22.1
Right tilted	30	QPSK 1_1	373000/1865	100%	0.465	0.283	0.17	19.66	20.50	1.213	0.564	22.1
Right cheek	30	QPSK 1_1	376500/1882.5	100%	0.895	0.489	0.15	19.59	20.50	1.233	1.104	22.1
Right cheek	30	QPSK 1_1	380000/1900	100%	0.885	0.475	-0.12	19.61	20.50	1.227	1.086	22.1
Right cheek with Repeat	30	QPSK 1_1	373000/1865	100%	0.895	0.482	0.03	19.66	20.50	1.213	1.086	22.1
Head Test Data (50%RB) DSI4												
Left cheek	30	QPSK 80_40	373000/1865	100%	0.385	0.257	-0.16	19.73	20.50	1.194	0.460	22.1
Left tilted	30	QPSK 80_40	373000/1865	100%	0.349	0.217	0.10	19.73	20.50	1.194	0.417	22.1
Right cheek	30	QPSK 80_40	373000/1865	100%	0.905	0.521	0.07	19.73	20.50	1.194	1.081	22.1
Right tilted	30	QPSK 80_40	373000/1865	100%	0.452	0.280	-0.02	19.73	20.50	1.194	0.540	22.1
Right cheek	30	QPSK 80_40	376500/1882.5	100%	0.885	0.475	0.11	19.62	20.50	1.225	1.084	22.1
Right cheek	30	QPSK 80_40	380000/1900	100%	0.885	0.478	0.11	19.66	20.50	1.213	1.074	22.1
Head Test Data (100%RB) DSI4												
Right cheek	30	QPSK 160_0	380000/1900	100%	0.665	0.401	-0.03	18.71	19.50	1.199	0.798	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	30	QPSK 1_1	373000/1865	100%	0.632	0.389	0.16	24.19	25.00	1.205	0.762	22.4
Back side	30	QPSK 1_1	373000/1865	100%	0.683	0.406	-0.12	24.19	25.00	1.205	0.823	22.1
Left side	30	QPSK 1_1	373000/1865	100%	0.556	0.327	0.12	24.19	25.00	1.205	0.670	22.4
Top side	30	QPSK 1_1	373000/1865	100%	0.552	0.315	-0.07	24.19	25.00	1.205	0.665	22.4
Back side	30	QPSK 1_1	376500/1882.5	100%	0.647	0.402	0.08	24.15	25.00	1.216	0.787	22.4
Back side	30	QPSK 1_1	380000/1900	100%	0.627	0.392	0.04	24.14	25.00	1.219	0.764	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	30	QPSK 80_40	373000/1865	100%	0.668	0.412	-0.06	24.24	25.00	1.191	0.796	22.4
Back side	30	QPSK 80_40	373000/1865	100%	0.661	0.412	0.06	24.24	25.00	1.191	0.787	22.4
Left side	30	QPSK 80_40	373000/1865	100%	0.506	0.304	0.05	24.24	25.00	1.191	0.603	22.4
Top side	30	QPSK 80_40	373000/1865	100%	0.607	0.346	0.08	24.24	25.00	1.191	0.723	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Back side	30	QPSK 160_0	380000/1900	100%	0.548	0.325	0.00	23.22	24.00	1.197	0.656	22.4

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	373000/1865	0.918	0.895	1.03	N/A	N/A

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



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



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9.2.22 SAR Result of NR Band n26

SA N26 SAR Test Record												
Ant 1 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_1	166300/831.5	100%	0.614	0.370	0.09	22.60	23.50	1.230	0.755	22.1
Left tilted	20	QPSK 1_1	166300/831.5	100%	0.577	0.323	-0.06	22.60	23.50	1.230	0.710	22.1
Right cheek	20	QPSK 1_1	166300/831.5	100%	0.793	0.462	0.03	22.60	23.50	1.230	0.976	22.1
Right tilted	20	QPSK 1_1	166300/831.5	100%	0.482	0.304	0.19	22.60	23.50	1.230	0.593	22.1
Right cheek	20	QPSK 1_1	164800/824	100%	0.743	0.402	-0.10	22.49	23.50	1.262	0.938	22.1
Right cheek	20	QPSK 1_1	167800/839	100%	0.755	0.412	0.18	22.51	23.50	1.256	0.948	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_28	167800/839	100%	0.609	0.368	-0.01	22.45	23.50	1.274	0.776	22.1
Left tilted	20	QPSK 50_28	167800/839	100%	0.577	0.320	0.14	22.45	23.50	1.274	0.735	22.1
Right cheek	20	QPSK 50_28	167800/839	100%	0.742	0.442	0.00	22.45	23.50	1.274	0.945	22.1
Right tilted	20	QPSK 50_28	167800/839	100%	0.495	0.301	-0.12	22.45	23.50	1.274	0.630	22.1
Right cheek	20	QPSK 50_28	164800/824	100%	0.725	0.385	0.10	22.33	23.50	1.309	0.949	22.1
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.741	0.405	0.06	22.40	23.50	1.288	0.955	22.1
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	166300/831.5	100%	0.635	0.378	-0.13	21.49	22.50	1.262	0.801	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_1	166300/831.5	100%	0.503	0.312	0.11	24.12	25.00	1.225	0.616	22.4
Back side	20	QPSK 1_1	166300/831.5	100%	0.333	0.209	0.04	24.12	25.00	1.225	0.408	22.4
Left side	20	QPSK 1_1	166300/831.5	100%	0.080	0.053	0.12	24.12	25.00	1.225	0.098	22.4
Right side	20	QPSK 1_1	166300/831.5	100%	0.204	0.136	-0.19	24.12	25.00	1.225	0.250	22.4
Top side	20	QPSK 1_1	166300/831.5	100%	0.333	0.160	0.06	24.12	25.00	1.225	0.408	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_28	167800/839	100%	0.595	0.368	0.03	24.00	25.00	1.259	0.749	22.4
Back side	20	QPSK 50_28	167800/839	100%	0.424	0.267	0.11	24.00	25.00	1.259	0.534	22.4
Left side	20	QPSK 50_28	167800/839	100%	0.102	0.058	0.11	24.00	25.00	1.259	0.128	22.4
Right side	20	QPSK 50_28	167800/839	100%	0.200	0.132	-0.04	24.00	25.00	1.259	0.252	22.4
Top side	20	QPSK 50_28	167800/839	100%	0.333	0.163	-0.06	24.00	25.00	1.259	0.419	22.4
Front side	20	QPSK 50_28	164800/824	100%	0.531	0.335	0.14	23.91	25.00	1.285	0.682	22.4
Front side	20	QPSK 50_28	166300/831.5	100%	0.553	0.349	-0.06	23.92	25.00	1.282	0.709	22.4



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9.2.23 SAR Result of NR Band n30

SA N30 SAR Test Record												
Ant2 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_50	462000/2310	100%	0.235	0.142	-0.11	17.76	19.00	1.330	0.313	22.1
Left tilted	10	QPSK 1_50	462000/2310	100%	0.217	0.114	-0.11	17.76	19.00	1.330	0.289	22.1
Right cheek	10	QPSK 1_50	462000/2310	100%	0.812	0.365	-0.09	17.76	19.00	1.330	1.080	22.1
Right tilted	10	QPSK 1_50	462000/2310	100%	0.471	0.234	-0.19	17.76	19.00	1.330	0.627	22.1
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_14	462000/2310	100%	0.242	0.146	0.19	17.70	19.00	1.349	0.326	22.1
Left tilted	10	QPSK 25_14	462000/2310	100%	0.220	0.115	-0.11	17.70	19.00	1.349	0.297	22.1
Right cheek	10	QPSK 25_14	462000/2310	100%	0.847	0.420	0.08	17.70	19.00	1.349	1.143	22.1
Right tilted	10	QPSK 25_14	462000/2310	100%	0.479	0.236	-0.09	17.70	19.00	1.349	0.646	22.1
Right cheek with Repeat	10	QPSK 25_14	462000/2310	100%	0.845	0.418	0.13	17.70	19.00	1.349	1.140	22.1
Head Test Data (100%RB) DSI4												
Right cheek	10	QPSK 50_0	462000/2310	100%	0.678	0.336	0.09	16.71	18.00	1.349	0.915	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	10	QPSK 1_50	462000/2310	100%	0.676	0.346	-0.06	24.29	25.50	1.321	0.893	22.4
Back side	10	QPSK 1_50	462000/2310	100%	0.572	0.287	-0.09	24.29	25.50	1.321	0.756	22.4
Left side	10	QPSK 1_50	462000/2310	100%	0.431	0.214	0.01	24.29	25.50	1.321	0.569	22.4
Top side	10	QPSK 1_50	462000/2310	100%	0.335	0.169	0.06	24.29	25.50	1.321	0.443	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	10	QPSK 25_14	462000/2310	100%	0.632	0.325	-0.17	24.27	25.50	1.327	0.839	22.4
Back side	10	QPSK 25_14	462000/2310	100%	0.548	0.282	-0.10	24.27	25.50	1.327	0.727	22.4
Left side	10	QPSK 25_14	462000/2310	100%	0.439	0.219	0.05	24.27	25.50	1.327	0.583	22.4
Top side	10	QPSK 25_14	462000/2310	100%	0.326	0.166	-0.10	24.27	25.50	1.327	0.433	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Front side	10	QPSK 50_0	462000/2310	100%	0.541	0.277	-0.07	23.27	24.50	1.327	0.718	22.4

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	462000/2310	0.847	0.845	1.01	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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9.2.24 SAR Result of NR Band n41

SA N41 SAR Test Record												
Ant2 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	100	OFDM QPSK 1_1	523302/2616.51	100%	0.173	0.097	-0.13	14.88	16.00	1.294	0.224	22.3
Left tilted	100	OFDM QPSK 1_1	523302/2616.51	100%	0.109	0.058	-0.06	14.88	16.00	1.294	0.141	22.3
Right cheek	100	OFDM QPSK 1_1	523302/2616.51	100%	0.890	0.382	0.04	14.88	16.00	1.294	1.152	22.3
Right tilted	100	OFDM QPSK 1_1	523302/2616.51	100%	0.823	0.352	0.15	14.88	16.00	1.294	1.065	22.3
Right cheek	100	OFDM QPSK 1_137	509202/2546.01	100%	0.792	0.363	0.03	14.59	16.00	1.384	1.096	22.3
Right cheek	100	OFDM QPSK 1_1	513900/2569.5	100%	0.863	0.385	-0.16	14.84	16.00	1.306	1.127	22.3
Right cheek	100	OFDM QPSK 1_1	518598/2592.99	100%	0.841	0.378	0.13	14.86	16.00	1.300	1.093	22.3
Right cheek	100	OFDM QPSK 1_1	528000/2640	100%	0.834	0.370	-0.11	14.85	16.00	1.303	1.087	22.3
Right tilted	100	OFDM QPSK 1_137	509202/2546.01	100%	0.726	0.334	-0.14	14.59	16.00	1.384	1.004	22.3
Right tilted	100	OFDM QPSK 1_1	513900/2569.5	100%	0.795	0.355	-0.05	14.84	16.00	1.306	1.038	22.3
Right tilted	100	OFDM QPSK 1_1	518598/2592.99	100%	0.775	0.348	-0.19	14.86	16.00	1.300	1.008	22.3
Right tilted	100	OFDM QPSK 1_1	528000/2640	100%	0.768	0.341	0.18	14.85	16.00	1.303	1.001	22.3
Right cheek with Repeat	100	OFDM QPSK 1_1	523302/2616.51	100%	0.885	0.381	-0.10	14.88	16.00	1.294	1.145	22.3
Head Test Data (50%RB) DSI4												
Left cheek	100	OFDM QPSK 135_69	518598/2592.99	100%	0.172	0.097	0.03	14.89	16.00	1.291	0.222	22.3
Left tilted	100	OFDM QPSK 135_69	518598/2592.99	100%	0.108	0.058	0.14	14.89	16.00	1.291	0.139	22.3
Right cheek	100	OFDM QPSK 135_69	518598/2592.99	100%	0.886	0.380	-0.02	14.89	16.00	1.291	1.144	22.3
Right tilted	100	OFDM QPSK 135_69	518598/2592.99	100%	0.819	0.350	-0.06	14.89	16.00	1.291	1.058	22.3
Right cheek	100	OFDM QPSK 135_69	509202/2546.01	100%	0.788	0.361	-0.10	14.66	16.00	1.361	1.073	22.3
Right cheek	100	OFDM QPSK 135_69	513900/2569.5	100%	0.832	0.374	-0.08	14.67	16.00	1.358	1.130	22.3
Right cheek	100	OFDM QPSK 135_69	523302/2616.51	100%	0.837	0.376	-0.06	14.89	16.00	1.291	1.081	22.3
Right cheek	100	OFDM QPSK 135_69	528000/2640	100%	0.830	0.368	0.17	14.79	16.00	1.321	1.097	22.3
Right tilted	100	OFDM QPSK 135_69	509202/2546.01	100%	0.725	0.325	0.05	14.66	16.00	1.361	0.987	22.3
Right tilted	100	OFDM QPSK 135_69	513900/2569.5	100%	0.765	0.345	0.10	14.67	16.00	1.358	1.039	22.3
Right tilted	100	OFDM QPSK 135_69	523302/2616.51	100%	0.774	0.345	0.17	14.89	16.00	1.291	0.999	22.3
Right tilted	100	OFDM QPSK 135_69	528000/2640	100%	0.746	0.325	0.09	14.79	16.00	1.321	0.986	22.3
Head Test Data (100%RB) DSI4												
Right cheek	100	OFDM QPSK 270_0	518598/2592.99	100%	0.695	0.285	-0.16	13.79	15.00	1.321	0.918	22.3
Right tilted	100	OFDM QPSK 270_0	518598/2592.99	100%	0.635	0.261	0.05	13.79	15.00	1.321	0.839	22.3
Body worn/Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	100	OFDM QPSK 1_1	523302/2616.51	100%	0.412	0.195	-0.13	18.89	20.00	1.291	0.532	22.3
Back side	100	OFDM QPSK 1_1	523302/2616.51	100%	0.440	0.210	0.00	18.89	20.00	1.291	0.568	22.3
Left side	100	OFDM QPSK 1_1	523302/2616.51	100%	0.846	0.374	0.06	18.89	20.00	1.291	1.092	22.3
Top side	100	OFDM QPSK 1_1	523302/2616.51	100%	0.059	0.033	-0.01	18.89	20.00	1.291	0.076	22.3
Left side	100	OFDM QPSK 1_271	509202/2546.01	100%	0.786	0.344	-0.06	18.61	20.00	1.377	1.082	22.3
Left side	100	OFDM QPSK 1_137	513900/2569.5	100%	0.790	0.348	0.09	18.80	20.00	1.318	1.041	22.3
Left side	100	OFDM QPSK 1_137	518598/2592.99	100%	0.851	0.392	0.10	18.81	20.00	1.315	1.119	22.3



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Left side	100	OFDM QPSK 1_1	528000/2640	100%	0.832	0.356	0.13	18.87	20.00	1.297	1.079	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	100	OFDM QPSK 135_69	518598/2592.99	100%	0.342	0.175	0.06	18.86	20.00	1.300	0.445	22.3
Back side	100	OFDM QPSK 135_69	518598/2592.99	100%	0.428	0.205	0.06	18.86	20.00	1.300	0.556	22.3
Left side	100	OFDM QPSK 135_69	518598/2592.99	100%	0.812	0.359	-0.16	18.86	20.00	1.300	1.056	22.3
Top side	100	OFDM QPSK 135_69	518598/2592.99	100%	0.057	0.032	0.18	18.86	20.00	1.300	0.074	22.3
Left side	100	OFDM QPSK 135_69	509202/2546.01	100%	0.755	0.330	-0.14	18.65	20.00	1.365	1.030	22.3
Left side	100	OFDM QPSK 135_69	513900/2569.5	100%	0.758	0.334	0.13	18.73	20.00	1.340	1.015	22.3
Left side	100	OFDM QPSK 135_69	523302/2616.51	100%	0.817	0.376	0.17	18.88	20.00	1.294	1.057	22.3
Left side	100	OFDM QPSK 135_69	528000/2640	100%	0.799	0.342	-0.14	18.77	20.00	1.327	1.061	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI1												
Left side	100	OFDM QPSK 270_0	518598/2592.99	100%	0.681	0.321	-0.08	17.83	19.00	1.309	0.892	22.3
Body worn&Hotspot Test data 1RB Sensor off DSI6												
Front side with 15mm	100	OFDM QPSK 1_1	523302/2616.51	100%	0.449	0.228	0.09	21.93	23.00	1.279	0.574	22.3
Back side with 15mm	100	OFDM QPSK 1_1	523302/2616.51	100%	0.502	0.252	0.19	21.93	23.00	1.279	0.642	22.3
Left side with 19mm	100	OFDM QPSK 1_1	523302/2616.51	100%	0.612	0.311	0.00	21.93	23.00	1.279	0.783	22.3
Top side with 10mm	100	OFDM QPSK 1_1	523302/2616.51	100%	0.143	0.078	0.02	21.93	23.00	1.279	0.183	22.3
Back side with 15mm	100	OFDM QPSK 1_137	509202/2546.01	100%	0.484	0.275	0.18	21.67	23.00	1.358	0.657	22.3
Back side with 15mm	100	OFDM QPSK 1_1	513900/2569.5	100%	0.575	0.315	-0.06	21.84	23.00	1.306	0.751	22.3
Back side with 15mm	100	OFDM QPSK 1_1	518598/2592.99	100%	0.544	0.276	0.09	21.87	23.00	1.297	0.706	22.3
Back side with 15mm	100	OFDM QPSK 1_1	528000/2640	100%	0.501	0.251	0.02	21.89	23.00	1.291	0.647	22.3
Left side with 19mm	100	OFDM QPSK 1_137	509202/2546.01	100%	0.590	0.301	0.03	21.67	23.00	1.358	0.801	22.3
Left side with 19mm	100	OFDM QPSK 1_1	513900/2569.5	100%	0.706	0.380	-0.04	21.84	23.00	1.306	0.922	22.3
Left side with 19mm	100	OFDM QPSK 1_1	518598/2592.99	100%	0.664	0.337	0.07	21.87	23.00	1.297	0.861	22.3
Left side with 19mm	100	OFDM QPSK 1_1	528000/2640	100%	0.616	0.311	0.18	21.89	23.00	1.291	0.795	22.3
Body worn&Hotspot Test data 50%RB Sensor off DSI6												
Front side with 15mm	100	OFDM QPSK 135_69	518598/2592.99	100%	0.440	0.223	0.07	21.88	23.00	1.294	0.569	22.3
Back side with 15mm	100	OFDM QPSK 135_69	518598/2592.99	100%	0.492	0.247	-0.11	21.88	23.00	1.294	0.637	22.3
Left side with 19mm	100	OFDM QPSK 135_69	518598/2592.99	100%	0.600	0.305	-0.13	21.88	23.00	1.294	0.777	22.3
Top side with 10mm	100	OFDM QPSK 135_69	518598/2592.99	100%	0.140	0.076	0.12	21.88	23.00	1.294	0.181	22.3
Back side with 15mm	100	OFDM QPSK 135_69	509202/2546.01	100%	0.474	0.242	0.10	21.69	23.00	1.352	0.641	22.3
Back side with 15mm	100	OFDM QPSK 135_69	513900/2569.5	100%	0.567	0.305	0.05	21.69	23.00	1.352	0.767	22.3
Back side with 15mm	100	OFDM QPSK 135_69	523302/2616.51	100%	0.534	0.271	-0.19	21.84	23.00	1.306	0.697	22.3
Back side with 15mm	100	OFDM QPSK 135_69	528000/2640	100%	0.495	0.250	0.01	21.74	23.00	1.337	0.662	22.3
Left side with 19mm	100	OFDM QPSK 135_69	509202/2546.01	100%	0.578	0.295	-0.11	21.69	23.00	1.352	0.781	22.3
Left side with 19mm	100	OFDM QPSK 135_69	513900/2569.5	100%	0.692	0.372	-0.19	21.69	23.00	1.352	0.936	22.3
Left side with 19mm	100	OFDM QPSK 135_69	523302/2616.51	100%	0.651	0.330	-0.09	21.84	23.00	1.306	0.850	22.3
Left side with 19mm	100	OFDM QPSK 135_69	528000/2640	100%	0.604	0.305	-0.19	21.74	23.00	1.337	0.807	22.3
Body worn&Hotspot Test data 100%RB Sensor off DSI6												
Back side with 15mm	100	OFDM QPSK 270_0	518598/2592.99	100%	0.487	0.248	-0.02	20.79	22.00	1.321	0.643	22.3
Left side with 19mm	100	OFDM QPSK 270_0	518598/2592.99	100%	0.578	0.301	-0.15	20.79	22.00	1.321	0.764	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power drift (dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.



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Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI1												
Left side	100	OFDM QPSK 1_1	523302/2616.51	100%	6.720	2.120	-0.19	18.89	20.00	1.291	2.737	22.3
Left side	100	OFDM QPSK 1_271	509202/2546.01	100%	7.250	2.150	-0.15	18.61	20.00	1.377	2.961	22.3
Left side	100	OFDM QPSK 1_137	513900/2569.5	100%	7.120	2.250	-0.17	18.80	20.00	1.318	2.966	22.3
Left side	100	OFDM QPSK 1_137	518598/2592.99	100%	7.310	2.410	0.18	18.81	20.00	1.315	3.170	22.3
Left side	100	OFDM QPSK 1_1	528000/2640	100%	7.050	2.180	-0.13	18.87	20.00	1.297	2.828	22.3
Left side with Repeat	100	OFDM QPSK 1_137	518598/2592.99	100%	7.280	2.380	0.11	18.81	20.00	1.315	3.130	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI1												
Left side	100	OFDM QPSK 135_69	518598/2592.99	100%	6.586	2.078	-0.01	18.86	20.00	1.300	2.702	22.3
Left side	100	OFDM QPSK 135_69	509202/2546.01	100%	7.105	2.107	-0.03	18.65	20.00	1.365	2.875	22.3
Left side	100	OFDM QPSK 135_69	513900/2569.5	100%	6.978	2.205	0.08	18.73	20.00	1.340	2.954	22.3
Left side	100	OFDM QPSK 135_69	523302/2616.51	100%	7.164	2.362	-0.01	18.88	20.00	1.294	3.057	22.3
Left side	100	OFDM QPSK 135_69	528000/2640	100%	6.909	2.136	-0.16	18.77	20.00	1.327	2.835	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 100%RB) DSI1												
Left side	100	OFDM QPSK 270_0	518598/2592.99	100%	5.840	1.920	-0.17	17.83	19.00	1.309	2.514	22.3
Product specific 10g SAR Test data (Sensor off 1RB) DSI6												
Left side with 19mm	100	OFDM QPSK 1_1	523302/2616.51	100%	0.612	0.311	0.00	21.93	23.00	1.279	0.398	22.3
Product specific 10g SAR Test data (Sensor off 50%RB) DSI6												
Left side with 19mm	100	OFDM QPSK 135_69	518598/2592.99	100%	0.600	0.305	-0.13	21.88	23.00	1.294	0.395	22.3
Ant5 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	100	CP QPSK 1_137	518598/2592.99	100%	0.328	0.170	-0.19	25.34	26.00	1.164	0.382	22.1
Left tilted	100	CP QPSK 1_137	518598/2592.99	100%	0.158	0.080	0.01	25.34	26.00	1.164	0.184	22.1
Right cheek	100	CP QPSK 1_137	518598/2592.99	100%	0.279	0.149	-0.11	25.34	26.00	1.164	0.325	22.1
Right tilted	100	CP QPSK 1_137	518598/2592.99	100%	0.250	0.129	-0.19	25.34	26.00	1.164	0.291	22.1
Left cheek	100	CP QPSK 1_137	509202/2546.01	100%	0.437	0.228	-0.09	24.93	26.00	1.279	0.559	22.1
Left cheek	100	CP QPSK 1_137	513900/2569.5	100%	0.442	0.225	-0.19	25.34	26.00	1.164	0.515	22.1
Left cheek	100	CP QPSK 1_137	523302/2616.51	100%	0.195	0.100	0.00	25.32	26.00	1.169	0.228	22.1
Left cheek	100	CP QPSK 1_137	528000/2640	100%	0.165	0.084	-0.02	25.31	26.00	1.172	0.193	22.1
Head Test Data (50%RB) DSI4												
Left cheek	100	CP QPSK 135_69	523302/2616.51	100%	0.207	0.109	Power drift (dB)	25.18	26.00	1.208	0.250	22.1
Left tilted	100	CP QPSK 135_69	523302/2616.51	100%	0.096	0.051	0.00	25.18	26.00	1.208	0.116	22.1
Right cheek	100	CP QPSK 135_69	523302/2616.51	100%	0.179	0.096	-0.19	25.18	26.00	1.208	0.216	22.1
Right tilted	100	CP QPSK 135_69	523302/2616.51	100%	0.163	0.083	-0.15	25.18	26.00	1.208	0.197	22.1
Left cheek	100	CP QPSK 135_69	509202/2546.01	100%	0.441	0.229	-0.17	24.71	26.00	1.346	0.594	22.1
Left cheek	100	CP QPSK 135_69	513900/2569.5	100%	0.405	0.202	0.18	25.16	26.00	1.213	0.491	22.1
Left cheek	100	CP QPSK 135_69	523302/2616.51	100%	0.244	0.124	-0.13	25.17	26.00	1.211	0.295	22.1
Left cheek	100	CP QPSK 135_69	528000/2640	100%	0.188	0.096	0.11	25.16	26.00	1.213	0.228	22.1
Body worn/Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	100	CP QPSK 1_137	518598/2592.99	100%	0.434	0.231	-0.01	25.34	26.00	1.164	0.505	22.1
Back side	100	CP QPSK 1_137	518598/2592.99	100%	0.508	0.283	-0.03	25.34	26.00	1.164	0.591	22.1
Left side	100	CP QPSK 1_137	518598/2592.99	100%	0.471	0.240	0.08	25.34	26.00	1.164	0.548	22.1



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Bottom side	100	CP QPSK 1_137	518598/2592.99	100%	0.183	0.095	-0.01	25.34	26.00	1.164	0.213	22.1
Back side	100	CP QPSK 1_137	509202/2546.01	100%	0.529	0.280	-0.16	24.93	26.00	1.279	0.677	22.1
Back side	100	CP QPSK 1_137	513900/2569.5	100%	0.579	0.305	0.00	25.34	26.00	1.164	0.674	22.1
Back side	100	CP QPSK 1_137	523302/2616.51	100%	0.326	0.171	-0.17	25.32	26.00	1.169	0.381	22.1
Back side	100	CP QPSK 1_137	528000/2640	100%	0.279	0.146	0.00	25.31	26.00	1.172	0.327	22.1
Body worn/Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	100	CP QPSK 135_69	523302/2616.51	100%	0.327	0.170	0.06	25.18	26.00	1.208	0.395	22.1
Back side	100	CP QPSK 135_69	523302/2616.51	100%	0.331	0.182	0.04	25.18	26.00	1.208	0.400	22.1
Left side	100	CP QPSK 135_69	523302/2616.51	100%	0.327	0.164	-0.15	25.18	26.00	1.208	0.395	22.1
Bottom side	100	CP QPSK 135_69	523302/2616.51	100%	0.115	0.061	-0.17	25.18	26.00	1.208	0.139	22.1

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	523302/2616.51	0.890	0.885	1.01	N/A	N/A

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

Test Position	Channel/ Frequency (MHz)	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (10g)		SAR (1g)	SAR (1g)
Left side	518598/2592.99	2.410	2.380	1.01	N/A	N/A

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



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9.2.25 SAR Result of NR Band n48

SA N48 SAR Test Record												
Ant3 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	40	QPSK 1_104	645332/3679.98	100%	0.427	0.195	-0.19	19.01	20.00	1.256	0.536	22.1
Left tilted	40	QPSK 1_104	645332/3679.98	100%	0.127	0.064	0.09	19.01	20.00	1.256	0.160	22.1
Right cheek	40	QPSK 1_104	645332/3679.98	100%	0.879	0.382	0.13	19.01	20.00	1.256	1.104	22.1
Right tilted	40	QPSK 1_104	645332/3679.98	100%	0.278	0.126	0.14	19.01	20.00	1.256	0.349	22.1
Right cheek	40	QPSK 1_104	638000/3570	100%	0.887	0.392	-0.07	19.01	20.00	1.256	1.114	22.1
Right cheek	40	QPSK 1_104	641666/3624.99	100%	0.852	0.375	0.06	19.01	20.00	1.256	1.070	22.1
Right cheek with Repeat	40	QPSK 1_104	638000/3570	100%	0.885	0.391	-0.14	19.01	20.00	1.256	1.112	22.1
Head Test Data (50%RB) DSI4												
Left cheek	40	QPSK 50_28	645332/3679.98	100%	0.435	0.191	0.01	19.13	20.00	1.222	0.531	22.1
Left tilted	40	QPSK 50_28	645332/3679.98	100%	0.121	0.062	0.14	19.13	20.00	1.222	0.148	22.1
Right cheek	40	QPSK 50_28	645332/3679.98	100%	0.876	0.378	0.08	19.13	20.00	1.222	1.070	22.1
Right tilted	40	QPSK 50_28	645332/3679.98	100%	0.275	0.121	0.16	19.13	20.00	1.222	0.336	22.1
Right cheek	40	QPSK 50_28	638000/3570	100%	0.812	0.321	0.12	18.79	20.00	1.321	1.073	22.1
Right cheek	40	QPSK 50_28	641666/3624.99	100%	0.862	0.362	0.00	19.06	20.00	1.242	1.070	22.1
Head Test Data (100%RB) DSI4												
Right cheek	40	QPSK 100_0	645332/3679.98	100%	0.693	0.305	-0.09	18.10	19.00	1.230	0.853	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	40	QPSK 1_104	645332/3679.98	100%	0.301	0.134	-0.01	23.39	24.00	1.151	0.346	22.4
Back side	40	QPSK 1_104	645332/3679.98	100%	0.456	0.203	0.09	23.39	24.00	1.151	0.525	22.4
Left side	40	QPSK 1_104	645332/3679.98	100%	0.492	0.226	-0.15	23.39	24.00	1.151	0.566	22.4
Left side	40	QPSK 1_104	638000/3570	100%	0.388	0.172	-0.05	23.00	24.00	1.259	0.488	22.4
Left side	40	QPSK 1_104	641666/3624.99	100%	0.442	0.192	-0.01	23.29	24.00	1.178	0.521	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	40	QPSK 50_28	645332/3679.98	100%	0.302	0.135	-0.05	23.11	24.00	1.227	0.371	22.4
Back side	40	QPSK 50_28	645332/3679.98	100%	0.464	0.206	-0.18	23.11	24.00	1.227	0.570	22.4
Left side	40	QPSK 50_28	645332/3679.98	100%	0.474	0.210	0.01	23.11	24.00	1.227	0.582	22.4
Left side	40	QPSK 50_28	638000/3570	100%	0.398	0.174	-0.02	22.75	24.00	1.334	0.531	22.4
Left side	40	QPSK 50_28	641666/3624.99	100%	0.445	0.193	-0.13	23.04	24.00	1.247	0.555	22.4



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	638000/3570	0.887	0.885	1.01	N/A	N/A

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

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

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

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

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



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9.2.26 SAR Result of NR Band n66

SA N66 SAR Test Record												
Ant2 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	30	QPSK 1_158	353000/1765	100%	0.384	0.259	-0.19	20.19	21.00	1.205	0.463	22.1
Left tilted	30	QPSK 1_158	353000/1765	100%	0.348	0.217	0.06	20.19	21.00	1.205	0.419	22.1
Right cheek	30	QPSK 1_158	353000/1765	100%	0.951	0.548	0.00	20.19	21.00	1.205	1.146	22.1
Right tilted	30	QPSK 1_158	353000/1765	100%	0.514	0.311	-0.18	20.19	21.00	1.205	0.619	22.1
Right cheek	30	QPSK 1_79	345000/1725	100%	0.901	0.488	-0.11	20.00	21.00	1.259	1.134	22.1
Right cheek	30	QPSK 1_158	349000/1745	100%	0.933	0.524	0.05	20.18	21.00	1.208	1.127	22.1
Right cheek with Repeat	30	QPSK 1_158	353000/1765	100%	0.948	0.542	-0.12	20.19	21.00	1.205	1.142	22.1
Head Test Data (50%RB) DSI4												
Left cheek	30	QPSK 80_40	353000/1765	100%	0.380	0.256	0.10	20.37	21.00	1.156	0.439	22.1
Left tilted	30	QPSK 80_40	353000/1765	100%	0.345	0.215	-0.08	20.37	21.00	1.156	0.399	22.1
Right cheek	30	QPSK 80_40	353000/1765	100%	0.941	0.543	-0.12	20.37	21.00	1.156	1.088	22.1
Right tilted	30	QPSK 80_40	353000/1765	100%	0.509	0.308	-0.11	20.37	21.00	1.156	0.588	22.1
Right cheek	30	QPSK 80_40	345000/1725	100%	0.903	0.493	0.09	20.01	21.00	1.256	1.134	22.1
Right cheek	30	QPSK 80_40	349000/1745	100%	0.924	0.519	0.05	20.13	21.00	1.222	1.129	22.1
Head Test Data (100%RB) DSI4												
Right cheek	30	QPSK 160_0	353000/1765	100%	0.677	0.370	0.14	19.44	20.00	1.138	0.770	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	30	QPSK 1_158	353000/1765	100%	0.513	0.321	-0.10	24.27	25.00	1.183	0.607	22.4
Back side	30	QPSK 1_158	353000/1765	100%	0.916	0.523	-0.10	24.27	25.00	1.183	1.084	22.4
Left side	30	QPSK 1_158	353000/1765	100%	0.502	0.296	0.11	24.27	25.00	1.183	0.594	22.4
Top side	30	QPSK 1_158	353000/1765	100%	0.519	0.287	0.09	24.27	25.00	1.183	0.614	22.4
Back side	30	QPSK 1_158	345000/1725	100%	0.857	0.485	-0.05	24.05	25.00	1.245	1.067	22.4
Back side	30	QPSK 1_158	349000/1745	100%	0.902	0.502	0.06	24.25	25.00	1.189	1.072	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	30	QPSK 80_40	353000/1765	100%	0.456	0.288	-0.07	24.42	25.00	1.143	0.521	22.4
Back side	30	QPSK 80_40	353000/1765	100%	0.885	0.512	0.14	24.42	25.00	1.143	1.011	22.4
Left side	30	QPSK 80_40	353000/1765	100%	0.427	0.252	-0.01	24.42	25.00	1.143	0.488	22.4
Top side	30	QPSK 80_40	353000/1765	100%	0.476	0.269	0.01	24.42	25.00	1.143	0.544	22.4
Back side	30	QPSK 80_40	345000/1725	100%	0.849	0.481	0.04	24.10	25.00	1.230	1.044	22.4
Back side	30	QPSK 80_40	349000/1745	100%	0.893	0.497	0.10	24.20	25.00	1.202	1.074	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Back side	30	QPSK 160_0	353000/1765	100%	0.713	0.397	-0.08	23.49	24.00	1.125	0.802	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI2												
Front side	30	QPSK 1_158	353000/1765	100%	0.513	0.321	-0.10	24.27	24.00	0.940	0.482	22.4
Back side	30	QPSK 1_158	353000/1765	100%	0.916	0.523	-0.10	24.27	24.00	0.940	0.861	22.4
Left side	30	QPSK 1_158	353000/1765	100%	0.502	0.296	0.11	24.27	24.00	0.940	0.472	22.4
Top side	30	QPSK 1_158	353000/1765	100%	0.519	0.287	0.09	24.27	24.00	0.940	0.488	22.4



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Back side	30	QPSK 1_158	345000/1725	100%	0.857	0.485	-0.05	24.05	24.00	0.989	0.847	22.4
Back side	30	QPSK 1_158	349000/1745	100%	0.902	0.502	0.06	24.25	24.00	0.944	0.852	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI2												
Front side	30	QPSK 80_40	353000/1765	100%	0.456	0.288	-0.07	24.42	24.00	0.908	0.414	22.4
Back side	30	QPSK 80_40	353000/1765	100%	0.885	0.512	0.14	24.42	24.00	0.908	0.803	22.4
Left side	30	QPSK 80_40	353000/1765	100%	0.427	0.252	-0.01	24.42	24.00	0.908	0.388	22.4
Top side	30	QPSK 80_40	353000/1765	100%	0.476	0.269	0.01	24.42	24.00	0.908	0.432	22.4
Back side	30	QPSK 80_40	345000/1725	100%	0.849	0.481	0.04	24.10	24.00	0.977	0.830	22.4
Back side	30	QPSK 80_40	349000/1745	100%	0.893	0.497	0.10	24.20	24.00	0.955	0.853	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI2												
Back side	30	QPSK 160_0	353000/1765	100%	0.713	0.397	-0.08	23.49	23.00	0.893	0.637	22.4

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	353000/1765	0.951	0.948	1.01	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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9.2.27 SAR Result of NR Band n70

SA N70 SAR Test Record													
Ant5 Test Record													
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head Test Data (1RB) DSI4													
Left cheek	15	QPSK 1_40	340500/1702.5	100%	0.437	0.281	0.10	23.34	24.00	1.164	0.509	22.1	
Left tilted	15	QPSK 1_40	340500/1702.5	100%	0.130	0.085	0.07	23.34	24.00	1.164	0.151	22.1	
Right cheek	15	QPSK 1_40	340500/1702.5	100%	0.286	0.190	-0.05	23.34	24.00	1.164	0.333	22.1	
Right tilted	15	QPSK 1_40	340500/1702.5	100%	0.138	0.089	0.15	23.34	24.00	1.164	0.161	22.1	
Head Test Data (50%RB) DSI4													
Left cheek	15	QPSK 36_22	340500/1702.5	100%	0.318	0.189	0.16	23.21	24.00	1.199	0.381	22.1	
Left tilted	15	QPSK 36_22	340500/1702.5	100%	0.124	0.081	-0.06	23.21	24.00	1.199	0.149	22.1	
Right cheek	15	QPSK 36_22	340500/1702.5	100%	0.276	0.180	-0.17	23.21	24.00	1.199	0.331	22.1	
Right tilted	15	QPSK 36_22	340500/1702.5	100%	0.143	0.091	-0.17	23.21	24.00	1.199	0.172	22.1	
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6													
Front side	15	QPSK 1_77	340500/1702.5	100%	0.586	0.353	0.08	23.26	24.00	1.186	0.695	22.4	
Back side	15	QPSK 1_77	340500/1702.5	100%	0.715	0.466	-0.04	23.26	24.00	1.186	0.848	22.4	
Left side	15	QPSK 1_77	340500/1702.5	100%	0.577	0.341	0.06	23.26	24.00	1.186	0.684	22.4	
Bottom side	15	QPSK 1_77	340500/1702.5	100%	0.237	0.136	0.02	23.26	24.00	1.186	0.281	22.4	
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6													
Front side	15	QPSK 36_22	340500/1702.5	100%	0.551	0.335	-0.17	23.21	24.00	1.199	0.661	22.4	
Back side	15	QPSK 36_22	340500/1702.5	100%	0.675	0.431	0.05	23.21	24.00	1.199	0.810	22.4	
Left side	15	QPSK 36_22	340500/1702.5	100%	0.589	0.348	0.14	23.21	24.00	1.199	0.707	22.4	
Bottom side	15	QPSK 36_22	340500/1702.5	100%	0.253	0.146	-0.15	23.21	24.00	1.199	0.303	22.4	
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6													
Front side	15	QPSK 75_0	340500/1702.5	100%	0.572	0.381	-0.07	22.21	23.00	1.199	0.686	22.4	



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9.2.28 SAR Result of NR Band n71

SA N71 SAR Test Record												
Ant1 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_1	134600/673	100%	0.723	0.425	-0.12	22.20	23.00	1.202	0.869	22.1
Left tilted	20	QPSK 1_1	134600/673	100%	0.496	0.260	-0.10	22.20	23.00	1.202	0.596	22.1
Right cheek	20	QPSK 1_1	134600/673	100%	0.627	0.382	0.04	22.20	23.00	1.202	0.754	22.1
Right tilted	20	QPSK 1_1	134600/673	100%	0.418	0.245	-0.04	22.20	23.00	1.202	0.503	22.1
Left cheek	20	QPSK 1_1	136100/680.5	100%	0.705	0.389	0.12	22.13	23.00	1.222	0.861	22.1
Left cheek	20	QPSK 1_1	137600/688	100%	0.665	0.355	0.04	21.90	23.00	1.288	0.857	22.1
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_28	134600/673	100%	0.716	0.421	0.05	22.18	23.00	1.208	0.865	22.1
Left tilted	20	QPSK 50_28	134600/673	100%	0.491	0.257	-0.02	22.18	23.00	1.208	0.593	22.1
Right cheek	20	QPSK 50_28	134600/673	100%	0.621	0.376	0.17	22.18	23.00	1.208	0.750	22.1
Right tilted	20	QPSK 50_28	134600/673	100%	0.414	0.243	0.17	22.18	23.00	1.208	0.500	22.1
Left cheek	20	QPSK 50_28	136100/680.5	100%	0.672	0.385	0.09	21.95	23.00	1.274	0.856	22.1
Left cheek	20	QPSK 50_28	137600/688	100%	0.658	0.351	0.11	21.92	23.00	1.282	0.844	22.1
Head Test Data (100%RB) DSI4												
Left cheek	20	QPSK 160_0	134600/673	100%	0.578	0.341	-0.09	21.06	22.00	1.242	0.718	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	20	QPSK 1_1	134600/673	100%	0.337	0.223	0.18	24.26	25.00	1.186	0.400	22.4
Back side	20	QPSK 1_1	134600/673	100%	0.285	0.201	-0.05	24.26	25.00	1.186	0.338	22.4
Left side	20	QPSK 1_1	134600/673	100%	0.100	0.069	0.14	24.26	25.00	1.186	0.119	22.4
Right side	20	QPSK 1_1	134600/673	100%	0.153	0.104	-0.09	24.26	25.00	1.186	0.181	22.4
Top side	20	QPSK 1_1	134600/673	100%	0.197	0.098	0.10	24.26	25.00	1.186	0.234	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	20	QPSK 50_28	134600/673	100%	0.379	0.268	0.00	24.23	25.00	1.194	0.453	22.1
Back side	20	QPSK 50_28	134600/673	100%	0.326	0.228	-0.12	24.23	25.00	1.194	0.389	22.4
Left side	20	QPSK 50_28	134600/673	100%	0.139	0.094	-0.06	24.23	25.00	1.194	0.166	22.4
Right side	20	QPSK 50_28	134600/673	100%	0.208	0.139	0.04	24.23	25.00	1.194	0.248	22.4
Top side	20	QPSK 50_28	134600/673	100%	0.242	0.122	0.01	24.23	25.00	1.194	0.289	22.4
Front side	20	QPSK 50_28	136100/680.5	100%	0.348	0.242	0.18	24.00	25.00	1.259	0.438	22.4
Front side	20	QPSK 50_28	137600/688	100%	0.347	0.241	0.16	24.00	25.00	1.259	0.437	22.4



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

SA N77 SAR Test Record												
Ant3 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	100	OFDM QPSK 1_137	633334/3500	100%	0.388	0.193	0.09	22.80	24.00	1.318	0.511	22.1
Left tilted	100	OFDM QPSK 1_137	633334/3500	100%	0.137	0.062	-0.04	22.80	24.00	1.318	0.181	22.1
Right cheek	100	OFDM QPSK 1_137	633334/3500	100%	0.905	0.397	0.04	22.80	24.00	1.318	1.193	22.1
Right tilted	100	OFDM QPSK 1_137	633334/3500	100%	0.245	0.109	0.09	22.80	24.00	1.318	0.323	22.1
Head Test Data (50%RB) DSI4												
Left cheek	100	OFDM QPSK 135_69	633334/3500	100%	0.342	0.175	-0.06	22.95	24.00	1.274	0.436	22.1
Left tilted	100	OFDM QPSK 135_69	633334/3500	100%	0.124	0.052	-0.09	22.95	24.00	1.274	0.158	22.1
Right cheek	100	OFDM QPSK 135_69	633334/3500	100%	0.835	0.373	0.15	22.95	24.00	1.274	1.063	22.1
Right tilted	100	OFDM QPSK 135_69	633334/3500	100%	0.233	0.095	0.12	22.95	24.00	1.274	0.297	22.1
Head Test Data (100%RB) DSI4												
Left cheek	100	OFDM QPSK 270_0	633334/3500	100%	0.668	0.289	-0.13	21.71	23.00	1.346	0.899	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	100	OFDM QPSK 1_1	633334/3500	100%	0.172	0.083	-0.14	25.24	27.00	1.500	0.258	22.4
Back side	100	OFDM QPSK 1_1	633334/3500	100%	0.220	0.108	0.07	25.24	27.00	1.500	0.330	22.4
Left side	100	OFDM QPSK 1_1	633334/3500	100%	0.241	0.110	0.11	25.24	27.00	1.500	0.361	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	100	OFDM QPSK 135_69	633334/3500	100%	0.214	0.102	0.04	25.42	27.00	1.439	0.308	22.4
Back side	100	OFDM QPSK 135_69	633334/3500	100%	0.251	0.122	-0.18	25.42	27.00	1.439	0.361	22.4
Left side	100	OFDM QPSK 135_69	633334/3500	100%	0.305	0.137	-0.08	25.42	27.00	1.439	0.439	22.4
Ant 7 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI4												
Left cheek	100	OFDM QPSK 1_271	633334/3500	100%	0.346	0.162	0.17	19.23	20.00	1.194	0.413	22.1
Left tilted	100	OFDM QPSK 1_271	633334/3500	100%	0.184	0.085	-0.06	19.23	20.00	1.194	0.220	22.1
Right cheek	100	OFDM QPSK 1_271	633334/3500	100%	1.000	0.364	-0.08	19.23	20.00	1.194	1.194	22.1
Right tilted	100	OFDM QPSK 1_271	633334/3500	100%	0.103	0.051	0.00	19.23	20.00	1.194	0.123	22.1
Right cheek with Repeat	100	OFDM QPSK 1_271	633334/3500	100%	0.992	0.362	-0.02	19.23	20.00	1.194	1.184	22.1
Head Test Data(50%RB) DSI4												
Left cheek	100	OFDM QPSK 135_69	633334/3500	100%	0.332	0.154	0.01	19.06	20.00	1.242	0.412	22.1
Left tilted	100	OFDM QPSK 135_69	633334/3500	100%	0.175	0.075	-0.06	19.06	20.00	1.242	0.217	22.1
Right cheek	100	OFDM QPSK 135_69	633334/3500	100%	0.920	0.355	-0.08	19.06	20.00	1.242	1.142	22.1
Right tilted	100	OFDM QPSK 135_69	633334/3500	100%	0.102	0.050	-0.08	19.06	20.00	1.242	0.127	22.1
Head Test Data(100%RB) DSI4												
Right cheek	100	OFDM QPSK 270_0	633334/3500	100%	0.802	0.284	0.15	18.01	19.00	1.256	1.007	22.1



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Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	100	OFDM QPSK 1_271	633334/3500	100%	0.455	0.195	0.18	20.25	21.00	1.189	0.541	22.4
Back side	100	OFDM QPSK 1_271	633334/3500	100%	0.509	0.237	0.09	20.25	21.00	1.189	0.605	22.4
Right side	100	OFDM QPSK 1_271	633334/3500	100%	0.942	0.396	-0.03	20.25	21.00	1.189	1.120	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	100	OFDM QPSK 135_69	633334/3500	100%	0.402	0.179	-0.13	20.07	21.00	1.239	0.498	22.4
Back side	100	OFDM QPSK 135_69	633334/3500	100%	0.453	0.209	0.09	20.07	21.00	1.239	0.561	22.4
Right side	100	OFDM QPSK 135_69	633334/3500	100%	0.835	0.342	-0.12	20.07	21.00	1.239	1.034	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Right side	100	OFDM QPSK 270_0	633334/3500	100%	0.754	0.315	-0.19	19.01	20.00	1.256	0.947	22.4

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	633334/3500	1.000	0.992	1.01	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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9.2.30 SAR Result of NR Band n77(3700-3980)

SA N77 SAR Test Record													
Ant3 Test Record													
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head Test Data (1RB) DSI4													
Left cheek	100	OFDM QPSK 1_271	657200/3858	100%	0.677	0.294	0.12	23.62	24.00	1.091	0.739	22.1	
Left tilted	100	OFDM QPSK 1_271	657200/3858	100%	0.158	0.078	0.09	23.62	24.00	1.091	0.172	22.1	
Right cheek	100	OFDM QPSK 1_271	657200/3858	100%	0.943	0.390	0.11	23.62	24.00	1.091	1.029	22.1	
Right tilted	100	OFDM QPSK 1_271	657200/3858	100%	0.313	0.143	-0.17	23.62	24.00	1.091	0.342	22.1	
Left cheek	100	OFDM QPSK 1_137	650000/3750	100%	0.680	0.284	0.13	23.43	24.00	1.140	0.775	22.1	
Left cheek	100	OFDM QPSK 1_1	652400/3786	100%	0.686	0.287	0.17	23.21	24.00	1.199	0.822	22.1	
Left cheek	100	OFDM QPSK 1_1	654800/3822	100%	0.635	0.279	0.12	23.12	24.00	1.225	0.778	22.1	
Left cheek	100	OFDM QPSK 1_271	659600/3894	100%	0.580	0.255	0.11	23.51	24.00	1.119	0.649	22.1	
Left cheek	100	OFDM QPSK 1_1	662000/3930	100%	0.630	0.273	-0.11	23.59	24.00	1.099	0.692	22.1	
Right cheek	100	OFDM QPSK 1_137	650000/3750	100%	0.972	0.405	0.11	23.43	24.00	1.140	1.108	22.1	
Right cheek	100	OFDM QPSK 1_1	652400/3786	100%	0.980	0.410	-0.04	23.21	24.00	1.199	1.175	22.1	
Right cheek	100	OFDM QPSK 1_1	654800/3822	100%	0.907	0.399	0.14	23.12	24.00	1.225	1.111	22.1	
Right cheek	100	OFDM QPSK 1_271	659600/3894	100%	0.828	0.364	-0.02	23.51	24.00	1.119	0.927	22.1	
Right cheek	100	OFDM QPSK 1_1	662000/3930	100%	0.900	0.390	0.04	23.59	24.00	1.099	0.989	22.1	
Head Test Data (50%RB) DSI4													
Left cheek	100	OFDM QPSK 135_69	662000/3930	100%	0.670	0.285	-0.14	23.75	24.00	1.059	0.710	22.1	
Left tilted	100	OFDM QPSK 135_69	662000/3930	100%	0.152	0.076	0.10	23.75	24.00	1.059	0.161	22.1	
Right cheek	100	OFDM QPSK 135_69	662000/3930	100%	0.994	0.429	0.18	23.75	24.00	1.059	1.053	22.1	
Right tilted	100	OFDM QPSK 135_69	662000/3930	100%	0.326	0.146	0.18	23.75	24.00	1.059	0.345	22.1	
Left cheek	100	OFDM QPSK 135_69	650000/3750	100%	0.784	0.329	-0.16	23.74	24.00	1.062	0.832	22.1	
Left cheek	100	OFDM QPSK 135_69	652400/3786	100%	0.645	0.277	0.08	23.41	24.00	1.146	0.739	22.1	
Left cheek	100	OFDM QPSK 135_69	654800/3822	100%	0.640	0.274	0.09	23.18	24.00	1.208	0.773	22.1	
Left cheek	100	OFDM QPSK 135_69	657200/3858	100%	0.665	0.283	-0.12	23.65	24.00	1.084	0.721	22.1	
Left cheek	100	OFDM QPSK 135_69	659600/3894	100%	0.721	0.302	0.15	23.64	24.00	1.086	0.783	22.1	
Right cheek	100	OFDM QPSK 135_69	650000/3750	100%	1.120	0.470	0.00	23.74	24.00	1.062	1.189	22.1	
Right cheek	100	OFDM QPSK 135_69	652400/3786	100%	0.922	0.395	-0.04	23.41	24.00	1.146	1.056	22.1	
Right cheek	100	OFDM QPSK 135_69	654800/3822	100%	0.914	0.392	-0.14	23.18	24.00	1.208	1.104	22.1	
Right cheek	100	OFDM QPSK 135_69	657200/3858	100%	0.950	0.404	0.16	23.65	24.00	1.084	1.030	22.1	
Right cheek	100	OFDM QPSK 135_69	659600/3894	100%	1.030	0.432	-0.09	23.64	24.00	1.086	1.119	22.1	
Right cheek with Repeat	100	OFDM QPSK 135_69	650000/3750	100%	1.110	0.475	-0.14	23.74	24.00	1.062	1.178	22.1	
Head Test Data (100%RB) DSI4													
Right cheek	100	OFDM QPSK 270_0	662000/3930	100%	0.895	0.377	0.01	22.48	23.00	1.127	1.009	22.1	
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6													
Front side	100	OFDM QPSK 1_271	657200/3858	100%	0.404	0.186	-0.11	26.65	27.00	1.084	0.438	22.4	
Back side	100	OFDM QPSK 1_271	657200/3858	100%	0.598	0.276	-0.09	26.65	27.00	1.084	0.648	22.4	
Left side	100	OFDM QPSK 1_271	657200/3858	100%	0.528	0.236	-0.13	26.65	27.00	1.084	0.572	22.4	
Front side	100	OFDM QPSK 1_1	650000/3750	100%	0.450	0.198	0.07	26.49	27.00	1.125	0.506	22.4	



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Front side	100	OFDM QPSK 1_1	652400/3786	100%	0.384	0.174	-0.18	25.60	27.00	1.380	0.530	22.4
Front side	100	OFDM QPSK 1_1	654800/3822	100%	0.354	0.157	-0.19	26.13	27.00	1.222	0.433	22.4
Front side	100	OFDM QPSK 1_271	659600/3894	100%	0.389	0.185	0.05	26.52	27.00	1.117	0.434	22.4
Front side	100	OFDM QPSK 1_1	662000/3930	100%	0.350	0.161	-0.18	26.62	27.00	1.091	0.382	22.4
Back side	100	OFDM QPSK 1_1	650000/3750	100%	0.671	0.295	-0.14	26.49	27.00	1.125	0.755	22.4
Back side	100	OFDM QPSK 1_1	652400/3786	100%	0.573	0.259	-0.02	25.60	27.00	1.380	0.791	22.4
Back side	100	OFDM QPSK 1_1	654800/3822	100%	0.528	0.235	0.07	26.13	27.00	1.222	0.645	22.4
Back side	100	OFDM QPSK 1_271	659600/3894	100%	0.580	0.276	0.05	26.52	27.00	1.117	0.648	22.4
Back side	100	OFDM QPSK 1_1	662000/3930	100%	0.522	0.240	-0.17	26.62	27.00	1.091	0.570	22.4
Left side	100	OFDM QPSK 1_1	650000/3750	100%	0.590	0.260	-0.14	26.49	27.00	1.125	0.664	22.4
Left side	100	OFDM QPSK 1_1	652400/3786	100%	0.504	0.228	0.01	25.60	27.00	1.380	0.696	22.4
Left side	100	OFDM QPSK 1_1	654800/3822	100%	0.465	0.207	0.00	26.13	27.00	1.222	0.568	22.4
Left side	100	OFDM QPSK 1_271	659600/3894	100%	0.510	0.243	-0.02	26.52	27.00	1.117	0.570	22.4
Left side	100	OFDM QPSK 1_1	662000/3930	100%	0.459	0.211	0.02	26.62	27.00	1.091	0.501	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	100	OFDM QPSK 135_69	662000/3930	100%	0.352	0.161	0.10	26.75	27.00	1.059	0.373	22.4
Back side	100	OFDM QPSK 135_69	662000/3930	100%	0.553	0.260	0.01	26.78	27.00	1.052	0.582	22.4
Left side	100	OFDM QPSK 135_69	662000/3930	100%	0.556	0.247	0.10	26.78	27.00	1.052	0.585	22.4
Back side	100	OFDM QPSK 135_69	650000/3750	100%	0.664	0.292	-0.08	26.66	27.00	1.081	0.718	22.4
Back side	100	OFDM QPSK 135_69	652400/3786	100%	0.567	0.256	0.02	25.78	27.00	1.324	0.751	22.4
Back side	100	OFDM QPSK 135_69	654800/3822	100%	0.523	0.233	-0.09	26.20	27.00	1.202	0.629	22.4
Back side	100	OFDM QPSK 135_69	657200/3858	100%	0.574	0.273	0.13	26.69	27.00	1.074	0.616	22.4
Back side	100	OFDM QPSK 135_69	659600/3894	100%	0.517	0.238	0.11	26.71	27.00	1.069	0.553	22.4
Left side	100	OFDM QPSK 135_69	650000/3750	100%	0.584	0.257	-0.17	26.66	27.00	1.081	0.632	22.4
Left side	100	OFDM QPSK 135_69	652400/3786	100%	0.499	0.226	-0.12	25.78	27.00	1.324	0.661	22.4
Left side	100	OFDM QPSK 135_69	654800/3822	100%	0.460	0.205	0.04	26.20	27.00	1.202	0.553	22.4
Left side	100	OFDM QPSK 135_69	657200/3858	100%	0.505	0.241	0.04	26.69	27.00	1.074	0.542	22.4
Left side	100	OFDM QPSK 135_69	659600/3894	100%	0.488	0.207	0.05	26.71	27.00	1.069	0.522	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI0												
Front side	100	OFDM QPSK 270_0	662000/3930	100%	0.282	0.128	-0.15	25.49	26.00	1.125	0.317	22.4
Back side	100	OFDM QPSK 270_0	662000/3930	100%	0.442	0.207	0.01	25.49	26.00	1.125	0.497	22.4
Left side	100	OFDM QPSK 270_0	662000/3930	100%	0.445	0.191	0.11	25.49	26.00	1.125	0.500	22.4
Ant7 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	100	OFDM QPSK 1_137	657200/3858	100%	0.204	0.091	-0.17	17.92	19.00	1.282	0.262	22.1
Left tilted	100	OFDM QPSK 1_137	657200/3858	100%	0.141	0.062	0.00	17.92	19.00	1.282	0.181	22.1
Right cheek	100	OFDM QPSK 1_137	657200/3858	100%	0.583	0.222	-0.05	17.92	19.00	1.282	0.748	22.1
Right tilted	100	OFDM QPSK 1_137	657200/3858	100%	0.079	0.037	0.16	17.92	19.00	1.282	0.101	22.1
Right cheek	100	OFDM QPSK 1_271	650000/3750	100%	0.705	0.271	-0.03	17.65	19.00	1.365	0.962	22.1
Right cheek	100	OFDM QPSK 1_1	652400/3786	100%	0.805	0.287	0.06	17.33	19.00	1.469	1.182	22.1
Right cheek	100	OFDM QPSK 1_271	654800/3822	100%	0.629	0.240	-0.01	17.48	19.00	1.419	0.893	22.1
Right cheek	100	OFDM QPSK 1_137	659600/3894	100%	0.638	0.242	-0.06	17.92	19.00	1.282	0.818	22.1



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Right cheek	100	OFDM QPSK 1_1	662000/3930	100%	0.661	0.250	0.05	17.58	19.00	1.387	0.917	22.1
Head Test Data (50%RB) DSI4												
Left cheek	100	OFDM QPSK 135_69	657200/3858	100%	0.202	0.090	-0.05	18.31	19.00	1.172	0.237	22.1
Left tilted	100	OFDM QPSK 135_69	657200/3858	100%	0.140	0.061	-0.07	18.31	19.00	1.172	0.164	22.1
Right cheek	100	OFDM QPSK 135_69	657200/3858	100%	0.577	0.220	-0.02	18.31	19.00	1.172	0.676	22.1
Right tilted	100	OFDM QPSK 135_69	657200/3858	100%	0.078	0.037	0.08	18.31	19.00	1.172	0.091	22.1
Right cheek	100	OFDM QPSK 135_69	650000/3750	100%	0.698	0.268	-0.10	17.99	19.00	1.262	0.881	22.1
Right cheek	100	OFDM QPSK 135_69	652400/3786	100%	0.797	0.284	0.09	17.41	19.00	1.442	1.149	22.1
Right cheek	100	OFDM QPSK 135_69	654800/3822	100%	0.623	0.238	-0.13	17.74	19.00	1.337	0.833	22.1
Right cheek	100	OFDM QPSK 135_69	659600/3894	100%	0.632	0.240	0.12	18.04	19.00	1.247	0.788	22.1
Right cheek	100	OFDM QPSK 135_69	662000/3930	100%	0.654	0.248	0.16	18.00	19.00	1.259	0.823	22.1
Head Test Data (100%RB) DSI4												
Right cheek	100	OFDM QPSK 270_0	657200/3858	100%	0.633	0.221	0.14	16.94	18.00	1.276	0.808	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI6												
Front side	100	OFDM QPSK 1_137	657200/3858	100%	0.250	0.109	-0.19	18.88	20.00	1.294	0.324	
Back side	100	OFDM QPSK 1_137	657200/3858	100%	0.367	0.167	-0.06	18.88	20.00	1.294	0.475	22.4
Right side	100	OFDM QPSK 1_137	657200/3858	100%	0.530	0.223	0.18	18.88	20.00	1.294	0.686	22.4
Back side	100	OFDM QPSK 1_271	650000/3750	100%	0.372	0.168	0.07	18.69	20.00	1.352	0.503	22.4
Back side	100	OFDM QPSK 1_1	652400/3786	100%	0.401	0.182	0.02	18.32	20.00	1.472	0.590	22.4
Back side	100	OFDM QPSK 1_137	654800/3822	100%	0.395	0.167	-0.03	18.47	20.00	1.422	0.562	22.4
Back side	100	OFDM QPSK 1_137	659600/3894	100%	0.466	0.196	-0.04	18.60	20.00	1.380	0.643	22.4
Back side	100	OFDM QPSK 1_1	662000/3930	100%	0.428	0.181	0.01	18.60	20.00	1.380	0.591	22.4
Right side	100	OFDM QPSK 1_271	650000/3750	100%	0.532	0.234	0.02	18.69	20.00	1.352	0.719	22.4
Right side	100	OFDM QPSK 1_1	652400/3786	100%	0.667	0.291	-0.07	18.32	20.00	1.472	0.982	22.5
Right side	100	OFDM QPSK 1_271	654800/3822	100%	0.572	0.242	0.09	18.47	20.00	1.422	0.814	22.4
Right side	100	OFDM QPSK 1_137	659600/3894	100%	0.676	0.284	0.10	18.60	20.00	1.380	0.933	22.4
Right side	100	OFDM QPSK 1_1	662000/3930	100%	0.620	0.263	-0.10	18.60	20.00	1.380	0.856	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI6												
Front side	100	OFDM QPSK 135_69	657200/3858	100%	0.258	0.101	-0.14	19.27	20.00	1.183	0.305	22.4
Back side	100	OFDM QPSK 135_69	657200/3858	100%	0.363	0.165	0.04	19.27	20.00	1.183	0.429	22.4
Right side	100	OFDM QPSK 135_69	657200/3858	100%	0.538	0.227	-0.11	19.27	20.00	1.183	0.636	22.4
Back side	100	OFDM QPSK 135_69	650000/3750	100%	0.442	0.185	0.07	18.97	20.00	1.268	0.560	22.4
Back side	100	OFDM QPSK 135_69	652400/3786	100%	0.397	0.180	-0.08	18.42	20.00	1.439	0.571	22.4
Back side	100	OFDM QPSK 135_69	654800/3822	100%	0.485	0.207	-0.15	18.76	20.00	1.330	0.645	22.4
Back side	100	OFDM QPSK 135_69	659600/3894	100%	0.461	0.194	0.13	19.09	20.00	1.233	0.568	22.4
Back side	100	OFDM QPSK 135_69	662000/3930	100%	0.424	0.179	0.17	19.08	20.00	1.236	0.524	22.4
Right side	100	OFDM QPSK 135_69	650000/3750	100%	0.527	0.232	-0.14	18.97	20.00	1.268	0.668	22.4
Right side	100	OFDM QPSK 135_69	652400/3786	100%	0.660	0.288	-0.06	18.42	20.00	1.439	0.950	22.4
Right side	100	OFDM QPSK 135_69	654800/3822	100%	0.566	0.240	0.02	18.76	20.00	1.330	0.753	22.4
Right side	100	OFDM QPSK 135_69	659600/3894	100%	0.669	0.281	0.14	19.09	20.00	1.233	0.825	22.4
Right side	100	OFDM QPSK 135_69	662000/3930	100%	0.614	0.260	0.18	19.08	20.00	1.236	0.759	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI6												
Back side	100	OFDM QPSK 270_0	657200/3858	100%	0.206	0.081	0.01	17.96	19.00	1.271	0.262	22.4
Right side	100	OFDM QPSK 270_0	657200/3858	100%	0.295	0.131	-0.08	17.96	19.00	1.271	0.375	22.4



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	
Right cheek	650000/3750	1.120	1.110	1.01	N/A	N/A

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

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

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

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

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



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9.2.31 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record												
Ant9 Test Record chain1												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data Set4												
Left cheek	802.11b	1/2412	98.52%	1.015	0.667	0.345	-0.08	15.63	17.00	1.371	0.928	22.4
Left tilted	802.11b	1/2412	98.52%	1.015	0.400	0.198	-0.02	15.63	17.00	1.371	0.557	22.4
Right cheek	802.11b	1/2412	98.52%	1.015	0.261	0.160	-0.04	15.63	17.00	1.371	0.363	22.4
Right tilted	802.11b	1/2412	98.52%	1.015	0.188	0.110	0.10	15.63	17.00	1.371	0.262	22.4
Left cheek	802.11b	6/2437	98.52%	1.015	0.682	0.349	0.02	15.47	17.00	1.422	0.985	22.4
Left cheek	802.11b	11/2462	98.52%	1.015	0.562	0.286	-0.07	15.08	16.00	1.236	0.705	22.4
Head Test Data Set5												
Left cheek	802.11b	1/2412	98.52%	1.015	0.667	0.345	-0.08	15.63	14.00	0.687	0.465	22.4
Left tilted	802.11b	1/2412	98.52%	1.015	0.400	0.198	-0.02	15.63	14.00	0.687	0.279	22.4
Right cheek	802.11b	1/2412	98.52%	1.015	0.261	0.160	-0.04	15.63	14.00	0.687	0.182	22.4
Right tilted	802.11b	1/2412	98.52%	1.015	0.188	0.110	0.10	15.63	14.00	0.687	0.131	22.4
Left cheek	802.11b	6/2437	98.52%	1.015	0.682	0.349	0.02	15.47	14.00	0.713	0.493	22.4
Left cheek	802.11b	11/2462	98.52%	1.015	0.562	0.286	-0.07	15.08	13.00	0.619	0.353	22.4
Body worn&Hotspot Test data (Separate 10mm) Set6												
Front side	802.11b	1/2412	98.52%	1.015	0.220	0.117	0.10	17.11	18.50	1.377	0.308	22.4
Back side	802.11b	1/2412	98.52%	1.015	0.174	0.088	-0.11	17.11	18.50	1.377	0.243	22.4
Right side	802.11b	1/2412	98.52%	1.015	0.151	0.081	0.18	17.11	18.50	1.377	0.211	22.4
Top side	802.11b	1/2412	98.52%	1.015	0.138	0.070	0.07	17.11	18.50	1.377	0.193	22.4
Body worn&Hotspot Test data (Separate 10mm) Set6												
Front side	802.11b	1/2412	98.52%	1.015	0.220	0.117	0.10	17.11	16.00	0.774	0.173	22.4
Back side	802.11b	1/2412	98.52%	1.015	0.174	0.088	-0.11	17.11	16.00	0.774	0.137	22.4
Right side	802.11b	1/2412	98.52%	1.015	0.151	0.081	0.18	17.11	16.00	0.774	0.119	22.4
Top side	802.11b	1/2412	98.52%	1.015	0.138	0.070	0.07	17.11	16.00	0.774	0.108	22.4
Ant10 Test Record chain2												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data Set4												
Left cheek	802.11b	1/2412	98.52%	1.015	0.077	0.034	-0.06	16.60	17.50	1.230	0.096	22.4
Left tilted	802.11b	1/2412	98.52%	1.015	0.045	0.021	-0.09	16.60	17.50	1.230	0.056	22.4
Right cheek	802.11b	1/2412	98.52%	1.015	0.015	0.010	0.12	16.60	17.50	1.230	0.019	22.4
Right tilted	802.11b	1/2412	98.52%	1.015	0.011	0.005	-0.18	16.60	17.50	1.230	0.014	22.4
Head Test Data Set5												
Left cheek	802.11b	1/2412	98.52%	1.015	0.077	0.034	-0.06	16.60	14.50	0.617	0.048	22.4
Left tilted	802.11b	1/2412	98.52%	1.015	0.045	0.021	-0.09	16.60	14.50	0.617	0.028	22.4
Right cheek	802.11b	1/2412	98.52%	1.015	0.015	0.010	0.12	16.60	14.50	0.617	0.009	22.4



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Right tilted	802.11b	1/2412	98.52%	1.015	0.011	0.005	-0.18	16.60	14.50	0.617	0.007	22.4
Body worn&Hotspot Test data (Separate 10mm) Set6												
Front side	802.11b	1/2412	98.52%	1.015	0.021	0.012	0.13	18.13	19.00	1.222	0.026	22.4
Back side	802.11b	1/2412	98.52%	1.015	0.251	0.115	-0.13	18.13	19.00	1.222	0.311	22.4
Right side	802.11b	1/2412	98.52%	1.015	0.146	0.070	-0.12	18.13	19.00	1.222	0.181	22.4
Top side	802.11b	1/2412	98.52%	1.015	0.012	0.005	-0.19	18.13	19.00	1.222	0.015	22.4
Body worn&Hotspot Test data (Separate 10mm) Set6												
Front side	802.11b	1/2412	98.52%	1.015	0.021	0.012	0.13	18.13	16.50	0.687	0.015	22.4
Back side	802.11b	1/2412	98.52%	1.015	0.251	0.115	-0.13	18.13	16.50	0.687	0.175	22.4
Right side	802.11b	1/2412	98.52%	1.015	0.146	0.070	-0.12	18.13	16.50	0.687	0.102	22.4
Top side	802.11b	1/2412	98.52%	1.015	0.012	0.005	-0.19	18.13	16.50	0.687	0.008	22.4
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data Set4												
Left cheek	802.11b	1/2412	98.52%	1.015	0.687	0.358	0.17	19.09	20.00	1.233	0.860	22.4
Left tilted	802.11b	1/2412	98.52%	1.015	0.495	0.243	0.00	19.09	20.00	1.233	0.620	22.4
Right cheek	802.11b	1/2412	98.52%	1.015	0.312	0.192	0.09	19.09	20.00	1.233	0.391	22.4
Right tilted	802.11b	1/2412	98.52%	1.015	0.224	0.129	0.17	19.09	20.00	1.233	0.280	22.4
Left cheek	802.11b	6/2437	98.52%	1.015	0.794	0.405	0.03	18.69	20.00	1.353	1.090	22.4
Left cheek	802.11b	11/2462	98.52%	1.015	0.627	0.319	0.14	17.91	19.00	1.285	0.818	22.4
Head Test Data Set5												
Left cheek	802.11b	1/2412	98.52%	1.015	0.687	0.358	0.17	19.09	17.00	0.618	0.431	22.4
Left tilted	802.11b	1/2412	98.52%	1.015	0.495	0.243	0.00	19.09	17.00	0.618	0.311	22.4
Right cheek	802.11b	1/2412	98.52%	1.015	0.312	0.192	0.09	19.09	17.00	0.618	0.196	22.4
Right tilted	802.11b	1/2412	98.52%	1.015	0.224	0.129	0.17	19.09	17.00	0.618	0.141	22.4
Left cheek	802.11b	6/2437	98.52%	1.015	0.794	0.405	0.03	18.69	17.00	0.678	0.547	22.4
Left cheek	802.11b	11/2462	98.52%	1.015	0.627	0.319	0.14	17.91	16.00	0.644	0.410	22.4
Body worn&Hotspot Test data (Separate 10mm) Set6												
Front side	802.11b	1/2412	98.52%	1.015	0.260	0.142	-0.15	20.66	21.50	1.213	0.320	22.4
Back side	802.11b	1/2412	98.52%	1.015	0.691	0.328	-0.08	20.66	21.50	1.213	0.851	22.4
Right side	802.11b	1/2412	98.52%	1.015	0.474	0.238	0.09	20.66	21.50	1.213	0.584	22.4
Top side	802.11b	1/2412	98.52%	1.015	0.129	0.068	-0.02	20.66	21.50	1.213	0.159	22.4
Back side	802.11b	6/2437	98.52%	1.015	0.774	0.375	0.02	20.31	21.50	1.315	1.033	22.4
Back side	802.11b	11/2462	98.52%	1.015	0.505	0.242	-0.07	19.53	20.50	1.252	0.642	22.4
Body worn&Hotspot Test data (Separate 10mm) Set6												
Front side	802.11b	1/2412	98.52%	1.015	0.260	0.142	-0.15	20.66	19.00	0.682	0.180	22.4
Back side	802.11b	1/2412	98.52%	1.015	0.691	0.328	-0.08	20.66	19.00	0.682	0.479	22.4
Right side	802.11b	1/2412	98.52%	1.015	0.474	0.238	0.09	20.66	19.00	0.682	0.328	22.4
Top side	802.11b	1/2412	98.52%	1.015	0.129	0.068	-0.02	20.66	19.00	0.682	0.089	22.4
Back side	802.11b	6/2437	98.52%	1.015	0.774	0.375	0.02	20.31	19.00	0.740	0.581	22.4
Back side	802.11b	11/2462	98.52%	1.015	0.505	0.242	-0.07	19.53	18.00	0.704	0.361	22.4



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9.2.32 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record												
Ant9 Test Record chain1												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data of U-NII-2A Set4												
Left cheek	802.11n 40M	54/5270	99.71%	1.003	0.201	0.066	0.07	17.04	18.00	1.247	0.251	22.4
Left tilted	802.11n 40M	54/5270	99.71%	1.003	0.199	0.065	0.18	17.04	18.00	1.247	0.249	22.4
Right cheek	802.11n 40M	54/5270	99.71%	1.003	0.099	0.031	0.07	17.04	18.00	1.247	0.124	22.4
Right tilted	802.11n 40M	54/5270	99.71%	1.003	0.110	0.038	-0.04	17.04	18.00	1.247	0.138	22.4
Head Test Data of U-NII-2C Set4												
Left cheek	802.11ac 80M	138/5690	99.69%	1.003	0.345	0.117	0.14	18.56	19.00	1.107	0.383	22.4
Left tilted	802.11ac 80M	138/5690	99.69%	1.003	0.231	0.079	-0.11	18.56	19.00	1.107	0.256	22.4
Right cheek	802.11ac 80M	138/5690	99.69%	1.003	0.152	0.053	-0.01	18.56	19.00	1.107	0.169	22.4
Right tilted	802.11ac 80M	138/5690	99.69%	1.003	0.146	0.049	0.18	18.56	19.00	1.107	0.162	22.4
Head Test Data of U-NII-3 Set4												
Left cheek	802.11ac 80M	155/5775	99.69%	1.003	0.316	0.110	-0.15	18.31	19.00	1.172	0.372	22.4
Left tilted	802.11ac 80M	155/5775	99.69%	1.003	0.229	0.078	-0.05	18.31	19.00	1.172	0.269	22.4
Right cheek	802.11ac 80M	155/5775	99.69%	1.003	0.125	0.044	-0.17	18.31	19.00	1.172	0.147	22.4
Right tilted	802.11ac 80M	155/5775	99.69%	1.003	0.119	0.041	-0.12	18.31	19.00	1.172	0.140	22.4
Head Test Data of U-NII-2A Set5												
Left cheek	802.11n 40M	54/5270	99.71%	1.003	0.201	0.066	0.07	17.04	14.00	0.497	0.100	22.4
Left tilted	802.11n 40M	54/5270	99.71%	1.003	0.199	0.065	0.18	17.04	14.00	0.497	0.099	22.4
Right cheek	802.11n 40M	54/5270	99.71%	1.003	0.099	0.031	0.07	17.04	14.00	0.497	0.049	22.4
Right tilted	802.11n 40M	54/5270	99.71%	1.003	0.110	0.038	-0.04	17.04	14.00	0.497	0.055	22.4
Head Test Data of U-NII-2C Set5												
Left cheek	802.11ac 80M	138/5690	99.69%	1.003	0.345	0.117	0.14	18.56	15.00	0.441	0.152	22.4
Left tilted	802.11ac 80M	138/5690	99.69%	1.003	0.231	0.079	-0.11	18.56	15.00	0.441	0.102	22.4
Right cheek	802.11ac 80M	138/5690	99.69%	1.003	0.152	0.053	-0.01	18.56	15.00	0.441	0.067	22.4
Right tilted	802.11ac 80M	138/5690	99.69%	1.003	0.146	0.049	0.18	18.56	15.00	0.441	0.065	22.4
Head Test Data of U-NII-3 Set5												
Left cheek	802.11ac 80M	155/5775	99.69%	1.003	0.316	0.110	-0.15	18.31	15.00	0.467	0.148	22.4
Left tilted	802.11ac 80M	155/5775	99.69%	1.003	0.229	0.078	-0.05	18.31	15.00	0.467	0.107	22.4
Right cheek	802.11ac 80M	155/5775	99.69%	1.003	0.125	0.044	-0.17	18.31	15.00	0.467	0.059	22.4
Right tilted	802.11ac 80M	155/5775	99.69%	1.003	0.119	0.041	-0.12	18.31	15.00	0.467	0.056	22.4
Body worn Test data of U-NII-2A (Separate 10mm) Set6												
Front side	802.11n 40M	54/5270	99.71%	1.003	0.063	0.015	0.08	17.04	18.00	1.247	0.079	22.3
Back side	802.11n 40M	54/5270	99.71%	1.003	0.076	0.029	0.17	17.04	18.00	1.247	0.095	22.3
Body worn Test data of U-NII-2C (Separate 10mm) Set6												
Front side	802.11ac 80M	138/5690	99.69%	1.003	0.097	0.037	0.17	18.56	19.00	1.107	0.108	22.3
Back side	802.11ac 80M	138/5690	99.69%	1.003	0.100	0.037	0.06	18.56	19.00	1.107	0.111	22.3
Body worn&Hotspot Test data of U-NII-1 (Separate 10mm) Set6												
Front side	802.11n 40M	46/5230	99.71%	1.003	0.069	0.014	-0.15	17.27	18.00	1.183	0.082	22.3



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Back side	802.11n 40M	46/5230	99.71%	1.003	0.087	0.032	0.11	17.27	18.00	1.183	0.103	22.3
Right side	802.11n 40M	46/5230	99.71%	1.003	0.064	0.025	0.03	17.27	18.00	1.183	0.076	22.3
Top side	802.11n 40M	46/5230	99.71%	1.003	0.076	0.030	0.16	17.27	18.00	1.183	0.090	22.3
Body worn&Hotspot Test data of U-NII-3 (Separate 10mm) Set6												
Front side	802.11ac 80M	155/5775	99.69%	1.003	0.085	0.034	-0.05	18.31	19.00	1.172	0.100	22.3
Back side	802.11ac 80M	155/5775	99.69%	1.003	0.099	0.036	-0.16	18.31	19.00	1.172	0.116	22.3
Right side	802.11ac 80M	155/5775	99.69%	1.003	0.127	0.051	-0.10	18.31	19.00	1.172	0.149	22.3
Top side	802.11ac 80M	155/5775	99.69%	1.003	0.092	0.035	0.13	18.31	19.00	1.172	0.108	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm) Set6												
Front side	802.11n 40M	54/5270	99.71%	1.003	0.445	0.125	0.12	17.04	18.00	1.247	0.156	22.3
Back side	802.11n 40M	54/5270	99.71%	1.003	0.374	0.110	-0.11	17.04	18.00	1.247	0.138	22.3
Right side	802.11n 40M	54/5270	99.71%	1.003	0.349	0.103	-0.08	17.04	18.00	1.247	0.129	22.3
Top side	802.11n 40M	54/5270	99.71%	1.003	0.632	0.153	-0.06	17.04	18.00	1.247	0.191	22.3
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) Set6												
Front side	802.11ac 80M	138/5690	99.69%	1.003	0.601	0.199	-0.11	18.56	19.00	1.107	0.221	22.3
Back side	802.11ac 80M	138/5690	99.69%	1.003	0.430	0.140	0.19	18.56	19.00	1.107	0.155	22.3
Right side	802.11ac 80M	138/5690	99.69%	1.003	0.818	0.265	-0.13	18.56	19.00	1.107	0.294	22.3
Top side	802.11ac 80M	138/5690	99.69%	1.003	0.260	0.094	-0.03	18.56	19.00	1.107	0.104	22.3
Ant10 Test Record chain2												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A Set4												
Left cheek	802.11a	64/5320	99.29%	1.007	0.082	0.028	-0.17	18.01	19.00	1.256	0.104	22.4
Left tilted	802.11a	64/5320	99.29%	1.007	0.072	0.016	-0.18	18.01	19.00	1.256	0.091	22.4
Right cheek	802.11a	64/5320	99.29%	1.007	0.045	0.015	0.05	18.01	19.00	1.256	0.057	22.4
Right tilted	802.11a	64/5320	99.29%	1.007	0.040	0.009	0.14	18.01	19.00	1.256	0.051	22.4
Head Test Data of U-NII-2C Set4												
Left cheek	802.11a	140/5700	99.29%	1.007	0.044	0.011	0.12	18.47	19.00	1.130	0.050	22.4
Left tilted	802.11a	140/5700	99.29%	1.007	0.110	0.025	0.08	18.47	19.00	1.130	0.125	22.4
Right cheek	802.11a	140/5700	99.29%	1.007	0.044	0.010	-0.09	18.47	19.00	1.130	0.050	22.4
Right tilted	802.11a	140/5700	99.29%	1.007	0.050	0.012	-0.18	18.47	19.00	1.130	0.057	22.4
Head Test Data of U-NII-3 Set4												
Left cheek	802.11a	149/5745	99.29%	1.007	0.102	0.024	-0.03	18.36	19.00	1.159	0.119	22.4
Left tilted	802.11a	149/5745	99.29%	1.007	0.059	0.017	-0.16	18.36	19.00	1.159	0.069	22.4
Right cheek	802.11a	149/5745	99.29%	1.007	0.052	0.010	0.19	18.36	19.00	1.159	0.061	22.4
Right tilted	802.11a	149/5745	99.29%	1.007	0.043	0.014	-0.14	18.36	19.00	1.159	0.050	22.4
Head Test Data of U-NII-2A Set5												
Left cheek	802.11a	64/5320	99.29%	1.007	0.082	0.028	-0.17	18.01	15.00	0.500	0.041	22.4
Left tilted	802.11a	64/5320	99.29%	1.007	0.072	0.016	-0.18	18.01	15.00	0.500	0.036	22.4
Right cheek	802.11a	64/5320	99.29%	1.007	0.045	0.015	0.05	18.01	15.00	0.500	0.023	22.4
Right tilted	802.11a	64/5320	99.29%	1.007	0.040	0.009	0.14	18.01	15.00	0.500	0.020	22.4



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Head Test Data of U-NII-2C Set5												
Left cheek	802.11a	140/5700	99.29%	1.007	0.044	0.011	0.12	18.47	15.00	0.450	0.020	22.4
Left tilted	802.11a	140/5700	99.29%	1.007	0.110	0.025	0.08	18.47	15.00	0.450	0.050	22.4
Right cheek	802.11a	140/5700	99.29%	1.007	0.044	0.010	-0.09	18.47	15.00	0.450	0.020	22.4
Right tilted	802.11a	140/5700	99.29%	1.007	0.050	0.012	-0.18	18.47	15.00	0.450	0.023	22.4
Head Test Data of U-NII-3 Set5												
Left cheek	802.11a	149/5745	99.29%	1.007	0.102	0.024	-0.03	18.36	15.00	0.461	0.047	22.4
Left tilted	802.11a	149/5745	99.29%	1.007	0.059	0.017	-0.16	18.36	15.00	0.461	0.027	22.4
Right cheek	802.11a	149/5745	99.29%	1.007	0.052	0.010	0.19	18.36	15.00	0.461	0.024	22.4
Right tilted	802.11a	149/5745	99.29%	1.007	0.043	0.014	-0.14	18.36	15.00	0.461	0.020	22.4
Body worn Test data of U-NII-2A (Separate 10mm) Set6												
Front side	802.11a	64/5320	99.29%	1.007	0.056	0.015	0.16	18.01	19.00	1.256	0.071	22.3
Back side	802.11a	64/5320	99.29%	1.007	0.226	0.073	-0.08	18.01	19.00	1.256	0.286	22.3
Body worn Test data of U-NII-2C (Separate 10mm) Set6												
Front side	802.11a	140/5700	99.29%	1.007	0.079	0.020	-0.16	18.47	19.00	1.130	0.090	22.3
Back side	802.11a	140/5700	99.29%	1.007	0.221	0.075	0.18	18.47	19.00	1.130	0.251	22.3
Body worn&Hotspot Test data of U-NII-1 (Separate 10mm) Set6												
Front side	802.11a	40/5200	99.29%	1.007	0.070	0.018	-0.04	18.36	19.00	1.159	0.082	22.3
Back side	802.11a	40/5200	99.29%	1.007	0.206	0.076	-0.19	18.36	19.00	1.159	0.240	22.3
Right side	802.11a	40/5200	99.29%	1.007	0.177	0.070	0.00	18.36	19.00	1.159	0.207	22.3
Top side	802.11a	40/5200	99.29%	1.007	0.070	0.021	0.13	18.36	19.00	1.159	0.082	22.3
Body worn&Hotspot Test data of U-NII-3 (Separate 10mm) Set6												
Front side	802.11a	149/5745	99.29%	1.007	0.078	0.016	0.08	18.36	19.00	1.159	0.091	22.3
Back side	802.11a	149/5745	99.29%	1.007	0.224	0.081	0.19	18.36	19.00	1.159	0.261	22.3
Right side	802.11a	149/5745	99.29%	1.007	0.126	0.048	-0.17	18.36	19.00	1.159	0.147	22.3
Top side	802.11a	149/5745	99.29%	1.007	0.061	0.021	-0.18	18.36	19.00	1.159	0.071	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm) Set6												
Front side	802.11a	64/5320	99.29%	1.007	0.129	0.051	0.12	18.01	19.00	1.256	0.065	22.3
Back side	802.11a	64/5320	99.29%	1.007	1.260	0.317	0.16	18.01	19.00	1.256	0.401	22.3
Right side	802.11a	64/5320	99.29%	1.007	0.470	0.172	0.12	18.01	19.00	1.256	0.218	22.3
Top side	802.11a	64/5320	99.29%	1.007	0.156	0.360	-0.05	18.01	19.00	1.256	0.455	22.3
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) Set6												
Front side	802.11a	140/5700	99.29%	1.007	0.077	0.020	-0.01	18.47	19.00	1.130	0.023	22.3
Back side	802.11a	140/5700	99.29%	1.007	0.591	0.193	-0.10	18.47	19.00	1.130	0.220	22.3
Right side	802.11a	140/5700	99.29%	1.007	0.357	0.110	0.00	18.47	19.00	1.130	0.125	22.3
Top side	802.11a	140/5700	99.29%	1.007	0.083	0.017	-0.05	18.47	19.00	1.130	0.019	22.3



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MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A Set4												
Left cheek	802.11a	64/5320	99.29%	1.007	0.279	0.096	-0.08	20.82	22.00	1.312	0.369	22.4
Left tilted	802.11a	64/5320	99.29%	1.007	0.228	0.078	-0.17	20.82	22.00	1.312	0.301	22.4
Right cheek	802.11a	64/5320	99.29%	1.007	0.122	0.040	-0.18	20.82	22.00	1.312	0.161	22.4
Right tilted	802.11a	64/5320	99.29%	1.007	0.117	0.040	0.10	20.82	22.00	1.312	0.155	22.4
Head Test Data of U-NII-2C Set4												
Left cheek	802.11ac 80M	138/5690	99.69%	1.003	0.539	0.148	-0.06	21.19	22.00	1.205	0.652	22.4
Left tilted	802.11ac 80M	138/5690	99.69%	1.003	0.304	0.105	0.01	21.19	22.00	1.205	0.367	22.4
Right cheek	802.11ac 80M	138/5690	99.69%	1.003	0.195	0.069	0.09	21.19	22.00	1.205	0.236	22.4
Right tilted	802.11ac 80M	138/5690	99.69%	1.003	0.205	0.070	0.16	21.19	22.00	1.205	0.248	22.4
Head Test Data of U-NII-3 Set4												
Left cheek	802.11ac 80M	155/5775	99.69%	1.003	0.345	0.124	-0.16	20.97	22.00	1.268	0.439	22.4
Left tilted	802.11ac 80M	155/5775	99.69%	1.003	0.323	0.115	0.18	20.97	22.00	1.268	0.411	22.4
Right cheek	802.11ac 80M	155/5775	99.69%	1.003	0.190	0.068	-0.02	20.97	22.00	1.268	0.242	22.4
Right tilted	802.11ac 80M	155/5775	99.69%	1.003	0.166	0.058	-0.18	20.97	22.00	1.268	0.211	22.4
Head Test Data of U-NII-2A Set5												
Left cheek	802.11a	64/5320	99.29%	1.007	0.279	0.096	-0.08	20.82	18.00	0.522	0.147	22.4
Left tilted	802.11a	64/5320	99.29%	1.007	0.228	0.078	-0.17	20.82	18.00	0.522	0.120	22.4
Right cheek	802.11a	64/5320	99.29%	1.007	0.122	0.040	-0.18	20.82	18.00	0.522	0.064	22.4
Right tilted	802.11a	64/5320	99.29%	1.007	0.117	0.040	0.10	20.82	18.00	0.522	0.062	22.4
Head Test Data of U-NII-2C Set5												
Left cheek	802.11ac 80M	138/5690	99.69%	1.003	0.539	0.148	-0.06	21.19	18.00	0.480	0.259	22.4
Left tilted	802.11ac 80M	138/5690	99.69%	1.003	0.304	0.105	0.01	21.19	18.00	0.480	0.146	22.4
Right cheek	802.11ac 80M	138/5690	99.69%	1.003	0.195	0.069	0.09	21.19	18.00	0.480	0.094	22.4
Right tilted	802.11ac 80M	138/5690	99.69%	1.003	0.205	0.070	0.16	21.19	18.00	0.480	0.099	22.4
Head Test Data of U-NII-3 Set5												
Left cheek	802.11ac 80M	155/5775	99.69%	1.003	0.345	0.124	-0.16	20.97	18.00	0.505	0.175	22.4
Left tilted	802.11ac 80M	155/5775	99.69%	1.003	0.323	0.115	0.18	20.97	18.00	0.505	0.164	22.4
Right cheek	802.11ac 80M	155/5775	99.69%	1.003	0.190	0.068	-0.02	20.97	18.00	0.505	0.096	22.4
Right tilted	802.11ac 80M	155/5775	99.69%	1.003	0.166	0.058	-0.18	20.97	18.00	0.505	0.084	22.4
Body worn Test data of U-NII-2A (Separate 10mm) Set6												
Front side	802.11a	64/5320	99.29%	1.007	0.065	0.026	0.02	20.82	22.00	1.312	0.086	22.3
Back side	802.11a	64/5320	99.29%	1.007	0.212	0.081	0.16	20.82	22.00	1.312	0.280	22.3
Body worn Test data of U-NII-2C (Separate 10mm) Set6												
Front side	802.11ac 80M	138/5690	99.69%	1.003	0.140	0.056	0.19	21.19	22.00	1.205	0.169	22.3
Back side	802.11ac 80M	138/5690	99.69%	1.003	0.333	0.094	-0.04	21.19	22.00	1.205	0.403	22.3
Body worn&Hotspot Test data of U-NII-1 (Separate 10mm) Set6												
Front side	802.11a	40/5200	99.29%	1.007	0.083	0.031	0.06	20.74	22.00	1.337	0.112	22.3
Back side	802.11a	40/5200	99.29%	1.007	0.292	0.107	-0.19	20.74	22.00	1.337	0.393	22.3
Right side	802.11a	40/5200	99.29%	1.007	0.201	0.077	-0.04	20.74	22.00	1.337	0.271	22.3
Top side	802.11a	40/5200	99.29%	1.007	0.094	0.038	-0.06	20.74	22.00	1.337	0.127	22.3



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Body worn&Hotspot Test data of U-NII-3 (Separate 10mm) Set6												
Front side	802.11ac 80M	155/5775	99.69%	1.003	0.123	0.047	0.01	20.97	22.00	1.268	0.156	22.3
Back side	802.11ac 80M	155/5775	99.69%	1.003	0.295	0.085	0.05	20.97	22.00	1.268	0.375	22.3
Right side	802.11ac 80M	155/5775	99.69%	1.003	0.232	0.096	-0.10	20.97	22.00	1.268	0.295	22.3
Top side	802.11ac 80M	155/5775	99.69%	1.003	0.147	0.051	-0.18	20.97	22.00	1.268	0.187	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm) Set6												
Front side	802.11a	64/5320	99.29%	1.007	0.490	0.156	-0.10	20.82	22.00	1.312	0.206	22.3
Back side	802.11a	64/5320	99.29%	1.007	1.210	0.354	0.07	20.82	22.00	1.312	0.468	22.3
Right side	802.11a	64/5320	99.29%	1.007	0.693	0.244	0.16	20.82	22.00	1.312	0.322	22.3
Top side	802.11a	64/5320	99.29%	1.007	0.554	0.147	0.13	20.82	22.00	1.312	0.194	22.3
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) Set6												
Front side	802.11ac 80M	138/5690	99.69%	1.003	0.901	0.283	0.19	21.19	22.00	1.205	0.342	22.3
Back side	802.11ac 80M	138/5690	99.69%	1.003	1.640	0.437	0.11	21.19	22.00	1.205	0.528	22.3
Right side	802.11ac 80M	138/5690	99.69%	1.003	1.640	0.473	0.09	21.19	22.00	1.205	0.572	22.3
Top side	802.11ac 80M	138/5690	99.69%	1.003	0.584	0.163	-0.06	21.19	22.00	1.205	0.197	22.3



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9.2.33 SAR Result of WIFI 6E

Wi-Fi 6E SAR Test Record														
Ant9 Test Record Chain0														
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	APD W/m² (4cm²)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head Test Data Set4 chain1														
Left cheek	802.11ax 160M	143/6665	99.71%	1.003	0.123	0.025	-0.12	0.298	15.57	16.00	1.104	0.136	22.4	
Left tilted	802.11ax 160M	143/6665	99.71%	1.003	0.074	0.032	-0.06	0.179	15.57	16.00	1.104	0.082	22.4	
Right cheek	802.11ax 160M	143/6665	99.71%	1.003	0.060	0.023	0.19	0.145	15.57	16.00	1.104	0.066	22.4	
Right tilted	802.11ax 160M	143/6665	99.71%	1.003	0.060	0.023	-0.13	0.145	15.57	16.00	1.104	0.066	22.4	
Body worn Test data of (Separate 10mm) Set0														
Front side	802.11ax 160M	143/6665	99.71%	1.003	0.030	0.006	-0.03	0.600	14.09	14.50	1.099	0.033	22.3	
Back side	802.11ax 160M	143/6665	99.71%	1.003	0.034	0.010	0.06	0.680	14.09	14.50	1.099	0.037	22.3	
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	APD W/m² (4cm²)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)	
Product specific 10gSAR Test data of (Separate 0mm) Set0														
Front side	802.11ax 160M	143/6665	99.71%	1.003	0.283	0.092	-0.18	1.980	14.09	14.50	1.099	0.101	22.3	
Back side	802.11ax 160M	143/6665	99.71%	1.003	0.242	0.072	-0.12	1.640	14.09	14.50	1.099	0.079	22.3	
Right side	802.11ax 160M	143/6665	99.71%	1.003	0.385	0.122	-0.01	2.690	14.09	14.50	1.099	0.134	22.3	
Top side	802.11ax 160M	143/6665	99.71%	1.003	0.238	0.073	0.05	1.670	14.09	14.50	1.099	0.080	22.3	
Ant10 Test Record chain2														
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	APD W/m² (4cm²)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head Test Data Set4														
Left cheek	802.11ax 160M	143/6665	99.71%	1.003	0.141	0.029	0.05	0.341	15.31	16.00	1.172	0.166	22.4	
Left tilted	802.11ax 160M	143/6665	99.71%	1.003	0.168	0.037	-0.01	0.407	15.31	16.00	1.172	0.198	22.4	
Right cheek	802.11ax 160M	143/6665	99.71%	1.003	0.033	0.010	0.00	0.080	15.31	16.00	1.172	0.039	22.4	
Right tilted	802.11ax 160M	143/6665	99.71%	1.003	0.044	0.011	0.15	0.106	15.31	16.00	1.172	0.052	22.4	
Body worn Test data of (Separate 10mm) Set0														
Front side	802.11ax 160M	143/6665	99.71%	1.003	0.033	0.009	0.04	0.660	13.83	14.50	1.167	0.039	22.3	
Back side	802.11ax 160M	143/6665	99.71%	1.003	0.068	0.022	-0.08	1.510	13.83	14.50	1.167	0.080	22.3	
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	APD W/m² (4cm²)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)	
Product specific 10gSAR Test data of (Separate 0mm) Set0														
Front side	802.11ax 160M	143/6665	99.71%	1.003	0.091	0.030	0.08	0.751	13.83	14.50	1.167	0.035	22.3	
Back side	802.11ax 160M	143/6665	99.71%	1.003	0.413	0.141	0.17	2.890	13.83	14.50	1.167	0.165	22.3	
Right side	802.11ax 160M	143/6665	99.71%	1.003	0.577	0.167	-0.07	4.060	13.83	14.50	1.167	0.195	22.3	
Top side	802.11ax 160M	143/6665	99.71%	1.003	0.059	0.016	0.17	0.430	13.83	14.50	1.167	0.019	22.3	



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MIMO Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	APD W/m ² (4cm ²)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data Set4													
Left cheek	802.11ax 160M	143/6665	99.71%	1.003	0.198	0.067	-0.08	0.481	18.45	19.00	1.135	0.225	22.4
Left tilted	802.11ax 160M	143/6665	99.71%	1.003	0.120	0.045	0.09	0.290	18.45	19.00	1.135	0.137	22.4
Right cheek	802.11ax 160M	143/6665	99.71%	1.003	0.087	0.034	0.14	0.211	18.45	19.00	1.135	0.099	22.4
Right tilted	802.11ax 160M	143/6665	99.71%	1.003	0.061	0.022	0.08	0.148	18.45	19.00	1.135	0.069	22.4
Body worn Test data of (Separate 10mm) Set0													
Front side	802.11ax 160M	143/6665	99.71%	1.003	0.035	0.009	-0.07	0.700	17.21	17.50	1.069	0.038	22.3
Back side	802.11ax 160M	143/6665	99.71%	1.003	0.057	0.022	0.09	1.140	17.21	17.50	1.069	0.061	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	APD W/m ² (4cm ²)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of (Separate 0mm) Set0													
Front side	802.11ax 160M	143/6665	99.71%	1.003	0.394	0.122	-0.09	2.760	17.21	17.50	1.069	0.131	22.3
Back side	802.11ax 160M	143/6665	99.71%	1.003	0.520	0.175	0.12	3.680	17.21	17.50	1.069	0.188	22.3
Right side	802.11ax 160M	143/6665	99.71%	1.003	0.614	0.197	0.02	4.460	17.21	17.50	1.069	0.211	22.4
Top side	802.11ax 160M	143/6665	99.71%	1.003	0.210	0.068	0.07	1.470	17.21	17.50	1.069	0.073	22.3



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9.2.34 SAR Result of BT

Bluetooth SAR Test Record												
Ant9 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	DH5	39/2441	76.97%	1.299	0.219	0.112	0.09	12.12	13.00	1.225	0.348	22.4
Left tilted	DH5	39/2441	76.97%	1.299	0.166	0.081	-0.18	12.12	13.00	1.225	0.264	22.4
Right cheek	DH5	39/2441	76.97%	1.299	0.107	0.065	0.15	12.12	13.00	1.225	0.170	22.4
Right tilted	DH5	39/2441	76.97%	1.299	0.074	0.043	-0.11	12.12	13.00	1.225	0.118	22.4
Right cheek	DH5	0/2402	76.97%	1.299	0.182	0.095	-0.07	11.53	13.00	1.403	0.332	22.4
Right cheek	DH5	78/2480	76.97%	1.299	0.158	0.075	-0.02	11.15	13.00	1.531	0.314	22.4
Body worn&Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	76.97%	1.299	0.053	0.029	0.12	12.12	13.00	1.225	0.084	22.3
Back side	DH5	39/2441	76.97%	1.299	0.021	0.011	0.08	12.12	13.00	1.225	0.033	22.3
Right side	DH5	39/2441	76.97%	1.299	0.040	0.021	0.03	12.12	13.00	1.225	0.064	22.3
Top side	DH5	39/2441	76.97%	1.299	0.015	0.006	0.14	12.12	13.00	1.225	0.024	22.3
Front side	DH5	0/2402	76.97%	1.299	0.044	0.023	-0.14	11.53	13.00	1.403	0.080	22.3
Front side	DH5	78/2480	76.97%	1.299	0.038	0.018	-0.03	11.15	13.00	1.531	0.076	22.3
Ant10 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	DH5	39/2441	76.97%	1.299	0.261	0.133	0.16	13.95	14.00	1.012	0.343	22.4
Left tilted	DH5	39/2441	76.97%	1.299	0.167	0.082	-0.05	13.95	14.00	1.012	0.219	22.4
Right cheek	DH5	39/2441	76.97%	1.299	0.096	0.059	-0.04	13.95	14.00	1.012	0.126	22.4
Right tilted	DH5	39/2441	76.97%	1.299	0.068	0.039	-0.13	13.95	14.00	1.012	0.089	22.4
Right cheek	DH5	0/2402	76.97%	1.299	0.235	0.125	-0.11	13.70	14.00	1.072	0.327	22.4
Right tilted	DH5	78/2480	76.97%	1.299	0.158	0.072	-0.15	12.19	14.00	1.517	0.311	22.4
Body worn&Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	76.97%	1.299	0.041	0.018	-0.15	13.95	14.00	1.012	0.054	22.3
Back side	DH5	39/2441	76.97%	1.299	0.150	0.067	-0.03	13.95	14.00	1.012	0.197	22.3
Right side	DH5	39/2441	76.97%	1.299	0.081	0.037	-0.10	13.95	14.00	1.012	0.106	22.3
Top side	DH5	39/2441	76.97%	1.299	0.033	0.021	0.11	13.95	14.00	1.012	0.043	22.3
Back side	DH5	0/2402	76.97%	1.299	0.128	0.057	0.03	13.70	14.00	1.072	0.178	22.3
Back side	DH5	78/2480	76.97%	1.299	0.091	0.045	-0.05	12.19	14.00	1.517	0.179	22.3



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9.3 Measurement of PD Data

9.3.1 PD Result of WIFI 6E

Wi-Fi 6E PD Test Record MIMO															
Test position	Test mode	Test ch./Freq.	Distance (mm)	Grid Step (λ)	Duty Cycle	Duty Cycle Scaled factor	iPDn	iPD ratio	Measured PD 4cm ² (W/m ²)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor for measurement uncertainty	Tune up Scaled factor	Scaled PD 4cm ² (W/m ²)
Power Density Test DATA															
Front side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	/	/	1.20	-0.03	17.21	17.50	1.5493	1.069	1.994
Back side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	/	/	3.84	0.09	17.21	17.50	1.5493	1.069	6.380
Right side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	26.00	0.87	4.06	-0.09	17.21	17.50	1.5493	1.069	6.739
Right side	802.11ax 160M	143/6665	9.7	0.0625	99.71%	1.003	21.30		1.12	0.07	17.21	17.50	1.5493	1.069	1.855
Top side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	/	/	1.41	0.05	17.21	17.50	1.5493	1.069	2.340
Right side	802.11ax 160M	47/6185	2	0.0625	99.71%	1.003	/	/	4.30	-0.04	17.02	17.50	1.5493	1.117	7.461
Right side	802.11ax 160M	79/6345	2	0.0625	99.71%	1.003	/	/	3.99	-0.08	17.10	17.50	1.5493	1.096	6.796
Right side	802.11ax 160M	111/6505	2	0.0625	99.71%	1.003	/	/	3.35	-0.13	17.02	17.50	1.5493	1.117	5.814
Right side	802.11ax 160M	207/6985	2	0.0625	99.71%	1.003	/	/	5.47	0.05	16.94	17.50	1.5493	1.137	9.666



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9.4 Multiple Transmitter Evaluation

9.4.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body	Hotspot	Limbs
1	WWAN+WIFI2.4G	Yes	Yes	Yes	Yes
2	WWAN+BT	Yes	Yes	Yes	Yes
3	WWAN+WIFI5G	Yes	Yes	Yes	Yes
4	WWAN + WLAN 5G/6E(chain 0) + BT(chain 0)	Yes	Yes	Yes	Yes
5	WWAN + WLAN 5G/6E(chain 1) + BT(chain 0)	Yes	Yes	Yes	Yes
6	WWAN + WLAN 5G/6E MIMO + BT(chain 0)	Yes	Yes	Yes	Yes
7	WWAN + WLAN 5G/6E(chain 0) + BT(chain 1)	Yes	Yes	Yes	Yes
8	WWAN + WLAN 5G/6E(chain 1) + BT(chain 1)	Yes	Yes	Yes	Yes
9	WWAN + WLAN 5G/6EMIMO + BT(chain 1)	Yes	Yes	Yes	Yes
10	WLAN 5G/6E(chain 0) + BT(chain 0)	Yes	Yes	Yes	Yes
11	WLAN 5G/6E(chain 1) + BT(chain 0)	Yes	Yes	Yes	Yes
12	WLAN 5G/6E MIMO + BT(chain 0)	Yes	Yes	Yes	Yes
13	WLAN 5G/6E(chain 0) + BT(chain 1)	Yes	Yes	Yes	Yes
14	WLAN 5G/6E(chain 1) + BT(chain 1)	Yes	Yes	Yes	Yes
15	WLAN 5G/6EMIMO + BT(chain 1)	Yes	Yes	Yes	Yes
16	WWAN+WIFI2.4G+NFC	/	/	/	Yes
17	WWAN+BT+NFC	/	/	/	Yes
18	WWAN+WIFI5G+NFC	/	/	/	Yes
19	WWAN + WLAN 5G/6E(chain 0) + BT(chain 0)+NFC	/	/	/	Yes
20	WWAN + WLAN 5G/6E(chain 1) + BT(chain 0)+NFC	/	/	/	Yes
21	WWAN + WLAN 5G/6E MIMO + BT(chain 0)+NFC	/	/	/	Yes
22	WWAN + WLAN 5G/6E(chain 0) + BT(chain 1)+NFC	/	/	/	Yes
23	WWAN + WLAN 5G/6E(chain 1) + BT(chain 1)+NFC	/	/	/	Yes
24	WWAN + WLAN 5G/6EMIMO + BT(chain 1)+NFC	/	/	/	Yes
25	WLAN 5G/6E(chain 0) + BT(chain 0)+NFC	/	/	/	Yes
26	WLAN 5G/6E(chain 1) + BT(chain 0)+NFC	/	/	/	Yes
27	WLAN 5G/6E MIMO + BT(chain 0)+NFC	/	/	/	Yes
28	WLAN 5G/6E(chain 0) + BT(chain 1)+NFC	/	/	/	Yes
29	WLAN 5G/6E(chain 1) + BT(chain 1)+NFC	/	/	/	Yes
30	WLAN 5G/6EMIMO + BT(chain 1)+NFC	/	/	/	Yes

Note:

- 1) The device does not support DTM function.
- 2) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 3) The NFC test data can be referred to NFC SAR test report (Report NO.: SUCR241000040401).
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.



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9.4.2 Simultaneous Transmission SAR Summation Scenario

Head:

Band/Test position		SARmax (W/kg)					Summed SAR					
		WiFi 5G&WIFI 6E Ant9	WiFi 5G&WIFI 6E Ant10	WiFi 5G&WIFI 6E MIMO	BT Ant9	BT Ant10						
		1	2	3	4	5	1+4	2+4	3+4	1+5	2+5	3+5
WLAN	Left cheek	0.383	0.166	0.652	0.348	0.343	0.731	0.514	1.000	0.726	0.509	0.995
	Left tilted	0.269	0.125	0.411	0.264	0.219	0.533	0.389	0.675	0.488	0.344	0.630
	Right cheek	0.169	0.066	0.242	0.170	0.126	0.339	0.236	0.412	0.295	0.192	0.368
	Right tilted	0.162	0.066	0.248	0.118	0.089	0.280	0.184	0.366	0.251	0.155	0.337

Band/Test position		SARmax (W/kg)								
		WWAN Max SAR	WiFi 2.4G Ant9	WiFi 2.4G Ant10	WiFi 2.4G MIMO	WiFi 5G&WIFI 6E Ant9	WiFi 5G&WIFI 6E Ant10	WiFi 5G&WIFI 6E MIMO	BT Ant9	BT Ant10
		1	2	3	4	5	6	7	8	9
GSM 850	Left cheek	0.404	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.346	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	0.585	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.370	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
GSM 1900	Left cheek	0.401	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.361	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	0.864	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.434	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
WCDMA B2	Left cheek	0.318	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.314	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	0.740	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.347	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
WCDMA B4	Left cheek	0.391	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.299	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	0.801	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.461	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
WCDMA B5	Left cheek	0.695	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.586	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.027	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.701	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band7	Left cheek	0.773	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.236	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.099	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.403	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band12	Left cheek	0.974	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.773	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.145	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.713	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band13	Left cheek	0.797	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.632	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.192	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126



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	Right tilted	0.669	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band14	Left cheek	0.977	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.819	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.189	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.808	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band25	Left cheek	0.658	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.309	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	0.865	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.396	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band26	Left cheek	0.811	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.785	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.192	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.834	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band30	Left cheek	0.266	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.256	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.029	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.589	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band41	Left cheek	0.533	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.229	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.089	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.454	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band42	Left cheek	0.637	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.231	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.031	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.436	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band43	Left cheek	0.339	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.099	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	0.820	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.205	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band48	Left cheek	0.460	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.135	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.165	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.279	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band66	Left cheek	0.547	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.330	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	0.799	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.425	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
LTE Band71	Left cheek	0.902	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.849	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.164	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.743	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N7	Left cheek	0.789	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.338	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.010	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.524	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N14	Left cheek	0.943	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.699	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.046	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.737	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N25	Left cheek	0.472	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.428	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219



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	Right cheek	1.114	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.564	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N26	Left cheek	0.776	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.735	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	0.976	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.630	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N30	Left cheek	0.326	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.297	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.143	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.646	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N41	Left cheek	0.594	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.184	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.152	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	1.065	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N48	Left cheek	0.536	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.160	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.114	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.349	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N66	Left cheek	0.463	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.419	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.146	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.619	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N70	Left cheek	0.509	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.151	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	0.333	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.172	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N71	Left cheek	0.869	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.596	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	0.754	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.503	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N77 (3450-3550)	Left cheek	0.899	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.220	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.194	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.323	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089
NR N77 (3700-3980)	Left cheek	0.832	0.493	0.048	0.547	0.152	0.166	0.259	0.348	0.343
	Left tilted	0.181	0.279	0.028	0.311	0.107	0.082	0.164	0.264	0.219
	Right cheek	1.189	0.182	0.009	0.196	0.067	0.066	0.099	0.170	0.126
	Right tilted	0.345	0.131	0.007	0.141	0.066	0.066	0.099	0.118	0.089



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Band/Test position		Summed SAR													
		1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
GSM 850	Left cheek	0.897	0.452	0.951	0.556	0.570	0.663	0.752	0.747	0.904	0.918	1.011	0.899	0.913	1.006
	Left tilted	0.625	0.374	0.657	0.453	0.428	0.510	0.610	0.565	0.717	0.692	0.774	0.672	0.647	0.729
	Right cheek	0.767	0.594	0.781	0.652	0.651	0.684	0.755	0.711	0.822	0.821	0.854	0.778	0.777	0.810
	Right tilted	0.501	0.377	0.511	0.436	0.436	0.469	0.488	0.459	0.554	0.554	0.587	0.525	0.525	0.558
GSM 1900	Left cheek	0.894	0.449	0.948	0.553	0.567	0.660	0.749	0.744	0.901	0.915	1.008	0.896	0.910	1.003
	Left tilted	0.640	0.389	0.672	0.468	0.443	0.525	0.625	0.580	0.732	0.707	0.789	0.687	0.662	0.744
	Right cheek	1.046	0.873	1.060	0.931	0.930	0.963	1.034	0.990	1.101	1.100	1.133	1.057	1.056	1.089
	Right tilted	0.565	0.441	0.575	0.500	0.500	0.533	0.552	0.523	0.618	0.618	0.651	0.589	0.589	0.622
WCDMA B2	Left cheek	0.811	0.366	0.865	0.470	0.484	0.577	0.666	0.661	0.818	0.832	0.925	0.813	0.827	0.920
	Left tilted	0.593	0.342	0.625	0.421	0.396	0.478	0.578	0.533	0.685	0.660	0.742	0.640	0.615	0.697
	Right cheek	0.922	0.749	0.936	0.807	0.806	0.839	0.910	0.866	0.977	0.976	1.009	0.933	0.932	0.965
	Right tilted	0.478	0.354	0.488	0.413	0.413	0.446	0.465	0.436	0.531	0.531	0.564	0.502	0.502	0.535
WCDMA B4	Left cheek	0.884	0.439	0.938	0.543	0.557	0.650	0.739	0.734	0.891	0.905	0.998	0.886	0.900	0.993
	Left tilted	0.578	0.327	0.610	0.406	0.381	0.463	0.563	0.518	0.670	0.645	0.727	0.625	0.600	0.682
	Right cheek	0.983	0.810	0.997	0.868	0.867	0.900	0.971	0.927	1.038	1.037	1.070	0.994	0.993	1.026
	Right tilted	0.592	0.468	0.602	0.527	0.527	0.560	0.579	0.550	0.645	0.645	0.678	0.616	0.616	0.649
WCDMA B5	Left cheek	1.188	0.743	1.242	0.847	0.861	0.954	1.043	1.038	1.195	1.209	1.302	1.190	1.204	1.297
	Left tilted	0.865	0.614	0.897	0.693	0.668	0.750	0.850	0.805	0.957	0.932	1.014	0.912	0.887	0.969
	Right cheek	1.209	1.036	1.223	1.094	1.093	1.126	1.197	1.153	1.264	1.263	1.296	1.220	1.219	1.252
	Right tilted	0.832	0.708	0.842	0.767	0.767	0.800	0.819	0.790	0.885	0.885	0.918	0.856	0.856	0.889
LTE Band7	Left cheek	1.266	0.821	1.320	0.925	0.939	1.032	1.121	1.116	1.273	1.287	1.380	1.268	1.282	1.375
	Left tilted	0.515	0.264	0.547	0.343	0.318	0.400	0.500	0.455	0.607	0.582	0.664	0.562	0.537	0.619
	Right cheek	1.281	1.108	1.295	1.166	1.165	1.198	1.269	1.225	1.336	1.335	1.368	1.292	1.291	1.324
	Right tilted	0.534	0.410	0.544	0.469	0.469	0.502	0.521	0.492	0.587	0.587	0.620	0.558	0.558	0.591
LTE Band12	Left cheek	1.467	1.022	1.521	1.126	1.140	1.233	1.322	1.317	1.474	1.488	1.581	1.469	1.483	1.576
	Left tilted	1.052	0.801	1.084	0.880	0.855	0.937	1.037	0.992	1.144	1.119	1.201	1.099	1.074	1.156
	Right cheek	1.327	1.154	1.341	1.212	1.211	1.244	1.315	1.271	1.382	1.381	1.414	1.338	1.337	1.370
	Right tilted	0.844	0.720	0.854	0.779	0.779	0.812	0.831	0.802	0.897	0.897	0.930	0.868	0.868	0.901
LTE Band13	Left cheek	1.290	0.845	1.344	0.949	0.963	1.056	1.145	1.140	1.297	1.311	1.404	1.292	1.306	1.399
	Left tilted	0.911	0.660	0.943	0.739	0.714	0.796	0.896	0.851	1.003	0.978	1.060	0.958	0.933	1.015
	Right cheek	1.374	1.201	1.388	1.259	1.258	1.291	1.362	1.318	1.429	1.428	1.461	1.385	1.384	1.417
	Right tilted	0.800	0.676	0.810	0.735	0.735	0.768	0.787	0.758	0.853	0.853	0.886	0.824	0.824	0.857
LTE Band14	Left cheek	1.470	1.025	1.524	1.129	1.143	1.236	1.325	1.320	1.477	1.491	1.584	1.472	1.486	1.579
	Left tilted	1.098	0.847	1.130	0.926	0.901	0.983	1.083	1.038	1.190	1.165	1.247	1.145	1.120	1.202
	Right cheek	1.371	1.198	1.385	1.256	1.255	1.288	1.359	1.315	1.426	1.425	1.458	1.382	1.381	1.414
	Right tilted	0.939	0.815	0.949	0.874	0.874	0.907	0.926	0.897	0.992	0.992	1.025	0.963	0.963	0.996
LTE Band25	Left cheek	1.151	0.706	1.205	0.810	0.824	0.917	1.006	1.001	1.158	1.172	1.265	1.153	1.167	1.260
	Left tilted	0.588	0.337	0.620	0.416	0.391	0.473	0.573	0.528	0.680	0.655	0.737	0.635	0.610	0.692
	Right cheek	1.047	0.874	1.061	0.932	0.931	0.964	1.035	0.991	1.102	1.101	1.134	1.058	1.057	1.090
	Right tilted	0.527	0.403	0.537	0.462	0.462	0.495	0.514	0.485	0.580	0.580	0.613	0.551	0.551	0.584
LTE Band26	Left cheek	1.304	0.859	1.358	0.963	0.977	1.070	1.159	1.154	1.311	1.325	1.418	1.306	1.320	1.413
	Left tilted	1.064	0.813	1.096	0.892	0.867	0.949	1.049	1.004	1.156	1.131	1.213	1.111	1.086	1.168
	Right cheek	1.374	1.201	1.388	1.259	1.258	1.291	1.362	1.318	1.429	1.428	1.461	1.385	1.384	1.417
	Right tilted	0.965	0.841	0.975	0.900	0.900	0.933	0.952	0.923	1.018	1.018	1.051	0.989	0.989	1.022



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LTE Band30	Left cheek	0.759	0.314	0.813	0.418	0.432	0.525	0.614	0.609	0.766	0.780	0.873	0.761	0.775	0.868
	Left tilted	0.535	0.284	0.567	0.363	0.338	0.420	0.520	0.475	0.627	0.602	0.684	0.582	0.557	0.639
	Right cheek	1.211	1.038	1.225	1.096	1.095	1.128	1.199	1.155	1.266	1.265	1.298	1.222	1.221	1.254
	Right tilted	0.720	0.596	0.730	0.655	0.655	0.688	0.707	0.678	0.773	0.773	0.806	0.744	0.744	0.777
LTE Band41	Left cheek	1.026	0.581	1.080	0.685	0.699	0.792	0.881	0.876	1.033	1.047	1.140	1.028	1.042	1.135
	Left tilted	0.508	0.257	0.540	0.336	0.311	0.393	0.493	0.448	0.600	0.575	0.657	0.555	0.530	0.612
	Right cheek	1.271	1.098	1.285	1.156	1.155	1.188	1.259	1.215	1.326	1.325	1.358	1.282	1.281	1.314
	Right tilted	0.585	0.461	0.595	0.520	0.520	0.553	0.572	0.543	0.638	0.638	0.671	0.609	0.609	0.642
LTE Band42	Left cheek	1.130	0.685	1.184	0.789	0.803	0.896	0.985	0.980	1.137	1.151	1.244	1.132	1.146	1.239
	Left tilted	0.510	0.259	0.542	0.338	0.313	0.395	0.495	0.450	0.602	0.577	0.659	0.557	0.532	0.614
	Right cheek	1.213	1.040	1.227	1.098	1.097	1.130	1.201	1.157	1.268	1.267	1.300	1.224	1.223	1.256
	Right tilted	0.567	0.443	0.577	0.502	0.502	0.535	0.554	0.525	0.620	0.620	0.653	0.591	0.591	0.624
LTE Band43	Left cheek	0.832	0.387	0.886	0.491	0.505	0.598	0.687	0.682	0.839	0.853	0.946	0.834	0.848	0.941
	Left tilted	0.378	0.127	0.410	0.206	0.181	0.263	0.363	0.318	0.470	0.445	0.527	0.425	0.400	0.482
	Right cheek	1.002	0.829	1.016	0.887	0.886	0.919	0.990	0.946	1.057	1.056	1.089	1.013	1.012	1.045
	Right tilted	0.336	0.212	0.346	0.271	0.271	0.304	0.323	0.294	0.389	0.389	0.422	0.360	0.360	0.393
LTE Band48	Left cheek	0.953	0.508	1.007	0.612	0.626	0.719	0.808	0.803	0.960	0.974	1.067	0.955	0.969	1.062
	Left tilted	0.414	0.163	0.446	0.242	0.217	0.299	0.399	0.354	0.506	0.481	0.563	0.461	0.436	0.518
	Right cheek	1.347	1.174	1.361	1.232	1.231	1.264	1.335	1.291	1.402	1.401	1.434	1.358	1.357	1.390
	Right tilted	0.410	0.286	0.420	0.345	0.345	0.378	0.397	0.368	0.463	0.463	0.496	0.434	0.434	0.467
LTE Band66	Left cheek	1.040	0.595	1.094	0.699	0.713	0.806	0.895	0.890	1.047	1.061	1.154	1.042	1.056	1.149
	Left tilted	0.609	0.358	0.641	0.437	0.412	0.494	0.594	0.549	0.701	0.676	0.758	0.656	0.631	0.713
	Right cheek	0.981	0.808	0.995	0.866	0.865	0.898	0.969	0.925	1.036	1.035	1.068	0.992	0.991	1.024
	Right tilted	0.556	0.432	0.566	0.491	0.491	0.524	0.543	0.514	0.609	0.609	0.642	0.580	0.580	0.613
LTE Band71	Left cheek	1.395	0.950	1.449	1.054	1.068	1.161	1.250	1.245	1.402	1.416	1.509	1.397	1.411	1.504
	Left tilted	1.128	0.877	1.160	0.956	0.931	1.013	1.113	1.068	1.220	1.195	1.277	1.175	1.150	1.232
	Right cheek	1.346	1.173	1.360	1.231	1.230	1.263	1.334	1.290	1.401	1.400	1.433	1.357	1.356	1.389
	Right tilted	0.874	0.750	0.884	0.809	0.809	0.842	0.861	0.832	0.927	0.927	0.960	0.898	0.898	0.931
NR N7	Left cheek	1.282	0.837	1.336	0.941	0.955	1.048	1.137	1.132	1.289	1.303	1.396	1.284	1.298	1.391
	Left tilted	0.617	0.366	0.649	0.445	0.420	0.502	0.602	0.557	0.709	0.684	0.766	0.664	0.639	0.721
	Right cheek	1.192	1.019	1.206	1.077	1.076	1.109	1.180	1.136	1.247	1.246	1.279	1.203	1.202	1.235
	Right tilted	0.655	0.531	0.665	0.590	0.590	0.623	0.642	0.613	0.708	0.708	0.741	0.679	0.679	0.712
NR N14	Left cheek	1.436	0.991	1.490	1.095	1.109	1.202	1.291	1.286	1.443	1.457	1.550	1.438	1.452	1.545
	Left tilted	0.978	0.727	1.010	0.806	0.781	0.863	0.963	0.918	1.070	1.045	1.127	1.025	1.000	1.082
	Right cheek	1.228	1.055	1.242	1.113	1.112	1.145	1.216	1.172	1.283	1.282	1.315	1.239	1.238	1.271
	Right tilted	0.868	0.744	0.878	0.803	0.803	0.836	0.855	0.826	0.921	0.921	0.954	0.892	0.892	0.925
NR N25	Left cheek	0.965	0.520	1.019	0.624	0.638	0.731	0.820	0.815	0.972	0.986	1.079	0.967	0.981	1.074
	Left tilted	0.707	0.456	0.739	0.535	0.510	0.592	0.692	0.647	0.799	0.774	0.856	0.754	0.729	0.811
	Right cheek	1.296	1.123	1.310	1.181	1.180	1.213	1.284	1.240	1.351	1.350	1.383	1.307	1.306	1.339
	Right tilted	0.695	0.571	0.705	0.630	0.630	0.663	0.682	0.653	0.748	0.748	0.781	0.719	0.719	0.752
NR N26	Left cheek	1.269	0.824	1.323	0.928	0.942	1.035	1.124	1.119	1.276	1.290	1.383	1.271	1.285	1.378
	Left tilted	1.014	0.763	1.046	0.842	0.817	0.899	0.999	0.954	1.106	1.081	1.163	1.061	1.036	1.118
	Right cheek	1.158	0.985	1.172	1.043	1.042	1.075	1.146	1.102	1.213	1.212	1.245	1.169	1.168	1.201
	Right tilted	0.761	0.637	0.771	0.696	0.696	0.729	0.748	0.719	0.814	0.814	0.847	0.785	0.785	0.818
NR N30	Left cheek	0.819	0.374	0.873	0.478	0.492	0.585	0.674	0.669	0.826	0.840	0.933	0.821	0.835	0.928
	Left tilted	0.576	0.325	0.608	0.404	0.379	0.461	0.561	0.516	0.668	0.643	0.725	0.623	0.598	0.680
	Right cheek	1.325	1.152	1.339	1.210	1.209	1.242	1.313	1.269	1.380	1.379	1.412	1.336	1.335	1.368
	Right tilted	0.777	0.653	0.787	0.712	0.712	0.745	0.764	0.735	0.830	0.830	0.863	0.801	0.801	0.834
NR N41	Left cheek	1.087	0.642	1.141	0.746	0.760	0.853	0.942	0.937	1.094	1.108	1.201	1.089	1.103	1.196
	Left tilted	0.463	0.212	0.495	0.291	0.266	0.348	0.448	0.403	0.555	0.530	0.612	0.510	0.485	0.567
	Right cheek	1.334	1.161	1.348	1.219	1.218	1.251	1.322	1.278	1.389	1.388	1.421	1.345	1.344	1.377



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	Right tilted	1.196	1.072	1.206	1.131	1.131	1.164	1.183	1.154	1.249	1.249	1.282	1.220	1.220	1.253
NR N48	Left cheek	1.029	0.584	1.083	0.688	0.702	0.795	0.884	0.879	1.036	1.050	1.143	1.031	1.045	1.138
	Left tilted	0.439	0.188	0.471	0.267	0.242	0.324	0.424	0.379	0.531	0.506	0.588	0.486	0.461	0.543
	Right cheek	1.296	1.123	1.310	1.181	1.180	1.213	1.284	1.240	1.351	1.350	1.383	1.307	1.306	1.339
	Right tilted	0.480	0.356	0.490	0.415	0.415	0.448	0.467	0.438	0.533	0.533	0.566	0.504	0.504	0.537
NR N66	Left cheek	0.956	0.511	1.010	0.615	0.629	0.722	0.811	0.806	0.963	0.977	1.070	0.958	0.972	1.065
	Left tilted	0.698	0.447	0.730	0.526	0.501	0.583	0.683	0.638	0.790	0.765	0.847	0.745	0.720	0.802
	Right cheek	1.328	1.155	1.342	1.213	1.212	1.245	1.316	1.272	1.383	1.382	1.415	1.339	1.338	1.371
	Right tilted	0.750	0.626	0.760	0.685	0.685	0.718	0.737	0.708	0.803	0.803	0.836	0.774	0.774	0.807
NR N70	Left cheek	1.002	0.557	1.056	0.661	0.675	0.768	0.857	0.852	1.009	1.023	1.116	1.004	1.018	1.111
	Left tilted	0.430	0.179	0.462	0.258	0.233	0.315	0.415	0.370	0.522	0.497	0.579	0.477	0.452	0.534
	Right cheek	0.515	0.342	0.529	0.400	0.399	0.432	0.503	0.459	0.570	0.569	0.602	0.526	0.525	0.558
	Right tilted	0.303	0.179	0.313	0.238	0.238	0.271	0.290	0.261	0.356	0.356	0.389	0.327	0.327	0.360
NR N71	Left cheek	1.362	0.917	1.416	1.021	1.035	1.128	1.217	1.212	1.369	1.383	1.476	1.364	1.378	1.471
	Left tilted	0.875	0.624	0.907	0.703	0.678	0.760	0.860	0.815	0.967	0.942	1.024	0.922	0.897	0.979
	Right cheek	0.936	0.763	0.950	0.821	0.820	0.853	0.924	0.880	0.991	0.990	1.023	0.947	0.946	0.979
	Right tilted	0.634	0.510	0.644	0.569	0.569	0.602	0.621	0.592	0.687	0.687	0.720	0.658	0.658	0.691
NR N77 (3450-3550)	Left cheek	1.392	0.947	1.446	1.051	1.065	1.158	1.247	1.242	1.399	1.413	1.506	1.394	1.408	1.501
	Left tilted	0.499	0.248	0.531	0.327	0.302	0.384	0.484	0.439	0.591	0.566	0.648	0.546	0.521	0.603
	Right cheek	1.376	1.203	1.390	1.261	1.260	1.293	1.364	1.320	1.431	1.430	1.463	1.387	1.386	1.419
	Right tilted	0.454	0.330	0.464	0.389	0.389	0.422	0.441	0.412	0.507	0.507	0.540	0.478	0.478	0.511
NR N77 (3700-3980)	Left cheek	1.325	0.880	1.379	0.984	0.998	1.091	1.180	1.175	1.332	1.346	1.439	1.327	1.341	1.434
	Left tilted	0.460	0.209	0.492	0.288	0.263	0.345	0.445	0.400	0.552	0.527	0.609	0.507	0.482	0.564
	Right cheek	1.371	1.198	1.385	1.256	1.255	1.288	1.359	1.315	1.426	1.425	1.458	1.382	1.381	1.414
	Right tilted	0.476	0.352	0.486	0.411	0.411	0.444	0.463	0.434	0.529	0.529	0.562	0.500	0.500	0.533



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10mm:

Band/Test position		SARmax (W/kg)					Summed SAR					
		WiFi 5G&WIFI 6E Ant9	WiFi 5G&WIFI 6E Ant10	WiFi 5G&WIFI 6E MIMO	BT Ant9	BT Ant10						
		1	2	3	4	5	1+4	2+4	3+4	1+5	2+5	3+5
WLAN	Front side	0.108	0.091	0.169	0.084	0.054	0.192	0.175	0.253	0.162	0.145	0.223
	Back side	0.116	0.286	0.403	0.033	0.197	0.149	0.319	0.436	0.313	0.483	0.600
	Left side	/	/	/	/	/	/	/	/	/	/	/
	Right side	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.108	0.082	0.187	0.024	0.043	0.132	0.106	0.211	0.151	0.125	0.230
	Bottom side	/	/	/	/	/	/	/	/	/	/	/

Band/Test position		SARmax (W/kg)								
		WWAN Max SAR	WiFi 2.4G Ant9	WiFi 2.4G Ant10	WiFi 2.4G MIMO	WiFi 5G&WIFI 6E Ant9	WiFi 5G&WIFI 6E Ant10	WiFi 5G&WIFI 6E MIMO	BT Ant9	BT Ant10
		1	2	3	4	5	6	7	8	9
GSM 850	Front side	0.563	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.410	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.097	/	/	/	/	/	/	/	/
	Right side	0.173	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.226	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
GSM 1900	Front side	0.406	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.413	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.405	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.303	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
WCDMA B2	Front side	0.744	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.736	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.569	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.568	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
WCDMA B4	Front side	0.703	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.846	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.773	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.599	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
WCDMA B5	Front side	0.796	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.451	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.113	/	/	/	/	/	/	/	/
	Right side	0.216	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.389	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
LTE	Front side	0.758	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054



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Band7	Back side	0.849	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	1.108	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.335	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	0.264	/	/	/	/	/	/	/	/
LTE Band12	Front side	0.467	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.582	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.163	/	/	/	/	/	/	/	/
	Right side	0.325	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.365	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band13	Front side	0.743	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.526	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.098	/	/	/	/	/	/	/	/
	Right side	0.231	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.340	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band14	Front side	0.523	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.683	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.095	/	/	/	/	/	/	/	/
	Right side	0.256	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.345	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band25	Front side	0.549	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.610	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.673	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.445	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	0.206	/	/	/	/	/	/	/	/
LTE Band26	Front side	0.909	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.620	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.119	/	/	/	/	/	/	/	/
	Right side	0.271	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.427	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band30	Front side	0.844	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.924	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.602	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.565	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band41	Front side	0.807	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.638	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.865	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.209	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	0.184	/	/	/	/	/	/	/	/
LTE Band42	Front side	0.322	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.861	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.448	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106



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	Top side	/	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band43	Front side	0.479	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.964	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.604	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	/	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band48	Front side	0.723	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.973	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.787	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	/	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band66	Front side	0.754	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.863	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.902	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.824	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	0.232	/	/	/	/	/	/	/	/
LTE Band71	Front side	0.464	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.420	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.160	/	/	/	/	/	/	/	/
	Right side	0.297	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.290	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
NR N7	Front side	0.788	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.907	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	1.133	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.416	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	0.445	/	/	/	/	/	/	/	/
NR N14	Front side	0.709	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.576	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.128	/	/	/	/	/	/	/	/
	Right side	0.317	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.415	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
NR N25	Front side	0.796	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.823	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.670	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.723	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
NR N26	Front side	0.749	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.534	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.128	/	/	/	/	/	/	/	/
	Right side	0.252	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.419	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
NR N30	Front side	0.893	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054



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	Back side	0.756	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.583	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.443	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
NR N41	Front side	0.574	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.767	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	1.119	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.183	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	0.213	/	/	/	/	/	/	/	/
NR N48	Front side	0.371	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.570	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.582	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	/	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
NR N66	Front side	0.482	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.861	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.472	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.488	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
NR N70	Front side	0.695	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.848	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.707	/	/	/	/	/	/	/	/
	Right side	/	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	/	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	0.303	/	/	/	/	/	/	/	/
NR N71	Front side	0.453	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.389	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.166	/	/	/	/	/	/	/	/
	Right side	0.248	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	0.289	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
NR N77 (3450-3550)	Front side	0.541	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.605	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.439	/	/	/	/	/	/	/	/
	Right side	1.120	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	/	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/
NR N77 (3700-3980)	Front side	0.530	0.173	0.015	0.180	0.108	0.091	0.169	0.084	0.054
	Back side	0.791	0.137	0.175	0.581	0.116	0.286	0.403	0.033	0.197
	Left side	0.696	/	/	/	/	/	/	/	/
	Right side	0.982	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106
	Top side	/	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043
	Bottom side	/	/	/	/	/	/	/	/	/



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Band/Test position		Summed SAR													
		1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
GSM 850	Front side	0.736	0.578	0.743	0.671	0.654	0.732	0.647	0.617	0.755	0.738	0.816	0.725	0.708	0.786
	Back side	0.547	0.585	0.991	0.526	0.696	0.813	0.443	0.607	0.559	0.729	0.846	0.723	0.893	1.010
	Left side	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
	Right side	0.292	0.275	0.501	0.322	0.380	0.468	0.237	0.279	0.386	0.444	0.532	0.428	0.486	0.574
	Top side	0.334	0.234	0.315	0.334	0.308	0.413	0.250	0.269	0.358	0.332	0.437	0.377	0.351	0.456
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
GSM 1900	Front side	0.579	0.421	0.586	0.514	0.497	0.575	0.490	0.460	0.598	0.581	0.659	0.568	0.551	0.629
	Back side	0.550	0.588	0.994	0.529	0.699	0.816	0.446	0.610	0.562	0.732	0.849	0.726	0.896	1.013
	Left side	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.411	0.311	0.392	0.411	0.385	0.490	0.327	0.346	0.435	0.409	0.514	0.454	0.428	0.533
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
WCDMA B2	Front side	0.917	0.759	0.924	0.852	0.835	0.913	0.828	0.798	0.936	0.919	0.997	0.906	0.889	0.967
	Back side	0.873	0.911	1.317	0.852	1.022	1.139	0.769	0.933	0.885	1.055	1.172	1.049	1.219	1.336
	Left side	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.676	0.576	0.657	0.676	0.650	0.755	0.592	0.611	0.700	0.674	0.779	0.719	0.693	0.798
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
WCDMA B4	Front side	0.876	0.718	0.883	0.811	0.794	0.872	0.787	0.757	0.895	0.878	0.956	0.865	0.848	0.926
	Back side	0.983	1.021	1.427	0.962	1.132	1.249	0.879	1.043	0.995	1.165	1.282	1.159	1.329	1.446
	Left side	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.707	0.607	0.688	0.707	0.681	0.786	0.623	0.642	0.731	0.705	0.810	0.750	0.724	0.829
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
WCDMA B5	Front side	0.969	0.811	0.976	0.904	0.887	0.965	0.880	0.850	0.988	0.971	1.049	0.958	0.941	1.019
	Back side	0.588	0.626	1.032	0.567	0.737	0.854	0.484	0.648	0.600	0.770	0.887	0.764	0.934	1.051
	Left side	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113
	Right side	0.335	0.318	0.544	0.365	0.423	0.511	0.280	0.322	0.429	0.487	0.575	0.471	0.529	0.617
	Top side	0.497	0.397	0.478	0.497	0.471	0.576	0.413	0.432	0.521	0.495	0.600	0.540	0.514	0.619
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band7	Front side	0.931	0.773	0.938	0.866	0.849	0.927	0.842	0.812	0.950	0.933	1.011	0.920	0.903	0.981
	Back side	0.986	1.024	1.430	0.965	1.135	1.252	0.882	1.046	0.998	1.168	1.285	1.162	1.332	1.449
	Left side	1.108	1.108	1.108	1.108	1.108	1.108	1.108	1.108	1.108	1.108	1.108	1.108	1.108	1.108
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.443	0.343	0.424	0.443	0.417	0.522	0.359	0.378	0.467	0.441	0.546	0.486	0.460	0.565
	Bottom side	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264
LTE Band12	Front side	0.640	0.482	0.647	0.575	0.558	0.636	0.551	0.521	0.659	0.642	0.720	0.629	0.612	0.690
	Back side	0.719	0.757	1.163	0.698	0.868	0.985	0.615	0.779	0.731	0.901	1.018	0.895	1.065	1.182
	Left side	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163
	Right side	0.444	0.427	0.653	0.474	0.532	0.620	0.389	0.431	0.538	0.596	0.684	0.580	0.638	0.726
	Top side	0.473	0.373	0.454	0.473	0.447	0.552	0.389	0.408	0.497	0.471	0.576	0.516	0.490	0.595
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band13	Front side	0.916	0.758	0.923	0.851	0.834	0.912	0.827	0.797	0.935	0.918	0.996	0.905	0.888	0.966
	Back side	0.663	0.701	1.107	0.642	0.812	0.929	0.559	0.723	0.675	0.845	0.962	0.839	1.009	1.126



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	Left side	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
	Right side	0.350	0.333	0.559	0.380	0.438	0.526	0.295	0.337	0.444	0.502	0.590	0.486	0.544	0.632
	Top side	0.448	0.348	0.429	0.448	0.422	0.527	0.364	0.383	0.472	0.446	0.551	0.491	0.465	0.570
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band14	Front side	0.696	0.538	0.703	0.631	0.614	0.692	0.607	0.577	0.715	0.698	0.776	0.685	0.668	0.746
	Back side	0.820	0.858	1.264	0.799	0.969	1.086	0.716	0.880	0.832	1.002	1.119	0.996	1.166	1.283
	Left side	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
	Right side	0.375	0.358	0.584	0.405	0.463	0.551	0.320	0.362	0.469	0.527	0.615	0.511	0.569	0.657
	Top side	0.453	0.353	0.434	0.453	0.427	0.532	0.369	0.388	0.477	0.451	0.556	0.496	0.470	0.575
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band25	Front side	0.722	0.564	0.729	0.657	0.640	0.718	0.633	0.603	0.741	0.724	0.802	0.711	0.694	0.772
	Back side	0.747	0.785	1.191	0.726	0.896	1.013	0.643	0.807	0.759	0.929	1.046	0.923	1.093	1.210
	Left side	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.553	0.453	0.534	0.553	0.527	0.632	0.469	0.488	0.577	0.551	0.656	0.596	0.570	0.675
	Bottom side	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
LTE Band26	Front side	1.082	0.924	1.089	1.017	1.000	1.078	0.993	0.963	1.101	1.084	1.162	1.071	1.054	1.132
	Back side	0.757	0.795	1.201	0.736	0.906	1.023	0.653	0.817	0.769	0.939	1.056	0.933	1.103	1.220
	Left side	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119
	Right side	0.390	0.373	0.599	0.420	0.478	0.566	0.335	0.377	0.484	0.542	0.630	0.526	0.584	0.672
	Top side	0.535	0.435	0.516	0.535	0.509	0.614	0.451	0.470	0.559	0.533	0.638	0.578	0.552	0.657
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band30	Front side	1.017	0.859	1.024	0.952	0.935	1.013	0.928	0.898	1.036	1.019	1.097	1.006	0.989	1.067
	Back side	1.061	1.099	1.505	1.040	1.210	1.327	0.957	1.121	1.073	1.243	1.360	1.237	1.407	1.524
	Left side	0.602	0.602	0.602	0.602	0.602	0.602	0.602	0.602	0.602	0.602	0.602	0.602	0.602	0.602
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.673	0.573	0.654	0.673	0.647	0.752	0.589	0.608	0.697	0.671	0.776	0.716	0.690	0.795
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band41	Front side	0.980	0.822	0.987	0.915	0.898	0.976	0.891	0.861	0.999	0.982	1.060	0.969	0.952	1.030
	Back side	0.775	0.813	1.219	0.754	0.924	1.041	0.671	0.835	0.787	0.957	1.074	0.951	1.121	1.238
	Left side	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.317	0.217	0.298	0.317	0.291	0.396	0.233	0.252	0.341	0.315	0.420	0.360	0.334	0.439
	Bottom side	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184
LTE Band42	Front side	0.495	0.337	0.502	0.430	0.413	0.491	0.406	0.376	0.514	0.497	0.575	0.484	0.467	0.545
	Back side	0.998	1.036	1.442	0.977	1.147	1.264	0.894	1.058	1.010	1.180	1.297	1.174	1.344	1.461
	Left side	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448	0.448
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043	0.132	0.106	0.211	0.151	0.125	0.230
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band43	Front side	0.652	0.494	0.659	0.587	0.570	0.648	0.563	0.533	0.671	0.654	0.732	0.641	0.624	0.702
	Back side	1.101	1.139	1.545	1.080	1.250	1.367	0.997	1.161	1.113	1.283	1.400	1.277	1.447	1.564
	Left side	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043	0.132	0.106	0.211	0.151	0.125	0.230
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band48	Front side	0.896	0.738	0.903	0.831	0.814	0.892	0.807	0.777	0.915	0.898	0.976	0.885	0.868	0.946
	Back side	1.110	1.148	1.554	1.089	1.259	1.376	1.006	1.170	1.122	1.292	1.409	1.286	1.456	1.573
	Left side	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043	0.132	0.106	0.211	0.151	0.125	0.230
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band66	Front side	0.927	0.769	0.934	0.862	0.845	0.923	0.838	0.808	0.946	0.929	1.007	0.916	0.899	0.977
	Back side	1.000	1.038	1.444	0.979	1.149	1.266	0.896	1.060	1.012	1.182	1.299	1.176	1.346	1.463
	Left side	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.932	0.832	0.913	0.932	0.906	1.011	0.848	0.867	0.956	0.930	1.035	0.975	0.949	1.054
	Bottom side	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232	0.232
LTE Band71	Front side	0.637	0.479	0.644	0.572	0.555	0.633	0.548	0.518	0.656	0.639	0.717	0.626	0.609	0.687
	Back side	0.557	0.595	1.001	0.536	0.706	0.823	0.453	0.617	0.569	0.739	0.856	0.733	0.903	1.020
	Left side	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
	Right side	0.416	0.399	0.625	0.446	0.504	0.592	0.361	0.403	0.510	0.568	0.656	0.552	0.610	0.698
	Top side	0.398	0.298	0.379	0.398	0.372	0.477	0.314	0.333	0.422	0.396	0.501	0.441	0.415	0.520
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N7	Front side	0.961	0.803	0.968	0.896	0.879	0.957	0.872	0.842	0.980	0.963	1.041	0.950	0.933	1.011
	Back side	1.044	1.082	1.488	1.023	1.193	1.310	0.940	1.104	1.056	1.226	1.343	1.220	1.390	1.507
	Left side	1.133	1.133	1.133	1.133	1.133	1.133	1.133	1.133	1.133	1.133	1.133	1.133	1.133	1.133
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.524	0.424	0.505	0.524	0.498	0.603	0.440	0.459	0.548	0.522	0.627	0.567	0.541	0.646
	Bottom side	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445	0.445
NR N14	Front side	0.882	0.724	0.889	0.817	0.800	0.878	0.793	0.763	0.901	0.884	0.962	0.871	0.854	0.932
	Back side	0.713	0.751	1.157	0.692	0.862	0.979	0.609	0.773	0.725	0.895	1.012	0.889	1.059	1.176
	Left side	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128
	Right side	0.436	0.419	0.645	0.466	0.524	0.612	0.381	0.423	0.530	0.588	0.676	0.572	0.630	0.718
	Top side	0.523	0.423	0.504	0.523	0.497	0.602	0.439	0.458	0.547	0.521	0.626	0.566	0.540	0.645
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N25	Front side	0.969	0.811	0.976	0.904	0.887	0.965	0.880	0.850	0.988	0.971	1.049	0.958	0.941	1.019
	Back side	0.960	0.998	1.404	0.939	1.109	1.226	0.856	1.020	0.972	1.142	1.259	1.136	1.306	1.423
	Left side	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.831	0.731	0.812	0.831	0.805	0.910	0.747	0.766	0.855	0.829	0.934	0.874	0.848	0.953
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N26	Front side	0.922	0.764	0.929	0.857	0.840	0.918	0.833	0.803	0.941	0.924	1.002	0.911	0.894	0.972
	Back side	0.671	0.709	1.115	0.650	0.820	0.937	0.567	0.731	0.683	0.853	0.970	0.847	1.017	1.134
	Left side	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128
	Right side	0.371	0.354	0.580	0.401	0.459	0.547	0.316	0.358	0.465	0.523	0.611	0.507	0.565	0.653
	Top side	0.527	0.427	0.508	0.527	0.501	0.606	0.443	0.462	0.551	0.525	0.630	0.570	0.544	0.649
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N30	Front side	1.066	0.908	1.073	1.001	0.984	1.062	0.977	0.947	1.085	1.068	1.146	1.055	1.038	1.116
	Back side	0.893	0.931	1.337	0.872	1.042	1.159	0.789	0.953	0.905	1.075	1.192	1.069	1.239	1.356
	Left side	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.551	0.451	0.532	0.551	0.525	0.630	0.467	0.486	0.575	0.549	0.654	0.594	0.568	0.673
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N41	Front side	0.747	0.589	0.754	0.682	0.665	0.743	0.658	0.628	0.766	0.749	0.827	0.736	0.719	0.797
	Back side	0.904	0.942	1.348	0.883	1.053	1.170	0.800	0.964	0.916	1.086	1.203	1.080	1.250	1.367
	Left side	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.291	0.191	0.272	0.291	0.265	0.370	0.207	0.226	0.315	0.289	0.394	0.334	0.308	0.413
	Bottom side	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213
NR N48	Front side	0.544	0.386	0.551	0.479	0.462	0.540	0.455	0.425	0.563	0.546	0.624	0.533	0.516	0.594
	Back side	0.707	0.745	1.151	0.686	0.856	0.973	0.603	0.767	0.719	0.889	1.006	0.883	1.053	1.170



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	Left side	0.582	0.582	0.582	0.582	0.582	0.582	0.582	0.582	0.582	0.582	0.582	0.582	0.582	0.582
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043	0.132	0.106	0.211	0.151	0.125	0.230
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N66	Front side	0.655	0.497	0.662	0.590	0.573	0.651	0.566	0.536	0.674	0.657	0.735	0.644	0.627	0.705
	Back side	0.998	1.036	1.442	0.977	1.147	1.264	0.894	1.058	1.010	1.180	1.297	1.174	1.344	1.461
	Left side	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.596	0.496	0.577	0.596	0.570	0.675	0.512	0.531	0.620	0.594	0.699	0.639	0.613	0.718
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N70	Front side	0.868	0.710	0.875	0.803	0.786	0.864	0.779	0.749	0.887	0.870	0.948	0.857	0.840	0.918
	Back side	0.985	1.023	1.429	0.964	1.134	1.251	0.881	1.045	0.997	1.167	1.284	1.161	1.331	1.448
	Left side	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707	0.707
	Right side	0.119	0.102	0.328	0.149	0.207	0.295	0.064	0.106	0.213	0.271	0.359	0.255	0.313	0.401
	Top side	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043	0.132	0.106	0.211	0.151	0.125	0.230
	Bottom side	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303
NR N71	Front side	0.626	0.468	0.633	0.561	0.544	0.622	0.537	0.507	0.645	0.628	0.706	0.615	0.598	0.676
	Back side	0.526	0.564	0.970	0.505	0.675	0.792	0.422	0.586	0.538	0.708	0.825	0.702	0.872	0.989
	Left side	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166
	Right side	0.367	0.350	0.576	0.397	0.455	0.543	0.312	0.354	0.461	0.519	0.607	0.503	0.561	0.649
	Top side	0.397	0.297	0.378	0.397	0.371	0.476	0.313	0.332	0.421	0.395	0.500	0.440	0.414	0.519
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N77 (3450-3550)	Front side	0.714	0.556	0.721	0.649	0.632	0.710	0.625	0.595	0.733	0.716	0.794	0.703	0.686	0.764
	Back side	0.742	0.780	1.186	0.721	0.891	1.008	0.638	0.802	0.754	0.924	1.041	0.918	1.088	1.205
	Left side	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.439
	Right side	1.239	1.222	1.448	1.269	1.327	1.415	1.184	1.226	1.333	1.391	1.479	1.375	1.433	1.521
	Top side	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043	0.132	0.106	0.211	0.151	0.125	0.230
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N77 (3700-3980)	Front side	0.703	0.545	0.710	0.638	0.621	0.699	0.614	0.584	0.722	0.705	0.783	0.692	0.675	0.753
	Back side	0.928	0.966	1.372	0.907	1.077	1.194	0.824	0.988	0.940	1.110	1.227	1.104	1.274	1.391
	Left side	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696
	Right side	1.101	1.084	1.310	1.131	1.189	1.277	1.046	1.088	1.195	1.253	1.341	1.237	1.295	1.383
	Top side	0.108	0.008	0.089	0.108	0.082	0.187	0.024	0.043	0.132	0.106	0.211	0.151	0.125	0.230
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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0mm:

Band/Test position		SARmax (W/kg)				
		WWAN Max SAR	WiFi 5G&WIFI 6E Ant9	WiFi 5G&WIFI 6E Ant10	WiFi 5G&WIFI 6E MIMO	NFC
		1	2	3	4	5
LTE Band7	Front side	/	0.221	0.065	0.342	/
	Back side	/	0.155	0.401	0.528	0.009
	Left side	3.161	/	/	/	/
	Right side	/	0.294	0.218	0.572	/
	Top side	/	0.191	0.455	0.197	/
	Bottom side	/	/	/	/	/
LTE Band41	Front side	/	0.221	0.065	0.342	/
	Back side	/	0.155	0.401	0.528	0.009
	Left side	2.576	/	/	/	/
	Right side	/	0.294	0.218	0.572	/
	Top side	/	0.191	0.455	0.197	/
	Bottom side	/	/	/	/	/
NR N7	Front side	2.296	0.221	0.065	0.342	/
	Back side	1.325	0.155	0.401	0.528	0.009
	Left side	3.017	/	/	/	/
	Right side	/	0.294	0.218	0.572	/
	Top side	/	0.191	0.455	0.197	/
	Bottom side	/	/	/	/	/
NR N41	Front side	/	0.221	0.065	0.342	/
	Back side	/	0.155	0.401	0.528	0.009
	Left side	3.170	/	/	/	/
	Right side	/	0.294	0.218	0.572	/
	Top side	/	0.191	0.455	0.197	/
	Bottom side	/	/	/	/	/



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Band/Test position		Summed SAR									
		1+2	1+3	1+4	1+5	2+5	3+5	4+5	1+2+5	1+3+5	1+4+5
LTE Band7	Front side	0.221	0.065	0.342	/	0.221	0.065	0.342	0.221	0.065	0.342
	Back side	0.155	0.401	0.528	0.009	0.164	0.410	0.537	0.164	0.410	0.537
	Left side	3.161	3.161	3.161	3.161	/	/	/	3.161	3.161	3.161
	Right side	0.294	0.218	0.572	/	0.294	0.218	0.572	0.294	0.218	0.572
	Top side	0.191	0.455	0.197	/	0.191	0.455	0.197	0.191	0.455	0.197
	Bottom side	/	/	/	/	/	/	/	/	/	/
LTE Band41	Front side	0.221	0.065	0.342	/	0.221	0.065	0.342	0.221	0.065	0.342
	Back side	0.155	0.401	0.528	0.009	0.164	0.410	0.537	0.164	0.410	0.537
	Left side	2.576	2.576	2.576	2.576	/	/	/	2.576	2.576	2.576
	Right side	0.294	0.218	0.572	/	0.294	0.218	0.572	0.294	0.218	0.572
	Top side	0.191	0.455	0.197	/	0.191	0.455	0.197	0.191	0.455	0.197
	Bottom side	/	/	/	/	/	/	/	/	/	/
NR N7	Front side	2.517	2.361	2.638	2.296	0.221	0.065	0.342	2.517	2.361	2.638
	Back side	1.480	1.726	1.853	1.334	0.164	0.410	0.537	1.489	1.735	1.862
	Left side	3.017	3.017	3.017	3.017	/	/	/	3.017	3.017	3.017
	Right side	0.294	0.218	0.572	/	0.294	0.218	0.572	0.294	0.218	0.572
	Top side	0.191	0.455	0.197	/	0.191	0.455	0.197	0.191	0.455	0.197
	Bottom side	/	/	/	/	/	/	/	/	/	/
NR N41	Front side	0.221	0.065	0.342	/	0.221	0.065	0.342	0.221	0.065	0.342
	Back side	0.155	0.401	0.528	0.009	0.164	0.410	0.537	0.164	0.410	0.537
	Left side	3.170	3.170	3.170	3.170	/	/	/	3.170	3.170	3.170
	Right side	0.294	0.218	0.572	/	0.294	0.218	0.572	0.294	0.218	0.572
	Top side	0.191	0.455	0.197	/	0.191	0.455	0.197	0.191	0.455	0.197
	Bottom side	/	/	/	/	/	/	/	/	/	/



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10 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		cDASY6 V16.4.0.5005; cDASY8 V16.4.0.5005; DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483).				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-020	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-023	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-026	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-027	NCR	NCR
☒	Test Phantom	SPEAG	mmWave Phantom	SZ-WSR-A-029	NCR	NCR
☒	DAE	SPEAG	DAE4	SZ-WSR-M-081	2024/8/15	2025/8/14
☒	DAE	SPEAG	DAE4	SZ-WSR-M-031	2024/3/18	2025/3/17
☒	DAE	SPEAG	DAE4ip	SZ-WSR-M-074	2024/8/8	2025/8/7
☒	DAE	SPEAG	DAE4ip	SZ-WSR-M-078	2024/10/18	2025/10/17
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-082	2024/9/19	2025/9/18
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-027	2024/7/17	2025/7/16
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-075	2024/8/29	2025/8/28
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-079	2024/11/20	2025/11/19
☒	E-U Probe	SPEAG	EUmmWV4	SZ-WSR-M-048	2024/8/23	2025/8/22
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16
☒	Validation Kits	SPEAG	D1950V2	SZ-WSR-M-037	2022/10/31	2025/10/30
☒	Validation Kits	SPEAG	D2300V2	SZ-WSR-M-038	2022/06/16	2025/06/15
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2022/06/14	2025/06/13
☒	Validation Kits	SPEAG	D3500V2	SZ-WSR-M-041	2022/09/19	2025/09/18
☒	Validation Kits	SPEAG	D3700V2	SZ-WSR-M-042	2022/09/15	2025/09/14
☒	Validation Kits	SPEAG	D3900V2	SZ-WSR-M-043	2022/09/16	2025/09/15
☒	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31
☒	Validation Kits	SPEAG	D6.5GHzV2	SZ-WSR-M-080	2023/11/11	2026/11/10
☒	Validation Kits	SPEAG	Soure 10 GHz	SZ-WSR-M-049	2023/08/21	2026/08/20
☒	Dielectric parameter probes	SPEAG	DAKS-12	SZ-WSR-M-090	2024/8/20	2025/8/19
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R60	SZ-WSR-M-091	2024/8/20	2025/8/19
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2024/01/30	2025/01/29



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☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2024/05/24	2025/05/23
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2024/8/19	2025/8/18
☒	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR
☒	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2024/01/30	2025/01/29
☒	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
☒	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR
☒	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2024/01/30	2025/01/29
☒	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2024/01/30	2025/01/29
☒	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2024/01/30	2025/01/29
☒	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
☒	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29
☒	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29
☒	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2024/05/28	2025/05/27
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2024/05/28	2025/05/27
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2024/05/28	2025/05/27

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



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11 Calibration certificate

Please see the Appendix C

12 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

--- End of report ---

