



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

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

Report No.: SZCR240300076714

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FCC SAR TEST REPORT

Application No.: SZCR2403000767WM
Applicant: Sonim Technologies, Inc.
Manufacturer: Sonim Technologies, Inc.
EUT Description: smartphone
Model No.: X800
Type No.: S6002
Trade Mark: Sonim
FCC ID: WYPS6002
Standards: FCC 47CFR §2.1093
Date of Receipt: 2024/07/01
Date of Test: 2024/07/04 to 2024/07/30
Date of Issue: 2024/08/06
Test Result : **PASS ***

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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Revision History

Report Number	Revision	Description	Issue Date
SZCR240300076714	01	Original	2024/08/06

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	1.18	0.58	/
GSM1900	0.91	0.73	/
WCDMA Band II	0.91	0.92	/
WCDMA Band IV	1.03	0.89	/
WCDMA Band V	0.64	0.69	/
LTE Band 7	1.00	0.77	2.05
LTE Band 12	0.67	0.29	/
LTE Band 13	0.71	0.50	/
LTE Band 14	0.71	0.53	/
LTE Band 25/2	0.96	1.10	1.77
LTE Band 26/5	0.71	0.67	/
LTE Band 30	0.77	0.55	/
LTE Band 41/38	0.83	0.66	1.25
LTE Band 42	0.81	0.79	/
LTE Band 48	0.86	0.71	/
LTE Band 66/4	1.04	1.00	/
LTE Band 71	0.72	0.24	/
NR Band n7	0.85	0.63	1.71
NR Band n14	0.86	0.53	/
NR Band n25/2	0.79	0.85	/
NR Band n26/5	0.98	0.89	/
NR Band n30	1.13	0.35	/
NR Band n41/38	0.79	0.95	1.72
NR Band n48	0.80	0.80	/
NR Band n66	1.04	0.93	/
NR Band n70	0.40	0.75	/
NR Band n71	0.84	0.36	/
NR Band n77	1.20	1.20	/
NR Band n78	0.79	0.97	/
WI-FI (2.4GHz)	0.63	0.79	/
WI-FI (5GHz)	0.95	0.77	1.32
WI-FI 6E	0.52	0.54	0.88
BT	0.47	0.18	/
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	1.57	1.59	2.90
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 band 25 (frequency range: 1930-1990MHz). SAR in LTE band 4 (frequency range: 1710-1755 MHz) is covered by LTE band 66 (frequency range: 1710-1780 MHz). SAR in LTE band 5 (frequency range: 824-849 MHz) are covered by LTE band 26 (frequency range: 814-849 MHz). 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	8.86
PD Limited(W/m ²)	10.0



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1 General Information

1.1 Details of Client

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

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Claire Shen, Charley Yi, Mike Li, Durant Lin, Bernie Zhuang, Messi Chen, James Zheng, Ethan Li

1.3 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

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

• **VCCI (Member No. 1937)**

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

• **FCC –Designation Number: CN1336**

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

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

• **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0006.

IC#: 4620C.



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1.4 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:	351348280016666, 351348280016500, 351348280016849 351348280016443, 351348280016633		
Hardware Version:	V1.0		
Software Version:	X80.0-01-14.0-15.26.00		
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 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
WIFI 2.4G	2412~2462	2412~2462



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	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: *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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1.4.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix F

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.

1.4.2 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 designed 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	2.3
Exposure position	Frequency band	PD Regulatory Limit W/m ² (4cm ²)	PD design target W/m ² (4cm ²)
Power Density	NR FR2	10.0	6.0

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&Receive off
					DSI4	DSI1	DSI0
GSM	GSM850 2TS	ANT1	23.0	2.0	21.0	23.0	23.0
GSM	GSM1900 4TS	ANT2	21.0	2.0	17.0	21.0	21.0
WCDMA	WB2	ANT2	23.0	1.5	16.5	22.0	22.0
WCDMA	WB4	ANT2	23.0	1.5	17.0	22.5	23.0
WCDMA	WB5	ANT1	24.0	1.0	20.0	24.0	24.0
LTE	B2	ANT2	23.0	1.5	17.0	22.0	22.0
LTE	B2	ANT5	24.0	1.0	24.0	24.0	24.0
LTE	B4	ANT2	23.0	1.5	17.0	23.0	23.0
LTE	B4	ANT5	24.0	1.0	24.0	24.0	24.0
LTE	B5	ANT1	24.0	1.0	20.0	24.0	24.0
LTE	B7	ANT2	23.5	1.0	18.0	21.0	23.5
LTE	B7	ANT5	24.0	1.0	24.0	24.0	24.0
LTE	B12	ANT1	24.0	1.0	23.0	24.0	24.0
LTE	B13	ANT1	24.0	1.0	21.5	24.0	24.0
LTE	B14	ANT1	24.0	1.0	21.5	24.0	24.0
LTE	B25	ANT2	23.0	1.5	17.0	22.0	22.0
LTE	B25	ANT5	24.0	1.0	24.0	23.0	24.0
LTE	B26	ANT1	24.0	1.0	20.0	24.0	24.0
LTE	B30	ANT2	23.0	1.5	19.5	23.0	23.0
LTE	B38	ANT2	22.0	1.0	16.5	18.5	22.0
LTE	B41 PC2	ANT2	22.4	1.0	16.9	18.4	22.4



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LTE	B41 PC3	ANT2	22.0	1.0	16.5	18.0	22.0
LTE	B42	ANT3	21.5	1.0	18.0	21.0	21.0
LTE	B48	ANT3	20.0	2.0	16.5	20.0	20.0
LTE	B66	ANT2	23.0	1.5	17.0	23.0	23.0
LTE	B66	ANT5	24.0	1.0	24.0	24.0	24.0
LTE	B71	ANT1	24.0	1.0	22.5	24.0	24.0
NR	N2	ANT2	23.0	2.0	15.5	20.5	20.5
NR	N5	ANT1	23.0	2.0	19.0	23.0	23.0
NR	N7	ANT2	23.0	2.0	15.5	19.5	23.0
NR	N7	ANT5	23.0	2.0	23.0	23.0	23.0
NR	N14	ANT1	23.0	2.0	20.5	23.0	23.0
NR	N25	ANT2	23.0	2.0	15.5	20.5	20.5
NR	N26	ANT1	23.0	2.0	19.0	23.0	23.0
NR	N30	ANT2	23.5	2.0	20.0	23.5	23.5
NR	N38	ANT2	23.0	2.0	14.0	18.0	23.0
NR	N41 PC2	ANT2	26.0	2.0	15.5	19.5	23.5
NR	N41 PC3	ANT2	24.0	2.0	15.5	19.5	23.5
NR	N48	ANT3	22.0	2.0	18.5	22.0	22.0
NR	N66	ANT2	23.0	2.0	16.5	21.5	21.5
NR	N70	ANT5	22.0	2.0	22.0	22.0	22.0
NR	N71	ANT1	23.0	2.0	21.5	23.0	23.0
NR	N77 3450-3550 PC2	ANT3	25.0	2.0	18.5	22.0	22.0
NR	N77 3450-3550 PC3	ANT3	23.0	2.0	18.5	22.0	22.0
NR	N77 3700-3980 PC2	ANT3	25.0	2.0	19.0	22.5	22.5
NR	N77 3700-3980 PC3	ANT3	23.0	2.0	19.0	22.5	22.5
NR	N78 3450-3550 PC2	ANT3	25.0	2.0	18.0	21.5	21.5
NR	N78 3450-3550 PC3	ANT3	23.0	2.0	18.0	21.5	21.5
NR	N78 3700-3800 PC2	ANT3	26.0	2.0	18.5	21.0	21.0
NR	N78 3700-3800 PC3	ANT3	24.0	2.0	18.5	21.0	21.0
NR	N77 3450-3550 PC2	ANT7	26.0	2.0	18.0	21.0	21.0
NR	N77 3450-3550 PC3	ANT7	24.0	2.0	18.0	21.0	21.0
NR	N77 3700-3980 PC2	ANT7	25.0	2.0	22.0	23.5	23.5
NR	N77 3700-3980 PC3	ANT7	23.0	2.0	22.0	23.0	23.0
NR	N78 3450-3550 PC2	ANT7	26.0	2.0	19.0	21.5	21.5
NR	N78 3450-3550 PC3	ANT7	24.0	2.0	19.0	21.5	21.5
NR	N78 3700-3800 PC2	ANT7	26.0	2.0	21.0	23.0	23.0
NR	N78 3700-3800 PC3	ANT7	24.0	2.0	21.0	23.0	23.0

Note:

- 1) *Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + Total uncertainty.
- 2) The max allowed output power is the Plimit + Total uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.
- 3) Note that WLAN operations are not enabled with Smart Transmit.

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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1.4.3 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.



1.5 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

1.6 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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1.7 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

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

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 $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

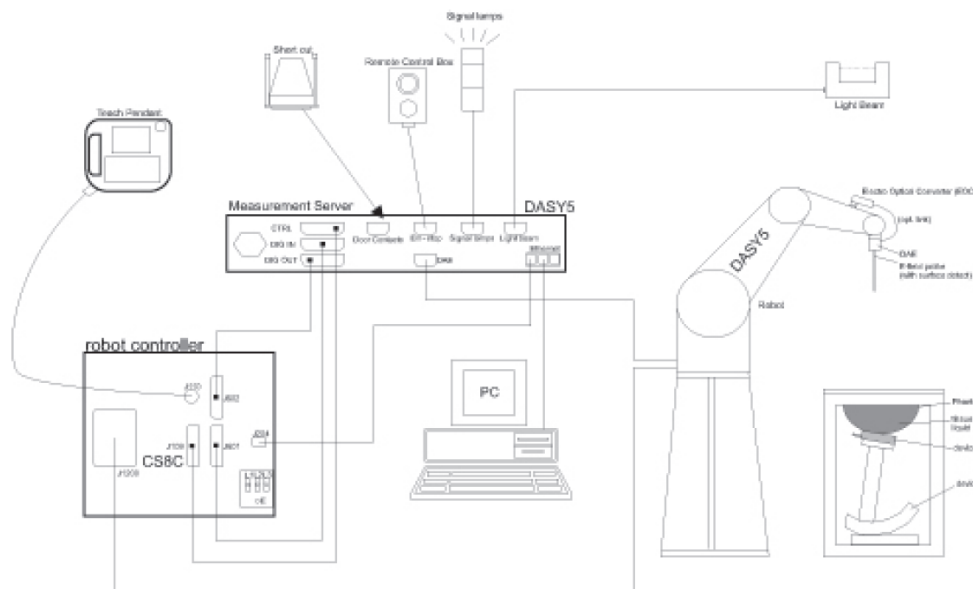
The DASY system for performing compliance tests consists of the following items:

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.



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:

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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

E-field probes:



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

H-field probes:

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

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

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

[mV/(V/m)²] for E-field Probes

$ConvF$ = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

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

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

ϵ = equivalent tissue density in g/cm³

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

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

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

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

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



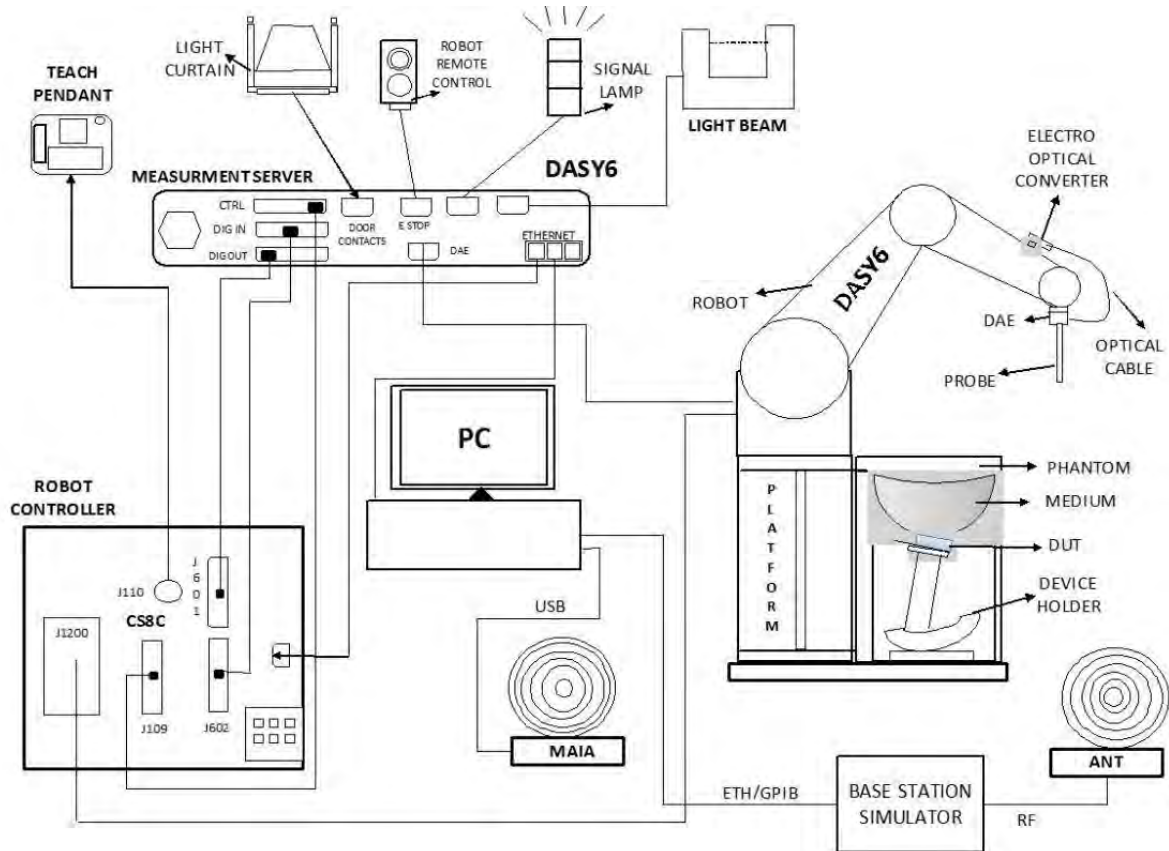
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3.8 Power density measurement system

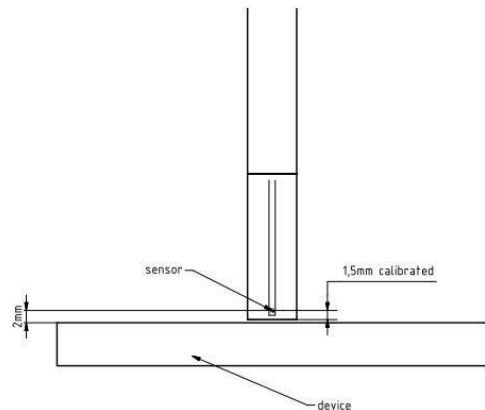
Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.



Measurement System Configuration

3.9 EUmmWaVe probe

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



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

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/ $k^{(b)}$	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) k 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.

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



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5 Description of Test Position

5.1 The Head Test Position

5.1.1 SAM Phantom Shape

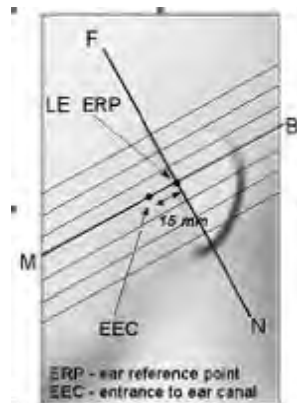


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

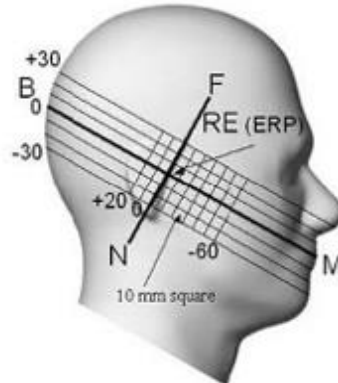
Note: The centre strip including the nose region has a different thickness tolerance.



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

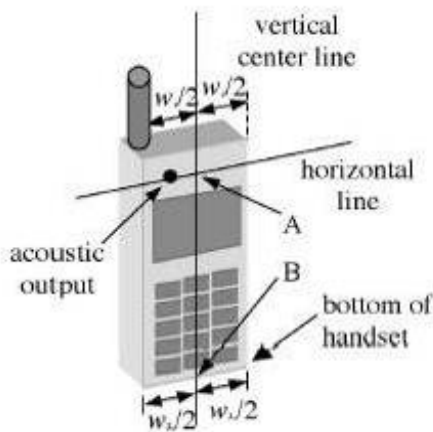


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

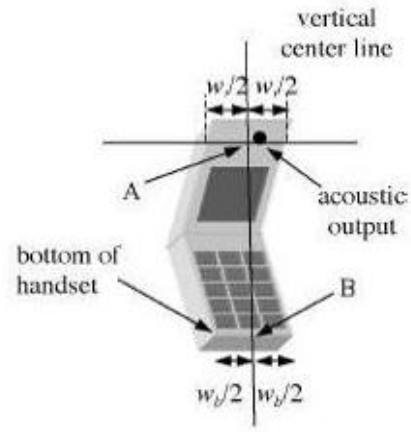


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



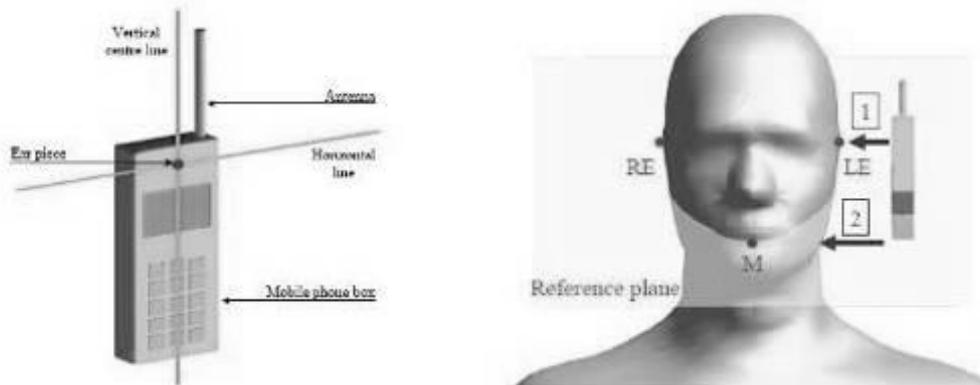
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

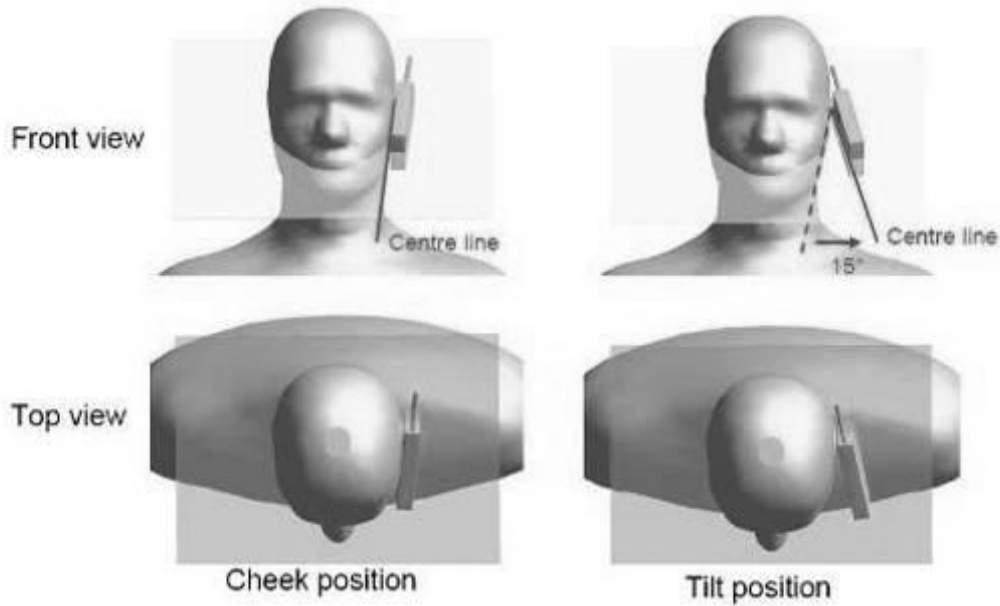
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with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

5.1.4 Definition of the “tilted” position

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



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



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

5.2 The Body Test Position

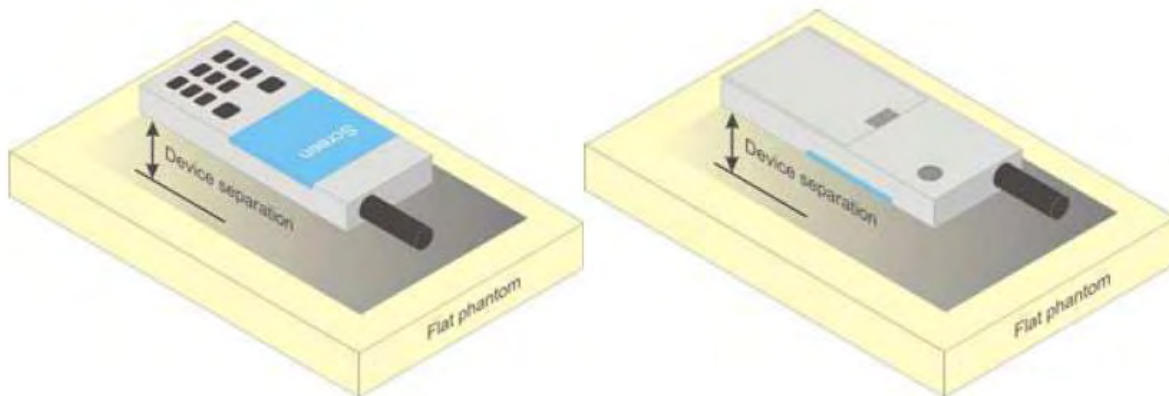
5.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

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

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

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



F-11. Test positions for body-worn devices

5.2.2 Wireless Router exposure conditions

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

5.3 Extremity exposure conditions

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet". The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

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

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)	Product Specific 10-g SAR Exclusion
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1 50	21350/2560	1:1	0.428	0.198	-0.17	21.51	24.50	1.991	0.852	Yes
Back side	20	QPSK 1 50	21350/2560	1:1	0.352	0.168	0.04	21.51	24.50	1.991	0.701	Yes
Left side	20	QPSK 1 50	21350/2560	1:1	0.686	0.303	0.07	21.51	24.50	1.991	1.366	No
Top side	20	QPSK 1 50	21350/2560	1:1	0.075	0.038	0.16	21.51	24.50	1.991	0.149	Yes
Left side	20	QPSK 1 0	20850/2510	1:1	0.523	0.248	-0.14	21.46	24.50	2.014	1.053	Yes
Left side	20	QPSK 1 50	21100/2535	1:1	0.529	0.225	0.04	21.44	24.50	2.023	1.070	Yes
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50 25	21350/2560	1:1	0.415	0.189	-0.11	21.72	24.50	1.897	0.787	Yes
Back side	20	QPSK 50 25	21350/2560	1:1	0.375	0.173	-0.06	21.72	24.50	1.897	0.711	Yes
Left side	20	QPSK 50 25	21350/2560	1:1	0.688	0.296	0.15	21.72	24.50	1.897	1.305	No
Top side	20	QPSK 50 25	21350/2560	1:1	0.073	0.036	0.10	21.72	24.50	1.897	0.138	Yes
Left side	20	QPSK 50 50	20850/2510	1:1	0.435	0.188	0.05	21.55	24.50	1.972	0.858	Yes
Left side	20	QPSK 50 25	21100/2535	1:1	0.544	0.236	-0.06	21.52	24.50	1.986	1.080	Yes
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI1												
Left side	20	QPSK 100 0	21350/2560	1:1	0.687	0.297	-0.16	21.63	24.50	1.936	1.330	No

LTE Band 25 SAR Test Record												
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)	Product Specific 10-g SAR Exclusion
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1 0	26590/1905	1:1	0.441	0.266	0.00	22.79	25.00	1.750	0.772	Yes
Back side	20	QPSK 1 0	26590/1905	1:1	0.650	0.374	-0.19	22.79	25.00	1.750	1.138	Yes
Left side	20	QPSK 1 0	26590/1905	1:1	0.688	0.381	-0.13	22.79	25.00	1.750	1.204	No
Bottom side	20	QPSK 1 0	26590/1905	1:1	0.177	0.100	0.19	22.79	25.00	1.750	0.310	Yes
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50 25	26590/1905	1:1	0.486	0.286	0.02	22.92	25.00	1.614	0.785	Yes
Back side	20	QPSK 50 25	26590/1905	1:1	0.654	0.374	0.16	22.92	25.00	1.614	1.056	Yes
Left side	20	QPSK 50 25	26590/1905	1:1	0.682	0.385	-0.19	22.92	25.00	1.614	1.101	Yes



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Bottom side	20	QPSK 50 25	26590/1905	1:1	0.174	0.098	0.06	22.92	25.00	1.614	0.281	Yes
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LTE Band 38 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)	Product Specific 10-g SAR Exclusion
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1 50	38150/2610	1:1.58	0.324	0.145	-0.17	21.26	25.00	2.366	0.767	Yes
Back side	20	QPSK 1 50	38150/2610	1:1.58	0.348	0.159	0.09	21.26	25.00	2.366	0.823	Yes
Left side	20	QPSK 1 50	38150/2610	1:1.58	0.575	0.252	0.11	21.26	25.00	2.366	1.360	No
Top side	20	QPSK 1 50	38150/2610	1:1.58	0.046	0.025	0.05	21.26	25.00	2.366	0.109	Yes
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50 25	38000/2595	1:1.58	0.272	0.127	0.10	21.34	25.00	2.323	0.632	Yes
Back side	20	QPSK 50 25	38000/2595	1:1.58	0.316	0.146	-0.01	21.34	25.00	2.323	0.734	Yes
Left side	20	QPSK 50 25	38000/2595	1:1.58	0.585	0.254	0.18	21.34	25.00	2.323	1.359	No
Top side	20	QPSK 50 25	38000/2595	1:1.58	0.045	0.025	0.13	21.34	25.00	2.323	0.105	Yes

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)	Product Specific 10-g SAR Exclusion
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1 50	41490/2680	1:1.58	0.158	0.072	-0.02	20.51	25.00	2.812	0.444	Yes
Back side	20	QPSK 1 50	41490/2680	1:1.58	0.287	0.133	-0.15	20.51	25.00	2.812	0.807	Yes
Left side	20	QPSK 1 50	41490/2680	1:1.58	0.593	0.259	-0.02	20.51	25.00	2.812	1.667	No
Top side	20	QPSK 1 50	41490/2680	1:1.58	0.037	0.021	0.00	20.51	25.00	2.812	0.104	Yes
Left side	20	QPSK 1 99	39750/2506	1:1.58	0.229	0.099	-0.09	20.27	25.00	2.972	0.681	Yes
Left side	20	QPSK 1 50	40185/2549.5	1:1.58	0.321	0.137	-0.12	20.28	25.00	2.965	0.952	Yes
Left side	20	QPSK 1 50	40620/2593	1:1.58	0.486	0.208	0.17	20.49	25.00	2.825	1.373	No
Left side	20	QPSK 1 99	41055/2636.5	1:1.58	0.317	0.140	0.14	20.44	25.00	2.858	0.906	Yes
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50 25	41490/2680	1:1.58	0.163	0.075	-0.18	20.49	25.00	2.825	0.460	Yes
Back side	20	QPSK 50 25	41490/2680	1:1.58	0.280	0.131	0.17	20.49	25.00	2.825	0.791	Yes
Left side	20	QPSK 50 25	41490/2680	1:1.58	0.565	0.244	-0.03	20.49	25.00	2.825	1.596	No
Top side	20	QPSK 50 25	41490/2680	1:1.58	0.042	0.022	-0.11	20.49	25.00	2.825	0.119	Yes
Left side	20	QPSK 50 50	39750/2506	1:1.58	0.221	0.095	0.12	20.30	25.00	2.951	0.652	Yes
Left side	20	QPSK 50 50	40185/2549.5	1:1.58	0.337	0.144	0.06	20.28	25.00	2.965	0.999	Yes
Left side	20	QPSK 50 0	40620/2593	1:1.58	0.473	0.201	0.02	20.47	25.00	2.838	1.342	No
Left side	20	QPSK 50 0	41055/2636.5	1:1.58	0.575	0.255	-0.12	20.44	25.00	2.858	1.643	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)	Product Specific 10-g SAR Exclusion
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1 104	507000/2535	100%	0.379	0.173	-0.10	20.85	25.00	2.600	0.985	Yes
Back side	20	QPSK 1 104	507000/2535	100%	0.354	0.170	-0.06	20.85	25.00	2.600	0.920	Yes
Left side	20	QPSK 1 104	507000/2535	100%	0.466	0.213	-0.03	20.85	25.00	2.600	1.212	No
Top side	20	QPSK 1 104	507000/2535	100%	0.076	0.038	0.14	20.85	25.00	2.600	0.198	Yes
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50 28	502000/2510	100%	0.267	0.127	0.03	20.95	25.00	2.541	0.678	Yes
Back side	20	QPSK 50 28	502000/2510	100%	0.273	0.128	0.15	20.95	25.00	2.541	0.694	Yes
Left side	20	QPSK 50 28	502000/2510	100%	0.447	0.191	0.02	20.95	25.00	2.541	1.136	Yes
Top side	20	QPSK 50 28	502000/2510	100%	0.090	0.046	0.01	20.95	25.00	2.541	0.229	Yes

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)	Product Specific 10-g SAR Exclusion
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	100	QPSK 1 271	528000/2640	100%	0.282	0.128	-0.13	20.91	25.50	2.877	0.811	Yes
Back side	100	QPSK 1 271	528000/2640	100%	0.386	0.184	0.00	20.91	25.50	2.877	1.111	Yes
Left side	100	QPSK 1 271	528000/2640	100%	0.605	0.265	-0.08	20.91	25.50	2.877	1.741	No
Top side	100	QPSK 1 271	528000/2640	100%	0.054	0.029	-0.01	20.91	25.50	2.877	0.155	Yes
Left side	100	QPSK 1 271	509202/2546.01	100%	0.576	0.261	-0.07	19.81	25.50	3.707	2.135	No
Left side	100	QPSK 1 271	513900/2569.5	100%	0.658	0.288	0.10	20.77	25.50	2.972	1.955	No
Left side	100	QPSK 1 137	518598/2592.99	100%	0.614	0.260	-0.02	20.80	25.50	2.951	1.812	No
Left side	100	QPSK 1 137	523302/2616.51	100%	0.680	0.297	0.04	20.80	25.50	2.951	2.007	No
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	100	QPSK 135 69	523302/2616.51	100%	0.382	0.177	0.05	20.77	25.50	2.972	1.135	Yes
Back side	100	QPSK 135 69	523302/2616.51	100%	0.398	0.203	0.01	20.77	25.50	2.972	1.183	Yes
Left side	100	QPSK 135 69	523302/2616.51	100%	0.581	0.260	-0.07	20.77	25.50	2.972	1.727	No
Top side	100	QPSK 135 69	523302/2616.51	100%	0.064	0.026	-0.12	20.77	25.50	2.972	0.190	Yes



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Left side	100	QPSK 135 69	509202/2546.01	100%	0.519	0.221	-0.08	19.88	25.50	3.648	1.893	No
Left side	100	QPSK 135 69	513900/2569.5	100%	0.500	0.212	-0.01	20.72	25.50	3.006	1.503	No
Left side	100	QPSK 135 69	518598/2592.99	100%	0.599	0.254	-0.12	20.71	25.50	3.013	1.805	No
Left side	100	QPSK 135 69	528000/2640	100%	0.698	0.296	0.15	20.73	25.50	2.999	2.093	No
Body worn/Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI1												
Left side	100	QPSK 270 0	513900/2569.5	100%	0.522	0.221	-0.16	19.73	25.50	3.776	1.971	No



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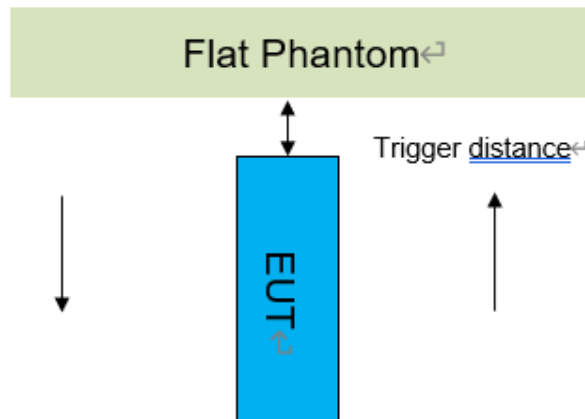
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5.4 Proximity Sensor Triggering Test

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.



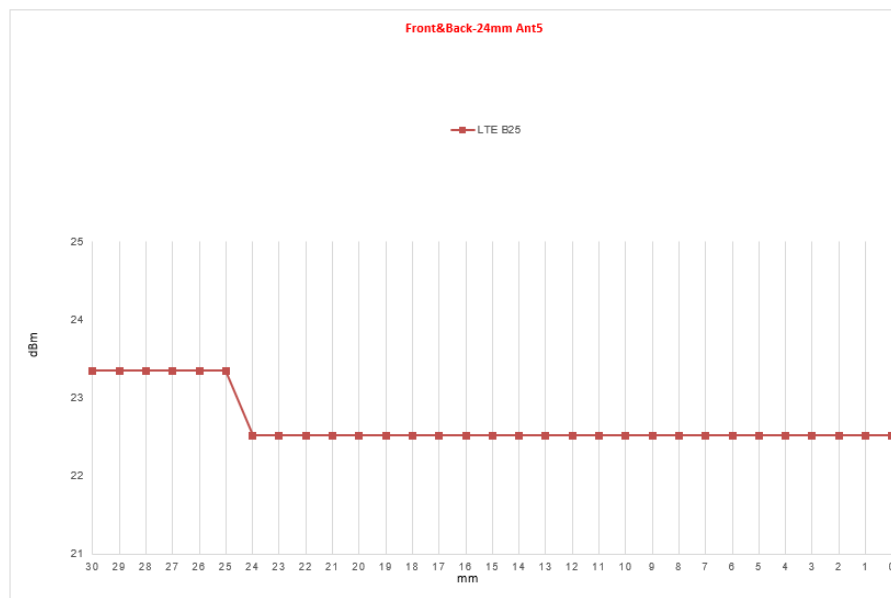
Proximity Sensor Triggering Distance(mm)		
Ant No.	Ant2	Ant5
Band	WCDMA Band IV LTE Band7/B38/B41 NR N7/38/41	LTE Band25
Position	Front Side 16mm Back Side 16mm Left Side 20mm Top Side 11mm	Front Side 24mm Back Side 24mm Left Side 20mm Bottom Side 29mm

Note:

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

● DUT Moving Toward(Trigger)the Phantom





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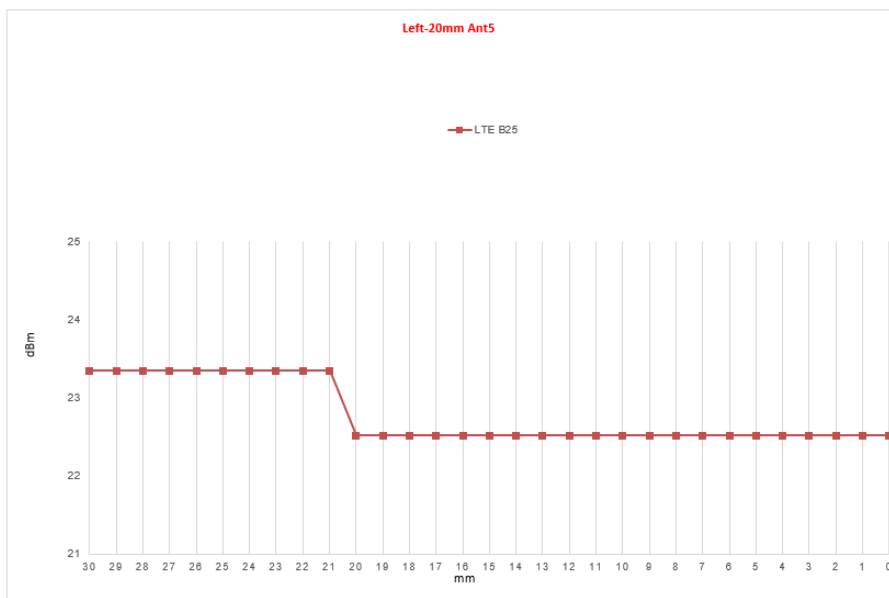
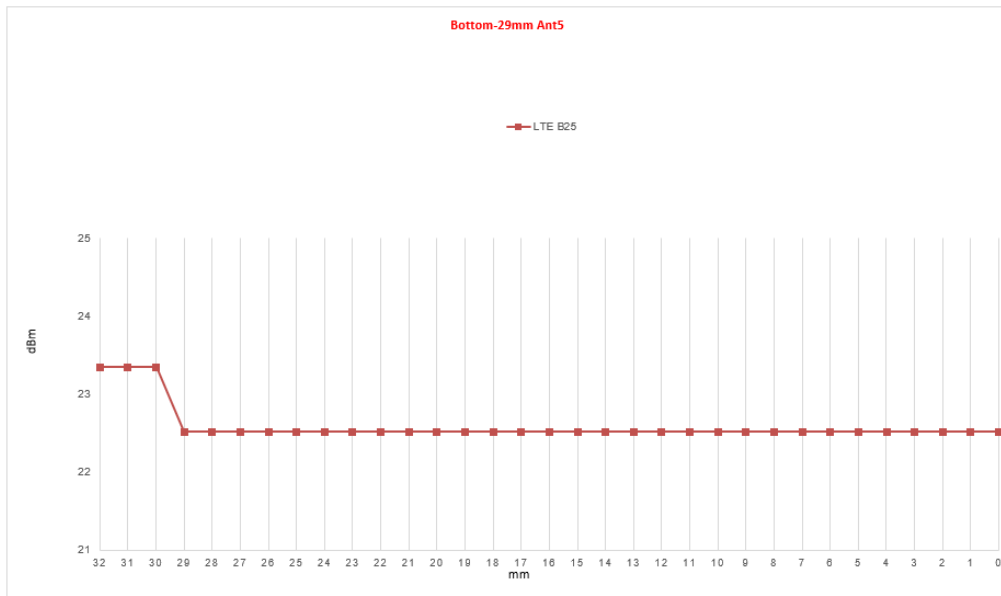
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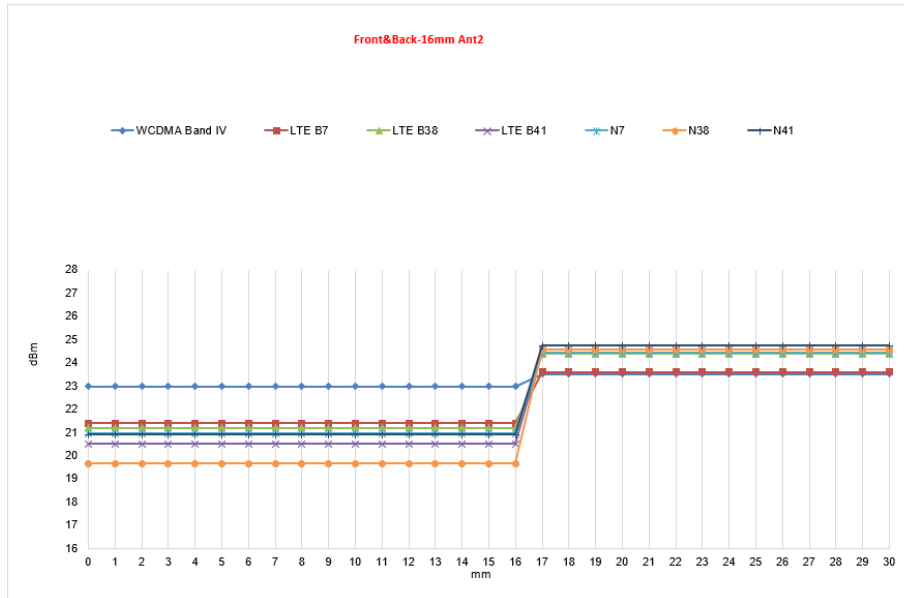


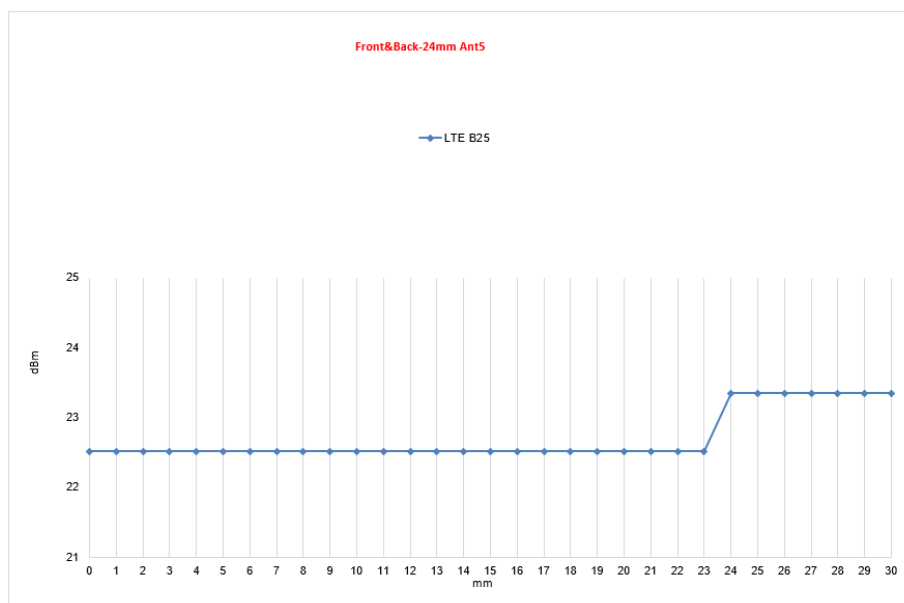
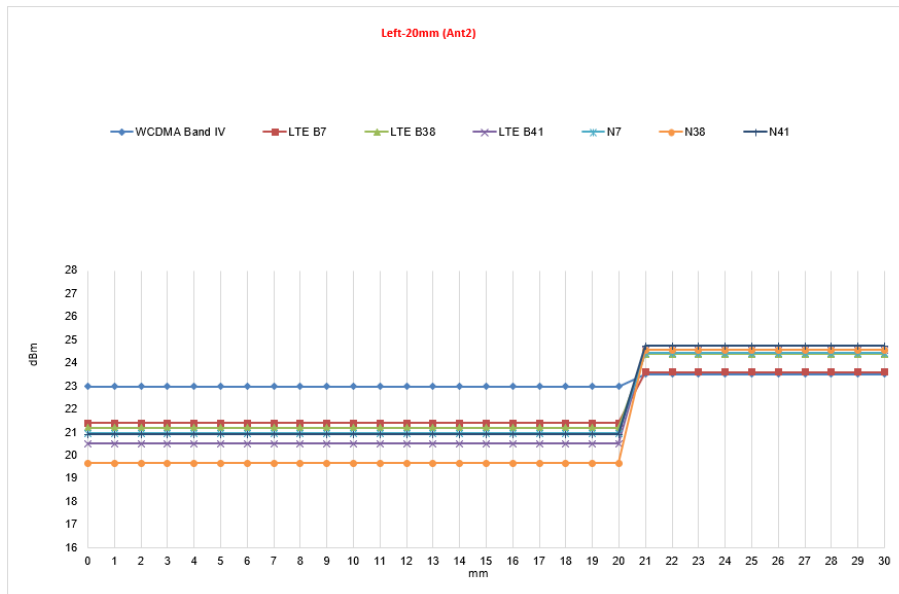
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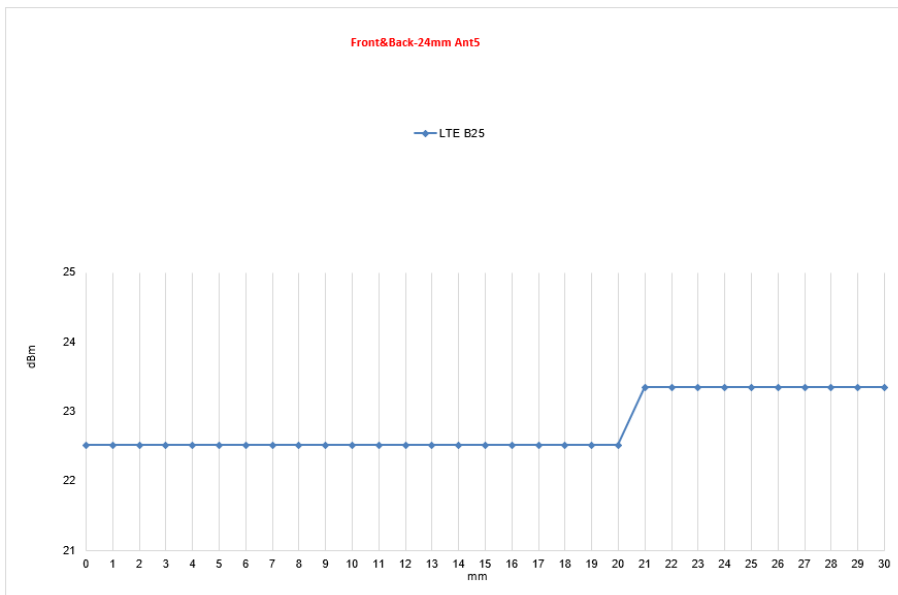
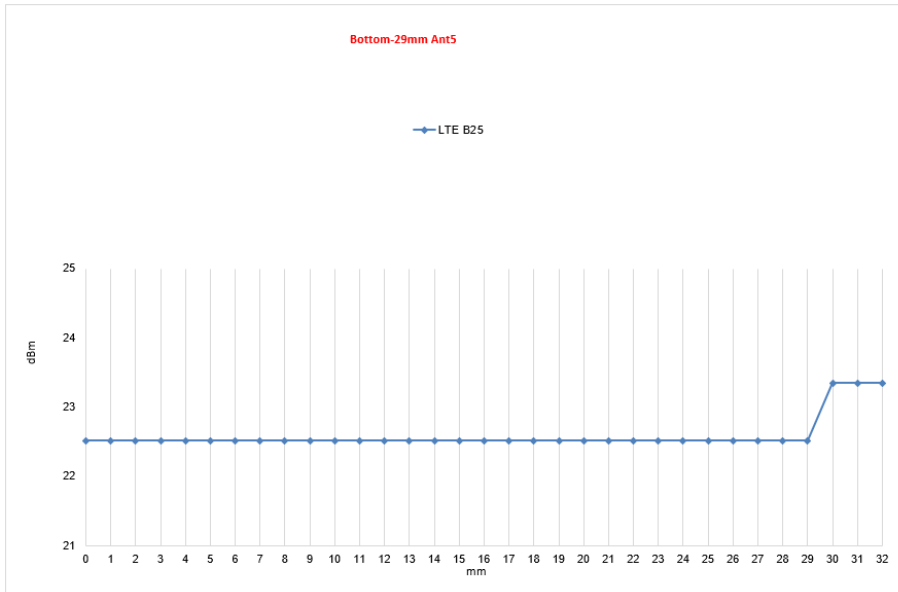
● DUT Moving Away(Release) from the Phantom





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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.



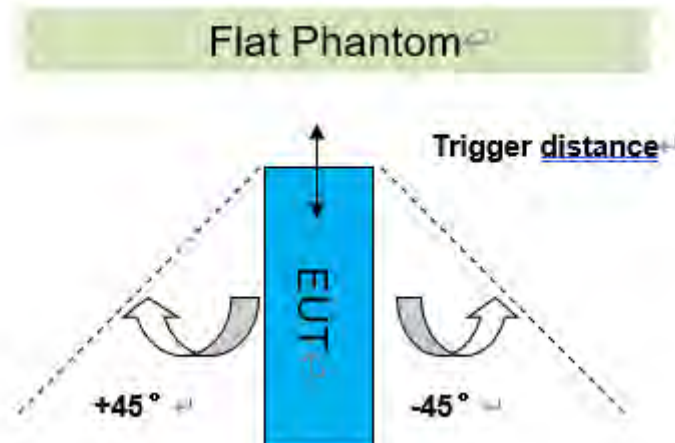
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Device tilt angle influences on proximity sensor triggering

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

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



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

Band (MHz)	Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over ±45°	Power Reduction Status											
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
Ant2: WCDMA Band IV 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	
Ant5: LTE Band25	Left Side 20mm Bottom Side 29mm	Left Side 20mm Bottom Side 29mm	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 MQ+ 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	42.721	0.876	41.90	0.89	1.96%	-1.57%	22.0	2024/7/18
750 Head	750	42.544	0.855	41.90	0.89	1.54%	-3.93%	22.2	2024/7/19
750 Head	750	41.649	0.895	41.90	0.89	-0.60%	0.56%	22.1	2024/7/22
835 Head	835	41.930	0.907	41.50	0.90	1.04%	0.78%	22.0	2024/7/17
835 Head	835	42.484	0.926	41.50	0.90	2.37%	2.89%	22.3	2024/7/20
1750 Head	1750	39.159	1.332	40.10	1.37	-2.35%	-2.77%	22.5	2024/7/21
1750 Head	1750	39.047	1.321	40.10	1.37	-2.63%	-3.58%	22.3	2024/7/22
1900 Head	1900	39.676	1.426	40.00	1.40	-0.81%	1.86%	21.8	2024/7/20
1900 Head	1900	40.564	1.414	40.00	1.40	1.41%	1.00%	21.9	2024/7/23
2300 Head	2300	38.782	1.649	39.50	1.67	-1.82%	-1.26%	22.2	2024/7/22
2450 Head	2450	38.200	1.880	39.20	1.80	-2.55%	4.44%	22.0	2024/7/5
2450 Head	2450	38.166	1.813	39.20	1.80	-2.64%	0.72%	22.1	2024/7/25
2600 Head	2600	37.722	1.968	39.00	1.96	-3.28%	0.41%	22.3	2024/7/19
2600 Head	2600	37.676	1.982	39.00	1.96	-3.39%	1.12%	22.1	2024/7/23
2600 Head	2600	37.661	1.979	39.00	1.96	-3.43%	0.97%	22.1	2024/7/24
3500 Head	3500	37.500	2.840	37.90	2.91	-1.06%	-2.41%	22.1	2024/7/24
3500 Head	3500	37.700	2.830	37.90	2.91	-0.53%	-2.75%	22.4	2024/7/26
3500 Head	3500	37.800	2.860	37.90	2.91	-0.26%	-1.72%	22.1	2024/7/27
3500 Head	3500	37.600	2.840	37.90	2.91	-0.79%	-2.41%	22.4	2024/7/29
3700 Head	3700	37.100	3.050	37.70	3.12	-1.59%	-2.24%	22.4	2024/7/23
3700 Head	3700	37.000	3.020	37.70	3.12	-1.86%	-3.21%	22.4	2024/7/26
3700 Head	3700	36.800	3.030	37.70	3.12	-2.39%	-2.88%	22.4	2024/7/28
3900 Head	3900	36.400	3.270	37.50	3.32	-2.93%	-1.51%	22.4	2024/7/25
5250 Head	5250	35.901	4.738	35.90	4.66	0.00%	1.67%	22.2	2024/7/8
5250 Head	5250	36.661	4.861	35.90	4.66	2.12%	4.31%	22.3	2024/7/10
5600 Head	5600	35.793	5.254	35.50	5.07	0.83%	3.63%	22.5	2024/7/12
5750 Head	5750	35.612	5.451	35.40	5.22	0.60%	4.43%	22.1	2024/7/8
6500 Head	6500	34.000	6.220	34.50	6.07	-1.45%	2.47%	22.1	2024/7/9

Table 5 : Measurement result of Tissue electric parameters



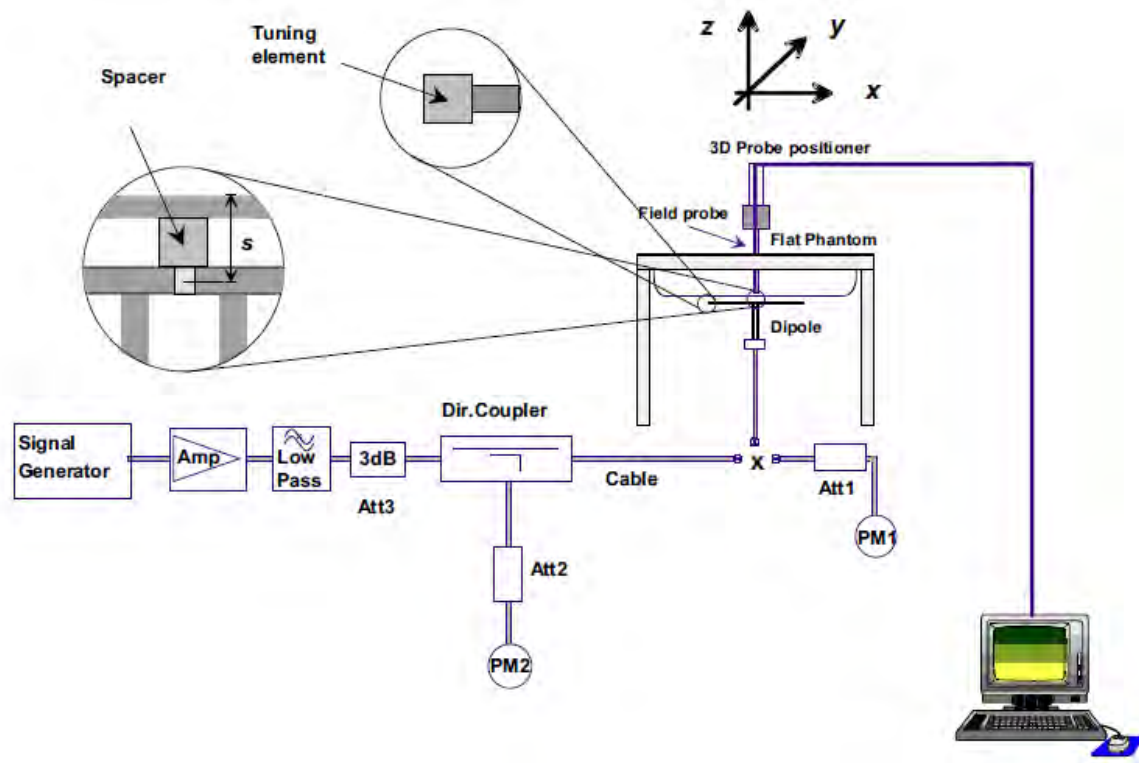
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6.2 SAR System Check

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)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D750V3	Head	1.91	1.27	7.64	5.08	8.37	5.53	-8.72%	-8.14%	22.0	2024/7/18
D750V3	Head	1.95	1.29	7.80	5.16	8.37	5.53	-6.81%	-6.69%	22.2	2024/7/19
D750V3	Head	1.96	1.31	7.84	5.24	8.37	5.53	-6.33%	-5.24%	22.1	2024/7/22
D835V2	Head	2.39	1.57	9.56	6.28	9.53	6.29	0.31%	-0.16%	22.0	2024/7/17
D835V2	Head	2.37	1.56	9.48	6.24	9.53	6.29	-0.52%	-0.79%	22.3	2024/7/20
D1750V2	Head	9.35	5.00	37.40	20.00	36.60	19.30	2.19%	3.63%	22.5	2024/7/21
D1750V2	Head	8.88	4.75	35.52	19.00	36.60	19.30	-2.95%	-1.55%	22.3	2024/7/22
D1900V2	Head	10	5.13	40.00	20.52	39.50	20.60	1.27%	-0.39%	21.8	2024/7/20
D1900V2	Head	10.1	5.17	40.40	20.68	39.50	20.60	2.28%	0.39%	21.9	2024/7/23
D2300V2	Head	12.80	6.16	51.20	24.64	48.70	23.30	5.13%	5.75%	22.2	2024/7/22
D2450V2	Head	13.80	6.34	55.20	25.36	52.20	24.30	5.75%	4.36%	22.0	2024/7/5
D2450V2	Head	12.10	5.78	48.40	23.12	52.20	24.30	-7.28%	-4.86%	22.1	2024/7/25
D2600V2	Head	15.50	7.02	62.00	28.08	57.70	25.80	7.45%	8.84%	22.3	2024/7/19
D2600V2	Head	15.40	6.96	61.60	27.84	57.70	25.80	6.76%	7.91%	22.1	2024/7/23
D2600V2	Head	15.80	7.05	63.20	28.20	57.70	25.80	9.53%	9.30%	22.1	2024/7/24
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)	6.36	2.52	63.60	25.20	65.80	25.70	-3.34%	-1.95%	22.1	2024/7/24
	Head(3.5GHz)	7.07	2.80	70.70	28.00	65.80	25.70	7.45%	8.95%	22.4	2024/7/26
	Head(3.5GHz)	6.09	2.41	60.90	24.10	65.80	25.70	-7.45%	-6.23%	22.1	2024/7/27
	Head(3.5GHz)	6.50	2.57	65.00	25.70	65.80	25.70	-1.22%	0.00%	22.4	2024/7/29
D3700V2	Head(3.7GHz)	6.18	2.37	61.80	23.70	66.10	24.70	-6.51%	-4.05%	22.1	2024/7/23
	Head(3.7GHz)	6.20	2.40	62.00	24.00	66.10	24.70	-6.20%	-2.83%	22.4	2024/7/26
	Head(3.7GHz)	6.93	2.67	69.30	26.70	66.10	24.70	4.84%	8.10%	22.4	2024/7/28
D3900V2	Head(3.9GHz)	6.78	2.48	67.80	24.80	66.70	23.80	1.65%	4.20%	22.4	2024/7/25
D5GHzV2	Head(5.25GHz)	7.96	2.25	79.60	22.50	77.30	22.10	2.98%	1.81%	22.2	2024/7/8
	Head(5.25GHz)	7.51	2.17	75.10	21.70	77.30	22.10	-2.85%	-1.81%	22.3	2024/7/10
	Head(5.6GHz)	7.71	2.20	77.10	22.00	81.30	23.10	-5.17%	-4.76%	22.5	2024/7/12
	Head(5.75GHz)	8.08	2.31	80.80	23.10	77.10	21.30	4.80%	8.45%	22.1	2024/7/8
D6500V2	Head(6.5GHz)	28.90	5.48	289.00	54.80	291.00	53.90	-0.69%	1.67%	22.1	2024/7/9

Table 6 : SAR System Check Result



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6.2.3 Detailed System Check Results

Please see the Appendix A



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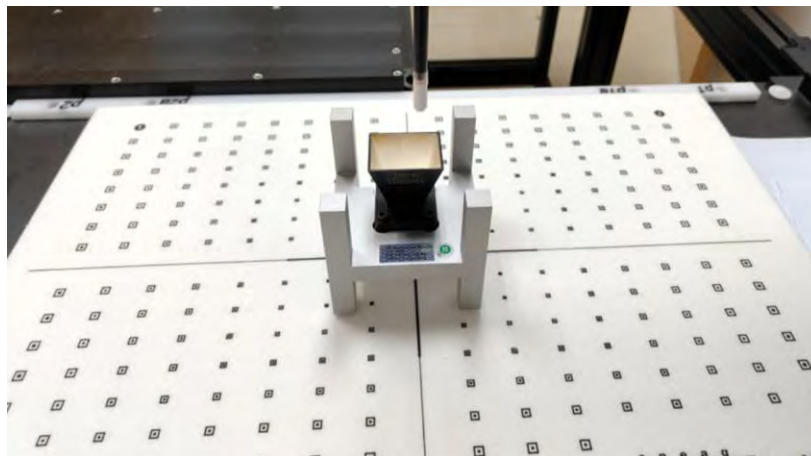
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7 PD System Check

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.

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	
10GHz Source	195	174	0.49	2024/7/22
10GHz Source	183	174	0.22	2024/7/24

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.



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2) . Head SAR

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

3) . Body SAR

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

4) . HSDPA / HSUPA

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

a) HSDPA

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

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

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

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

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

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

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

Table 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 ¹⁾	$\beta_{c\downarrow}$	$\beta_{d\downarrow}$	β_d (SF) ²⁾	β_c/β_d	$\beta_{hs}(1)$ ³⁾	β_{acc}	β_{ed}	$\beta_{c\downarrow}$ (SF) ⁴⁾	$\beta_{ed\downarrow}$ (code) ⁴⁾	CM(2) ⁴⁾ (dB) ⁴⁾	MP R _x ⁴⁾ (dB) ⁴⁾	AG ⁽⁴⁾ Inde x ⁴⁾	E-TFC I ⁴⁾
1 ⁴⁾	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ⁴⁾	11/15 ⁽³⁾	22/15 ⁴⁾	209/225 ⁴⁾	1039/225 ⁴⁾	4 ⁴⁾	1 ⁴⁾	1.0 ⁴⁾	0.0 ⁴⁾	20 ⁴⁾	75 ⁴⁾
2 ⁴⁾	6/15 ⁴⁾	15/15 ⁴⁾	64 ⁴⁾	6/15 ⁴⁾	12/15 ⁴⁾	12/15 ⁴⁾	94/75 ⁴⁾	4 ⁴⁾	1 ⁴⁾	3.0 ⁴⁾	2.0 ⁴⁾	12 ⁴⁾	67 ⁴⁾
3 ⁴⁾	15/15 ⁴⁾	9/15 ⁴⁾	64 ⁴⁾	15/9 ⁴⁾	30/15 ⁴⁾	30/15 ⁴⁾	$\beta_{ed1}:47/15^{4)}$ $\beta_{ed2}:47/15^{4)}$	4 ⁴⁾	2 ⁴⁾	2.0 ⁴⁾	1.0 ⁴⁾	15 ⁴⁾	92 ⁴⁾
4 ⁴⁾	2/15 ⁴⁾	15/15 ⁴⁾	64 ⁴⁾	2/15 ⁴⁾	4/15 ⁴⁾	2/15 ⁴⁾	56/75 ⁴⁾	4 ⁴⁾	1 ⁴⁾	3.0 ⁴⁾	2.0 ⁴⁾	17 ⁴⁾	71 ⁴⁾
5 ⁴⁾	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ⁴⁾	15/15 ⁽⁴⁾	30/15 ⁴⁾	24/15 ⁴⁾	134/15 ⁴⁾	4 ⁴⁾	1 ⁴⁾	1.0 ⁴⁾	0.0 ⁴⁾	21 ⁴⁾	81 ⁴⁾
Note 1: ΔACK, $\Delta NACK$ and $\Delta CQI=8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_{c\downarrow}$ 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 difference⁴⁾ 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 $\beta_d = 15/15^{4)}$ 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 $\beta_d = 15/15^{4)}$ Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g⁴⁾ Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.⁴⁾													

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_{HS+} (Note1)	β_{ec+}	β_{ed+} (2xSF2) (Note 4)	β_{ed+} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default. Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.											



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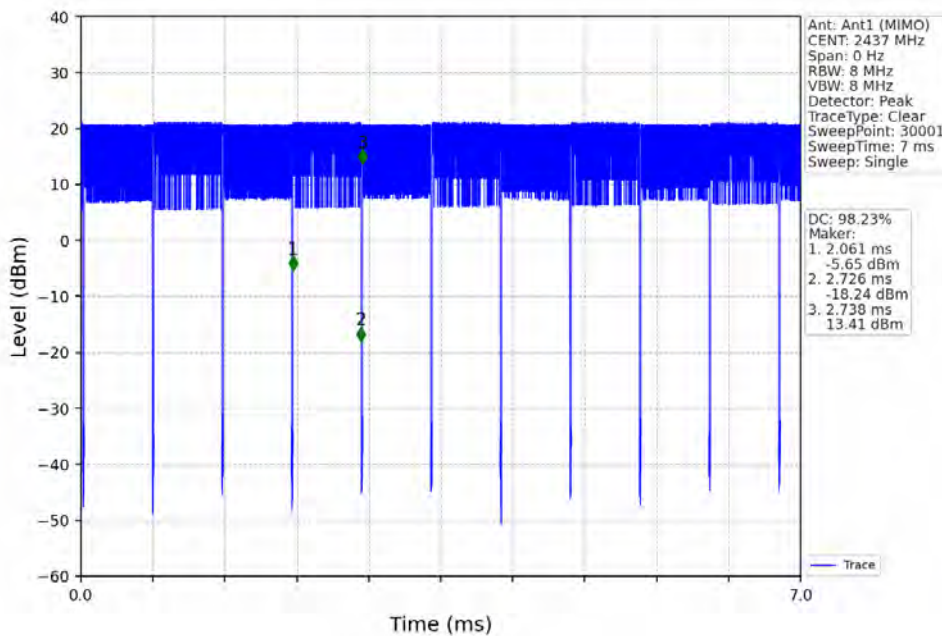
8.2.3 WIFI Test Configuration

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

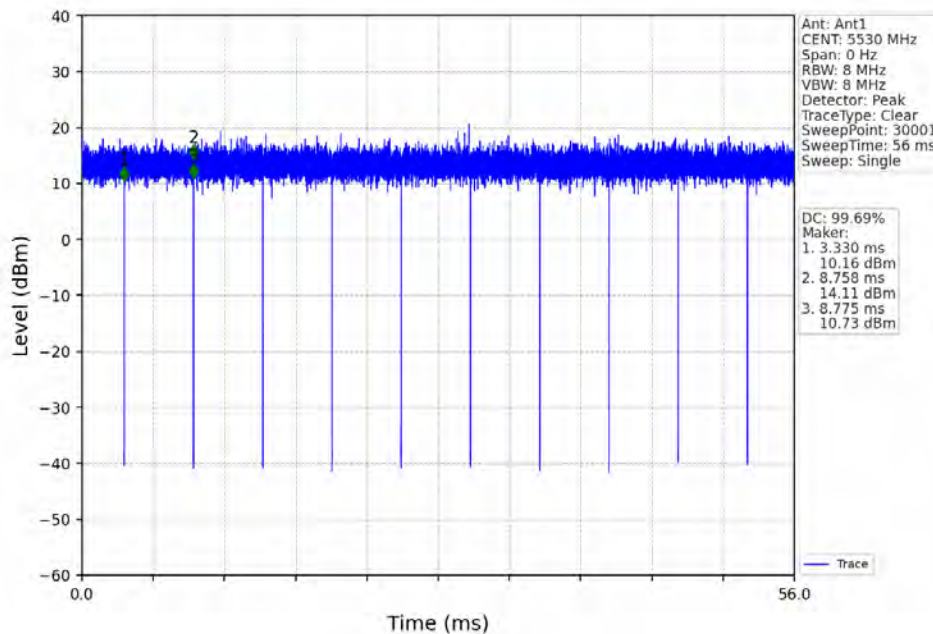
1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=98.23%



2) Wi-Fi 5GHz 802.11n40:

Duty cycle=99.69%



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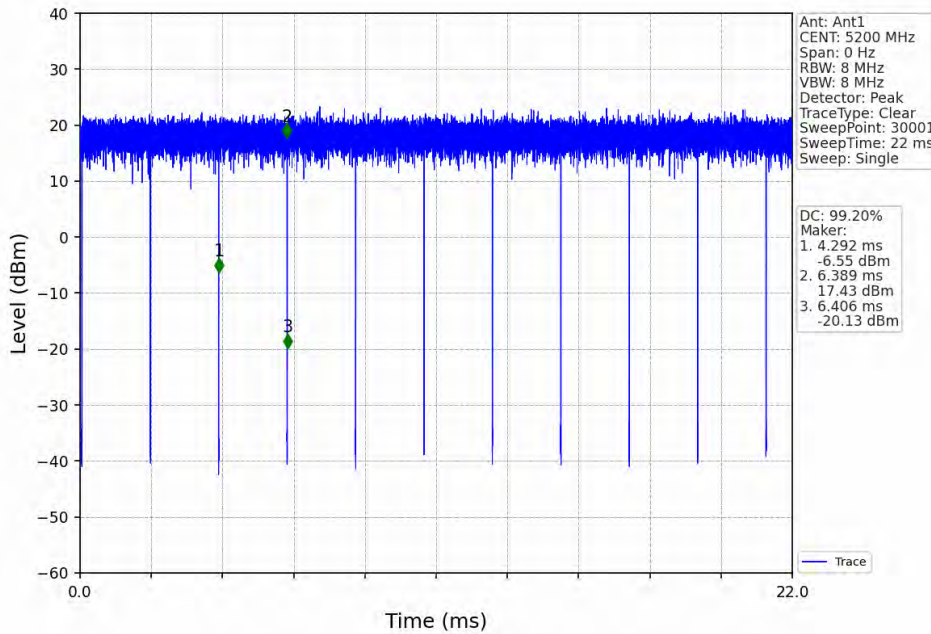
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3) Wi-Fi 5GHz 802.11ac80:

Duty cycle=99.69%



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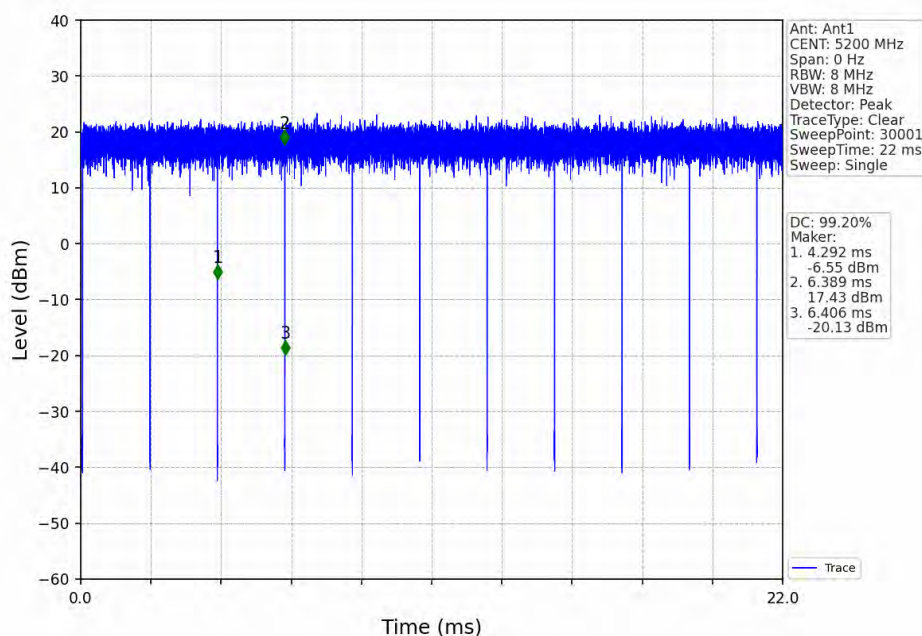
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4) Wi-Fi 5GHz 802.11a:

Duty cycle=99.20%



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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.

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.

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.



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 Ant9										
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)
Power Density Test DATA										
Right side	802.11ax 160M	47/6185	2	0.0625	99.71%	1.003	44.10	0.93	2.07	0.01
Right side	802.11ax 160M	47/6185	9.7	0.0625	99.71%	1.003	35.60		0.75	0.08
Wi-Fi 6E PD Test Record Ant10										
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)
Power Density Test DATA										
Back side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	44.50	0.61	3.11	-0.19
Back side	802.11ax 160M	143/6665	9.0	0.0625	99.71%	1.003	38.70		1.15	0.08
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)
Power Density Test DATA										
Right side	802.11ax 160M	47/6185	2	0.0625	99.71%	1.003	44.80	0.55	4.35	0.19
Right side	802.11ax 160M	47/6185	9.7	0.0625	99.71%	1.003	39.50		1.45	0.07



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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:

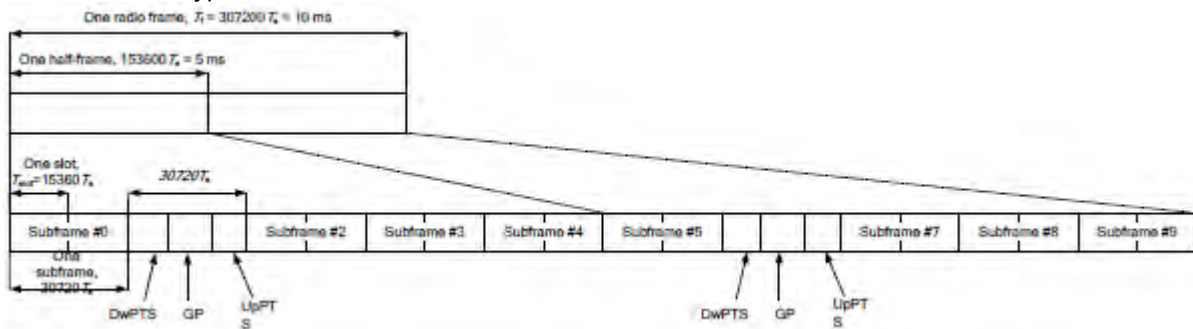


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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			7680.Ts	4384.Ts	5120.Ts
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts		

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

Table 4.2-2: Uplink-downlink configurations.

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

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

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

A) Spectrum Plots for RB Configurations

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

B) MPR

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

Modulation	Channel bandwidth/Transmission bandwidth	MPR
------------	--	-----



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

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

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

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F) LTE CA additional specification

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

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

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

2DL		3DL		4DL		5DL	
Combination	Exclusion	Combination	Exclusion	Combination	Exclusion	Combination	Exclusion
CA_2A-12A	Yes	CA 2A-12A-30A	No				
		CA 2A-12A-66A	Yes	CA 2A-12A-66A-66A	Yes		
		CA 2A-13A-48A	Yes	CA 2A-13A-48C	Yes	CA 2A-13A-48D	No
CA_2A-13A	Yes	CA 2A-13A-66A	Yes	CA 2A-13A-66B	Yes		
				CA 2A-13A-66C	Yes		
				CA 2A-13A-66A-66A	Yes		
CA_2A-14A	Yes	CA 2A-14A-30A	Yes	CA 2A-14A-66A-66A	Yes		
		CA 2A-14A-66A	Yes				
		CA 2A-2A-12A	Yes	CA 2A-2A-12A-30A	No	CA 2A-2A-12A-66A-66A	No
				CA 2A-2A-12A-66A	Yes		
		CA 2A-2A-13A	Yes	CA 2A-2A-13A-66A	Yes	CA 2A-2A-13A-66A-66A	No
		CA 2A-2A-14A	Yes	CA 2A-2A-14A-66A	Yes	CA 2A-2A-14A-66A-66A	No
				CA 2A-2A-30A-66A	No		
		CA 2A-2A-4A	Yes	CA 2A-2A-4A-4A	No		
				CA 2A-2A-4A-5A	No		
CA_2A-2A	Yes	CA 2A-2A-5A	Yes	CA 2A-2A-5A-30A	No		
				CA 2A-2A-5A-66A	Yes	CA 2A-2A-5A-66A-66A	No
						CA 2A-2A-5A-66B	No
						CA 2A-2A-5A-66C	No
		CA 2A-2A-66A	Yes	CA 2A-2A-66A-66A	Yes		
				CA 2A-2A-66B	Yes		
				CA 2A-2A-66C	Yes		
CA_2A-30A	Yes	CA 2A-30A-66A	Yes	CA 2A-30A-66A-66A	No		
CA_2A-48A	Yes	CA 2A-48A-66A	Yes	CA 2A-48C-66A	Yes	CA 2A-48D-66A	No
		CA 2A-48C	Yes	CA 2A-48D	Yes	CA 2A-48E	No
CA_2A-4A	Yes	CA 2A-4A-13A	No				
		CA 2A-4A-4A	Yes	CA 2A-4A-4A-5A	No		
		CA 2A-4A-5A	Yes				
		CA 2A-5A-30A	No				
CA_2A-5A	Yes	CA 2A-5A-48A	Yes	CA 2A-5A-48C	No		
		CA 2A-5A-66A	Yes	CA 2A-5A-66A-66A	Yes		
				CA 2A-5A-66B	Yes		
				CA 2A-5A-66C	Yes		
CA_2A-66A	Yes	CA 2A-66A-66A	Yes	CA 2A-66A-66A-66A	No		
		CA 2A-66B	Yes				
CA_4A-12A	Yes	CA 4A-12A-30A	No				
CA_4A-13A	Yes						
CA_4A-30A	Yes						
CA_4A-48A	Yes	CA 4A-48C	Yes	CA 4A-48D	Yes	CA 4A-48E	No
CA_4A-4A	Yes	CA 4A-4A-12A	No				
		CA 4A-4A-13A	No				
		CA 4A-4A-5A	No				
CA_4A-5A	Yes	CA 4A-5A-30A	No				
CA_5A-30A	Yes	CA 5A-30A-66A	Yes	CA 5A-30A-66A-66A	No		
CA_5A-48A	Yes	CA 5A-48A-66A	Yes	CA 5A-48D	No		
		CA 5A-48C	Yes	CA 5A-48C-66A	No		
CA_5A-66A	Yes	CA 5A-66A-66A	Yes				
		CA 5A-66B	Yes				
		CA 5A-66C	Yes				



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CA 12A-30A	Yes	CA 12A-30A-66A	Yes	CA 12A-30A-66A-66A	No		
CA 12A-66A	Yes	CA 12A-66A-66A	Yes				
CA_13A-48A	Yes	CA 13A-48A-66A	Yes	CA 13A-48A-66B	No		
				CA 13A-48A-66C	No		
		CA 13A-48C	Yes	CA 13A-48D	Yes	CA_13A-48D-66A	No
						CA 13A-48E	No
CA_13A-66A	Yes	CA 13A-66A-66A	No				
		CA 13A-66B	No				
		CA 13A-66C	No				
CA 14A-30A	Yes	CA 14A-30A-66A	Yes	CA 14A-30A-66A-66A	No		
CA 14A-66A	Yes	CA 14A-66A-66A	Yes				
CA 30A-66A	Yes	CA 30A-66A-66A	No				
CA 48A-48A	Yes	CA 48A-48C	Yes	CA 48A-48D	Yes		
CA_48A-66A	Yes	CA 48A-66A-66A	No				
		CA 48A-66B	No				
		CA 48A-66C	No				
CA_48C	Yes			CA 48C-48C	Yes		
		CA 48C-66A	Yes	CA 48C-66A-66A	No		
				CA 48C-66B	No		
				CA 48C-66C	No		
		CA 48D	Yes	CA 48D-66A	Yes		
				CA 48E	Yes	CA 48E-66A	No
CA 66A-66A	Yes	CA 66A-66A-66A	No				
CA 66B	Yes						
CA 66C	Yes						

Downlink LTE CA Power

DL LTE CA Class	LTE Band	BW (MHz)	PCC					SCC1		SCC2		SCC3		SCC4		Power	
			UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	LTE Band	BW (MHz)	LTE Band	BW (MHz)	LTE Band	BW (MHz)	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
CA_2A-12A-30A	Band 2	20M	1880	18900	QPSK	1	0	Band 12	10M	Band 30	10M	/	/	/	/	22.43	22.44
CA_2A-4A-13A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	Band 13	10M	/	/	/	/	22.37	22.44
CA_2A-5A-30A	Band 2	20M	1880	18900	QPSK	1	0	Band 5	20M	Band 30	10M	/	/	/	/	22.30	22.44
CA_4A-12A-30A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 12	10M	Band 30	10M	/	/	/	/	22.76	22.80
CA_4A-4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	20M	Band 12	10M	/	/	/	/	22.72	22.80
CA_4A-4A-13A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	20M	Band 13	10M	/	/	/	/	22.79	22.80
CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	20M	Band 5	10M	/	/	/	/	22.76	22.80
CA_4A-5A-30A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	Band 30	10M	/	/	/	/	22.74	22.80
CA_13A-66A-66A	Band 13	10M	783	23230	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.95	24.08
CA_13A-66B	Band 13	10M	783	23230	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.93	24.08
CA_13A-66B	Band 13	10M	783	23230	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	24.07	24.08
CA_13A-66C	Band 13	10M	783	23230	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	24.08	24.08
CA_30A-66A-66A	Band 30	10M	2310	27710	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.05	23.05
CA_48A-66A-66A	Band 48	20M	3625	55990	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.36	23.51
CA_48A-66B	Band 48	20M	3625	55990	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.50	23.51
CA_48A-66C	Band 48	20M	3625	55990	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	23.48	23.51
CA_66A-66A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	Band 66	20M	/	/	/	/	22.87	23.00
CA_2A-2A-12A-30A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 12	10M	Band 30	10M	/	/	22.36	22.44
CA_2A-2A-30A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 30	10M	Band 66	20M	/	/	22.34	22.44
CA_2A-2A-4A-4A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 4	20M	Band 4	20M	/	/	22.34	22.44
CA_2A-2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 4	20M	Band 5	10M	/	/	22.32	22.44
CA_2A-2A-5A-30A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 5	10M	Band 30	10M	/	/	22.30	22.44
CA_2A-30A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 30	10M	Band 66	20M	Band 66	20M	/	/	22.38	22.44
CA_2A-4A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	Band 4	20M	Band 5	10M	/	/	22.30	22.44
CA_2A-5A-48C	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	Band 48	20M	Band 48	20M	/	/	22.43	22.44
CA_2A-66A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 66	20M	Band 66	20M	Band 66	20M	/	/	22.42	22.44
CA_5A-30A-66A-66A	Band 5	10M	835.6	20525	QPSK	1	0	Band 30	10M	Band 66	20M	Band 66	20M	/	/	23.07	23.18
CA_5A-48D	Band 5	10M	835.6	20525	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	/	/	23.07	23.18
CA_5A-48C-66A	Band 5	10M	835.6	20525	QPSK	1	0	Band 48	20M	Band 48	20M	Band 66	20M	/	/	23.03	23.18
CA_12A-30A-66A-66A	Band 12	10M	707.5	23095	QPSK	1	0	Band 30	10M	Band 66	20M	Band 66	20M	/	/	24.17	24.28
CA_13A-48A-66B	Band 13	10M	783	23230	QPSK	1	0	Band 48	20M	Band 66	20M	Band 66	20M	/	/	23.93	24.08
CA_13A-48A-66C	Band 13	10M	783	23230	QPSK	1	0	Band 48	20M	Band 66	20M	Band 66	20M	/	/	23.96	24.08
CA_14A-30A-66A-66A	Band 14	10M	793	23330	QPSK	1	0	Band 30	10M	Band 66	20M	Band 66	20M	/	/	24.01	24.15
CA_48C-66A-66A	Band 48	20M	3625	55990	QPSK	1	0	Band 48	20M	Band 66	20M	Band 66	20M	/	/	23.48	23.51
CA_48C-66B	Band 48	20M	3625	55990	QPSK	1	0	Band 48	20M	Band 66	20M	Band 66	20M	/	/	23.37	23.51
CA_48C-66C	Band 48	20M	3625	55990	QPSK	1	0	Band 48	20M	Band 66	20M	Band 66	20M	/	/	23.37	23.51
CA_2A-13A-48D	Band 2	20M	1880	18900	QPSK	1	0	Band 13	10M	Band 48	20M	Band 48	20M	Band 48	20M	22.33	22.44
CA_2A-2A-12A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 12	10M	Band 66	20M	Band 66	20M	22.44	22.44



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CA_2A-2A-13A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 13	10M	Band 66	20M	Band 66	20M	22.44	22.44
CA_2A-2A-14A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 14	10M	Band 66	20M	Band 66	20M	22.35	22.44
CA_2A-2A-5A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 5	10M	Band 66	20M	Band 66	20M	22.43	22.44
CA_2A-2A-5A-66B	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 5	10M	Band 66	20M	Band 66	20M	22.29	22.44
CA_2A-2A-5A-66C	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	Band 5	10M	Band 66	20M	Band 66	20M	22.39	22.44
CA_2A-48D-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 66	20M	22.38	22.44
CA_2A-48E	Band 2	20M	1880	18900	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 48	20M	22.36	22.44
CA_4A-48E	Band 4	20M	1732.5	20175	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 48	20M	22.74	22.80
CA_13A-48D-66A	Band 13	10M	783	23230	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 66	20M	24.05	24.08
CA_13A-48E	Band 13	10M	783	23230	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 48	20M	24.00	24.08
CA_48E-66A	Band 48	20M	3625	55990	QPSK	1	0	Band 48	20M	Band 48	20M	Band 48	20M	Band 66	20M	23.46	23.51

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

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

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

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

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

- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

4)When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)

5)UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

6)General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in appendix E. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.

- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided



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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

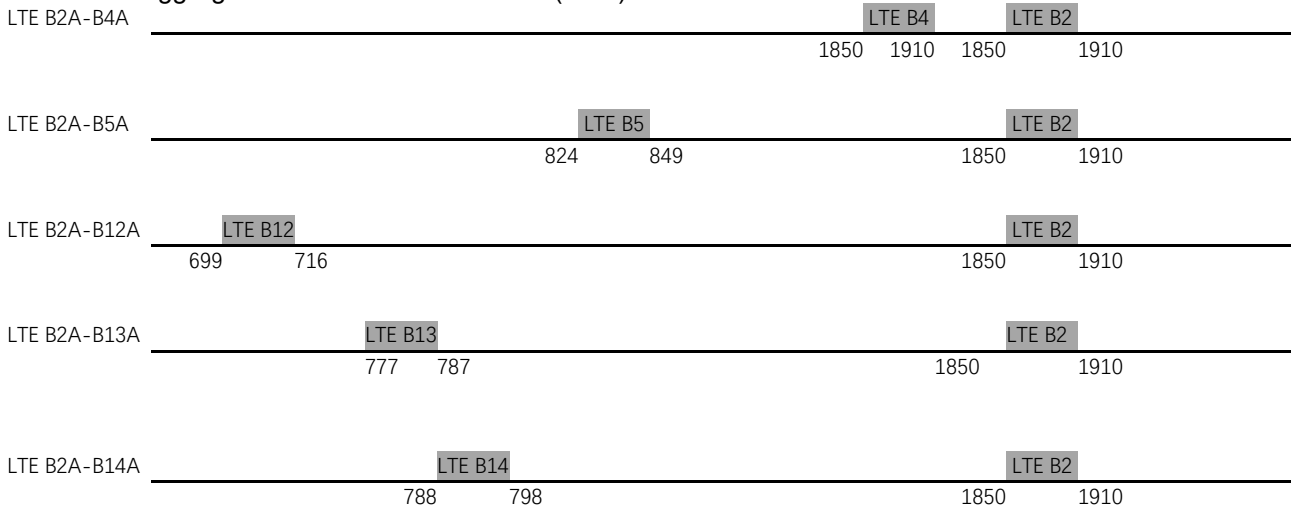
c) Inter-band carrier aggregation requirements for uplink.

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	B5	B12	B13	B14	B30	B66	
		Ant5	Ant1	Ant1	Ant1	Ant1	Ant2	Ant2	Ant5
B2	Ant2	√	√	√	√	√			√
B4	Ant2		√	√	√				
B5	Ant1						√	√	
B12	Ant1						√	√	
B13	Ant1							√	
B14	Ant1						√	√	

The carrier aggregation scheme shown below.(MHz)



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LTE B2A-B66A	LTE B66	LTE B2
	1710 1780	1850 1910
LTE B4A-B5A	LTE B5	LTE B4
	824 849	1850 1910
LTE B4A-B12A	LTE B12	LTE B4
	699 716	1850 1910
LTE B4A-B13A	LTE B13	LTE B4
	777 787	1850 1910
LTE B5A-B30A	LTE B5	LTE B30
	824 849	2305 2315
LTE B5A-B66A	LTE B5	LTE B66
	824 849 1710 1780	
LTE B12A-B30A	LTE B12	LTE B30
	699 716	2305 2315
LTE B12A-B66A	LTE B12	LTE B66
	699 716 1710 1780	
LTE B13A-B66A	LTE B13	LTE B66
	777 787 1710 1780	
LTE B14A-B30A	LTE B14	LTE B30
	788 798	2305 2315
LTE B14A-B66A	LTE B14	LTE B66
	788 798 1710 1780	



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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/n66/n77 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		LTE Band 2		LTE Band 5	LTE Band 13	LTE Band 48	LTE Band 66	
		Ant2	Ant5	Ant1	Ant1	Ant3	Ant2	Ant5
n2	Ant2			√	√			√
n5	Ant1	√				√	√	
n66	Ant2	√		√	√	√		
n77	Ant3	√					√	
	Ant7			√	√			



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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
NR mode	SA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	NSA	Yes	Yes	No	No	No	No	No	No
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
NR mode	SA	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	NSA	No	No	Yes	No	No	Yes	No
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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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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

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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 > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
- b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/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 ½ dB higher than the same configuration in the largest supported bandwidth.
- c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device



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4. MPR

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

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

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

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

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

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

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

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

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

7. For EN-DC mode, 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.



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

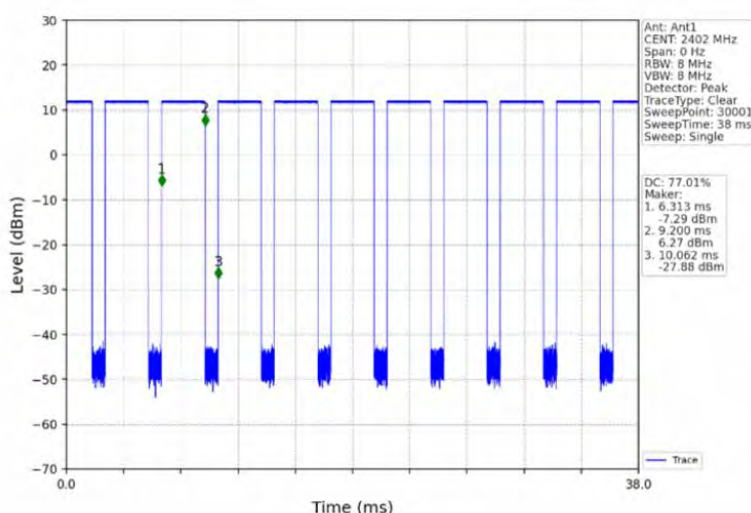


channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

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

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

9) . The conducted power of BT is measured with RMS detector.
BT DH5 Duty Cycle=77.01%



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.

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 2TS	190/836.6	1:4.15	0.613	0.370	-0.01	27.75	29.00	1.334	0.817	22.4
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.545	0.308	0.13	27.75	29.00	1.334	0.727	22.4
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.885	0.515	-0.06	27.75	29.00	1.334	1.180	22.4
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.567	0.345	-0.10	27.75	29.00	1.334	0.756	22.4
Left cheek	GPRS 2TS	128/824.2	1:4.15	0.636	0.375	-0.14	27.95	29.00	1.274	0.810	22.4
Left cheek	GPRS 2TS	251/848.8	1:4.15	0.650	0.439	-0.01	27.88	29.00	1.294	0.841	22.4
Right cheek	GPRS 2TS	128/824.2	1:4.15	0.627	0.371	-0.04	27.95	29.00	1.274	0.798	22.4
Right cheek	GPRS 2TS	251/848.8	1:4.15	0.784	0.504	-0.03	27.88	29.00	1.294	1.015	22.4
Right cheek-repeat	GPRS 2TS	190/836.6	1:4.15	0.882	0.505	-0.06	27.75	29.00	1.334	1.177	22.4
Head Test Data DSI5											
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.613	0.370	-0.01	27.75	27.00	0.841	0.516	22.4
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.545	0.308	0.13	27.75	27.00	0.841	0.459	22.4
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.885	0.515	-0.06	27.75	27.00	0.841	0.745	22.4
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.567	0.345	-0.10	27.75	27.00	0.841	0.477	22.4
Left cheek	GPRS 2TS	128/824.2	1:4.15	0.636	0.375	-0.14	27.95	27.00	0.804	0.511	22.4
Left cheek	GPRS 2TS	251/848.8	1:4.15	0.650	0.439	-0.01	27.88	27.00	0.817	0.531	22.4
Right cheek	GPRS 2TS	128/824.2	1:4.15	0.627	0.371	-0.04	27.95	27.00	0.804	0.504	22.4
Right cheek	GPRS 2TS	251/848.8	1:4.15	0.784	0.504	-0.03	27.88	27.00	0.817	0.640	22.4
Body worn&Hotspot Test data(Separate 10mm) DSI0											
Front side	GPRS 2TS	190/836.6	1:4.15	0.399	0.249	-0.09	29.36	31.00	1.459	0.582	22.2
Back side	GPRS 2TS	190/836.6	1:4.15	0.392	0.239	0.01	29.36	31.00	1.459	0.572	22.2
Left side	GPRS 2TS	190/836.6	1:4.15	0.059	0.034	-0.01	29.36	31.00	1.459	0.086	22.2
Right side	GPRS 2TS	190/836.6	1:4.15	0.154	0.104	-0.05	29.36	31.00	1.459	0.225	22.2
Top side	GPRS 2TS	190/836.6	1:4.15	0.290	0.148	0.02	29.36	31.00	1.459	0.423	22.2

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Right cheek	190/836.6	0.885	0.882	1.00

Table 11 : SAR of GSM850 for Head, Body and Hotspot.

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	0.368	0.242	0.19	21.34	22.00	1.164	0.428	22.4
Left tilted	GPRS 4TS	661/1880	1:2.075	0.405	0.240	0.05	21.34	22.00	1.164	0.471	22.4
Right cheek	GPRS 4TS	661/1880	1:2.075	0.699	0.401	0.07	21.34	22.00	1.164	0.814	22.4
Right tilted	GPRS 4TS	661/1880	1:2.075	0.460	0.270	0.09	21.34	22.00	1.164	0.535	22.4
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.763	0.408	-0.03	21.24	22.00	1.191	0.909	22.5
Right cheek	GPRS 4TS	810/1909.8	1:2.075	0.666	0.376	-0.11	21.22	22.00	1.197	0.797	22.4
Body worn&Hotspot Test data(Separate 10mm) DSI0											
Front side	GPRS 4TS	661/1880	1:2.075	0.493	0.301	-0.03	25.15	26.00	1.216	0.600	22.4
Back side	GPRS 4TS	661/1880	1:2.075	0.402	0.241	0.16	25.15	26.00	1.216	0.489	22.4
Left side	GPRS 4TS	661/1880	1:2.075	0.278	0.149	-0.07	25.15	26.00	1.216	0.338	22.4
Top side	GPRS 4TS	661/1880	1:2.075	0.603	0.347	-0.11	25.15	26.00	1.216	0.733	22.5

Table 12 : SAR of GSM1900 for Head, Body and Hotspot.

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	0.365	0.240	0.17	17.09	18.00	1.233	0.450	22.4
Left tilted	RMC	9400/1880	1:1	0.358	0.214	-0.08	17.09	18.00	1.233	0.441	22.4
Right cheek	RMC	9400/1880	1:1	0.694	0.399	-0.05	17.09	18.00	1.233	0.856	22.4
Right tilted	RMC	9400/1880	1:1	0.461	0.271	-0.16	17.09	18.00	1.233	0.568	22.4
Right cheek	RMC	9262/1852.4	1:1	0.742	0.399	0.18	17.11	18.00	1.227	0.911	22.5
Right cheek	RMC	9538/1907.6	1:1	0.633	0.358	0.11	17.03	18.00	1.250	0.791	22.4
Body worn&Hotspot Test data(Separate 10mm) DSI0											
Front side	RMC	9400/1880	1:1	0.577	0.355	-0.05	22.62	23.50	1.225	0.707	22.1
Back side	RMC	9400/1880	1:1	0.533	0.325	-0.07	22.62	23.50	1.225	0.653	22.1
Left side	RMC	9400/1880	1:1	0.395	0.223	-0.08	22.62	23.50	1.225	0.484	22.1
Top side	RMC	9400/1880	1:1	0.658	0.369	-0.16	22.62	23.50	1.225	0.806	22.1
Top side	RMC	9262/1852.4	1:1	0.742	0.422	0.01	22.58	23.50	1.236	0.917	22.5
Top side	RMC	9538/1907.6	1:1	0.548	0.310	0.04	22.49	23.50	1.262	0.691	22.1

Table 13 : SAR of WCDMA Band II for Head, Body and Hotspot.

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	0.404	0.266	-0.07	17.42	18.50	1.282	0.518	22.4
Left tilted	RMC	1412/1732.4	1:1	0.340	0.210	0.01	17.42	18.50	1.282	0.436	22.4
Right cheek	RMC	1412/1732.4	1:1	0.785	0.421	-0.13	17.42	18.50	1.282	1.007	22.4
Right tilted	RMC	1412/1732.4	1:1	0.459	0.270	-0.17	17.42	18.50	1.282	0.589	22.4
Right cheek	RMC	1312/1712.4	1:1	0.795	0.435	-0.01	17.36	18.50	1.300	1.034	22.5
Right cheek	RMC	1513/1752.6	1:1	0.795	0.431	0.07	17.47	18.50	1.268	1.008	22.4
Body worn&Hotspot Test data(Separate 10mm) Sensor on DSI1											
Front side	RMC	1412/1732.4	1:1	0.642	0.380	-0.05	22.97	24.00	1.268	0.814	22.1
Back side	RMC	1412/1732.4	1:1	0.643	0.369	0.17	22.97	24.00	1.268	0.815	22.1
Left side	RMC	1412/1732.4	1:1	0.435	0.236	-0.16	22.97	24.00	1.268	0.551	22.1
Top side	RMC	1412/1732.4	1:1	0.658	0.359	0.01	22.97	24.00	1.268	0.834	22.1
Front side	RMC	1312/1712.4	1:1	0.569	0.338	0.11	22.91	24.00	1.285	0.731	22.1
Front side	RMC	1513/1752.6	1:1	0.692	0.412	0.06	22.93	24.00	1.279	0.885	22.1
Back side	RMC	1312/1712.4	1:1	0.583	0.331	0.17	22.91	24.00	1.285	0.749	22.1
Back side	RMC	1513/1752.6	1:1	0.698	0.399	0.05	22.93	24.00	1.279	0.893	22.1
Top side	RMC	1312/1712.4	1:1	0.556	0.305	-0.09	22.91	24.00	1.285	0.715	22.1
Top side	RMC	1513/1752.6	1:1	0.536	0.368	0.17	23.51	24.50	1.256	0.673	22.5
Body worn&Hotspot Test data Sensor off DSI0											
Front side with 15mm	RMC	1412/1732.4	1:1	0.339	0.207	-0.14	23.43	24.50	1.279	0.434	22
Back side with 15mm	RMC	1412/1732.4	1:1	0.413	0.242	0.09	23.43	24.50	1.279	0.528	22
Left side with 19mm	RMC	1412/1732.4	1:1	0.142	0.086	-0.14	23.43	24.50	1.279	0.182	22
Top side with 10mm	RMC	1412/1732.4	1:1	0.698	0.405	0.04	23.43	24.50	1.279	0.893	22
Top side with 10mm	RMC	1312/1712.4	1:1	0.624	0.344	-0.12	23.29	24.50	1.321	0.824	22
Top side with 10mm	RMC	1513/1752.6	1:1	0.712	0.406	0.18	23.51	24.50	1.256	0.894	22.5
Body worn&Hotspot Test data(Separate 10mm) Sensor on DSI3											
Front side	RMC	1412/1732.4	1:1	0.642	0.380	-0.05	22.97	23.00	1.007	0.646	22.1
Back side	RMC	1412/1732.4	1:1	0.643	0.369	0.17	22.97	23.00	1.007	0.647	22.1
Left side	RMC	1412/1732.4	1:1	0.435	0.236	-0.16	22.97	23.00	1.007	0.438	22.1
Top side	RMC	1412/1732.4	1:1	0.658	0.359	0.01	22.97	23.00	1.007	0.663	22.1
Front side	RMC	1312/1712.4	1:1	0.569	0.338	0.11	22.91	23.00	1.021	0.581	22.1
Front side	RMC	1513/1752.6	1:1	0.692	0.412	0.06	22.93	23.00	1.016	0.703	22.1
Back side	RMC	1312/1712.4	1:1	0.583	0.331	0.17	22.91	23.00	1.021	0.595	22.1
Back side	RMC	1513/1752.6	1:1	0.698	0.399	0.05	22.93	23.00	1.016	0.709	22.1
Top side	RMC	1312/1712.4	1:1	0.556	0.305	-0.09	22.91	23.00	1.021	0.568	22.1
Top side	RMC	1513/1752.6	1:1	0.536	0.368	0.17	23.51	23.00	0.889	0.477	22.5



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Body worn&Hotspot Test data Sensor off DSI2											
Front side with 15mm	RMC	1412/1732.4	1:1	0.339	0.207	-0.14	23.43	23.50	1.016	0.345	22
Back side with 15mm	RMC	1412/1732.4	1:1	0.413	0.242	0.09	23.43	23.50	1.016	0.420	22
Left side with 19mm	RMC	1412/1732.4	1:1	0.142	0.086	-0.14	23.43	23.50	1.016	0.144	22
Top side with 10mm	RMC	1412/1732.4	1:1	0.698	0.405	0.04	23.43	23.50	1.016	0.709	22
Top side with 10mm	RMC	1312/1712.4	1:1	0.624	0.344	-0.12	23.29	23.50	1.050	0.655	22
Top side with 10mm	RMC	1513/1752.6	1:1	0.712	0.406	0.18	23.51	23.50	0.998	0.710	22.5

Table 14 : SAR of WCDMA Band IV for Head, Body and Hotspot.



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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	0.436	0.255	0.04	20.93	21.00	1.016	0.443	22.4
Left tilted	RMC	4182/836.4	1:1	0.425	0.240	-0.06	20.93	21.00	1.016	0.432	22.4
Right cheek	RMC	4182/836.4	1:1	0.576	0.366	0.11	20.93	21.00	1.016	0.585	22.4
Right tilted	RMC	4182/836.4	1:1	0.419	0.254	-0.19	20.93	21.00	1.016	0.426	22.4
Right cheek	RMC	4132/826.4	1:1	0.557	0.353	-0.14	20.98	21.00	1.005	0.560	22.4
Right cheek	RMC	4233/846.6	1:1	0.624	0.370	-0.16	20.91	21.00	1.021	0.637	22.4
Body worn&Hotspot Test data(Separate 10mm) DSI0											
Front side	RMC	4182/836.4	1:1	0.638	0.395	0.03	24.65	25.00	1.084	0.692	22
Back side	RMC	4182/836.4	1:1	0.605	0.368	0.12	24.65	25.00	1.084	0.656	22
Left side	RMC	4182/836.4	1:1	0.101	0.058	-0.13	24.65	25.00	1.084	0.109	22
Right side	RMC	4182/836.4	1:1	0.187	0.122	-0.12	24.65	25.00	1.084	0.203	22
Top side	RMC	4182/836.4	1:1	0.403	0.210	0.13	24.65	25.00	1.084	0.437	22

Table 15 : SAR of WCDMA Band V for Head, Body and Hotspot.

9.2.6 SAR Result of LTE Band 2

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)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI0												
Front side	20	QPSK 1_0	18900/1880	1:1	0.535	0.321	-0.19	23.35	25.00	1.462	0.782	22.4
Back side	20	QPSK 1_0	18900/1880	1:1	0.658	0.405	0.08	23.35	25.00	1.462	0.962	22.4
Left side	20	QPSK 1_0	18900/1880	1:1	0.754	0.419	0.05	23.35	25.00	1.462	1.102	22.4
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.211	0.118	0.04	23.35	25.00	1.462	0.309	22.4
Back side	20	QPSK 1_99	18700/1860	1:1	0.625	0.305	0.04	23.29	25.00	1.483	0.927	22.4
Back side	20	QPSK 1_50	19100/1900	1:1	0.630	0.315	-0.15	23.35	25.00	1.462	0.921	22.4
Left side	20	QPSK 1_99	18700/1860	1:1	0.723	0.412	0.10	23.29	25.00	1.483	1.072	22.4
Left side	20	QPSK 1_50	19100/1900	1:1	0.735	0.411	0.04	23.35	25.00	1.462	1.075	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI0												
Front side	20	QPSK 50_25	19100/1900	1:1	0.462	0.280	0.11	22.59	24.00	1.384	0.639	22.4
Back side	20	QPSK 50_25	19100/1900	1:1	0.666	0.387	-0.16	22.59	24.00	1.384	0.921	22.4
Left side	20	QPSK 50_25	19100/1900	1:1	0.735	0.424	0.03	22.59	24.00	1.384	1.017	22.4
Bottom side	20	QPSK 50_25	19100/1900	1:1	0.185	0.104	-0.12	22.59	24.00	1.384	0.256	22.4
Back side	20	QPSK 50_25	18700/1860	1:1	0.595	0.595	0.15	22.42	24.00	1.439	0.856	22.4
Back side	20	QPSK 50_50	19100/1900	1:1	0.600	0.595	-0.03	22.59	24.00	1.384	0.830	22.4
Left side	20	QPSK 50_25	18700/1860	1:1	0.689	0.595	-0.15	22.42	24.00	1.439	0.991	22.4
Left side	20	QPSK 50_50	19100/1900	1:1	0.700	0.595	0.07	22.59	24.00	1.384	0.968	22.4
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI0												
Left side	20	QPSK 100_0	19100/1900	1:1	0.721	0.425	0.05	22.58	24.00	1.387	1.000	22.4

Table 16 : SAR of LTE Band 2 for Body and Hotspot.

9.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 2 Test Record												
Test position	B W.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_50	21100/2535	1:1	0.197	0.100	-0.14	18.64	19.00	1.086	0.214	22.4
Left tilted	20	QPSK 1_50	21100/2535	1:1	0.117	0.062	0.16	18.64	19.00	1.086	0.127	22.4
Right cheek	20	QPSK 1_50	21100/2535	1:1	0.847	0.359	-0.18	18.64	19.00	1.086	0.920	22.4
Right tilted	20	QPSK 1_50	21100/2535	1:1	0.436	0.206	-0.17	18.64	19.00	1.086	0.474	22.4
Right cheek	20	QPSK 1_99	20850/2510	1:1	0.759	0.325	0.03	18.56	19.00	1.107	0.840	22.4
Right cheek	20	QPSK 1_50	21350/2560	1:1	0.913	0.352	0.10	18.61	19.00	1.094	0.999	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.228	0.111	-0.16	18.72	19.00	1.067	0.243	22.4
Left tilted	20	QPSK 50_50	21350/2560	1:1	0.143	0.074	0.08	18.72	19.00	1.067	0.153	22.4
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.940	0.370	-0.03	18.72	19.00	1.067	1.003	22.4
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.437	0.205	0.11	18.72	19.00	1.067	0.466	22.4
Right cheek	20	QPSK 50_25	20850/2510	1:1	0.715	0.310	-0.07	18.52	19.00	1.117	0.799	22.4
Right cheek	20	QPSK 50_50	21100/2535	1:1	0.888	0.375	0.00	18.53	19.00	1.114	0.989	22.4
Right cheek-repeat	20	QPSK 50_50	21350/2560	1:1	0.935	0.369	-0.08	18.72	19.00	1.067	0.997	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	21350/2560	1:1	0.920	0.384	0.14	18.68	19.00	1.076	0.990	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1_50	21350/2560	1:1	0.428	0.198	-0.17	21.51	22.00	1.119	0.479	22.3
Back side	20	QPSK 1_50	21350/2560	1:1	0.352	0.168	0.04	21.51	22.00	1.119	0.394	22.3
Left side	20	QPSK 1_50	21350/2560	1:1	0.686	0.303	0.07	21.51	22.00	1.119	0.768	22.3
Top side	20	QPSK 1_50	21350/2560	1:1	0.075	0.038	0.16	21.51	22.00	1.119	0.084	22.3
Left side	20	QPSK 1_0	20850/2510	1:1	0.523	0.248	-0.14	21.46	22.00	1.132	0.592	22.3
Left side	20	QPSK 1_50	21100/2535	1:1	0.529	0.225	0.04	21.44	22.00	1.138	0.602	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												



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Front side	20	QPSK 50_25	21350/2560	1:1	0.415	0.189	-0.11	21.72	22.00	1.067	0.443	22.3
Back side	20	QPSK 50_25	21350/2560	1:1	0.375	0.173	-0.06	21.72	22.00	1.067	0.400	22.3
Left side	20	QPSK 50_25	21350/2560	1:1	0.688	0.296	0.15	21.72	22.00	1.067	0.734	22.3
Top side	20	QPSK 50_25	21350/2560	1:1	0.073	0.036	0.10	21.72	22.00	1.067	0.078	22.3
Left side	20	QPSK 50_50	20850/2510	1:1	0.435	0.188	0.05	21.55	22.00	1.109	0.482	22.3
Left side	20	QPSK 50_25	21100/2535	1:1	0.544	0.236	-0.06	21.52	22.00	1.117	0.608	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI1												
Left side	20	QPSK 100_0	21350/2560	1:1	0.687	0.297	-0.16	21.63	22.00	1.089	0.748	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	20	QPSK 1_50	20850/2510	1:1	0.216	0.110	-0.08	23.60	24.50	1.230	0.266	22
Back side with 15mm	20	QPSK 1_50	20850/2510	1:1	0.258	0.130	0.04	23.60	24.50	1.230	0.317	22
Left side with 19mm	20	QPSK 1_50	20850/2510	1:1	0.238	0.124	0.13	23.60	24.50	1.230	0.293	22
Top side with 10mm	20	QPSK 1_50	20850/2510	1:1	0.121	0.063	-0.16	23.60	24.50	1.230	0.149	22
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	20	QPSK 50_25	21350/2560	1:1	0.150	0.077	0.11	22.33	23.50	1.309	0.196	22
Back side with 15mm	20	QPSK 50_25	21350/2560	1:1	0.193	0.100	0.01	22.33	23.50	1.309	0.253	22
Left side with 19mm	20	QPSK 50_25	21350/2560	1:1	0.346	0.179	-0.15	22.33	23.50	1.309	0.453	22
Top side with 10mm	20	QPSK 50_25	21350/2560	1:1	0.104	0.055	0.08	22.33	23.50	1.309	0.136	22
Test position	B W.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI1												
Left side	20	QPSK 1_50	21350/2560	1:1	5.172	1.789	0.19	21.51	22.00	1.119	2.003	22.3
Left side	20	QPSK 1_0	20850/2510	1:1	3.996	1.384	-0.06	21.46	22.00	1.132	1.567	22.3
Left side	20	QPSK 1_50	21100/2535	1:1	4.869	1.669	0.17	21.44	22.00	1.138	1.899	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI1												
Left side	20	QPSK 50_25	21350/2560	1:1	5.328	1.816	0.16	21.72	22.00	1.067	1.937	22.3
Left side	20	QPSK 50_50	20850/2510	1:1	4.515	1.548	0.18	21.55	22.00	1.109	1.717	22.3
Left side	20	QPSK 50_25	21100/2535	1:1	4.999	1.704	0.07	21.52	22.00	1.117	1.903	22.3
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI1												
Left side	20	QPSK 100_0	21350/2560	1:1	5.770	1.880	0.08	21.63	22.00	1.089	2.047	22.3



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Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 1 50	20850/2510	1:1	0.238	0.124	0.02	23.60	24.50	1.230	0.153	22
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 50 25	21350/2560	1:1	0.346	0.179	0.01	22.33	23.50	1.309	0.234	22
Ant 5 Test Record												
Test position	B W.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dB m)	Tune up Limit(dB m)	Scale factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1 99	21350/2560	1:1	0.172	0.086	-0.13	24.51	25.00	1.119	0.193	22.3
Left tilted	20	QPSK 1 99	21350/2560	1:1	0.046	0.025	0.10	24.51	25.00	1.119	0.051	22.3
Right cheek	20	QPSK 1 99	21350/2560	1:1	0.079	0.044	0.11	24.51	25.00	1.119	0.088	22.3
Right tilted	20	QPSK 1 99	21350/2560	1:1	0.070	0.034	0.11	24.51	25.00	1.119	0.078	22.3
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50 50	21350/2560	1:1	0.128	0.064	-0.04	23.74	24.00	1.062	0.136	22.3
Left tilted	20	QPSK 50 50	21350/2560	1:1	0.036	0.013	-0.08	23.74	24.00	1.062	0.038	22.3
Right cheek	20	QPSK 50 50	21350/2560	1:1	0.059	0.033	0.05	23.74	24.00	1.062	0.063	22.3
Right tilted	20	QPSK 50 50	21350/2560	1:1	0.054	0.026	-0.11	23.74	24.00	1.062	0.057	22.3
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1 99	21350/2560	1:1	0.160	0.084	0.17	24.51	25.00	1.119	0.179	22.4
Back side	20	QPSK 1 99	21350/2560	1:1	0.340	0.161	0.11	24.51	25.00	1.119	0.381	22.4
Left side	20	QPSK 1 99	21350/2560	1:1	0.354	0.170	-0.07	24.51	25.00	1.119	0.396	22.4
Bottom side	20	QPSK 1 99	21350/2560	1:1	0.156	0.077	-0.14	24.51	25.00	1.119	0.175	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50 50	21350/2560	1:1	0.128	0.067	-0.08	23.74	24.00	1.062	0.136	22.4
Back side	20	QPSK 50 50	21350/2560	1:1	0.259	0.119	-0.03	23.74	24.00	1.062	0.275	22.4
Left side	20	QPSK 50 50	21350/2560	1:1	0.278	0.132	-0.04	23.74	24.00	1.062	0.295	22.4
Bottom side	20	QPSK 50 50	21350/2560	1:1	0.100	0.051	-0.02	23.74	24.00	1.062	0.106	22.4



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Right cheek	21350/2560	0.940	0.935	1.01

Table 17 : SAR of LTE Band 7 for Head, Body, Hotspot and Limbs.



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9.2.8 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)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_25	23130/711	1:1	0.603	0.339	-0.02	23.59	24.00	1.099	0.663	22.4
Left tilted	10	QPSK 1_25	23130/711	1:1	0.506	0.266	-0.10	23.59	24.00	1.099	0.556	22.4
Right cheek	10	QPSK 1_25	23130/711	1:1	0.453	0.297	-0.19	23.59	24.00	1.099	0.498	22.4
Right tilted	10	QPSK 1_25	23130/711	1:1	0.342	0.209	-0.04	23.59	24.00	1.099	0.376	22.4
Left cheek	10	QPSK 1_25	23060/704	1:1	0.595	0.336	-0.01	23.51	24.00	1.119	0.666	22.4
Left cheek	10	QPSK 1_25	23095/707.5	1:1	0.589	0.321	-0.13	23.55	24.00	1.109	0.653	22.4
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_25	23060/704	1:1	0.615	0.346	-0.04	23.76	24.00	1.057	0.650	22.4
Left tilted	10	QPSK 25_25	23060/704	1:1	0.526	0.278	-0.05	23.76	24.00	1.057	0.556	22.4
Right cheek	10	QPSK 25_25	23060/704	1:1	0.467	0.307	0.03	23.76	24.00	1.057	0.494	22.4
Right tilted	10	QPSK 25_25	23060/704	1:1	0.359	0.221	-0.17	23.76	24.00	1.057	0.379	22.4
Left cheek	10	QPSK 25_13	23095/707.5	1:1	0.605	0.341	-0.09	23.70	24.00	1.072	0.648	22.4
Left cheek	10	QPSK 25_13	23130/711	1:1	0.607	0.342	0.09	23.67	24.00	1.079	0.655	22.4
Head Test Data (1RB) DSI5												
Left cheek	10	QPSK 1_25	23130/711	1:1	0.603	0.339	-0.02	23.59	23.50	0.979	0.591	22.4
Left tilted	10	QPSK 1_25	23130/711	1:1	0.506	0.266	-0.10	23.59	23.50	0.979	0.496	22.4
Right cheek	10	QPSK 1_25	23130/711	1:1	0.453	0.297	-0.19	23.59	23.50	0.979	0.444	22.4
Right tilted	10	QPSK 1_25	23130/711	1:1	0.342	0.209	-0.04	23.59	23.50	0.979	0.335	22.4
Left cheek	10	QPSK 1_25	23060/704	1:1	0.595	0.336	-0.01	23.51	23.50	0.998	0.594	22.4
Left cheek	10	QPSK 1_25	23095/707.5	1:1	0.589	0.321	-0.13	23.55	23.50	0.989	0.582	22.4
Head Test Data (50%RB) DSI5												
Left cheek	10	QPSK 25_25	23060/704	1:1	0.615	0.346	-0.04	23.76	23.50	0.942	0.579	22.4
Left tilted	10	QPSK 25_25	23060/704	1:1	0.526	0.278	-0.05	23.76	23.50	0.942	0.495	22.4
Right cheek	10	QPSK 25_25	23060/704	1:1	0.467	0.307	0.03	23.76	23.50	0.942	0.440	22.4
Right tilted	10	QPSK 25_25	23060/704	1:1	0.359	0.221	-0.17	23.76	23.50	0.942	0.338	22.4
Left cheek	10	QPSK 25_13	23095/707.5	1:1	0.605	0.341	-0.09	23.70	23.50	0.955	0.578	22.4
Left cheek	10	QPSK 25_13	23130/711	1:1	0.607	0.342	0.09	23.67	23.50	0.962	0.584	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												



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Front side	10	QPSK 1_25	23060/704	1:1	0.236	0.162	0.02	24.55	25.00	1.109	0.262	22
Back side	10	QPSK 1_25	23060/704	1:1	0.262	0.193	0.01	24.55	25.00	1.109	0.291	22
Left side	10	QPSK 1_25	23060/704	1:1	0.075	0.051	-0.19	24.55	25.00	1.109	0.083	22
Right side	10	QPSK 1_25	23060/704	1:1	0.175	0.117	-0.09	24.55	25.00	1.109	0.194	22
Top side	10	QPSK 1_25	23060/704	1:1	0.170	0.084	-0.19	24.55	25.00	1.109	0.189	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	10	QPSK 25_13	23060/704	1:1	0.223	0.152	-0.19	23.50	24.00	1.122	0.250	22
Back side	10	QPSK 25_13	23060/704	1:1	0.240	0.165	-0.13	23.50	24.00	1.122	0.269	22
Left side	10	QPSK 25_13	23060/704	1:1	0.075	0.051	0.09	23.50	24.00	1.122	0.084	22
Right side	10	QPSK 25_13	23060/704	1:1	0.165	0.110	0.16	23.50	24.00	1.122	0.185	22
Top side	10	QPSK 25_13	23060/704	1:1	0.162	0.080	-0.19	23.50	24.00	1.122	0.182	22

Table 18 : SAR of LTE Band 12 for Head, Body and Hotspot.



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9.2.9 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)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.626	0.361	0.16	22.03	22.50	1.114	0.698	22.4
Left tilted	10	QPSK 1_0	23230/782	1:1	0.590	0.326	-0.19	22.03	22.50	1.114	0.657	22.4
Right cheek	10	QPSK 1_0	23230/782	1:1	0.604	0.390	-0.13	22.03	22.50	1.114	0.673	22.4
Right tilted	10	QPSK 1_0	23230/782	1:1	0.378	0.224	0.19	22.03	22.50	1.114	0.421	22.4
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.624	0.355	-0.08	21.95	22.50	1.135	0.708	22.4
Left tilted	10	QPSK 25_0	23230/782	1:1	0.604	0.331	0.01	21.95	22.50	1.135	0.686	22.4
Right cheek	10	QPSK 25_0	23230/782	1:1	0.611	0.395	-0.16	21.95	22.50	1.135	0.693	22.4
Right tilted	10	QPSK 25_0	23230/782	1:1	0.390	0.233	-0.04	21.95	22.50	1.135	0.443	22.4
Head Test Data (1RB) DSI5												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.626	0.361	0.16	22.03	22.00	0.993	0.622	22.4
Left tilted	10	QPSK 1_0	23230/782	1:1	0.590	0.326	-0.19	22.03	22.00	0.993	0.586	22.4
Right cheek	10	QPSK 1_0	23230/782	1:1	0.604	0.390	-0.13	22.03	22.00	0.993	0.600	22.4
Right tilted	10	QPSK 1_0	23230/782	1:1	0.378	0.224	0.19	22.03	22.00	0.993	0.375	22.4
Head Test Data (50%RB) DSI5												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.624	0.355	-0.08	21.95	22.00	1.012	0.631	22.4
Left tilted	10	QPSK 25_0	23230/782	1:1	0.604	0.331	0.01	21.95	22.00	1.012	0.611	22.4
Right cheek	10	QPSK 25_0	23230/782	1:1	0.611	0.395	-0.16	21.95	22.00	1.012	0.618	22.4
Right tilted	10	QPSK 25_0	23230/782	1:1	0.390	0.233	-0.04	21.95	22.00	1.012	0.395	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	10	QPSK 1_49	23230/782	1:1	0.421	0.265	-0.01	24.30	25.00	1.175	0.495	22
Back side	10	QPSK 1_49	23230/782	1:1	0.429	0.305	-0.04	24.30	25.00	1.175	0.504	22
Left side	10	QPSK 1_49	23230/782	1:1	0.085	0.057	0.15	24.30	25.00	1.175	0.100	22
Right side	10	QPSK 1_49	23230/782	1:1	0.245	0.160	-0.02	24.30	25.00	1.175	0.288	22
Top side	10	QPSK 1_49	23230/782	1:1	0.299	0.152	-0.15	24.30	25.00	1.175	0.351	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	10	QPSK 25_0	23230/782	1:1	0.363	0.230	-0.06	23.19	24.00	1.205	0.437	22



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Back side	10	QPSK 25_0	23230/782	1:1	0.363	0.220	-0.03	23.19	24.00	1.205	0.437	22
Left side	10	QPSK 25_0	23230/782	1:1	0.078	0.052	0.00	23.19	24.00	1.205	0.094	22
Right side	10	QPSK 25_0	23230/782	1:1	0.205	0.138	0.16	23.19	24.00	1.205	0.247	22
Top side	10	QPSK 25_0	23230/782	1:1	0.250	0.134	-0.07	23.19	24.00	1.205	0.301	22

Table 19 : SAR of LTE Band 13 for Head, Body and Hotspot.



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9.2.10 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)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_0	23330/793	1:1	0.622	0.341	-0.12	21.92	22.50	1.143	0.711	22.4
Left tilted	10	QPSK 1_0	23330/793	1:1	0.530	0.292	-0.10	21.92	22.50	1.143	0.606	22.4
Right cheek	10	QPSK 1_0	23330/793	1:1	0.552	0.356	0.06	21.92	22.50	1.143	0.631	22.4
Right tilted	10	QPSK 1_0	23330/793	1:1	0.360	0.213	-0.19	21.92	22.50	1.143	0.411	22.4
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_0	23330/793	1:1	0.604	0.351	-0.07	21.92	22.50	1.143	0.690	22.4
Left tilted	10	QPSK 25_0	23330/793	1:1	0.523	0.288	0.18	21.92	22.50	1.143	0.598	22.4
Right cheek	10	QPSK 25_0	23330/793	1:1	0.550	0.354	-0.11	21.92	22.50	1.143	0.629	22.4
Right tilted	10	QPSK 25_0	23330/793	1:1	0.366	0.215	0.18	21.92	22.50	1.143	0.418	22.4
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_0	23330/793	1:1	0.622	0.341	-0.12	21.92	21.50	0.908	0.565	22.4
Left tilted	10	QPSK 1_0	23330/793	1:1	0.530	0.292	-0.10	21.92	21.50	0.908	0.481	22.4
Right cheek	10	QPSK 1_0	23330/793	1:1	0.552	0.356	0.06	21.92	21.50	0.908	0.501	22.4
Right tilted	10	QPSK 1_0	23330/793	1:1	0.360	0.213	-0.19	21.92	21.50	0.908	0.327	22.4
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_0	23330/793	1:1	0.604	0.351	-0.07	21.92	21.50	0.908	0.548	22.4
Left tilted	10	QPSK 25_0	23330/793	1:1	0.523	0.288	0.18	21.92	21.50	0.908	0.475	22.4
Right cheek	10	QPSK 25_0	23330/793	1:1	0.550	0.354	-0.11	21.92	21.50	0.908	0.499	22.4
Right tilted	10	QPSK 25_0	23330/793	1:1	0.366	0.215	0.18	21.92	21.50	0.908	0.332	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	10	QPSK 1_0	23330/793	1:1	0.437	0.309	0.07	24.15	25.00	1.216	0.531	22
Back side	10	QPSK 1_0	23330/793	1:1	0.429	0.260	-0.05	24.15	25.00	1.216	0.522	22
Left side	10	QPSK 1_0	23330/793	1:1	0.089	0.058	0.00	24.15	25.00	1.216	0.108	22
Right side	10	QPSK 1_0	23330/793	1:1	0.249	0.167	-0.12	24.15	25.00	1.216	0.303	22
Top side	10	QPSK 1_0	23330/793	1:1	0.353	0.175	-0.03	24.15	25.00	1.216	0.429	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	10	QPSK 25_13	23330/793	1:1	0.367	0.231	-0.16	23.00	24.00	1.259	0.462	22
Back side	10	QPSK 25_13	23330/793	1:1	0.367	0.220	0.02	23.00	24.00	1.259	0.462	22
Left side	10	QPSK 25_13	23330/793	1:1	0.073	0.048	0.13	23.00	24.00	1.259	0.092	22
Right side	10	QPSK 25_13	23330/793	1:1	0.188	0.126	-0.19	23.00	24.00	1.259	0.237	22
Top side	10	QPSK 25_13	23330/793	1:1	0.281	0.140	-0.11	23.00	24.00	1.259	0.354	22

Table 20 : SAR of LTE Band 14 for Head, Body and Hotspot.



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9.2.11 SAR Result of LTE Band 25

LTE Band 25 SAR Test Record												
Ant 2 Test Record												
Test position	B W.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1 50	26365/1882.5	1:1	0.375	0.246	0.19	17.84	18.50	1.164	0.437	22.4
Left tilted	20	QPSK 1 50	26365/1882.5	1:1	0.399	0.240	0.10	17.84	18.50	1.164	0.464	22.4
Right cheek	20	QPSK 1 50	26365/1882.5	1:1	0.715	0.408	-0.13	17.84	18.50	1.164	0.832	22.4
Right tilted	20	QPSK 1 50	26365/1882.5	1:1	0.475	0.276	0.11	17.84	18.50	1.164	0.553	22.4
Right cheek	20	QPSK 1 50	26140/1860	1:1	0.801	0.431	0.03	17.71	18.50	1.199	0.961	22.5
Right cheek	20	QPSK 1 99	26590/1905	1:1	0.639	0.363	-0.01	17.82	18.50	1.169	0.747	22.4
Right cheek-repeat	20	QPSK 1 50	26140/1860	1:1	0.800	0.431	0.05	17.71	18.50	1.199	0.960	22.5
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50 25	26140/1860	1:1	0.393	0.258	-0.07	17.86	18.50	1.159	0.455	22.4
Left tilted	20	QPSK 50 25	26140/1860	1:1	0.425	0.256	0.08	17.86	18.50	1.159	0.492	22.4
Right cheek	20	QPSK 50 25	26140/1860	1:1	0.760	0.439	-0.11	17.86	18.50	1.159	0.881	22.4
Right tilted	20	QPSK 50 25	26140/1860	1:1	0.514	0.295	0.10	17.86	18.50	1.159	0.596	22.4
Right cheek	20	QPSK 50 0	26365/1882.5	1:1	0.736	0.424	-0.10	17.67	18.50	1.211	0.891	22.4
Right cheek	20	QPSK 50 0	26590/1905	1:1	0.685	0.392	0.04	17.60	18.50	1.230	0.843	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100 0	26140/1860	1:1	0.754	0.436	0.12	17.85	18.50	1.161	0.876	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1 50	26365/1882.5	1:1	0.524	0.324	0.02	22.81	23.50	1.172	0.614	22.3
Back side	20	QPSK 1 50	26365/1882.5	1:1	0.452	0.282	0.00	22.81	23.50	1.172	0.530	22.3
Left side	20	QPSK 1 50	26365/1882.5	1:1	0.254	0.141	-0.09	22.81	23.50	1.172	0.298	22.3
Top side	20	QPSK 1 50	26365/1882.5	1:1	0.630	0.359	-0.14	22.81	23.50	1.172	0.738	22.3
Top side	20	QPSK 1 99	26140/1860	1:1	0.687	0.385	0.11	22.69	23.50	1.205	0.828	22.3
Top side	20	QPSK 1 50	26590/1905	1:1	0.468	0.266	-0.01	22.79	23.50	1.178	0.551	22.3



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Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_25	26140/1860	1:1	0.606	0.377	0.15	22.78	23.50	1.180	0.715	22.3
Back side	20	QPSK 50_25	26140/1860	1:1	0.490	0.312	-0.05	22.78	23.50	1.180	0.578	22.3
Left side	20	QPSK 50_25	26140/1860	1:1	0.302	0.170	-0.18	22.78	23.50	1.180	0.356	22.3
Top side	20	QPSK 50_25	26140/1860	1:1	0.776	0.442	-0.18	22.78	23.50	1.180	0.916	22.5
Top side	20	QPSK 50_0	26365/1882.5	1:1	0.674	0.382	0.00	22.66	23.50	1.213	0.818	22.3
Top side	20	QPSK 50_50	26590/1905	1:1	0.473	0.268	-0.12	22.56	23.50	1.242	0.587	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI0												
Top side	20	QPSK 100_0	26140/1860	1:1	0.733	0.415	-0.14	22.85	23.50	1.161	0.851	22.3
Ant 5 Test Record												
Test position	B W.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_0	26590/1905	1:1	0.406	0.250	0.17	23.35	25.00	1.462	0.594	22.3
Left tilted	20	QPSK 1_0	26590/1905	1:1	0.137	0.089	-0.14	23.35	25.00	1.462	0.200	22.3
Right cheek	20	QPSK 1_0	26590/1905	1:1	0.279	0.167	-0.02	23.35	25.00	1.462	0.408	22.3
Right tilted	20	QPSK 1_0	26590/1905	1:1	0.181	0.111	-0.12	23.35	25.00	1.462	0.265	22.3
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_25	26590/1905	1:1	0.332	0.206	-0.02	22.50	24.00	1.413	0.469	22.3
Left tilted	20	QPSK 50_25	26590/1905	1:1	0.107	0.070	-0.08	22.50	24.00	1.413	0.151	22.3
Right cheek	20	QPSK 50_25	26590/1905	1:1	0.243	0.146	-0.15	22.50	24.00	1.413	0.343	22.3
Right tilted	20	QPSK 50_25	26590/1905	1:1	0.135	0.084	0.07	22.50	24.00	1.413	0.191	22.3
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1_0	26590/1905	1:1	0.441	0.266	0.00	22.79	24.00	1.321	0.583	22.4
Back side	20	QPSK 1_0	26590/1905	1:1	0.650	0.374	-0.19	22.79	24.00	1.321	0.859	22.4
Left side	20	QPSK 1_0	26590/1905	1:1	0.688	0.381	-0.13	22.79	24.00	1.321	0.909	22.4
Bottom side	20	QPSK 1_0	26590/1905	1:1	0.177	0.100	0.19	22.79	24.00	1.321	0.234	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50_25	26590/1905	1:1	0.486	0.286	0.02	22.92	24.00	1.282	0.623	22.4
Back side	20	QPSK 50_25	26590/1905	1:1	0.654	0.374	0.16	22.92	24.00	1.282	0.839	22.4
Left side	20	QPSK 50_25	26590/1905	1:1	0.682	0.385	-0.19	22.92	24.00	1.282	0.875	22.4
Bottom side	20	QPSK 50_25	26590/1905	1:1	0.174	0.098	0.06	22.92	24.00	1.282	0.223	22.4
Body worn&Hotspot Test data Sensor off DSI0												



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Front side with 23mm	20	QPSK 1_0	26590/1905	1:1	0.181	0.114	0.05	23.35	25.00	1.462	0.265	22.4
Back side with 23mm	20	QPSK 1_0	26590/1905	1:1	0.250	0.153	0.12	23.35	25.00	1.462	0.366	22.4
Left side with 19mm	20	QPSK 1_0	26590/1905	1:1	0.337	0.201	0.05	23.35	25.00	1.462	0.493	22.4
Bottom side with 18mm	20	QPSK 1_0	26590/1905	1:1	0.050	0.021	-0.03	23.35	25.00	1.462	0.073	22.4
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 23mm	20	QPSK 50_25	26590/1905	1:1	0.127	0.081	0.03	22.50	24.00	1.413	0.179	22.4
Back side with 23mm	20	QPSK 50_25	26590/1905	1:1	0.201	0.124	-0.13	22.50	24.00	1.413	0.284	22.4
Left side with 19mm	20	QPSK 50_25	26590/1905	1:1	0.252	0.150	-0.05	22.50	24.00	1.413	0.356	22.4
Bottom side with 18mm	20	QPSK 50_25	26590/1905	1:1	0.051	0.021	-0.02	22.50	24.00	1.413	0.072	22.4
Test position	B W.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI1												
Left side	20	QPSK 1_0	26590/1905	1:1	3.067	1.304	-0.11	22.79	24.00	1.321	1.723	22.4
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI1												
Left side	20	QPSK 50_25	26590/1905	1:1	3.120	1.380	-0.04	22.92	24.00	1.282	1.770	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 1_0	26590/1905	1:1	0.337	0.201	0.17	23.35	25.00	1.462	0.294	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 50_25	26590/1905	1:1	0.321	0.021	-0.18	22.50	24.00	1.413	0.030	22.3

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Right cheek	26140/1860	0.801	0.800	1.00

Table 21 : SAR of LTE Band 25 for Head, Body,Hotspot and Limbs.



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9.2.12 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)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	15	QPSK 1_38	26865/831.5	1:1	0.476	0.276	-0.19	20.42	21.00	1.143	0.544	22.4
Left tilted	15	QPSK 1_38	26865/831.5	1:1	0.433	0.238	0.13	20.42	21.00	1.143	0.495	22.4
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.602	0.345	0.00	20.42	21.00	1.143	0.688	22.4
Right tilted	15	QPSK 1_38	26865/831.5	1:1	0.345	0.209	-0.12	20.42	21.00	1.143	0.394	22.4
Head Test Data (50%RB) DSI4												
Left cheek	15	QPSK 36_39	26865/831.5	1:1	0.486	0.285	0.10	20.42	21.00	1.143	0.555	22.4
Left tilted	15	QPSK 36_39	26865/831.5	1:1	0.433	0.240	0.16	20.42	21.00	1.143	0.495	22.4
Right cheek	15	QPSK 36_39	26865/831.5	1:1	0.624	0.355	0.05	20.42	21.00	1.143	0.713	22.4
Right tilted	15	QPSK 36_39	26865/831.5	1:1	0.375	0.223	-0.06	20.42	21.00	1.143	0.429	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	15	QPSK 1_74	26865/831.5	1:1	0.566	0.359	-0.17	24.26	25.00	1.186	0.671	22
Back side	15	QPSK 1_74	26865/831.5	1:1	0.533	0.348	-0.03	24.26	25.00	1.186	0.632	22
Left side	15	QPSK 1_74	26865/831.5	1:1	0.104	0.061	-0.16	24.26	25.00	1.186	0.123	22
Right side	15	QPSK 1_74	26865/831.5	1:1	0.151	0.102	-0.13	24.26	25.00	1.186	0.179	22
Top side	15	QPSK 1_74	26865/831.5	1:1	0.383	0.197	-0.01	24.26	25.00	1.186	0.454	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	15	QPSK 36_18	26765/821.5	1:1	0.413	0.255	-0.17	23.22	24.00	1.197	0.494	22
Back side	15	QPSK 36_18	26765/821.5	1:1	0.385	0.236	-0.02	23.22	24.00	1.197	0.461	22
Left side	15	QPSK 36_18	26765/821.5	1:1	0.058	0.035	-0.17	23.22	24.00	1.197	0.069	22
Right side	15	QPSK 36_18	26765/821.5	1:1	0.120	0.080	-0.02	23.22	24.00	1.197	0.144	22
Top side	15	QPSK 36_18	26765/821.5	1:1	0.291	0.152	-0.17	23.22	24.00	1.197	0.348	22

Table 22 : SAR of LTE Band 26 for Head, Body and Hotspot.

9.2.13 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)	Scale factor	Scale SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_49	27710/2310	1:1	0.199	0.118	-0.12	20.29	21.00	1.178	0.234	22.4
Left tilted	10	QPSK 1_49	27710/2310	1:1	0.208	0.114	-0.09	20.29	21.00	1.178	0.245	22.4
Right cheek	10	QPSK 1_49	27710/2310	1:1	0.625	0.298	-0.08	20.29	21.00	1.178	0.736	22.4
Right tilted	10	QPSK 1_49	27710/2310	1:1	0.496	0.257	-0.17	20.29	21.00	1.178	0.584	22.4
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_25	27710/2310	1:1	0.202	0.119	0.11	20.17	21.00	1.211	0.245	22.4
Left tilted	10	QPSK 25_25	27710/2310	1:1	0.215	0.119	0.15	20.17	21.00	1.211	0.260	22.4
Right cheek	10	QPSK 25_25	27710/2310	1:1	0.634	0.298	-0.07	20.17	21.00	1.211	0.768	22.4
Right tilted	10	QPSK 25_25	27710/2310	1:1	0.493	0.254	0.09	20.17	21.00	1.211	0.597	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	10	QPSK 1_25	27710/2310	1:1	0.311	0.161	-0.11	23.16	24.50	1.361	0.423	22
Back side	10	QPSK 1_25	27710/2310	1:1	0.350	0.175	0.19	23.16	24.50	1.361	0.477	22
Left side	10	QPSK 1_25	27710/2310	1:1	0.404	0.185	-0.18	23.16	24.50	1.361	0.550	22
Top side	10	QPSK 1_25	27710/2310	1:1	0.184	0.094	0.05	23.16	24.50	1.361	0.251	22
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	10	QPSK 25_25	27710/2310	1:1	0.233	0.123	0.03	22.35	23.50	1.303	0.304	22
Back side	10	QPSK 25_25	27710/2310	1:1	0.293	0.140	-0.01	22.35	23.50	1.303	0.382	22
Left side	10	QPSK 25_25	27710/2310	1:1	0.304	0.136	-0.01	22.35	23.50	1.303	0.396	22
Top side	10	QPSK 25_25	27710/2310	1:1	0.171	0.087	-0.17	22.35	23.50	1.303	0.223	22

Table 23 : SAR of LTE Band 30 for Head and Body.

9.2.14 SAR Result of LTE Band 38

LTE Band 38 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)	Scale factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1 50	38150/2610	1:1.5 8	0.324	0.145	-0.17	21.26	21.50	1.057	0.342	22.3
Back side	20	QPSK 1 50	38150/2610	1:1.5 8	0.348	0.159	0.09	21.26	21.50	1.057	0.368	22.3
Left side	20	QPSK 1 50	38150/2610	1:1.5 8	0.575	0.252	0.11	21.26	21.50	1.057	0.608	22.3
Top side	20	QPSK 1 50	38150/2610	1:1.5 8	0.046	0.025	0.05	21.26	21.50	1.057	0.049	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50 25	38000/2595	1:1.5 8	0.272	0.127	0.10	21.34	21.50	1.038	0.282	22.3
Back side	20	QPSK 50 25	38000/2595	1:1.5 8	0.316	0.146	-0.01	21.34	21.50	1.038	0.328	22.3
Left side	20	QPSK 50 25	38000/2595	1:1.5 8	0.585	0.254	0.18	21.34	21.50	1.038	0.607	22.3
Top side	20	QPSK 50 25	38000/2595	1:1.5 8	0.045	0.025	0.13	21.34	21.50	1.038	0.047	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)	Scale factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI1												
Left side	20	QPSK 1 50	38150/2610	1:1.5 8	3.230	1.080	-0.01	21.26	21.50	1.057	1.141	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI1												
Left side	20	QPSK 50 25	38000/2595	1:1.5 8	3.420	1.120	0.04	21.34	21.50	1.038	1.162	22.3

Table 24 : SAR of LTE Band 38 for Body,Hotspot and Limbs.

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9.2.15 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 2 Test Record												
Test position	B W.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1 50	40620/2593	1:1.5 8	0.138	0.066	0.01	19.31	19.50	1.045	0.144	22.4
Left tilted	20	QPSK 1 50	40620/2593	1:1.5 8	0.089	0.044	0.03	19.31	19.50	1.045	0.093	22.4
Right cheek	20	QPSK 1 50	40620/2593	1:1.5 8	0.737	0.297	-0.13	19.31	19.50	1.045	0.770	22.4
Right tilted	20	QPSK 1 50	40620/2593	1:1.5 8	0.357	0.165	-0.02	19.31	19.50	1.045	0.373	22.4
Right cheek	20	QPSK 1_0	39750/2506	1:1.5 8	0.445	0.193	-0.10	19.02	19.50	1.117	0.497	22.4
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.5 8	0.565	0.234	-0.01	18.93	19.50	1.140	0.644	22.4
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.5 8	0.709	0.282	0.13	19.00	19.50	1.122	0.796	22.4
Right cheek	20	QPSK 1_0	41490/2680	1:1.5 8	0.731	0.279	0.04	18.96	19.50	1.132	0.828	22.4
Right cheek with HPUE	20	QPSK 1 99	40620/2593	1:2.3 1	0.669	0.260	-0.04	20.75	21.50	1.189	0.795	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50 50	40620/2593	1:1.5 8	0.139	0.064	0.01	19.40	19.50	1.023	0.142	22.4
Left tilted	20	QPSK 50 50	40620/2593	1:1.5 8	0.089	0.045	0.03	19.40	19.50	1.023	0.091	22.4
Right cheek	20	QPSK 50 50	40620/2593	1:1.5 8	0.758	0.306	0.02	19.40	19.50	1.023	0.776	22.4
Right tilted	20	QPSK 50 50	40620/2593	1:1.5 8	0.336	0.155	0.04	19.40	19.50	1.023	0.344	22.4
Right cheek	20	QPSK 50 25	39750/2506	1:1.5 8	0.477	0.206	-0.08	19.08	19.50	1.102	0.525	22.4
Right cheek	20	QPSK 50 0	40185/2549.5	1:1.5 8	0.587	0.243	0.04	19.17	19.50	1.079	0.633	22.4
Right cheek	20	QPSK 50 0	41055/2636.5	1:1.5 8	0.711	0.281	-0.17	19.07	19.50	1.104	0.785	22.4
Right cheek	20	QPSK 50 25	41490/2680	1:1.5 8	0.719	0.280	-0.16	19.21	19.50	1.069	0.769	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100 0	40620/2593	1:1.5 8	0.752	0.301	-0.19	19.30	19.50	1.047	0.787	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1 50	41490/2680	1:1.5 8	0.158	0.072	-0.02	20.51	21.00	1.119	0.177	22.3
Back side	20	QPSK 1 50	41490/2680	1:1.5 8	0.287	0.133	-0.15	20.51	21.00	1.119	0.321	22.3



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Left side	20	QPSK 1 50	41490/2680	1:1.5 8	0.593	0.259	-0.02	20.51	21.00	1.119	0.664	22.3
Top side	20	QPSK 1 50	41490/2680	1:1.5 8	0.037	0.021	0.00	20.51	21.00	1.119	0.041	22.3
Left side	20	QPSK 1 99	39750/2506	1:1.5 8	0.229	0.099	-0.09	20.27	21.00	1.183	0.271	22.3
Left side	20	QPSK 1 50	40185/2549 .5	1:1.5 8	0.321	0.137	-0.12	20.28	21.00	1.180	0.379	22.3
Left side	20	QPSK 1 50	40620/2593	1:1.5 8	0.486	0.208	0.17	20.49	21.00	1.125	0.547	22.3
Left side	20	QPSK 1 99	41055/2636 .5	1:1.5 8	0.317	0.140	0.14	20.44	21.00	1.138	0.361	22.3
Left side with HPUE	20	QPSK 1 99	41490/2680	1:1.5 8	0.486	0.212	-0.02	22.68	23.00	1.076	0.523	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50 25	41490/2680	1:1.5 8	0.163	0.075	-0.18	20.49	21.00	1.125	0.183	22.3
Back side	20	QPSK 50 25	41490/2680	1:1.5 8	0.280	0.131	0.17	20.49	21.00	1.125	0.315	22.3
Left side	20	QPSK 50 25	41490/2680	1:1.5 8	0.565	0.244	-0.03	20.49	21.00	1.125	0.635	22.3
Top side	20	QPSK 50 25	41490/2680	1:1.5 8	0.042	0.022	-0.11	20.49	21.00	1.125	0.047	22.3
Left side	20	QPSK 50 50	39750/2506	1:1.5 8	0.221	0.095	0.12	20.30	21.00	1.175	0.260	22.3
Left side	20	QPSK 50 50	40185/2549 .5	1:1.5 8	0.337	0.144	0.06	20.28	21.00	1.180	0.398	22.3
Left side	20	QPSK 50 0	40620/2593	1:1.5 8	0.473	0.201	0.02	20.47	21.00	1.130	0.534	22.3
Left side	20	QPSK 50 0	41055/2636 .5	1:1.5 8	0.575	0.255	-0.12	20.44	21.00	1.138	0.654	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	20	QPSK 1_0	41490/2680	1:1.5 8	0.234	0.115	-0.03	24.59	25.00	1.099	0.257	22
Back side with 15mm	20	QPSK 1_0	41490/2680	1:1.5 8	0.462	0.228	0.01	24.59	25.00	1.099	0.508	22
Left side with 19mm	20	QPSK 1_0	41490/2680	1:1.5 8	0.424	0.150	-0.10	24.59	25.00	1.099	0.466	22
Top side with 10mm	20	QPSK 1_0	41490/2680	1:1.5 8	0.105	0.057	0.16	24.59	25.00	1.099	0.115	22
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	20	QPSK 50 0	41490/2680	1:1.5 8	0.175	0.086	0.05	23.61	24.00	1.094	0.191	22
Back side with 15mm	20	QPSK 50 0	41490/2680	1:1.5 8	0.357	0.175	-0.14	23.61	24.00	1.094	0.391	22
Left side with 19mm	20	QPSK 50 0	41490/2680	1:1.5 8	0.328	0.167	-0.10	23.61	24.00	1.094	0.359	22
Top side with 10mm	20	QPSK 50 0	41490/2680	1:1.5 8	0.101	0.056	0.10	23.61	24.00	1.094	0.110	22
Test position	B W.	Test mode	Test Ch./Freq.	Duty Cycl e	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(d B)	Conducte d power(dB m)	Tune up Limit(dB m)	Scale d facto r	Scaled 10-g SAR(W/k g)	Liquid Temp.



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Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI1												
Left side	20	QPSK 1_50	41490/2680	1:1.5 8	2.560	0.882	0.14	20.51	21.00	1.119	0.987	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI1												
Left side	20	QPSK 50_25	41490/2680	1:1.5 8	3.450	1.110	0.03	20.49	21.00	1.125	1.248	22.3
Left side with HPUE	20	QPSK 1_99	41490/2680	1:1.5 8	3.210	1.050	-0.03	22.68	23.00	1.076	1.130	22.3
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 1_0	41490/2680	1:1.5 8	0.402	0.206	-0.10	24.59	25.00	1.099	0.226	22
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 50_0	41490/2680	1:1.5 8	0.315	0.159	0.07	23.61	24.00	1.094	0.174	22

Table 25 : SAR of LTE Band 41 for Head, Body,Hotspot and Limbs.



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9.2.16 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)	Scale factor	Scale SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_99	42590/3500	1:1.5 8	0.406	0.195	0.06	20.95	21.00	1.012	0.411	22.4
Left tilted	20	QPSK 1_99	42590/3500	1:1.5 8	0.109	0.054	0.04	20.95	21.00	1.012	0.110	22.4
Right cheek	20	QPSK 1_99	42590/3500	1:1.5 8	0.792	0.348	-0.04	20.95	21.00	1.012	0.801	22.4
Right tilted	20	QPSK 1_99	42590/3500	1:1.5 8	0.184	0.090	0.07	20.95	21.00	1.012	0.186	22.4
Left cheek	20	QPSK 1_99	41690/3410	1:1.5 8	0.385	0.188	0.04	20.54	21.00	1.112	0.428	22.4
Left cheek	20	QPSK 1_99	43490/3590	1:1.5 8	0.375	0.184	0.03	20.11	21.00	1.227	0.460	22.4
Right cheek	20	QPSK 1_99	41690/3410	1:1.5 8	0.728	0.317	0.05	20.54	21.00	1.112	0.809	22.4
Right cheek	20	QPSK 1_99	43490/3590	1:1.5 8	0.486	0.188	0.11	20.11	21.00	1.227	0.597	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_25	42590/3500	1:1.5 8	0.433	0.208	0.07	20.98	21.00	1.005	0.435	22.4
Left tilted	20	QPSK 50_25	42590/3500	1:1.5 8	0.115	0.058	-0.04	20.98	21.00	1.005	0.116	22.4
Right cheek	20	QPSK 50_25	42590/3500	1:1.5 8	0.794	0.329	0.16	20.98	21.00	1.005	0.798	22.4
Right tilted	20	QPSK 50_25	42590/3500	1:1.5 8	0.171	0.084	-0.13	20.98	21.00	1.005	0.172	22.4
Left cheek	20	QPSK 50_50	41690/3410	1:1.5 8	0.421	0.192	0.05	20.62	21.00	1.091	0.459	22.4
Left cheek	20	QPSK 50_25	43490/3590	1:1.5 8	0.430	0.185	0.04	20.22	21.00	1.197	0.515	22.4
Right cheek	20	QPSK 50_50	41690/3410	1:1.5 8	0.705	0.312	0.01	20.62	21.00	1.091	0.769	22.4
Right cheek	20	QPSK 50_25	43490/3590	1:1.5 8	0.650	0.258	-0.07	20.22	21.00	1.197	0.778	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	42590/3500	1:1.5 8	0.793	0.323	0.12	20.97	21.00	1.007	0.798	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_50	42590/3500	1:1.5 8	0.406	0.190	0.17	23.82	24.00	1.042	0.423	22.3
Back side	20	QPSK 1_50	42590/3500	1:1.5 8	0.657	0.297	0.00	23.82	24.00	1.042	0.685	22.3
Left side	20	QPSK 1_50	42590/3500	1:1.5 8	0.686	0.329	-0.10	23.82	24.00	1.042	0.715	22.4
Front side	20	QPSK 1_50	41690/3410	1:1.5 8	0.385	0.187	-0.15	23.42	24.00	1.143	0.440	22.3



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Front side	20	QPSK 1_50	43490/3590	1:1.5 8	0.385	0.185	0.07	23.03	24.00	1.250	0.481	22.3
Back side	20	QPSK 1_50	41690/3410	1:1.5 8	0.513	0.246	-0.08	23.42	24.00	1.143	0.586	22.3
Back side	20	QPSK 1_50	43490/3590	1:1.5 8	0.378	0.178	0.13	23.03	24.00	1.250	0.473	22.3
Left side	20	QPSK 1_50	41690/3410	1:1.5 8	0.625	0.312	0.07	23.42	24.00	1.143	0.714	22.3
Left side	20	QPSK 1_50	43490/3590	1:1.5 8	0.633	0.325	-0.12	23.03	24.00	1.250	0.791	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_0	42590/3500	1:1.5 8	0.362	0.171	-0.02	23.40	23.50	1.023	0.370	22.3
Back side	20	QPSK 50_0	42590/3500	1:1.5 8	0.576	0.260	-0.15	23.40	23.50	1.023	0.589	22.3
Left side	20	QPSK 50_0	42590/3500	1:1.5 8	0.643	0.297	0.07	23.40	23.50	1.023	0.658	22.3
Front side	20	QPSK 50_50	41690/3410	1:1.5 8	0.352	0.162	-0.15	23.38	23.50	1.028	0.362	22.3
Front side	20	QPSK 50_25	43490/3590	1:1.5 8	0.348	0.164	-0.02	23.20	23.50	1.072	0.373	22.3
Back side	20	QPSK 50_50	41690/3410	1:1.5 8	0.484	0.232	-0.13	23.38	23.50	1.028	0.498	22.3
Back side	20	QPSK 50_25	43490/3590	1:1.5 8	0.372	0.168	0.00	23.20	23.50	1.072	0.399	22.3
Left side	20	QPSK 50_50	41690/3410	1:1.5 8	0.635	0.287	0.00	23.38	23.50	1.028	0.653	22.3
Left side	20	QPSK 50_25	43490/3590	1:1.5 8	0.627	0.289	0.08	23.20	23.50	1.072	0.672	22.3

Table 26 : SAR of LTE Band 42 for Head, Body and Hotspot.



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9.2.17 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	Scale SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_99	56640/3690	1:1.58	0.187	0.092	-0.10	19.47	20.50	1.268	0.237	22.4
Left tilted	20	QPSK 1_99	56640/3690	1:1.58	0.136	0.062	-0.19	19.47	20.50	1.268	0.172	22.4
Right cheek	20	QPSK 1_99	56640/3690	1:1.58	0.652	0.249	-0.08	19.47	20.50	1.268	0.827	22.4
Right tilted	20	QPSK 1_99	56640/3690	1:1.58	0.234	0.107	0.02	19.47	20.50	1.268	0.297	22.4
Right cheek	20	QPSK 1_0	55340/3560	1:1.58	0.586	0.238	-0.08	18.82	20.50	1.472	0.863	22.4
Right cheek	20	QPSK 1_99	55990/3625	1:1.58	0.518	0.197	0.16	19.12	20.50	1.374	0.712	22.4
Right cheek	20	QPSK PCC 1_99	55340/3560	1:1	0.532	0.208	-0.19	19.33	20.50	1.309	0.696	22.2
		QPSK SCC 1_0	55538/3579.2									
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	56640/3690	1:1.58	0.192	0.093	-0.05	19.54	20.50	1.247	0.239	22.4
Left tilted	20	QPSK 50_50	56640/3690	1:1.58	0.130	0.061	0.11	19.54	20.50	1.247	0.162	22.4
Right cheek	20	QPSK 50_50	56640/3690	1:1.58	0.516	0.193	-0.18	19.54	20.50	1.247	0.644	22.4
Right tilted	20	QPSK 50_50	56640/3690	1:1.58	0.232	0.106	0.10	19.54	20.50	1.247	0.289	22.4
Right cheek	20	QPSK 50_0	55340/3560	1:1.58	0.501	0.188	-0.03	18.89	20.50	1.449	0.726	22.4
Right cheek	20	QPSK 50_25	55990/3625	1:1.58	0.512	0.191	0.01	19.28	20.50	1.324	0.678	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	56640/3690	1:1.58	0.585	0.232	-0.12	19.40	20.50	1.288	0.754	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_99	56640/3690	1:1.58	0.450	0.215	-0.02	23.89	24.00	1.026	0.462	22.3
Back side	20	QPSK 1_99	56640/3690	1:1.58	0.508	0.236	-0.03	23.89	24.00	1.026	0.521	22.3
Left side	20	QPSK 1_99	56640/3690	1:1.58	0.690	0.326	-0.08	23.89	24.00	1.026	0.708	22.4
Left side	20	QPSK 1_0	55340/3560	1:1.58	0.600	0.275	-0.02	23.29	24.00	1.178	0.707	22.4
Left side	20	QPSK 1_99	55990/3625	1:1.58	0.635	0.286	-0.12	23.61	24.00	1.094	0.695	22.4



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Left side	20	QPSK PCC 1_0	56640/3690	1:1	0.524	0.249	0.08	22.77	24.00	1.327	0.696	22.2
		QPSK SCC 1_99	56442/3670.8									
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_50	56640/3690	1:1.5 8	0.460	0.210	-0.19	22.92	23.00	1.019	0.469	22.3
Back side	20	QPSK 50_50	56640/3690	1:1.5 8	0.486	0.220	0.00	22.92	23.00	1.019	0.495	22.3
Left side	20	QPSK 50_50	56640/3690	1:1.5 8	0.645	0.291	-0.13	22.92	23.00	1.019	0.657	22.3
Left side	20	QPSK 50_0	55340/3560	1:1.5 8	0.600	0.279	0.07	22.39	23.00	1.151	0.690	22.3
Left side	20	QPSK 50_50	55990/3625	1:1.5 8	0.623	0.295	0.19	22.81	23.00	1.045	0.651	22.3

Table 27 : SAR of LTE Band 48 for Head, Body and Hotspot.



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9.2.18 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	Scale SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_50	132572/1770	1:1	0.406	0.268	-0.09	17.43	18.50	1.279	0.519	22.4
Left tilted	20	QPSK 1_50	132572/1770	1:1	0.375	0.230	0.02	17.43	18.50	1.279	0.480	22.4
Right cheek	20	QPSK 1_50	132572/1770	1:1	0.765	0.445	0.11	17.43	18.50	1.279	0.979	22.4
Right tilted	20	QPSK 1_50	132572/1770	1:1	0.493	0.287	-0.01	17.43	18.50	1.279	0.631	22.4
Right cheek	20	QPSK 1_99	132072/1720	1:1	0.764	0.442	0.00	17.33	18.50	1.309	1.000	22.4
Right cheek	20	QPSK 1_50	132322/1745	1:1	0.756	0.437	0.00	17.33	18.50	1.309	0.990	22.4
Right cheek	20	QPSK PCC 1_0	132572/1770	1:1	0.725	0.421	0.07	16.98	18.50	1.419	1.029	22.2
		QPSK SCC 1_99	132374/1750.8									
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_50	132072/1720	1:1	0.400	0.265	-0.02	17.37	18.50	1.297	0.519	22.4
Left tilted	20	QPSK 50_50	132072/1720	1:1	0.328	0.203	-0.17	17.37	18.50	1.297	0.425	22.4
Right cheek	20	QPSK 50_50	132072/1720	1:1	0.785	0.456	0.11	17.37	18.50	1.297	1.018	22.4
Right tilted	20	QPSK 50_50	132072/1720	1:1	0.477	0.277	0.16	17.37	18.50	1.297	0.619	22.4
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.776	0.448	-0.09	17.37	18.50	1.297	1.007	22.4
Right cheek	20	QPSK 50_50	132572/1770	1:1	0.798	0.433	0.07	17.35	18.50	1.303	1.040	22.5
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	132072/1720	1:1	0.775	0.452	0.08	17.31	18.50	1.315	1.019	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_50	132572/1770	1:1	0.711	0.428	0.00	23.49	24.50	1.262	0.897	22.3
Back side	20	QPSK 1_50	132572/1770	1:1	0.712	0.418	0.05	23.49	24.50	1.262	0.898	22.3
Left side	20	QPSK 1_50	132572/1770	1:1	0.479	0.271	-0.15	23.49	24.50	1.262	0.604	22.3
Top side	20	QPSK 1_50	132572/1770	1:1	0.795	0.452	0.06	23.49	24.50	1.262	1.003	22.5
Front side	20	QPSK 1_50	132072/1720	1:1	0.574	0.342	-0.13	23.22	24.50	1.343	0.771	22.3
Front side	20	QPSK 1_99	132322/1745	1:1	0.663	0.395	0.04	23.45	24.50	1.274	0.844	22.3
Back side	20	QPSK 1_50	132072/1720	1:1	0.615	0.356	-0.13	23.22	24.50	1.343	0.826	22.3
Back side	20	QPSK 1_99	132322/1745	1:1	0.683	0.401	0.05	23.45	24.50	1.274	0.870	22.3
Top side	20	QPSK 1_50	132072/1720	1:1	0.620	0.349	0.17	23.22	24.50	1.343	0.833	22.3
Top side	20	QPSK 1_99	132322/1745	1:1	0.748	0.416	-0.18	23.45	24.50	1.274	0.953	22.3
Top side	20	QPSK PCC 1_0	132572/1770	1:1	0.633	0.348	0.08	22.93	24.50	1.435	0.909	22.2
		QPSK SCC 1_99	132374/1750.8									
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_50	132572/1770	1:1	0.615	0.367	-0.19	22.27	23.50	1.327	0.816	22.3
Back side	20	QPSK 50_50	132572/1770	1:1	0.607	0.361	-0.09	22.27	23.50	1.327	0.806	22.3



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Left side	20	QPSK 50_50	132572/1770	1:1	0.393	0.223	-0.06	22.27	23.50	1.327	0.522	22.3
Top side	20	QPSK 50_50	132572/1770	1:1	0.689	0.383	0.10	22.27	23.50	1.327	0.915	22.3
Front side	20	QPSK 50_25	132072/1720	1:1	0.482	0.285	-0.11	22.12	23.50	1.374	0.662	22.3
Front side	20	QPSK 50_25	132322/1745	1:1	0.526	0.315	0.16	22.20	23.50	1.349	0.710	22.3
Back side	20	QPSK 50_25	132072/1720	1:1	0.451	0.257	-0.19	22.12	23.50	1.374	0.620	22.3
Back side	20	QPSK 50_25	132322/1745	1:1	0.601	0.343	0.13	22.20	23.50	1.349	0.811	22.3
Top side	20	QPSK 50_25	132072/1720	1:1	0.519	0.287	0.07	22.12	23.50	1.374	0.713	22.3
Top side	20	QPSK 50_25	132322/1745	1:1	0.582	0.324	-0.13	22.20	23.50	1.349	0.785	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI0												
Front side	20	QPSK 100_0	132572/1770	1:1	0.589	0.352	0.03	22.19	23.50	1.352	0.796	22.3
Back side	20	QPSK 100_0	132572/1770	1:1	0.615	0.357	0.16	22.19	23.50	1.352	0.832	22.3
Top side	20	QPSK 100_0	132572/1770	1:1	0.678	0.375	0.09	22.19	23.50	1.352	0.917	22.3
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI2												
Front side	20	QPSK 1_50	132572/1770	1:1	0.711	0.428	0.00	23.49	23.50	1.002	0.713	22.3
Back side	20	QPSK 1_50	132572/1770	1:1	0.712	0.418	0.05	23.49	23.50	1.002	0.714	22.3
Left side	20	QPSK 1_50	132572/1770	1:1	0.479	0.271	-0.15	23.49	23.50	1.002	0.480	22.3
Top side	20	QPSK 1_50	132572/1770	1:1	0.795	0.452	0.06	23.49	23.50	1.262	1.003	22.5
Front side	20	QPSK 1_50	132072/1720	1:1	0.574	0.342	-0.13	23.22	23.50	1.067	0.612	22.3
Front side	20	QPSK 1_99	132322/1745	1:1	0.663	0.395	0.04	23.45	23.50	1.012	0.671	22.3
Back side	20	QPSK 1_50	132072/1720	1:1	0.615	0.356	-0.13	23.22	23.50	1.067	0.656	22.3
Back side	20	QPSK 1_99	132322/1745	1:1	0.683	0.401	0.05	23.45	23.50	1.012	0.691	22.3
Top side	20	QPSK 1_50	132072/1720	1:1	0.620	0.349	0.17	23.22	23.50	1.067	0.661	22.3
Top side	20	QPSK 1_99	132322/1745	1:1	0.748	0.416	-0.18	23.45	23.50	1.012	0.757	22.3
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI2												
Front side	20	QPSK 50_50	132572/1770	1:1	0.553	0.367	-0.19	22.27	23.50	1.327	0.734	22.3
Back side	20	QPSK 50_50	132572/1770	1:1	0.579	0.361	-0.09	22.27	23.50	1.327	0.769	22.3
Left side	20	QPSK 50_50	132572/1770	1:1	0.393	0.223	-0.06	22.27	23.50	1.327	0.522	22.3
Top side	20	QPSK 50_50	132572/1770	1:1	0.689	0.383	0.10	22.27	23.50	1.327	0.915	22.3
Front side	20	QPSK 50_25	132072/1720	1:1	0.482	0.285	-0.11	22.12	23.50	1.374	0.662	22.3
Front side	20	QPSK 50_25	132322/1745	1:1	0.526	0.315	0.16	22.20	23.50	1.349	0.710	22.3
Back side	20	QPSK 50_25	132072/1720	1:1	0.451	0.257	-0.19	22.12	23.50	1.374	0.620	22.3
Back side	20	QPSK 50_25	132322/1745	1:1	0.575	0.343	0.13	22.20	23.50	1.349	0.776	22.3
Top side	20	QPSK 50_25	132072/1720	1:1	0.519	0.287	0.07	22.12	23.50	1.374	0.713	22.3
Top side	20	QPSK 50_25	132322/1745	1:1	0.582	0.324	-0.13	22.20	23.50	1.349	0.785	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI2												
Front side	20	QPSK 100_0	132572/1770	1:1	0.555	0.352	0.03	22.19	23.50	1.352	0.750	22.3
Back side	20	QPSK 100_0	132572/1770	1:1	0.578	0.357	0.16	22.19	23.50	1.352	0.781	22.3
Top side	20	QPSK 100_0	132572/1770	1:1	0.678	0.375	0.09	22.19	23.50	1.352	0.917	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)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												



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Left cheek	20	QPSK 1_0	132322/1745	1:1	0.229	0.140	0.18	24.32	25.00	1.169	0.268	22.3
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.069	0.047	-0.19	24.32	25.00	1.169	0.081	22.3
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.135	0.091	0.14	24.32	25.00	1.169	0.158	22.3
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.091	0.057	0.05	24.32	25.00	1.169	0.106	22.3
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_0	132072/1720	1:1	0.236	0.147	-0.16	23.51	24.00	1.119	0.264	22.3
Left tilted	20	QPSK 50_0	132072/1720	1:1	0.068	0.046	-0.09	23.51	24.00	1.119	0.076	22.3
Right cheek	20	QPSK 50_0	132072/1720	1:1	0.156	0.103	-0.13	23.51	24.00	1.119	0.175	22.3
Right tilted	20	QPSK 50_0	132072/1720	1:1	0.081	0.051	0.09	23.51	24.00	1.119	0.091	22.3
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_0	132322/1745	1:1	0.533	0.322	0.06	24.32	25.00	1.169	0.623	22.4
Back side	20	QPSK 1_0	132322/1745	1:1	0.670	0.402	0.09	24.32	25.00	1.169	0.784	22.4
Left side	20	QPSK 1_0	132322/1745	1:1	0.618	0.340	0.15	24.32	25.00	1.169	0.723	22.4
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.265	0.150	0.00	24.32	25.00	1.169	0.310	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_0	132072/1720	1:1	0.365	0.222	0.07	23.51	24.00	1.119	0.409	22.4
Back side	20	QPSK 50_0	132072/1720	1:1	0.462	0.272	-0.09	23.51	24.00	1.119	0.517	22.4
Left side	20	QPSK 50_0	132072/1720	1:1	0.378	0.213	-0.07	23.51	24.00	1.119	0.423	22.4
Bottom side	20	QPSK 50_0	132072/1720	1:1	0.180	0.103	-0.19	23.51	24.00	1.119	0.201	22.4

Table 28 : SAR of LTE Band 66 for Head, Body and Hotspot.



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9.2.19 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)	Scale factor	Scale SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_50	133222/673	1:1	0.626	0.361	0.18	23.19	23.50	1.074	0.672	22.4
Left tilted	20	QPSK 1_50	133222/673	1:1	0.543	0.305	-0.03	23.19	23.50	1.074	0.583	22.4
Right cheek	20	QPSK 1_50	133222/673	1:1	0.494	0.326	0.14	23.19	23.50	1.074	0.531	22.4
Right tilted	20	QPSK 1_50	133222/673	1:1	0.365	0.231	-0.03	23.19	23.50	1.074	0.392	22.4
Right cheek	20	QPSK 1_0	133322/683	1:1	0.627	0.362	-0.08	23.09	23.50	1.099	0.689	22.4
Right cheek	20	QPSK 1_0	133372/688	1:1	0.627	0.361	0.00	23.13	23.50	1.089	0.683	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_0	133322/683	1:1	0.615	0.368	0.06	23.12	23.50	1.091	0.671	22.4
Left tilted	20	QPSK 50_0	133322/683	1:1	0.539	0.305	0.17	23.12	23.50	1.091	0.588	22.4
Right cheek	20	QPSK 50_0	133322/683	1:1	0.499	0.328	0.10	23.12	23.50	1.091	0.545	22.4
Right tilted	20	QPSK 50_0	133322/683	1:1	0.361	0.227	-0.17	23.12	23.50	1.091	0.394	22.4
Right cheek	20	QPSK 50_50	133222/673	1:1	0.654	0.384	0.05	23.11	23.50	1.094	0.715	22.4
Right cheek	20	QPSK 50_25	133372/688	1:1	0.623	0.361	-0.07	23.03	23.50	1.114	0.694	22.4
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_50	133222/673	1:1	0.626	0.361	0.18	23.19	23.00	0.957	0.599	22.4
Left tilted	20	QPSK 1_50	133222/673	1:1	0.543	0.305	-0.03	23.19	23.00	0.957	0.520	22.4
Right cheek	20	QPSK 1_50	133222/673	1:1	0.494	0.326	0.14	23.19	23.00	0.957	0.473	22.4
Right tilted	20	QPSK 1_50	133222/673	1:1	0.365	0.231	-0.03	23.19	23.00	0.957	0.349	22.4
Right cheek	20	QPSK 1_0	133322/683	1:1	0.627	0.362	-0.08	23.09	23.00	0.979	0.614	22.4
Right cheek	20	QPSK 1_0	133372/688	1:1	0.627	0.361	0.00	23.13	23.00	0.971	0.609	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_0	133322/683	1:1	0.615	0.368	0.06	23.12	23.00	0.973	0.598	22.4
Left tilted	20	QPSK 50_0	133322/683	1:1	0.539	0.305	0.17	23.12	23.00	0.973	0.524	22.4
Right cheek	20	QPSK 50_0	133322/683	1:1	0.499	0.328	0.10	23.12	23.00	0.973	0.485	22.4
Right tilted	20	QPSK 50_0	133322/683	1:1	0.361	0.227	-0.17	23.12	23.00	0.973	0.351	22.4
Right cheek	20	QPSK 50_50	133222/673	1:1	0.654	0.384	0.05	23.11	23.00	0.975	0.638	22.4
Right cheek	20	QPSK 50_25	133372/688	1:1	0.623	0.361	-0.07	23.03	23.00	0.993	0.619	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_50	133372/688	1:1	0.191	0.132	-0.17	24.60	25.00	1.096	0.209	22
Back side	20	QPSK 1_50	133372/688	1:1	0.207	0.142	0.12	24.60	25.00	1.096	0.227	22
Left side	20	QPSK 1_50	133372/688	1:1	0.071	0.047	0.09	24.60	25.00	1.096	0.078	22
Right side	20	QPSK 1_50	133372/688	1:1	0.137	0.093	-0.13	24.60	25.00	1.096	0.150	22
Top side	20	QPSK 1_50	133372/688	1:1	0.126	0.064	0.04	24.60	25.00	1.096	0.138	22



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Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_25	133222/673	1:1	0.198	0.137	0.11	23.42	24.00	1.143	0.226	22
Back side	20	QPSK 50_25	133222/673	1:1	0.207	0.147	0.08	23.42	24.00	1.143	0.237	22
Left side	20	QPSK 50_25	133222/673	1:1	0.079	0.054	0.17	23.42	24.00	1.143	0.090	22
Right side	20	QPSK 50_25	133222/673	1:1	0.126	0.085	-0.02	23.42	24.00	1.143	0.144	22
Top side	20	QPSK 50_25	133222/673	1:1	0.129	0.065	0.06	23.42	24.00	1.143	0.147	22

Table 29 : SAR of LTE Band 71 for Head, Body and Hotspot.



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9.2.20 SAR Result of NR Band n7

SA N7 SAR Test Record												
Ant2 Test Record												
Test position	B W.	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)	Scale factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_104	507000/2535	100%	0.172	0.084	-0.17	16.35	17.50	1.303	0.224	22.4
Left tilted	20	QPSK 1_104	507000/2535	100%	0.105	0.053	0.17	16.35	17.50	1.303	0.137	22.4
Right cheek	20	QPSK 1_104	507000/2535	100%	0.652	0.261	0.08	16.35	17.50	1.303	0.850	22.4
Right tilted	20	QPSK 1_104	507000/2535	100%	0.312	0.152	0.16	16.35	17.50	1.303	0.407	22.4
Right cheek	20	QPSK 1_104	502000/2510	100%	0.554	0.228	-0.01	16.24	17.50	1.337	0.740	22.4
Right cheek	20	QPSK 1_104	512000/2560	100%	0.606	0.250	-0.16	16.32	17.50	1.312	0.795	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_28	507000/2535	100%	0.154	0.076	0.10	16.41	17.50	1.285	0.198	22.4
Left tilted	20	QPSK 50_28	507000/2535	100%	0.104	0.053	0.02	16.41	17.50	1.285	0.134	22.4
Right cheek	20	QPSK 50_28	507000/2535	100%	0.567	0.235	0.17	16.41	17.50	1.285	0.729	22.4
Right tilted	20	QPSK 50_28	507000/2535	100%	0.288	0.142	-0.05	16.41	17.50	1.285	0.370	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100_0	512000/2560	100%	0.494	0.200	0.10	15.45	16.50	1.274	0.629	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	20	QPSK 1_104	507000/2535	100%	0.379	0.173	-0.10	20.85	21.50	1.161	0.440	22.1
Back side	20	QPSK 1_104	507000/2535	100%	0.354	0.170	-0.06	20.85	21.50	1.161	0.411	22.1
Left side	20	QPSK 1_104	507000/2535	100%	0.466	0.213	-0.03	20.85	21.50	1.161	0.541	22.1
Top side	20	QPSK 1_104	507000/2535	100%	0.076	0.038	0.14	20.85	21.50	1.161	0.088	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	20	QPSK 50_28	502000/2510	100%	0.267	0.127	0.03	20.95	21.50	1.135	0.303	22.1
Back side	20	QPSK 50_28	502000/2510	100%	0.273	0.128	0.15	20.95	21.50	1.135	0.310	22.1
Left side	20	QPSK 50_28	502000/2510	100%	0.447	0.191	0.02	20.95	21.50	1.135	0.507	22.1
Top side	20	QPSK 50_28	502000/2510	100%	0.090	0.046	0.01	20.95	21.50	1.135	0.102	22.1
Body worn&Hotspot Test data Sensor off DSI0												



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Front side with 15mm	20	QPSK 1_1	512000/2560	100%	0.438	0.203	0.16	24.35	25.00	1.161	0.509	22.1
Back side with 15mm	20	QPSK 1_1	512000/2560	100%	0.491	0.249	-0.08	24.35	25.00	1.161	0.570	22.1
Left side with 19mm	20	QPSK 1_1	512000/2560	100%	0.545	0.289	-0.17	24.35	25.00	1.161	0.633	22.1
Top side with 10mm	20	QPSK 1_1	512000/2560	100%	0.154	0.083	0.16	24.35	25.00	1.161	0.179	22.1
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	20	QPSK 50_28	507000/2535	100%	0.375	0.192	0.16	24.42	25.00	1.143	0.429	22.1
Back side with 15mm	20	QPSK 50_28	507000/2535	100%	0.473	0.231	0.06	24.42	25.00	1.143	0.541	22.1
Left side with 19mm	20	QPSK 50_28	507000/2535	100%	0.516	0.267	-0.15	24.42	25.00	1.143	0.590	22.1
Top side with 10mm	20	QPSK 50_28	507000/2535	100%	0.148	0.078	-0.17	24.42	25.00	1.143	0.169	22.1
Test position	B W.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducte d power(dB m)	Tune up Limit(dB m)	Scale d facto r	Scaled 10-g SAR(W/k g)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI1												
Left side	20	QPSK 1_104	507000/2535	100%	4.127	1.409	-0.04	20.85	21.50	1.161	1.636	22.1
Left side	20	QPSK 1_1	502000/2510	100%	3.388	1.170	-0.19	20.78	21.50	1.180	1.381	22.1
Left side	20	QPSK 1_1	512000/2560	100%	4.320	1.460	0.10	20.82	21.50	1.169	1.707	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI1												
Left side	20	QPSK 50_28	502000/2510	100%	4.430	1.380	0.01	20.95	21.50	1.135	1.566	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI1												
Left side	20	QPSK 100_0	502000/2510	100%	3.660	1.260	0.05	19.95	20.50	1.135	1.430	22.1
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 1_1	512000/2560	100%	0.615	0.318	0.19	24.35	25.00	1.161	0.369	22.1
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	20	QPSK 50_28	507000/2535	100%	0.516	0.267	-0.14	24.42	25.00	1.143	0.305	22.1
Ant 5 Test Record												
Test position	B W.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducte d Power(dB m)	Tune up Limit(dB m)	Scale d facto r	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_1	502000/2510	100%	0.177	0.092	0.07	24.05	25.00	1.245	0.220	22.2
Left tilted	20	QPSK 1_1	502000/2510	100%	0.065	0.035	0.19	24.05	25.00	1.245	0.081	22.2
Right cheek	20	QPSK 1_1	502000/2510	100%	0.089	0.051	0.01	24.05	25.00	1.245	0.111	22.2



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Right tilted	20	QPSK 1_1	502000/2510	100%	0.092	0.046	0.06	24.05	25.00	1.245	0.114	22.2
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_28	502000/2510	100%	0.174	0.090	-0.16	23.86	25.00	1.300	0.226	22.2
Left tilted	20	QPSK 50_28	502000/2510	100%	0.057	0.031	0.18	23.86	25.00	1.300	0.074	22.2
Right cheek	20	QPSK 50_28	502000/2510	100%	0.081	0.046	-0.12	23.86	25.00	1.300	0.105	22.2
Right tilted	20	QPSK 50_28	502000/2510	100%	0.097	0.048	0.18	23.86	25.00	1.300	0.126	22.2
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_1	502000/2510	100%	0.212	0.114	0.15	24.05	25.00	1.245	0.264	22.1
Back side	20	QPSK 1_1	502000/2510	100%	0.309	0.144	-0.10	24.05	25.00	1.245	0.385	22.1
Left side	20	QPSK 1_1	502000/2510	100%	0.409	0.197	-0.19	24.05	25.00	1.245	0.509	22.1
Bottom side	20	QPSK 1_1	502000/2510	100%	0.106	0.053	-0.14	24.05	25.00	1.245	0.132	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_28	502000/2510	100%	0.216	0.111	0.05	23.86	25.00	1.300	0.281	22.1
Back side	20	QPSK 50_28	502000/2510	100%	0.310	0.142	0.16	23.86	25.00	1.300	0.403	22.1
Left side	20	QPSK 50_28	502000/2510	100%	0.384	0.182	0.19	23.86	25.00	1.300	0.499	22.1
Bottom side	20	QPSK 50_28	502000/2510	100%	0.119	0.060	-0.05	23.86	25.00	1.300	0.155	22.1

Table 30 : SAR of NR Band n7 for Head, Body,Hotspot and Limbs.



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9.2.21 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)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_1	158600/793	100%	0.716	0.397	-0.02	21.72	22.50	1.197	0.857	22.4
Left tilted	10	QPSK 1_1	158600/793	100%	0.584	0.339	0.09	21.72	22.50	1.197	0.699	22.4
Right cheek	10	QPSK 1_1	158600/793	100%	0.695	0.451	0.00	21.72	22.50	1.197	0.832	22.4
Right tilted	10	QPSK 1_1	158600/793	100%	0.490	0.294	-0.03	21.72	22.50	1.197	0.586	22.4
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_14	158600/793	100%	0.668	0.391	0.03	21.48	22.50	1.265	0.845	22.4
Left tilted	10	QPSK 25_14	158600/793	100%	0.552	0.319	-0.18	21.48	22.50	1.265	0.698	22.4
Right cheek	10	QPSK 25_14	158600/793	100%	0.604	0.392	0.03	21.48	22.50	1.265	0.764	22.4
Right tilted	10	QPSK 25_14	158600/793	100%	0.480	0.286	0.04	21.48	22.50	1.265	0.607	22.4
Head Test Data (100%RB) DSI4												
Left cheek	10	QPSK 50_0	158600/793	100%	0.564	0.332	0.06	20.60	21.50	1.230	0.694	22.4
Right cheek	10	QPSK 50_0	158600/793	100%	0.511	0.331	0.16	20.60	21.50	1.230	0.629	22.4
Head Test Data (1RB) DSI5												
Left cheek	10	QPSK 1_1	158600/793	100%	0.716	0.397	-0.02	21.72	21.50	0.951	0.681	22.4
Left tilted	10	QPSK 1_1	158600/793	100%	0.584	0.339	0.09	21.72	21.50	0.951	0.555	22.4
Right cheek	10	QPSK 1_1	158600/793	100%	0.695	0.451	0.00	21.72	21.50	0.951	0.661	22.4
Right tilted	10	QPSK 1_1	158600/793	100%	0.490	0.294	-0.03	21.72	21.50	0.951	0.466	22.4
Head Test Data (50%RB) DSI5												
Left cheek	10	QPSK 25_14	158600/793	100%	0.668	0.391	0.03	21.48	21.50	1.005	0.671	22.4
Left tilted	10	QPSK 25_14	158600/793	100%	0.552	0.319	-0.18	21.48	21.50	1.005	0.555	22.4
Right cheek	10	QPSK 25_14	158600/793	100%	0.604	0.392	0.03	21.48	21.50	1.005	0.607	22.4
Right tilted	10	QPSK 25_14	158600/793	100%	0.480	0.286	0.04	21.48	21.50	1.005	0.482	22.4
Head Test Data (100%RB) DSI5												
Left cheek	10	QPSK 50_0	158600/793	100%	0.564	0.332	0.06	20.60	20.50	0.977	0.551	22.4
Right cheek	10	QPSK 50_0	158600/793	100%	0.511	0.331	0.16	20.60	20.50	0.977	0.499	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	10	QPSK 1_1	158600/793	100%	0.433	0.273	-0.06	24.12	25.00	1.225	0.530	22.1
Back side	10	QPSK 1_1	158600/793	100%	0.420	0.281	-0.01	24.12	25.00	1.225	0.514	22.1
Left side	10	QPSK 1_1	158600/793	100%	0.115	0.078	0.18	24.12	25.00	1.225	0.141	22.1
Right side	10	QPSK 1_1	158600/793	100%	0.264	0.174	-0.10	24.12	25.00	1.225	0.323	22.1
Top side	10	QPSK 1_1	158600/793	100%	0.310	0.163	-0.10	24.12	25.00	1.225	0.380	22.1



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Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	10	QPSK 25_14	158600/793	100%	0.411	0.286	-0.15	23.94	25.00	1.276	0.525	22.1
Back side	10	QPSK 25_14	158600/793	100%	0.402	0.267	0.16	23.94	25.00	1.276	0.513	22.1
Left side	10	QPSK 25_14	158600/793	100%	0.102	0.068	0.04	23.94	25.00	1.276	0.130	22.1
Right side	10	QPSK 25_14	158600/793	100%	0.260	0.176	-0.09	23.94	25.00	1.276	0.332	22.1
Top side	10	QPSK 25_14	158600/793	100%	0.318	0.164	-0.08	23.94	25.00	1.276	0.406	22.1

Table 31 : SAR of NR Band n14 for Head, Body and Hotspot.



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9.2.22 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)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	30	QPSK 1_1	373000/1865	100%	0.416	0.273	0.10	17.31	17.50	1.045	0.435	22.4
Left tilted	30	QPSK 1_1	373000/1865	100%	0.450	0.270	-0.13	17.31	17.50	1.045	0.470	22.4
Right cheek	30	QPSK 1_1	373000/1865	100%	0.702	0.406	-0.15	17.31	17.50	1.045	0.733	22.4
Right tilted	30	QPSK 1_1	373000/1865	100%	0.497	0.289	-0.15	17.31	17.50	1.045	0.519	22.4
Head Test Data (50%RB) DSI4												
Left cheek	30	QPSK 80_40	373000/1865	100%	0.389	0.255	-0.02	17.01	17.50	1.119	0.435	22.4
Left tilted	30	QPSK 80_40	373000/1865	100%	0.442	0.261	0.04	17.01	17.50	1.119	0.495	22.4
Right cheek	30	QPSK 80_40	373000/1865	100%	0.708	0.386	0.15	17.01	17.50	1.119	0.793	22.5
Right tilted	30	QPSK 80_40	373000/1865	100%	0.477	0.278	0.15	17.01	17.50	1.119	0.534	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI0												
Front side	30	QPSK 1_1	373000/1865	100%	0.514	0.322	0.09	22.23	22.50	1.064	0.547	22.1
Back side	30	QPSK 1_1	373000/1865	100%	0.486	0.296	0.19	22.23	22.50	1.064	0.517	22.1
Left side	30	QPSK 1_1	373000/1865	100%	0.299	0.166	-0.17	22.23	22.50	1.064	0.318	22.1
Top side	30	QPSK 1_1	373000/1865	100%	0.706	0.392	0.05	22.23	22.50	1.064	0.751	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI0												
Front side	30	QPSK 80_40	373000/1865	100%	0.508	0.320	0.08	21.93	22.50	1.140	0.579	22.1
Back side	30	QPSK 80_40	373000/1865	100%	0.434	0.267	0.07	21.93	22.50	1.140	0.495	22.1
Left side	30	QPSK 80_40	373000/1865	100%	0.329	0.180	-0.10	21.93	22.50	1.140	0.375	22.1
Top side	30	QPSK 80_40	373000/1865	100%	0.747	0.424	-0.01	21.93	22.50	1.140	0.852	22.5

Table 32 : SAR of NR Band n25 for Head, Body and Hotspot.

9.2.23 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)	Scale factor	Scale SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1 104	166300/831.5	100%	0.522	0.313	-0.18	20.23	21.00	1.194	0.623	22.4
Left tilted	20	QPSK 1 104	166300/831.5	100%	0.484	0.277	-0.04	20.23	21.00	1.194	0.578	22.4
Right cheek	20	QPSK 1 104	166300/831.5	100%	0.588	0.374	0.16	20.23	21.00	1.194	0.702	22.4
Right tilted	20	QPSK 1 104	166300/831.5	100%	0.455	0.270	-0.16	20.23	21.00	1.194	0.543	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50 28	167800/839	100%	0.536	0.330	-0.19	20.09	21.00	1.233	0.661	22.4
Left tilted	20	QPSK 50 28	167800/839	100%	0.490	0.281	0.18	20.09	21.00	1.233	0.604	22.4
Right cheek	20	QPSK 50 28	167800/839	100%	0.765	0.430	-0.04	20.09	21.00	1.233	0.943	22.4
Right tilted	20	QPSK 50 28	167800/839	100%	0.443	0.265	0.17	20.09	21.00	1.233	0.546	22.4
Right cheek	20	QPSK 50 28	164800/824	100%	0.757	0.432	-0.01	19.87	21.00	1.297	0.982	22.4
Right cheek	20	QPSK 50 28	166300/831.5	100%	0.727	0.413	-0.01	19.94	21.00	1.276	0.928	22.4
Head Test Data (100%RB) DSI4												
Right cheek	20	QPSK 100 0	167800/839	1:1	0.602	0.382	-0.02	19.10	20.00	1.230	0.741	22.4
Head Test Data (1RB) DSI5												
Left cheek	20	QPSK 1 104	166300/831.5	100%	0.522	0.313	-0.18	20.23	20.00	0.948	0.495	22.4
Left tilted	20	QPSK 1 104	166300/831.5	100%	0.484	0.277	-0.04	20.23	20.00	0.948	0.459	22.4
Right cheek	20	QPSK 1 104	166300/831.5	100%	0.588	0.374	0.16	20.23	20.00	0.948	0.558	22.4
Right tilted	20	QPSK 1 104	166300/831.5	100%	0.455	0.270	-0.16	20.23	20.00	0.948	0.432	22.4
Head Test Data (50%RB) DSI5												
Left cheek	20	QPSK 50 28	167800/839	100%	0.536	0.330	-0.19	20.09	20.00	0.979	0.525	22.4
Left tilted	20	QPSK 50 28	167800/839	100%	0.490	0.281	0.18	20.09	20.00	0.979	0.480	22.4
Right cheek	20	QPSK 50 28	167800/839	100%	0.765	0.430	-0.04	20.09	20.00	0.979	0.749	22.4
Right tilted	20	QPSK 50 28	167800/839	100%	0.443	0.265	0.17	20.09	20.00	0.979	0.434	22.4
Right cheek	20	QPSK 50 28	164800/824	100%	0.757	0.432	-0.01	19.87	20.00	1.030	0.780	22.4



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Right cheek	20	QPSK 50_28	166300/831.5	100%	0.727	0.413	-0.01	19.94	20.00	1.014	0.737	22.4
Head Test Data (100%RB) DSI5												
Right cheek	20	QPSK 100_0	167800/839	1:1	0.602	0.382	-0.02	19.10	19.00	0.977	0.588	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_104	166300/831.5	100%	0.727	0.446	0.01	24.14	25.00	1.219	0.886	22.1
Back side	20	QPSK 1_104	166300/831.5	100%	0.585	0.357	-0.19	24.14	25.00	1.219	0.713	22.1
Left side	20	QPSK 1_104	166300/831.5	100%	0.099	0.066	0.05	24.14	25.00	1.219	0.121	22.1
Right side	20	QPSK 1_104	166300/831.5	100%	0.209	0.139	-0.15	24.14	25.00	1.219	0.255	22.1
Top side	20	QPSK 1_104	166300/831.5	100%	0.446	0.222	-0.11	24.14	25.00	1.219	0.544	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_28	167800/839	100%	0.630	0.395	-0.01	24.05	25.00	1.245	0.784	22.1
Back side	20	QPSK 50_28	167800/839	100%	0.558	0.344	-0.07	24.05	25.00	1.245	0.694	22.1
Left side	20	QPSK 50_28	167800/839	100%	0.103	0.061	0.12	24.05	25.00	1.245	0.128	22.1
Right side	20	QPSK 50_28	167800/839	100%	0.207	0.138	-0.16	24.05	25.00	1.245	0.258	22.1
Top side	20	QPSK 50_28	167800/839	100%	0.431	0.215	-0.04	24.05	25.00	1.245	0.536	22.1

Table 33 : SAR of NR Band n26 for Head, Body and Hotspot.



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9.2.24 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)	Scale factor	Scale SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	10	QPSK 1_26	462000/2310	100 %	0.243	0.144	-0.04	20.99	22.00	1.262	0.307	22.4
Left tilted	10	QPSK 1_26	462000/2310	100 %	0.280	0.150	-0.09	20.99	22.00	1.262	0.353	22.4
Right cheek	10	QPSK 1_26	462000/2310	100 %	0.898	0.423	-0.02	20.99	22.00	1.262	1.133	22.4
Right tilted	10	QPSK 1_26	462000/2310	100 %	0.541	0.289	0.07	20.99	22.00	1.262	0.683	22.4
Right cheek-repeat	10	QPSK 1_26	462000/2310	100 %	0.878	0.424	0.18	20.99	22.00	1.262	1.108	22.4
Head Test Data (50%RB) DSI4												
Left cheek	10	QPSK 25_14	462000/2310	100 %	0.242	0.144	-0.02	20.92	22.00	1.282	0.310	22.4
Left tilted	10	QPSK 25_14	462000/2310	100 %	0.274	0.147	0.13	20.92	22.00	1.282	0.351	22.4
Right cheek	10	QPSK 25_14	462000/2310	100 %	0.864	0.460	0.00	20.92	22.00	1.282	1.108	22.4
Right tilted	10	QPSK 25_14	462000/2310	100 %	0.505	0.269	0.00	20.92	22.00	1.282	0.648	22.4
Head Test Data (100%RB) DSI4												
Right cheek	10	QPSK 50_0	462000/2310	100 %	0.669	0.327	0.10	19.81	21.00	1.315	0.880	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	10	QPSK 1_50	462000/2310	100 %	0.305	0.167	0.10	23.89	24.00	1.026	0.313	22.1
Back side	10	QPSK 1_50	462000/2310	100 %	0.332	0.169	-0.12	23.89	24.00	1.026	0.341	22.1
Left side	10	QPSK 1_50	462000/2310	100 %	0.340	0.158	-0.05	23.89	24.00	1.026	0.349	22.1
Top side	10	QPSK 1_50	462000/2310	100 %	0.198	0.103	-0.18	23.89	24.00	1.026	0.203	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	10	QPSK 25_14	462000/2310	100 %	0.262	0.133	-0.06	23.67	24.00	1.079	0.283	22.1
Back side	10	QPSK 25_14	462000/2310	100 %	0.275	0.139	-0.07	23.67	24.00	1.079	0.297	22.1
Left side	10	QPSK 25_14	462000/2310	100 %	0.291	0.134	-0.17	23.67	24.00	1.079	0.314	22.1
Top side	10	QPSK 25_14	462000/2310	100 %	0.183	0.096	0.18	23.67	24.00	1.079	0.197	22.1

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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Right cheek	462000/2310	0.898	0.878	1.02

Table 34 : SAR of NR Band n30 for Head, Body and Hotspot.



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9.2.25 SAR Result of NR Band n41

SA N41 SAR Test Record												
Ant2 Test Record												
Test position	B W.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	100	QPSK 1 271	528000/2640	100%	0.102	0.048	0.19	16.87	17.50	1.156	0.118	22.4
Left tilted	100	QPSK 1 271	528000/2640	100%	0.064	0.031	0.09	16.87	17.50	1.156	0.074	22.4
Right cheek	100	QPSK 1 271	528000/2640	100%	0.537	0.207	-0.08	16.87	17.50	1.156	0.621	22.4
Right tilted	100	QPSK 1 271	528000/2640	100%	0.206	0.095	-0.01	16.87	17.50	1.156	0.238	22.4
Head Test Data (50%RB) DSI4												
Left cheek	100	QPSK 135 69	518598/2592.99	100%	0.127	0.061	-0.12	16.73	17.50	1.194	0.152	22.4
Left tilted	100	QPSK 135 69	518598/2592.99	100%	0.084	0.042	0.05	16.73	17.50	1.194	0.100	22.4
Right cheek	100	QPSK 135 69	518598/2592.99	100%	0.615	0.244	0.00	16.73	17.50	1.194	0.734	22.4
Right tilted	100	QPSK 135 69	518598/2592.99	100%	0.235	0.113	0.03	16.73	17.50	1.194	0.281	22.4
Right cheek	100	QPSK 135 69	509202/2546.01	100%	0.453	0.185	0.02	15.83	17.50	1.469	0.665	22.4
Right cheek	100	QPSK 135 69	513900/2569.5	100%	0.574	0.230	-0.16	16.68	17.50	1.208	0.693	22.4
Right cheek	100	QPSK 135 69	523302/2616.51	100%	0.638	0.250	0.17	16.66	17.50	1.213	0.774	22.4
Right cheek	100	QPSK 135 69	528000/2640	100%	0.635	0.250	-0.09	16.55	17.50	1.245	0.790	22.4
Head Test Data (50%RB) DSI4												
Right cheek	100	QPSK 270 0	523302/2616.51	100%	0.520	0.204	-0.01	15.74	16.50	1.191	0.619	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) Sensor on DSI1												
Front side	100	QPSK 1 271	528000/2640	100%	0.282	0.128	-0.13	20.91	21.50	1.146	0.323	22.1
Back side	100	QPSK 1 271	528000/2640	100%	0.386	0.184	0.00	20.91	21.50	1.146	0.442	22.1
Left side	100	QPSK 1 271	528000/2640	100%	0.605	0.265	-0.08	20.91	21.50	1.146	0.693	22.1
Top side	100	QPSK 1 271	528000/2640	100%	0.054	0.029	-0.01	20.91	21.50	1.146	0.062	22.1
Left side	100	QPSK 1 271	509202/2546.01	100%	0.576	0.261	-0.07	19.81	21.50	1.476	0.850	22.1
Left side	100	QPSK 1 271	513900/2569.5	100%	0.658	0.288	0.10	20.77	21.50	1.183	0.778	22.1
Left side	100	QPSK 1 137	518598/2592.99	100%	0.614	0.260	-0.02	20.80	21.50	1.175	0.721	22.1



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Left side	10 0	QPSK 1 137	523302/2616 .51	100 %	0.680	0.297	0.04	20.80	21.50	1.175	0.799	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) Sensor on DSI1												
Front side	10 0	QPSK 135 69	523302/2616 .51	100 %	0.382	0.177	0.05	20.77	21.50	1.183	0.452	22.1
Back side	10 0	QPSK 135 69	523302/2616 .51	100 %	0.398	0.203	0.01	20.77	21.50	1.183	0.510	22.1
Left side	10 0	QPSK 135 69	523302/2616 .51	100 %	0.581	0.260	-0.07	20.77	21.50	1.183	0.687	22.1
Top side	10 0	QPSK 135 69	523302/2616 .51	100 %	0.064	0.026	-0.12	20.77	21.50	1.183	0.076	22.1
Left side	10 0	QPSK 135 69	509202/2546 .01	100 %	0.519	0.221	-0.08	19.88	21.50	1.452	0.754	22.1
Left side	10 0	QPSK 135 69	513900/2569 .5	100 %	0.500	0.212	-0.01	20.72	21.50	1.197	0.598	22.1
Left side	10 0	QPSK 135 69	518598/2592 .99	100 %	0.599	0.254	-0.12	20.71	21.50	1.199	0.719	22.1
Left side	10 0	QPSK 135 69	528000/2640	100 %	0.698	0.296	0.15	20.73	21.50	1.194	0.833	22.1
Body worn&Hotspot Test data (Separate 10mm 100%RB) Sensor on DSI1												
Left side	10 0	QPSK 270 0	513900/2569 .5	100 %	0.522	0.221	-0.16	19.73	20.50	1.194	0.623	22.1
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	10 0	QPSK 1 271	528000/2640	100 %	0.342	0.172	0.18	24.75	25.50	1.189	0.406	22.1
Back side with 15mm	10 0	QPSK 1 271	528000/2640	100 %	0.465	0.231	0.06	24.75	25.50	1.189	0.553	22.1
Left side with 19mm	10 0	QPSK 1 271	528000/2640	100 %	0.500	0.258	-0.17	24.75	25.50	1.189	0.594	22.1
Top side with 10mm	10 0	QPSK 1 271	528000/2640	100 %	0.152	0.080	0.02	24.75	25.50	1.189	0.181	22.1
Body worn&Hotspot Test data Sensor off DSI0												
Front side with 15mm	10 0	QPSK 135 69	528000/2640	100 %	0.431	0.215	0.14	24.78	25.50	1.180	0.509	22.1
Back side with 15mm	10 0	QPSK 135 69	528000/2640	100 %	0.541	0.268	-0.18	24.78	25.50	1.180	0.639	22.1
Left side with 19mm	10 0	QPSK 135 69	528000/2640	100 %	0.680	0.344	-0.07	24.78	25.50	1.180	0.803	22.1
Top side with 10mm	10 0	QPSK 135 69	528000/2640	100 %	0.155	0.084	-0.10	24.78	25.50	1.180	0.183	22.1
Back side with 15mm	10 0	QPSK 135 69	509202/2546 .01	100 %	0.396	0.198	0.15	23.78	25.50	1.486	0.588	22.1
Back side with 15mm	10 0	QPSK 135 69	513900/2569 .5	100 %	0.476	0.239	-0.12	24.71	25.50	1.199	0.571	22.1
Back side with 15mm	10 0	QPSK 135 69	518598/2592 .99	100 %	0.561	0.282	0.19	24.72	25.50	1.197	0.671	22.1
Back side with 15mm	10 0	QPSK 135 69	523302/2616 .51	100 %	0.592	0.296	-0.19	24.75	25.50	1.189	0.704	22.1
Left side with 19mm	10 0	QPSK 135 69	509202/2546 .01	100 %	0.558	0.284	-0.09	23.78	25.50	1.486	0.829	22.1
Left side with 19mm	10 0	QPSK 135 69	513900/2569 .5	100 %	0.679	0.345	-0.10	24.71	25.50	1.199	0.814	22.1
Left side with 19mm	10 0	QPSK 135 69	518598/2592 .99	100 %	0.762	0.386	0.05	24.72	25.50	1.197	0.912	22.1



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Left side with 19mm	100	QPSK 135_69	523302/2616 .51	100 %	0.797	0.416	0.13	24.75	25.50	1.189	0.947	22.1
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	100	QPSK 270_0	518598/2592 .99	100 %	0.564	0.286	0.01	23.63	24.50	1.222	0.689	22.1
Test position	B W.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g		Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI1												
Left side	100	QPSK 1_271	528000/2640	100 %	4.560	1.400	-0.05	20.91	21.50	1.146	1.604	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI1												
Left side	100	QPSK 135_69	523302/2616 .51	100 %	4.290	1.450	-0.04	20.77	21.50	1.183	1.715	22.1
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	100	QPSK 1_271	528000/2640	100 %	0.500	0.258	0.07	24.75	25.50	1.189	0.307	22.1
Body worn&Hotspot Test data Sensor off DSI0												
Left side with 19mm	100	QPSK 135_69	528000/2640	100 %	0.680	0.344	-0.03	24.78	25.50	1.180	0.406	22.1

Table 35 : SAR of NR Band n41 for Head, Body and Hotspot.



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9.2.26 SAR Result of NR Band n48

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)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	40	QPSK 1_53	638000/3570	100 %	0.599	0.297	0.19	20.43	20.50	1.016	0.609	22.4
Left tilted	40	QPSK 1_53	638000/3570	100 %	0.197	0.094	0.09	20.43	20.50	1.016	0.200	22.4
Right cheek	40	QPSK 1_53	638000/3570	100 %	0.741	0.302	-0.04	20.43	20.50	1.016	0.753	22.4
Right tilted	40	QPSK 1_53	638000/3570	100 %	0.348	0.161	0.06	20.43	20.50	1.016	0.354	22.4
Head Test Data (50%RB) DSI4												
Left cheek	40	QPSK 50_28	638000/3570	100 %	0.595	0.295	0.01	20.23	20.50	1.064	0.633	22.4
Left tilted	40	QPSK 50_28	638000/3570	100 %	0.187	0.091	-0.08	20.23	20.50	1.064	0.199	22.4
Right cheek	40	QPSK 50_28	638000/3570	100 %	0.753	0.321	-0.18	20.23	20.50	1.064	0.801	22.4
Right tilted	40	QPSK 50_28	638000/3570	100 %	0.344	0.158	0.00	20.23	20.50	1.064	0.366	22.4
Right cheek	40	QPSK 50_28	641666/3624.9	100 %	0.642	0.288	-0.04	19.65	20.50	1.216	0.781	22.4
Right cheek	40	QPSK 50_28	645332/3679.9	100 %	0.742	0.320	0.01	20.15	20.50	1.084	0.804	22.4
Head Test Data (100%RB) DSI4												
Right cheek	40	QPSK 100_0	645332/3679.9	100 %	0.688	0.251	-0.05	19.40	19.50	1.023	0.704	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	40	QPSK 1_1	645332/3679.9	100 %	0.445	0.207	0.15	23.75	24.00	1.059	0.471	22.1
Back side	40	QPSK 1_1	645332/3679.9	100 %	0.529	0.239	-0.07	23.75	24.00	1.059	0.560	22.1
Left side	40	QPSK 1_1	645332/3679.9	100 %	0.633	0.292	0.07	23.75	24.00	1.059	0.671	22.1
Left side	40	QPSK 1_104	638000/3570	100 %	0.621	0.285	-0.07	23.75	24.00	1.059	0.658	22.1
Left side	40	QPSK 1_104	641666/3624.9	100 %	0.605	0.271	-0.05	23.53	24.00	1.114	0.674	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	40	QPSK 50_28	645332/3679.9	100 %	0.492	0.228	-0.12	23.59	24.00	1.099	0.541	22.1
Back side	40	QPSK 50_28	645332/3679.9	100 %	0.529	0.244	-0.12	23.59	24.00	1.099	0.581	22.1
Left side	40	QPSK 50_28	645332/3679.9	100 %	0.681	0.316	0.02	23.59	24.00	1.099	0.748	22.1
Back side	40	QPSK 50_28	638000/3570	100 %	0.475	0.215	-0.02	23.35	24.00	1.161	0.552	22.1



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Back side	40	QPSK 50 28	641666/3624.9 9	100 %	0.456	0.208	-0.14	23.30	24.00	1.175	0.536	22.1
Left side	40	QPSK 50 28	638000/3570	100 %	0.689	0.329	-0.04	23.35	24.00	1.161	0.800	22.1
Left side	40	QPSK 50 28	641666/3624.9 9	100 %	0.566	0.253	0.04	23.30	24.00	1.175	0.665	22.1

Table 36 : SAR of NR Band n48 for Head, Body and Hotspot.



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9.2.27 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(dB m)	Tune up Limit(dB m)	Scale factor	Scale SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	30	QPSK 1_158	353000/1765	100 %	0.404	0.265	-0.04	17.75	18.50	1.189	0.480	22.4
Left tilted	30	QPSK 1_158	353000/1765	100 %	0.379	0.233	-0.03	17.75	18.50	1.189	0.450	22.4
Right cheek	30	QPSK 1_158	353000/1765	100 %	0.800	0.460	0.19	17.75	18.50	1.189	0.951	22.4
Right tilted	30	QPSK 1_158	353000/1765	100 %	0.513	0.296	-0.10	17.75	18.50	1.189	0.610	22.4
Right cheek	30	QPSK 1_79	345000/1725	100 %	0.816	0.453	-0.04	17.45	18.50	1.274	1.039	22.5
Right cheek	30	QPSK 1_158	349000/1745	100 %	0.783	0.450	0.13	17.66	18.50	1.213	0.950	22.4
Right cheek-repeat	30	QPSK 1_79	345000/1725	100 %	0.808	0.466	-0.11	17.45	18.50	1.274	1.029	22.4
Head Test Data (50%RB) DSI4												
Left cheek	30	QPSK 80_40	353000/1765	100 %	0.407	0.266	-0.08	17.71	18.50	1.199	0.488	22.4
Left tilted	30	QPSK 80_40	353000/1765	100 %	0.369	0.229	-0.18	17.71	18.50	1.199	0.443	22.4
Right cheek	30	QPSK 80_40	353000/1765	100 %	0.809	0.465	-0.05	17.71	18.50	1.199	0.970	22.4
Right tilted	30	QPSK 80_40	353000/1765	100 %	0.526	0.305	-0.04	17.71	18.50	1.199	0.631	22.4
Right cheek	30	QPSK 80_40	345000/1725	100 %	0.812	0.468	-0.10	17.53	18.50	1.250	1.015	22.4
Right cheek	30	QPSK 80_40	349000/1745	100 %	0.800	0.460	-0.15	17.45	18.50	1.274	1.019	22.4
Head Test Data (100%RB) DSI4												
Right cheek	30	QPSK 160_0	353000/1765	100 %	0.651	0.374	0.19	16.85	17.50	1.161	0.756	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	30	QPSK 1_158	349000/1745	100 %	0.642	0.384	-0.06	22.65	23.50	1.216	0.781	22.1
Back side	30	QPSK 1_158	349000/1745	100 %	0.655	0.384	-0.15	22.65	23.50	1.216	0.797	22.1
Left side	30	QPSK 1_158	349000/1745	100 %	0.399	0.227	-0.11	22.65	23.50	1.216	0.485	22.1
Top side	30	QPSK 1_158	349000/1745	100 %	0.750	0.416	-0.06	22.65	23.50	1.216	0.912	22.1
Top side	30	QPSK 1_79	345000/1725	100 %	0.617	0.340	-0.02	22.49	23.50	1.262	0.779	22.1
Top side	30	QPSK 1_158	353000/1765	100 %	0.755	0.431	-0.04	22.59	23.50	1.233	0.931	22.5



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Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	30	QPSK 80 40	353000/1765	100 %	0.642	0.385	-0.15	22.68	23.50	1.208	0.775	22.1
Back side	30	QPSK 80 40	353000/1765	100 %	0.717	0.418	-0.14	22.68	23.50	1.208	0.866	22.1
Left side	30	QPSK 80 40	353000/1765	100 %	0.409	0.232	0.01	22.68	23.50	1.208	0.494	22.1
Top side	30	QPSK 80 40	353000/1765	100 %	0.757	0.420	-0.15	22.68	23.50	1.208	0.914	22.1
Back side	30	QPSK 80 40	345000/1725	100 %	0.633	0.363	0.16	22.45	23.50	1.274	0.806	22.1
Back side	30	QPSK 80 40	349000/1745	100 %	0.681	0.391	0.00	22.50	23.50	1.259	0.857	22.1
Top side	30	QPSK 80 40	345000/1725	100 %	0.632	0.350	-0.12	22.45	23.50	1.274	0.805	22.1
Top side	30	QPSK 80 40	349000/1745	100 %	0.708	0.390	-0.01	22.50	23.50	1.259	0.891	22.1
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI0												
Back side	30	QPSK 160 0	353000/1765	100 %	0.548	0.320	-0.04	21.72	22.50	1.197	0.656	22.1
Top side	30	QPSK 160 0	353000/1765	100 %	0.628	0.347	-0.02	21.72	22.50	1.197	0.752	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI2												
Front side	30	QPSK 1 158	349000/1745	100 %	0.642	0.384	-0.06	22.65	22.50	0.966	0.620	22.1
Back side	30	QPSK 1 158	349000/1745	100 %	0.655	0.384	-0.15	22.65	22.50	0.966	0.633	22.1
Left side	30	QPSK 1 158	349000/1745	100 %	0.399	0.227	-0.11	22.65	22.50	0.966	0.385	22.1
Top side	30	QPSK 1 158	349000/1745	100 %	0.750	0.416	-0.06	22.65	22.50	0.966	0.725	22.1
Top side	30	QPSK 1_79	345000/1725	100 %	0.617	0.340	-0.02	22.49	22.50	1.002	0.618	22.1
Top side	30	QPSK 1 158	353000/1765	100 %	0.755	0.431	-0.04	22.59	22.50	0.979	0.740	22.5
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI2												
Front side	30	QPSK 80 40	353000/1765	100 %	0.642	0.385	-0.15	22.68	22.50	0.959	0.616	22.1
Back side	30	QPSK 80 40	353000/1765	100 %	0.717	0.418	-0.14	22.68	22.50	0.959	0.688	22.1
Left side	30	QPSK 80 40	353000/1765	100 %	0.409	0.232	0.01	22.68	22.50	0.959	0.392	22.1
Top side	30	QPSK 80 40	353000/1765	100 %	0.757	0.420	-0.15	22.68	22.50	0.959	0.726	22.1
Back side	30	QPSK 80 40	345000/1725	100 %	0.633	0.363	0.16	22.45	22.50	1.012	0.640	22.1
Back side	30	QPSK 80 40	349000/1745	100 %	0.681	0.391	0.00	22.50	22.50	1.000	0.681	22.1
Top side	30	QPSK 80 40	345000/1725	100 %	0.632	0.350	-0.12	22.45	22.50	1.012	0.639	22.1
Top side	30	QPSK 80 40	349000/1745	100 %	0.708	0.390	-0.01	22.50	22.50	1.000	0.708	22.1
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI2												



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Back side	30	QPSK 160_0	353000/1765	100 %	0.548	0.320	-0.04	21.72	22.50	1.197	0.656	22.1
Top side	30	QPSK 160_0	353000/1765	100 %	0.628	0.347	-0.02	21.72	22.50	1.197	0.752	22.1

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Right cheek	345000/1725	0.816	0.808	1.01

Table 37 : SAR of NR Band n66 for Head, Body and Hotspot.



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9.2.28 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)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	15	QPSK 1_77	340500/1702.5	100%	0.395	0.246	0.02	23.96	24.00	1.009	0.399	22.5
Left tilted	15	QPSK 1_77	340500/1702.5	100%	0.114	0.078	0.01	23.96	24.00	1.009	0.115	22.3
Right cheek	15	QPSK 1_77	340500/1702.5	100%	0.274	0.181	0.08	23.96	24.00	1.009	0.277	22.3
Right tilted	15	QPSK 1_77	340500/1702.5	100%	0.140	0.090	-0.17	23.96	24.00	1.009	0.141	22.3
Head Test Data (50%RB) DSI4												
Left cheek	15	QPSK 36_22	340500/1702.5	100%	0.368	0.230	0.15	23.74	24.00	1.062	0.391	22.3
Left tilted	15	QPSK 36_22	340500/1702.5	100%	0.110	0.074	-0.06	23.74	24.00	1.062	0.117	22.3
Right cheek	15	QPSK 36_22	340500/1702.5	100%	0.255	0.168	-0.10	23.74	24.00	1.062	0.271	22.3
Right tilted	15	QPSK 36_22	340500/1702.5	100%	0.124	0.080	0.13	23.74	24.00	1.062	0.132	22.3
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	15	QPSK 1_77	340500/1702.5	100%	0.590	0.353	-0.02	23.96	24.00	1.009	0.595	22.1
Back side	15	QPSK 1_77	340500/1702.5	100%	0.711	0.420	-0.02	23.96	24.00	1.009	0.718	22.1
Left side	15	QPSK 1_77	340500/1702.5	100%	0.589	0.330	-0.01	23.96	24.00	1.009	0.594	22.1
Bottom side	15	QPSK 1_77	340500/1702.5	100%	0.326	0.184	0.10	23.96	24.00	1.009	0.329	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	15	QPSK 36_22	340500/1702.5	100%	0.628	0.371	0.08	23.74	24.00	1.062	0.667	22.1
Back side	15	QPSK 36_22	340500/1702.5	100%	0.702	0.432	-0.04	23.74	24.00	1.062	0.745	22.5
Left side	15	QPSK 36_22	340500/1702.5	100%	0.603	0.342	0.11	23.74	24.00	1.062	0.640	22.1
Bottom side	15	QPSK 36_22	340500/1702.5	100%	0.318	0.181	0.10	23.74	24.00	1.062	0.338	22.1

Table 38 : SAR of NR Band n70 for Head, Body and Hotspot.

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9.2.29 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)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI4												
Left cheek	20	QPSK 1_1	134600/673	100%	0.777	0.433	-0.11	23.26	23.50	1.057	0.821	22.4
Left tilted	20	QPSK 1_1	134600/673	100%	0.657	0.351	0.00	23.26	23.50	1.057	0.694	22.4
Right cheek	20	QPSK 1_1	134600/673	100%	0.574	0.374	0.15	23.26	23.50	1.057	0.607	22.4
Right tilted	20	QPSK 1_1	134600/673	100%	0.446	0.283	0.11	23.26	23.50	1.057	0.471	22.4
Left cheek	20	QPSK 1_1	136100/680.5	100%	0.763	0.424	0.09	23.08	23.50	1.102	0.840	22.4
Left cheek	20	QPSK 1_1	137600/688	100%	0.720	0.407	0.08	22.95	23.50	1.135	0.817	22.4
Head Test Data (50%RB) DSI4												
Left cheek	20	QPSK 50_28	134600/673	100%	0.755	0.423	0.07	23.08	23.50	1.102	0.832	22.4
Left tilted	20	QPSK 50_28	134600/673	100%	0.645	0.347	0.18	23.08	23.50	1.102	0.710	22.4
Right cheek	20	QPSK 50_28	134600/673	100%	0.624	0.407	0.03	23.08	23.50	1.102	0.687	22.4
Right tilted	20	QPSK 50_28	134600/673	100%	0.425	0.271	0.14	23.08	23.50	1.102	0.468	22.4
Left cheek	20	QPSK 50_28	136100/680.5	100%	0.686	0.386	0.08	22.85	23.50	1.161	0.797	22.4
Left cheek	20	QPSK 50_28	137600/688	100%	0.702	0.396	0.00	22.92	23.50	1.143	0.802	22.4
Head Test Data (100%RB) DSI4												
Left cheek	20	QPSK 100_0	134600/673	100%	0.594	0.334	0.10	22.10	22.50	1.096	0.651	22.4
Head Test Data (1RB) DSI5												
Left cheek	20	QPSK 1_1	134600/673	100%	0.777	0.433	-0.11	23.26	22.50	0.839	0.652	22.4
Left tilted	20	QPSK 1_1	134600/673	100%	0.657	0.351	0.00	23.26	22.50	0.839	0.552	22.4
Right cheek	20	QPSK 1_1	134600/673	100%	0.574	0.374	0.15	23.26	22.50	0.839	0.482	22.4
Right tilted	20	QPSK 1_1	134600/673	100%	0.446	0.283	0.11	23.26	22.50	0.839	0.374	22.4
Left cheek	20	QPSK 1_1	136100/680.5	100%	0.763	0.424	0.09	23.08	22.50	0.875	0.668	22.4
Left cheek	20	QPSK 1_1	137600/688	100%	0.720	0.407	0.08	22.95	22.50	0.902	0.649	22.4
Head Test Data (50%RB) DSI5												
Left cheek	20	QPSK 50_28	134600/673	100%	0.755	0.423	0.07	23.08	22.50	0.875	0.661	22.4
Left tilted	20	QPSK 50_28	134600/673	100%	0.645	0.347	0.18	23.08	22.50	0.875	0.564	22.4
Right cheek	20	QPSK 50_28	134600/673	100%	0.624	0.407	0.03	23.08	22.50	0.875	0.546	22.4
Right tilted	20	QPSK 50_28	134600/673	100%	0.425	0.271	0.14	23.08	22.50	0.875	0.372	22.4
Left cheek	20	QPSK 50_28	136100/680.5	100%	0.686	0.386	0.08	22.85	22.50	0.923	0.633	22.4



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Left cheek	20	QPSK 50_28	137600/688	100%	0.702	0.396	0.00	22.92	22.50	0.908	0.637	22.4
Head Test Data (100%RB) DSI5												
Left cheek	20	QPSK 100_0	134600/673	100%	0.594	0.334	0.10	22.10	21.50	0.871	0.517	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	20	QPSK 1_1	134600/673	100%	0.311	0.210	0.06	24.69	25.00	1.074	0.334	22.1
Back side	20	QPSK 1_1	134600/673	100%	0.316	0.222	-0.11	24.69	25.00	1.074	0.339	22.1
Left side	20	QPSK 1_1	134600/673	100%	0.094	0.064	0.05	24.69	25.00	1.074	0.101	22.1
Right side	20	QPSK 1_1	134600/673	100%	0.202	0.138	0.00	24.69	25.00	1.074	0.217	22.1
Top side	20	QPSK 1_1	134600/673	100%	0.202	0.103	-0.03	24.69	25.00	1.074	0.217	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	20	QPSK 50_28	134600/673	100%	0.332	0.215	-0.03	24.66	25.00	1.081	0.359	22.1
Back side	20	QPSK 50_28	134600/673	100%	0.313	0.221	0.01	24.66	25.00	1.081	0.338	22.1
Left side	20	QPSK 50_28	134600/673	100%	0.089	0.060	0.14	24.66	25.00	1.081	0.096	22.1
Right side	20	QPSK 50_28	134600/673	100%	0.190	0.131	-0.16	24.66	25.00	1.081	0.205	22.1
Top side	20	QPSK 50_28	134600/673	100%	0.208	0.105	0.11	24.66	25.00	1.081	0.225	22.1

Table 39 : SAR of NR Band n71 for Head, Body and Hotspot.



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9.2.30 SAR Result of NR Band n77(3450-3550)SISO

SA N77 SAR Test Record												
Ant3 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	100	OFDM QPSK 1 271	633334/3500	100 %	0.422	0.212	-0.03	19.72	20.50	1.197	0.505	22.4
Left tilted	100	OFDM QPSK 1 271	633334/3500	100 %	0.180	0.088	-0.04	19.72	20.50	1.197	0.215	22.4
Right cheek	100	OFDM QPSK 1 271	633334/3500	100 %	0.623	0.277	0.12	19.72	20.50	1.197	0.746	22.4
Right tilted	100	OFDM QPSK 1 271	633334/3500	100 %	0.321	0.148	0.13	19.72	20.50	1.197	0.384	22.4
Head Test Data (50%RB) DSI4												
Left cheek	100	OFDM QPSK 135 69	633334/3500	100 %	0.435	0.227	-0.17	19.43	20.50	1.279	0.557	22.4
Left tilted	100	OFDM QPSK 135 69	633334/3500	100 %	0.184	0.091	0.11	19.43	20.50	1.279	0.235	22.4
Right cheek	100	OFDM QPSK 135 69	633334/3500	100 %	0.637	0.280	-0.04	19.43	20.50	1.279	0.815	22.4
Right tilted	100	OFDM QPSK 135 69	633334/3500	100 %	0.321	0.151	-0.14	19.43	20.50	1.279	0.411	22.4
Head Test Data (100%RB) DSI4												
Right cheek	100	OFDM QPSK 270 0	633334/3500	100 %	0.512	0.237	0.18	18.52	19.50	1.253	0.642	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	100	OFDM QPSK 1 271	633334/3500	100 %	0.543	0.260	-0.05	23.12	24.00	1.225	0.665	22.1
Back side	100	OFDM QPSK 1 271	633334/3500	100 %	0.899	0.425	-0.19	23.12	24.00	1.225	1.101	22.1
Left side	100	OFDM QPSK 1 271	633334/3500	100 %	0.902	0.428	0.04	23.12	24.00	1.225	1.105	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	100	OFDM QPSK 135 69	633334/3500	100 %	0.626	0.298	0.10	22.93	24.00	1.279	0.801	22.1
Back side	100	OFDM QPSK 135 69	633334/3500	100 %	0.902	0.427	-0.12	22.93	24.00	1.279	1.154	22.1
Left side	100	OFDM QPSK 135 69	633334/3500	100 %	0.909	0.437	-0.18	22.93	24.00	1.279	1.163	22.3
Left side-repeat	100	OFDM QPSK 135 69	633334/3500	100 %	0.892	0.425	0.07	22.93	24.00	1.279	1.141	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI0												
Front side	100	OFDM QPSK 270 0	633334/3500	100 %	0.528	0.247	0.14	22.13	23.00	1.222	0.645	22.1
Back side	100	OFDM QPSK 270 0	633334/3500	100 %	0.844	0.394	0.00	22.13	23.00	1.222	1.031	22.1



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Left side	100	OFDM QPSK 270_0	633334/350 0	100 %	0.910	0.422	0.07	22.13	23.00	1.222	1.112	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI2												
Front side	100	OFDM QPSK 1_271	633334/350 0	100 %	0.543	0.260	-0.05	23.12	23.50	1.091	0.593	22.1
Back side	100	OFDM QPSK 1_271	633334/350 0	100 %	0.899	0.425	-0.19	23.12	23.50	1.091	0.981	22.1
Left side	100	OFDM QPSK 1_271	633334/350 0	100 %	0.902	0.428	0.04	23.12	23.50	1.091	0.984	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI2												
Front side	100	OFDM QPSK 135_69	633334/350 0	100 %	0.626	0.298	0.10	22.93	23.50	1.140	0.714	22.1
Back side	100	OFDM QPSK 135_69	633334/350 0	100 %	0.902	0.427	-0.12	22.93	23.50	1.140	1.029	22.1
Left side	100	OFDM QPSK 135_69	633334/350 0	100 %	0.909	0.437	-0.18	22.93	23.50	1.140	1.036	22.3
Left side-repeat	100	OFDM QPSK 135_69	633334/350 0	100 %	0.892	0.425	0.07	22.93	23.50	1.140	1.017	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI2												
Front side	100	OFDM QPSK 270_0	633334/350 0	100 %	0.528	0.247	0.14	22.13	22.50	1.089	0.575	22.1
Back side	100	OFDM QPSK 270_0	633334/350 0	100 %	0.844	0.394	0.00	22.13	22.50	1.089	0.919	22.1
Left side	100	OFDM QPSK 270_0	633334/350 0	100 %	0.910	0.422	0.07	22.13	22.50	1.089	0.991	22.1
Ant 7 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(℃)
Head Test Data(1RB) DSI												
Left cheek	100	OFDM QPSK 1_1	633334/350 0	100 %	0.413	0.194	-0.07	19.92	20.00	1.019	0.421	22.4
Left tilted	100	OFDM QPSK 1_1	633334/350 0	100 %	0.284	0.128	-0.02	19.92	20.00	1.019	0.289	22.4
Right cheek	100	OFDM QPSK 1_1	633334/350 0	100 %	0.510	0.226	0.07	19.92	20.00	1.019	0.519	22.4
Right tilted	100	OFDM QPSK 1_1	633334/350 0	100 %	0.167	0.079	0.07	19.92	20.00	1.019	0.170	22.4
Head Test Data(50%RB) DSI												
Left cheek	100	OFDM QPSK 135_69	633334/350 0	100 %	0.440	0.208	-0.04	19.67	20.00	1.079	0.475	22.4
Left tilted	100	OFDM QPSK 135_69	633334/350 0	100 %	0.293	0.131	-0.03	19.67	20.00	1.079	0.316	22.4
Right cheek	100	OFDM QPSK 135_69	633334/350 0	100 %	0.507	0.225	-0.18	19.67	20.00	1.079	0.547	22.4
Right tilted	100	OFDM QPSK 135_69	633334/350 0	100 %	0.162	0.076	0.03	19.67	20.00	1.079	0.175	22.4
Body worn&Hotspot Test data(Separate 10mm 1RB) DSI0												
Front side	100	OFDM QPSK 1_1	633334/350 0	100 %	0.483	0.210	0.11	22.86	23.00	1.033	0.499	22.1



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Back side	100	OFDM QPSK 1_1	633334/3500	100%	0.858	0.347	-0.03	22.86	23.00	1.033	0.886	22.1
Right side	100	OFDM QPSK 1_1	633334/3500	100%	0.824	0.357	0.08	22.86	23.00	1.033	0.851	22.1
Body worn&Hotspot Test data(Separate 10mm 50%RB) DSI 0												
Front side	100	OFDM QPSK 135_69	633334/3500	100%	0.449	0.199	-0.15	22.77	23.00	1.054	0.473	22.1
Back side	100	OFDM QPSK 135_69	633334/3500	100%	0.771	0.320	0.06	22.77	23.00	1.054	0.813	22.1
Right side	100	OFDM QPSK 135_69	633334/3500	100%	0.755	0.326	-0.02	22.77	23.00	1.054	0.796	22.1
Body worn&Hotspot Test data(Separate 10mm 100%RB) DSI 0												
Back side	100	OFDM QPSK 270_0	633334/3500	100%	0.643	0.261	-0.09	21.62	22.00	1.091	0.702	22.1
Right side	100	OFDM QPSK 270_0	633334/3500	100%	0.595	0.257	-0.17	21.62	22.00	1.091	0.649	22.1
Body worn&Hotspot Test data(Separate 10mm 1RB) DSI0												
Front side	100	OFDM QPSK 1_1	633334/3500	100%	0.483	0.210	-0.10	22.86	22.50	0.920	0.445	22.1
Back side	100	OFDM QPSK 1_1	633334/3500	100%	0.858	0.347	-0.08	22.86	22.50	0.920	0.790	22.1
Right side	100	OFDM QPSK 1_1	633334/3500	100%	0.824	0.357	-0.06	22.86	22.50	0.920	0.758	22.1
Body worn&Hotspot Test data(Separate 10mm 50%RB) DSI 0												
Front side	100	OFDM QPSK 135_69	633334/3500	100%	0.449	0.199	0.06	22.77	22.50	0.940	0.422	22.1
Back side	100	OFDM QPSK 135_69	633334/3500	100%	0.771	0.320	0.00	22.77	22.50	0.940	0.725	22.1
Right side	100	OFDM QPSK 135_69	633334/3500	100%	0.755	0.326	-0.19	22.77	22.50	0.940	0.709	22.1
Body worn&Hotspot Test data(Separate 10mm 100%RB) DSI 0												
Back side	100	OFDM QPSK 270_0	633334/3500	100%	0.643	0.261	-0.10	21.62	21.50	0.973	0.625	22.1
Right side	100	OFDM QPSK 270_0	633334/3500	100%	0.595	0.257	0.08	21.62	21.50	0.973	0.579	22.1

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Left side	633334/3500	0.909	0.892	1.02

Table 40 : SAR of NR Band n77(3450-3550)SISO for Head, Body and Hotspot.



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9.2.31 SAR Result of NR Band n77(3700-3980)SISO

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)	Scale factor	Scale SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	100	OFDM QPSK 1_271	662000/3930	100%	0.411	0.174	0.16	20.57	21.00	1.104	0.454	22.4
Left tilted	100	OFDM QPSK 1_271	662000/3930	100%	0.120	0.054	0.02	20.57	21.00	1.104	0.132	22.4
Right cheek	100	OFDM QPSK 1_271	662000/3930	100%	0.683	0.260	-0.04	20.57	21.00	1.104	0.754	22.4
Right tilted	100	OFDM QPSK 1_271	662000/3930	100%	0.192	0.087	-0.04	20.57	21.00	1.104	0.212	22.4
Left cheek	100	OFDM QPSK 1_137	650000/3750	100%	0.399	0.187	0.09	20.37	21.00	1.156	0.461	22.4
Left cheek	100	OFDM QPSK 1_1	652400/3786	100%	0.388	0.183	-0.10	20.15	21.00	1.216	0.472	22.4
Left cheek	100	OFDM QPSK 1_271	654800/3822	100%	0.494	0.218	0.05	20.56	21.00	1.107	0.547	22.4
Left cheek	100	OFDM QPSK 1_271	657200/3858	100%	0.489	0.214	-0.02	20.37	21.00	1.156	0.565	22.4
Left cheek	100	OFDM QPSK 1_271	659600/3894	100%	0.465	0.200	-0.13	20.38	21.00	1.153	0.536	22.4
Right cheek	100	OFDM QPSK 1_137	650000/3750	100%	0.867	0.323	0.07	20.37	21.00	1.156	1.002	22.4
Right cheek	100	OFDM QPSK 1_1	652400/3786	100%	0.893	0.332	0.00	20.15	21.00	1.216	1.086	22.4
Right cheek	100	OFDM QPSK 1_271	654800/3822	100%	0.913	0.346	0.08	20.56	21.00	1.107	1.010	22.4
Right cheek	100	OFDM QPSK 1_271	657200/3858	100%	0.893	0.340	0.02	20.37	21.00	1.156	1.032	22.4
Right cheek	100	OFDM QPSK 1_271	659600/3894	100%	0.796	0.304	0.07	20.38	21.00	1.153	0.918	22.4
Head Test Data (50%RB) DSI4												
Left cheek	100	OFDM QPSK 135_69	650000/3750	100%	0.405	0.189	0.00	20.40	21.00	1.148	0.465	22.4
Left tilted	100	OFDM QPSK 135_69	650000/3750	100%	0.142	0.065	-0.15	20.40	21.00	1.148	0.163	22.4
Right cheek	100	OFDM QPSK 135_69	650000/3750	100%	0.877	0.325	-0.05	20.40	21.00	1.148	1.007	22.4
Right tilted	100	OFDM QPSK 135_69	650000/3750	100%	0.258	0.119	0.07	20.40	21.00	1.148	0.296	22.4
Left cheek	100	OFDM QPSK 135_69	652400/3786	100%	0.439	0.201	0.16	19.93	21.00	1.279	0.562	22.4
Left cheek	100	OFDM QPSK 135_69	654800/3822	100%	0.457	0.206	-0.01	20.19	21.00	1.205	0.551	22.4
Left cheek	100	OFDM QPSK 135_69	657200/3858	100%	0.471	0.210	-0.13	20.12	21.00	1.225	0.577	22.4



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		135_69	8	%								
Left cheek	100	OFDM QPSK 135_69	659600/389 4	100 %	0.481	0.212	-0.09	20.23	21.00	1.194	0.574	22.4
Left cheek	100	OFDM QPSK 135_69	662000/393 0	100 %	0.497	0.215	-0.10	20.17	21.00	1.211	0.602	22.4
Right cheek	100	OFDM QPSK 135_69	652400/378 6	100 %	0.940	0.403	0.09	19.95	21.00	1.274	1.197	22.4
Right cheek	100	OFDM QPSK 135_69	654800/382 2	100 %	0.959	0.356	-0.07	20.19	21.00	1.205	1.156	22.4
Right cheek	100	OFDM QPSK 135_69	657200/385 8	100 %	0.938	0.350	-0.11	20.12	21.00	1.225	1.149	22.4
Right cheek	100	OFDM QPSK 135_69	659600/389 4	100 %	0.913	0.345	-0.11	20.23	21.00	1.194	1.090	22.4
Right cheek	100	OFDM QPSK 135_69	662000/393 0	100 %	0.826	0.314	0.13	20.17	21.00	1.211	1.000	22.4
Head Test Data (50%RB) DSI4												
Left cheek	100	OFDM QPSK 270_0	654800/382 2	100 %	0.359	0.162	0.15	19.66	20.00	1.081	0.388	22.4
Right cheek	100	OFDM QPSK 270_0	654800/382 2	100 %	0.755	0.281	-0.16	19.66	20.00	1.081	0.816	22.4
Head Test Data (1RB) DSI5												
Left cheek	100	OFDM QPSK 1_271	662000/393 0	100 %	0.411	0.174	0.16	20.57	20.00	0.877	0.360	22.4
Left tilted	100	OFDM QPSK 1_271	662000/393 0	100 %	0.120	0.054	0.02	20.57	20.00	0.877	0.105	22.4
Right cheek	100	OFDM QPSK 1_271	662000/393 0	100 %	0.683	0.260	-0.04	20.57	20.00	0.877	0.599	22.4
Right tilted	100	OFDM QPSK 1_271	662000/393 0	100 %	0.192	0.087	-0.04	20.57	20.00	0.877	0.168	22.4
Left cheek	100	OFDM QPSK 1_137	650000/375 0	100 %	0.399	0.187	0.09	20.37	20.00	0.918	0.366	22.4
Left cheek	100	OFDM QPSK 1_1	652400/378 6	100 %	0.388	0.183	-0.10	20.15	20.00	0.966	0.375	22.4
Left cheek	100	OFDM QPSK 1_271	654800/382 2	100 %	0.494	0.218	0.05	20.56	20.00	0.879	0.434	22.4
Left cheek	100	OFDM QPSK 1_271	657200/385 8	100 %	0.489	0.214	-0.02	20.37	20.00	0.918	0.449	22.4
Left cheek	100	OFDM QPSK 1_271	659600/389 4	100 %	0.465	0.200	-0.13	20.38	20.00	0.916	0.426	22.4
Right cheek	100	OFDM QPSK 1_137	650000/375 0	100 %	0.867	0.323	0.07	20.37	20.00	0.918	0.796	22.4
Right cheek	100	OFDM QPSK 1_1	652400/378 6	100 %	0.893	0.332	0.00	20.15	20.00	0.966	0.863	22.4
Right cheek	100	OFDM QPSK 1_271	654800/382 2	100 %	0.913	0.346	0.08	20.56	20.00	0.879	0.803	22.4
Right cheek	100	OFDM QPSK 1_271	657200/385 8	100 %	0.893	0.340	0.02	20.37	20.00	0.918	0.820	22.4
Right cheek	100	OFDM QPSK 1_271	659600/389 4	100 %	0.796	0.304	0.07	20.38	20.00	0.916	0.729	22.4
Head Test Data (50%RB) DSI5												
Left cheek	100	OFDM QPSK 135_69	650000/375 0	100 %	0.405	0.189	0.00	20.40	20.00	0.912	0.369	22.4
Left tilted	100	OFDM QPSK 135_69	650000/375 0	100 %	0.142	0.065	-0.15	20.40	20.00	0.912	0.130	22.4



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Right cheek	100	OFDM QPSK 135 69	650000/375 0	100 %	0.877	0.325	-0.05	20.40	20.00	0.912	0.800	22.4
Right tilted	100	OFDM QPSK 135 69	650000/375 0	100 %	0.258	0.119	0.07	20.40	20.00	0.912	0.235	22.4
Left cheek	100	OFDM QPSK 135 69	652400/378 6	100 %	0.439	0.201	0.16	19.93	20.00	1.016	0.446	22.4
Left cheek	100	OFDM QPSK 135 69	654800/382 2	100 %	0.457	0.206	-0.01	20.19	20.00	0.957	0.437	22.4
Left cheek	100	OFDM QPSK 135 69	657200/385 8	100 %	0.471	0.210	-0.13	20.12	20.00	0.973	0.458	22.4
Left cheek	100	OFDM QPSK 135 69	659600/389 4	100 %	0.481	0.212	-0.09	20.23	20.00	0.948	0.456	22.4
Left cheek	100	OFDM QPSK 135 69	662000/393 0	100 %	0.497	0.215	-0.10	20.17	20.00	0.962	0.478	22.4
Right cheek	100	OFDM QPSK 135 69	652400/378 6	100 %	0.940	0.403	0.09	19.95	20.00	1.012	0.951	22.4
Right cheek	100	OFDM QPSK 135 69	654800/382 2	100 %	0.959	0.356	-0.07	20.19	20.00	0.957	0.918	22.4
Right cheek	100	OFDM QPSK 135 69	657200/385 8	100 %	0.938	0.350	-0.11	20.12	20.00	0.973	0.912	22.4
Right cheek	100	OFDM QPSK 135 69	659600/389 4	100 %	0.913	0.345	-0.11	20.23	20.00	0.948	0.866	22.4
Right cheek	100	OFDM QPSK 135 69	662000/393 0	100 %	0.826	0.314	0.13	20.17	20.00	0.962	0.794	22.4
Head Test Data (50%RB) DSI5												
Left cheek	100	OFDM QPSK 270 0	654800/382 2	100 %	0.359	0.162	0.15	19.66	19.00	0.859	0.308	22.4
Right cheek	100	OFDM QPSK 270 0	654800/382 2	100 %	0.755	0.281	-0.16	19.66	19.00	0.859	0.649	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	100	OFDM QPSK 1 271	662000/393 0	100 %	0.556	0.256	0.12	24.00	24.50	1.122	0.624	22.1
Back side	100	OFDM QPSK 1 271	662000/393 0	100 %	0.584	0.259	0.16	24.00	24.50	1.122	0.655	22.1
Left side	100	OFDM QPSK 1 271	662000/393 0	100 %	0.610	0.280	0.09	24.00	24.50	1.122	0.684	22.1
Front side	100	OFDM QPSK 1 271	650000/375 0	100 %	0.798	0.378	0.07	23.89	24.50	1.151	0.918	22.1
Front side	100	OFDM QPSK 1 271	652400/378 6	100 %	0.790	0.371	-0.03	23.66	24.50	1.213	0.959	22.1
Front side	100	OFDM QPSK 1 271	654800/382 2	100 %	0.813	0.372	-0.14	23.94	24.50	1.138	0.925	22.1
Front side	100	OFDM QPSK 1 271	657200/385 8	100 %	0.781	0.355	-0.08	23.98	24.50	1.127	0.880	22.1
Front side	100	OFDM QPSK 1 271	659600/389 4	100 %	0.681	0.305	-0.02	23.95	24.50	1.135	0.773	22.1
Back side	100	OFDM QPSK 1 271	650000/375 0	100 %	0.847	0.377	0.13	23.89	24.50	1.151	0.975	22.1
Back side	100	OFDM QPSK 1 271	652400/378 6	100 %	0.921	0.408	0.07	23.66	24.50	1.213	1.118	22.1
Back side	100	OFDM QPSK 1 271	654800/382 2	100 %	0.938	0.411	0.19	23.94	24.50	1.138	1.067	22.1
Back side	100	OFDM QPSK 1 271	657200/385 8	100 %	0.930	0.410	-0.02	23.98	24.50	1.127	1.048	22.1



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Back side	100	OFDM QPSK 1 271	659600/389 4	100 %	0.701	0.316	-0.07	23.95	24.50	1.135	0.796	22.1
Left side	100	OFDM QPSK 1 271	650000/375 0	100 %	0.955	0.444	-0.03	23.89	24.50	1.151	1.099	22.1
Left side	100	OFDM QPSK 1 271	652400/378 6	100 %	0.985	0.452	-0.10	23.66	24.50	1.213	1.195	22.1
Left side	100	OFDM QPSK 1 271	654800/382 2	100 %	1.021	0.467	0.14	23.94	24.50	1.138	1.162	22.1
Left side	100	OFDM QPSK 1 271	657200/385 8	100 %	0.963	0.442	-0.08	23.98	24.50	1.127	1.085	22.1
Left side	100	OFDM QPSK 1 271	659600/389 4	100 %	0.825	0.380	-0.16	23.95	24.50	1.135	0.936	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	100	OFDM QPSK 135 69	650000/375 0	100 %	0.666	0.315	-0.08	23.92	24.50	1.143	0.761	22.1
Back side	100	OFDM QPSK 135 69	650000/375 0	100 %	0.691	0.316	0.07	23.92	24.50	1.143	0.790	22.1
Left side	100	OFDM QPSK 135 69	650000/375 0	100 %	0.996	0.455	0.09	23.92	24.50	1.143	1.138	22.1
Front side	100	OFDM QPSK 135 69	652400/378 6	100 %	0.737	0.344	0.19	23.47	24.50	1.268	0.934	22.1
Front side	100	OFDM QPSK 135 69	654800/382 2	100 %	0.784	0.365	0.18	23.84	24.50	1.164	0.913	22.1
Front side	100	OFDM QPSK 135 69	657200/385 8	100 %	0.819	0.378	-0.12	23.76	24.50	1.186	0.971	22.1
Front side	100	OFDM QPSK 135 69	659600/389 4	100 %	0.712	0.334	0.05	23.76	24.50	1.186	0.844	22.1
Front side	100	OFDM QPSK 135 69	662000/393 0	100 %	0.635	0.298	-0.12	23.84	24.50	1.164	0.739	22.1
Back side	100	OFDM QPSK 135 69	652400/378 6	100 %	0.808	0.349	-0.12	23.47	24.50	1.268	1.024	22.1
Back side	100	OFDM QPSK 135 69	654800/382 2	100 %	0.905	0.389	-0.06	23.84	24.50	1.164	1.054	22.1
Back side	100	OFDM QPSK 135 69	657200/385 8	100 %	0.930	0.402	-0.09	23.76	24.50	1.186	1.103	22.1
Back side	100	OFDM QPSK 135 69	659600/389 4	100 %	0.888	0.396	0.18	23.76	24.50	1.186	1.053	22.1
Back side	100	OFDM QPSK 135 69	662000/393 0	100 %	0.717	0.311	-0.01	23.84	24.50	1.164	0.835	22.1
Left side	100	OFDM QPSK 135 69	652400/378 6	100 %	0.880	0.406	-0.08	23.47	24.50	1.268	1.116	22.1
Left side	100	OFDM QPSK 135 69	654800/382 2	100 %	0.979	0.446	0.16	23.84	24.50	1.164	1.140	22.1
Left side	100	OFDM QPSK 135 69	657200/385 8	100 %	0.963	0.431	-0.01	23.76	24.50	1.186	1.142	22.1
Left side	100	OFDM QPSK 135 69	659600/389 4	100 %	1.010	0.469	-0.09	23.76	24.50	1.186	1.198	22.3
Left side	100	OFDM QPSK 135 69	662000/393 0	100 %	0.772	0.339	-0.12	23.84	24.50	1.164	0.899	22.1
Left side-repeat	100	OFDM QPSK 135 69	659600/389 4	100 %	0.988	0.456	-0.07	23.76	24.50	1.186	1.172	22.3
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI0												
Front side	100	OFDM QPSK 270 0	659600/389 4	100 %	0.610	0.276	0.09	22.97	23.50	1.130	0.689	22.1



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Back side	100	OFDM QPSK 270 0	659600/389 4	100 %	0.681	0.305	-0.14	22.97	23.50	1.130	0.769	22.1
Left side	100	OFDM QPSK 270 0	659600/389 4	100 %	0.778	0.339	0.10	22.97	23.50	1.130	0.879	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI2												
Front side	100	OFDM QPSK 1 271	662000/393 0	100 %	0.556	0.256	0.12	24.00	23.50	0.891	0.496	22.1
Back side	100	OFDM QPSK 1 271	662000/393 0	100 %	0.584	0.259	0.16	24.00	23.50	0.891	0.520	22.1
Left side	100	OFDM QPSK 1 271	662000/393 0	100 %	0.610	0.280	0.09	24.00	23.50	0.891	0.544	22.1
Front side	100	OFDM QPSK 1 271	650000/375 0	100 %	0.798	0.378	0.07	23.89	23.50	0.914	0.729	22.1
Front side	100	OFDM QPSK 1 271	652400/378 6	100 %	0.790	0.371	-0.03	23.66	23.50	0.964	0.761	22.1
Front side	100	OFDM QPSK 1 271	654800/382 2	100 %	0.813	0.372	-0.14	23.94	23.50	0.904	0.735	22.1
Front side	100	OFDM QPSK 1 271	657200/385 8	100 %	0.781	0.355	-0.08	23.98	23.50	0.895	0.699	22.1
Front side	100	OFDM QPSK 1 271	659600/389 4	100 %	0.681	0.305	-0.02	23.95	23.50	0.902	0.614	22.1
Back side	100	OFDM QPSK 1 271	650000/375 0	100 %	0.847	0.377	0.13	23.89	23.50	0.914	0.774	22.1
Back side	100	OFDM QPSK 1 271	652400/378 6	100 %	0.921	0.408	0.07	23.66	23.50	0.964	0.888	22.1
Back side	100	OFDM QPSK 1 271	654800/382 2	100 %	0.938	0.411	0.19	23.94	23.50	0.904	0.848	22.1
Back side	100	OFDM QPSK 1 271	657200/385 8	100 %	0.930	0.410	-0.02	23.98	23.50	0.895	0.833	22.1
Back side	100	OFDM QPSK 1 271	659600/389 4	100 %	0.701	0.316	-0.07	23.95	23.50	0.902	0.632	22.1
Left side	100	OFDM QPSK 1 271	650000/375 0	100 %	0.955	0.444	-0.03	23.89	23.50	0.914	0.873	22.1
Left side	100	OFDM QPSK 1 271	652400/378 6	100 %	0.985	0.452	-0.10	23.66	23.50	0.964	0.949	22.1
Left side	100	OFDM QPSK 1 271	654800/382 2	100 %	1.021	0.467	0.14	23.94	23.50	0.904	0.923	22.1
Left side	100	OFDM QPSK 1 271	657200/385 8	100 %	0.963	0.442	-0.08	23.98	23.50	0.895	0.862	22.1
Left side	100	OFDM QPSK 1 271	659600/389 4	100 %	0.825	0.380	-0.16	23.95	23.50	0.902	0.744	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI2												
Front side	100	OFDM QPSK 135 69	650000/375 0	100 %	0.666	0.315	-0.08	23.92	23.50	0.908	0.605	22.1
Back side	100	OFDM QPSK 135 69	650000/375 0	100 %	0.691	0.316	0.07	23.92	23.50	0.908	0.627	22.1
Left side	100	OFDM QPSK 135 69	650000/375 0	100 %	0.996	0.455	0.09	23.92	23.50	0.908	0.904	22.1
Front side	100	OFDM QPSK 135 69	652400/378 6	100 %	0.737	0.344	0.19	23.47	23.50	1.007	0.742	22.1
Front side	100	OFDM QPSK 135 69	654800/382 2	100 %	0.784	0.365	0.18	23.84	23.50	0.925	0.725	22.1
Front side	100	OFDM QPSK 135 69	657200/385 8	100 %	0.819	0.378	-0.12	23.76	23.50	0.942	0.771	22.1



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Front side	100	OFDM QPSK 135 69	659600/389 4	100 %	0.712	0.334	0.05	23.76	23.50	0.942	0.671	22.1
Front side	100	OFDM QPSK 135 69	662000/393 0	100 %	0.635	0.298	-0.12	23.84	23.50	0.925	0.587	22.1
Back side	100	OFDM QPSK 135 69	652400/378 6	100 %	0.808	0.349	-0.12	23.47	23.50	1.007	0.814	22.1
Back side	100	OFDM QPSK 135 69	654800/382 2	100 %	0.905	0.389	-0.06	23.84	23.50	0.925	0.837	22.1
Back side	100	OFDM QPSK 135 69	657200/385 8	100 %	0.930	0.402	-0.09	23.76	23.50	0.942	0.876	22.1
Back side	100	OFDM QPSK 135 69	659600/389 4	100 %	0.888	0.396	0.18	23.76	23.50	0.942	0.836	22.1
Back side	100	OFDM QPSK 135 69	662000/393 0	100 %	0.717	0.311	-0.01	23.84	23.50	0.925	0.663	22.1
Left side	100	OFDM QPSK 135 69	652400/378 6	100 %	0.880	0.406	-0.08	23.47	23.50	1.007	0.886	22.1
Left side	100	OFDM QPSK 135 69	654800/382 2	100 %	0.979	0.446	0.16	23.84	23.50	0.925	0.905	22.1
Left side	100	OFDM QPSK 135 69	657200/385 8	100 %	0.963	0.431	-0.01	23.76	23.50	0.942	0.907	22.1
Left side	100	OFDM QPSK 135 69	659600/389 4	100 %	1.010	0.469	-0.09	23.76	23.50	0.942	0.951	22.3
Left side	100	OFDM QPSK 135 69	662000/393 0	100 %	0.772	0.339	-0.12	23.84	23.50	0.925	0.714	22.1

Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI2

Front side	100	OFDM QPSK 270 0	659600/389 4	100 %	0.610	0.276	0.09	22.97	22.50	0.897	0.547	22.1
Back side	100	OFDM QPSK 270 0	659600/389 4	100 %	0.681	0.305	-0.14	22.97	22.50	0.897	0.611	22.1
Left side	100	OFDM QPSK 270 0	659600/389 4	100 %	0.778	0.339	0.10	22.97	22.50	0.897	0.698	22.1

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)	Scale factor	Scale SAR 1-g (W/kg)	Liquid Temp. (°C)
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Head Test Data (1RB) DSI4

Left cheek	100	OFDM QPSK 1 271	654800/382 2	100 %	0.509	0.235	0.14	23.27	24.00	1.183	0.602	22.4
Left tilted	100	OFDM QPSK 1 271	654800/382 2	100 %	0.354	0.156	-0.04	23.27	24.00	1.183	0.419	22.4
Right cheek	100	OFDM QPSK 1 271	654800/382 2	100 %	0.663	0.278	-0.07	23.27	24.00	1.183	0.784	22.4
Right tilted	100	OFDM QPSK 1 271	654800/382 2	100 %	0.167	0.080	0.13	23.27	24.00	1.183	0.198	22.4
Left cheek	100	OFDM QPSK 1 271	650000/375 0	100 %	0.687	0.281	0.16	22.93	24.00	1.279	0.879	22.3
Left cheek	100	OFDM QPSK 1 271	652400/378 6	100 %	0.481	0.206	-0.06	23.17	24.00	1.211	0.582	22.4
Left cheek	100	OFDM QPSK 1 137	657200/385 8	100 %	0.442	0.186	-0.17	23.26	24.00	1.186	0.524	22.4
Left cheek	100	OFDM QPSK	659600/389	100 %	0.449	0.185	-0.05	23.16	24.00	1.213	0.545	22.4



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		1_137	4	%								
Left cheek	100	OFDM QPSK 1_1	662000/3930	100%	0.481	0.194	-0.01	23.16	24.00	1.213	0.584	22.4
Left tilted	100	OFDM QPSK 1_271	650000/3750	100%	0.501	0.205	-0.09	22.93	24.00	1.279	0.641	22.3
Left tilted	100	OFDM QPSK 1_271	652400/3786	100%	0.350	0.150	0.19	23.17	24.00	1.211	0.424	22.4
Left tilted	100	OFDM QPSK 1_137	657200/3858	100%	0.323	0.135	-0.13	23.26	24.00	1.186	0.383	22.4
Left tilted	100	OFDM QPSK 1_137	659600/3894	100%	0.327	0.135	-0.08	23.16	24.00	1.213	0.397	22.4
Left tilted	100	OFDM QPSK 1_1	662000/3930	100%	0.350	0.142	0.16	23.16	24.00	1.213	0.425	22.4
Right cheek	100	OFDM QPSK 1_271	650000/3750	100%	0.808	0.330	0.01	22.93	24.00	1.279	1.034	22.3
Right cheek	100	OFDM QPSK 1_271	652400/3786	100%	0.566	0.242	0.12	23.17	24.00	1.211	0.685	22.4
Right cheek	100	OFDM QPSK 1_137	657200/3858	100%	0.521	0.218	0.00	23.26	24.00	1.186	0.618	22.4
Right cheek	100	OFDM QPSK 1_137	659600/3894	100%	0.528	0.218	-0.15	23.16	24.00	1.213	0.641	22.4
Right cheek	100	OFDM QPSK 1_1	662000/3930	100%	0.566	0.228	-0.11	23.16	24.00	1.213	0.687	22.4
Head Test Data (50%RB) DSI4												
Left cheek	100	OFDM QPSK 135_69	652400/3786	100%	0.658	0.309	0.08	23.28	24.00	1.180	0.777	22.4
Left tilted	100	OFDM QPSK 135_69	652400/3786	100%	0.479	0.209	0.07	23.28	24.00	1.180	0.565	22.4
Right cheek	100	OFDM QPSK 135_69	652400/3786	100%	0.772	0.330	-0.03	23.28	24.00	1.180	0.911	22.4
Right tilted	100	OFDM QPSK 135_69	652400/3786	100%	0.215	0.105	0.15	23.28	24.00	1.180	0.254	22.4
Left cheek	100	OFDM QPSK 135_69	650000/3750	100%	0.859	0.351	0.16	23.27	24.00	1.183	1.016	22.3
Left cheek	100	OFDM QPSK 135_69	654800/3822	100%	0.601	0.258	0.00	23.16	24.00	1.213	0.729	22.4
Left cheek	100	OFDM QPSK 135_69	657200/3858	100%	0.553	0.232	0.07	23.11	24.00	1.227	0.679	22.4
Left cheek	100	OFDM QPSK 135_69	659600/3894	100%	0.561	0.231	-0.12	22.96	24.00	1.271	0.713	22.4
Left cheek	100	OFDM QPSK 135_69	662000/3930	100%	0.601	0.242	-0.13	23.03	24.00	1.250	0.751	22.4
Left tilted	100	OFDM QPSK 135_69	650000/3750	100%	0.626	0.256	-0.02	23.27	24.00	1.183	0.741	22.3
Left tilted	100	OFDM QPSK 135_69	654800/3822	100%	0.438	0.188	-0.01	23.16	24.00	1.213	0.531	22.4
Left tilted	100	OFDM QPSK 135_69	657200/3858	100%	0.404	0.169	-0.02	23.11	24.00	1.227	0.496	22.4
Left tilted	100	OFDM QPSK 135_69	659600/3894	100%	0.409	0.169	-0.06	22.96	24.00	1.271	0.520	22.4
Left tilted	100	OFDM QPSK 135_69	662000/3930	100%	0.438	0.177	0.09	23.03	24.00	1.250	0.548	22.4
Right cheek	100	OFDM QPSK 135_69	650000/3750	100%	1.010	0.413	-0.09	23.27	24.00	1.183	1.195	22.3



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Right cheek	100	OFDM QPSK 135 69	654800/382 2	100 %	0.707	0.303	0.09	23.16	24.00	1.213	0.858	22.4
Right cheek	100	OFDM QPSK 135 69	657200/385 8	100 %	0.651	0.273	-0.12	23.11	24.00	1.227	0.799	22.4
Right cheek	100	OFDM QPSK 135 69	659600/389 4	100 %	0.660	0.272	0.06	22.96	24.00	1.271	0.839	22.4
Right cheek	100	OFDM QPSK 135 69	662000/393 0	100 %	0.707	0.285	0.11	23.03	24.00	1.250	0.884	22.4
Right cheek-repeat	100	OFDM QPSK 135 69	650000/375 0	100 %	0.985	0.438	-0.03	23.27	24.00	1.183	1.165	22.4
Head Test Data (100%RB) DSI4												
Right cheek	100	OFDM QPSK 270 0	657200/385 8	100 %	0.522	0.219	-0.11	22.48	23.00	1.127	0.588	22.4
Head Test Data (1RB) DSI4												
Left cheek	100	OFDM QPSK 1 271	654800/382 2	100 %	0.509	0.235	0.14	23.27	22.00	0.746	0.380	22.4
Left tilted	100	OFDM QPSK 1 271	654800/382 2	100 %	0.354	0.156	-0.04	23.27	22.00	0.746	0.264	22.4
Right cheek	100	OFDM QPSK 1 271	654800/382 2	100 %	0.663	0.278	-0.07	23.27	22.00	0.746	0.495	22.4
Right tilted	100	OFDM QPSK 1 271	654800/382 2	100 %	0.167	0.080	0.13	23.27	22.00	0.746	0.125	22.4
Left cheek	100	OFDM QPSK 1 271	650000/375 0	100 %	0.687	0.281	0.16	22.93	22.00	0.807	0.555	22.3
Left cheek	100	OFDM QPSK 1 271	652400/378 6	100 %	0.481	0.206	-0.06	23.17	22.00	0.764	0.367	22.4
Left cheek	100	OFDM QPSK 1 137	657200/385 8	100 %	0.442	0.186	-0.17	23.26	22.00	0.748	0.331	22.4
Left cheek	100	OFDM QPSK 1 137	659600/389 4	100 %	0.449	0.185	-0.05	23.16	22.00	0.766	0.344	22.4
Left cheek	100	OFDM QPSK 1_1	662000/393 0	100 %	0.481	0.194	-0.01	23.16	22.00	0.766	0.368	22.4
Left tilted	100	OFDM QPSK 1 271	650000/375 0	100 %	0.501	0.205	-0.09	22.93	22.00	0.807	0.404	22.3
Left tilted	100	OFDM QPSK 1 271	652400/378 6	100 %	0.350	0.150	0.19	23.17	22.00	0.764	0.267	22.4
Left tilted	100	OFDM QPSK 1 137	657200/385 8	100 %	0.323	0.135	-0.13	23.26	22.00	0.748	0.242	22.4
Left tilted	100	OFDM QPSK 1 137	659600/389 4	100 %	0.327	0.135	-0.08	23.16	22.00	0.766	0.250	22.4
Left tilted	100	OFDM QPSK 1_1	662000/393 0	100 %	0.350	0.142	0.16	23.16	22.00	0.766	0.268	22.4
Right cheek	100	OFDM QPSK 1 271	650000/375 0	100 %	0.808	0.330	0.01	22.93	22.00	0.807	0.652	22.3
Right cheek	100	OFDM QPSK 1 271	652400/378 6	100 %	0.566	0.242	0.12	23.17	22.00	0.764	0.432	22.4
Right cheek	100	OFDM QPSK 1 137	657200/385 8	100 %	0.521	0.218	0.00	23.26	22.00	0.748	0.390	22.4
Right cheek	100	OFDM QPSK 1 137	659600/389 4	100 %	0.528	0.218	-0.15	23.16	22.00	0.766	0.404	22.4
Right cheek	100	OFDM QPSK 1_1	662000/393 0	100 %	0.566	0.228	-0.11	23.16	22.00	0.766	0.433	22.4
Head Test Data (50%RB) DSI4												
Left cheek	100	OFDM QPSK	652400/378	100	0.658	0.309	0.08	23.28	22.00	0.745	0.490	22.4



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		135_69	6	%								
Left tilted	100	OFDM QPSK 135_69	652400/378 6	100 %	0.479	0.209	0.07	23.28	22.00	0.745	0.357	22.4
Right cheek	100	OFDM QPSK 135_69	652400/378 6	100 %	0.772	0.330	-0.03	23.28	22.00	0.745	0.575	22.4
Right tilted	100	OFDM QPSK 135_69	652400/378 6	100 %	0.215	0.105	0.15	23.28	22.00	0.745	0.160	22.4
Left cheek	100	OFDM QPSK 135_69	650000/375 0	100 %	0.859	0.351	0.16	23.27	22.00	0.746	0.641	22.3
Left cheek	100	OFDM QPSK 135_69	654800/382 2	100 %	0.601	0.258	0.00	23.16	22.00	0.766	0.460	22.4
Left cheek	100	OFDM QPSK 135_69	657200/385 8	100 %	0.553	0.232	0.07	23.11	22.00	0.774	0.428	22.4
Left cheek	100	OFDM QPSK 135_69	659600/389 4	100 %	0.561	0.231	-0.12	22.96	22.00	0.802	0.450	22.4
Left cheek	100	OFDM QPSK 135_69	662000/393 0	100 %	0.601	0.242	-0.13	23.03	22.00	0.789	0.474	22.4
Left tilted	100	OFDM QPSK 135_69	650000/375 0	100 %	0.626	0.256	-0.02	23.27	22.00	0.746	0.467	22.3
Left tilted	100	OFDM QPSK 135_69	654800/382 2	100 %	0.438	0.188	-0.01	23.16	22.00	0.766	0.335	22.4
Left tilted	100	OFDM QPSK 135_69	657200/385 8	100 %	0.404	0.169	-0.02	23.11	22.00	0.774	0.313	22.4
Left tilted	100	OFDM QPSK 135_69	659600/389 4	100 %	0.409	0.169	-0.06	22.96	22.00	0.802	0.328	22.4
Left tilted	100	OFDM QPSK 135_69	662000/393 0	100 %	0.438	0.177	0.09	23.03	22.00	0.789	0.346	22.4
Right cheek	100	OFDM QPSK 135_69	650000/375 0	100 %	1.010	0.413	-0.09	23.27	22.00	0.746	0.754	22.3
Right cheek	100	OFDM QPSK 135_69	654800/382 2	100 %	0.707	0.303	0.09	23.16	22.00	0.766	0.541	22.4
Right cheek	100	OFDM QPSK 135_69	657200/385 8	100 %	0.651	0.273	-0.12	23.11	22.00	0.774	0.504	22.4
Right cheek	100	OFDM QPSK 135_69	659600/389 4	100 %	0.660	0.272	0.06	22.96	22.00	0.802	0.529	22.4
Right cheek	100	OFDM QPSK 135_69	662000/393 0	100 %	0.707	0.285	0.11	23.03	22.00	0.789	0.558	22.4
Right cheek-repeat	100	OFDM QPSK 135_69	650000/375 0	100 %	0.985	0.438	-0.03	23.27	22.00	0.746	0.735	22.4
Head Test Data (100%RB) DSI4												
Right cheek	100	OFDM QPSK 270_0	657200/385 8	100 %	0.522	0.219	-0.11	22.48	21.00	0.711	0.371	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	100	OFDM QPSK 1_271	654800/382 2	100 %	0.249	0.112	-0.08	24.71	25.50	1.199	0.299	22.1
Back side	100	OFDM QPSK 1_271	654800/382 2	100 %	0.573	0.240	-0.06	24.71	25.50	1.199	0.687	22.1
Right side	100	OFDM QPSK 1_271	654800/382 2	100 %	0.425	0.183	-0.11	24.71	25.50	1.199	0.510	22.1
Back side	100	OFDM QPSK 1_271	650000/375 0	100 %	0.747	0.315	-0.07	24.36	25.50	1.300	0.971	22.1
Back side	100	OFDM QPSK 1_271	652400/378 6	100 %	0.672	0.288	-0.17	24.65	25.50	1.216	0.817	22.1
Back side	100	OFDM QPSK	657200/385	100	0.638	0.274	-0.07	24.70	25.50	1.202	0.767	22.1



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		1_137	8	%								
Back side	100	OFDM QPSK 1_137	659600/389 4	100 %	0.515	0.225	0.08	24.68	25.50	1.208	0.622	22.1
Back side	100	OFDM QPSK 1_1	662000/393 0	100 %	0.537	0.232	-0.09	24.61	25.50	1.227	0.659	22.1
Right side	100	OFDM QPSK 1_271	650000/375 0	100 %	0.553	0.233	-0.01	24.36	25.50	1.300	0.719	22.1
Right side	100	OFDM QPSK 1_271	652400/378 6	100 %	0.497	0.213	0.06	24.65	25.50	1.216	0.604	22.1
Right side	100	OFDM QPSK 1_137	657200/385 8	100 %	0.472	0.203	-0.06	24.70	25.50	1.202	0.567	22.1
Right side	100	OFDM QPSK 1_137	659600/389 4	100 %	0.381	0.167	0.07	24.68	25.50	1.208	0.460	22.1
Right side	100	OFDM QPSK 1_1	662000/393 0	100 %	0.397	0.172	-0.15	24.61	25.50	1.227	0.487	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	100	OFDM QPSK 135_69	652400/378 6	100 %	0.408	0.184	0.14	24.66	25.50	1.213	0.495	22.1
Back side	100	OFDM QPSK 135_69	652400/378 6	100 %	0.844	0.345	-0.14	24.66	25.50	1.213	1.024	22.1
Right side	100	OFDM QPSK 135_69	652400/378 6	100 %	0.637	0.276	-0.06	24.66	25.50	1.213	0.773	22.1
Front side	100	OFDM QPSK 135_69	650000/375 0	100 %	0.427	0.178	-0.13	24.01	25.50	1.409	0.602	22.3
Front side	100	OFDM QPSK 135_69	654800/382 2	100 %	0.364	0.155	-0.19	24.65	25.50	1.216	0.443	22.1
Front side	100	OFDM QPSK 135_69	657200/385 8	100 %	0.328	0.141	-0.12	24.60	25.50	1.230	0.404	22.1
Front side	100	OFDM QPSK 135_69	659600/389 4	100 %	0.277	0.114	0.07	24.54	25.50	1.247	0.346	22.1
Front side	100	OFDM QPSK 135_69	662000/393 0	100 %	0.241	0.098	0.13	24.44	25.50	1.276	0.308	22.1
Back side	100	OFDM QPSK 135_69	650000/375 0	100 %	0.838	0.349	-0.19	24.01	25.50	1.409	1.181	22.3
Back side	100	OFDM QPSK 135_69	654800/382 2	100 %	0.713	0.303	-0.11	24.65	25.50	1.216	0.867	22.1
Back side	100	OFDM QPSK 135_69	657200/385 8	100 %	0.644	0.276	-0.06	24.60	25.50	1.230	0.792	22.1
Back side	100	OFDM QPSK 135_69	659600/389 4	100 %	0.544	0.223	0.00	24.54	25.50	1.247	0.679	22.1
Back side	100	OFDM QPSK 135_69	662000/393 0	100 %	0.472	0.192	-0.13	24.44	25.50	1.276	0.602	22.1
Right side	100	OFDM QPSK 135_69	650000/375 0	100 %	0.747	0.324	-0.18	24.01	25.50	1.409	1.053	22.1
Right side	100	OFDM QPSK 135_69	654800/382 2	100 %	0.506	0.223	0.11	24.65	25.50	1.216	0.615	22.1
Right side	100	OFDM QPSK 135_69	657200/385 8	100 %	0.410	0.181	0.12	24.60	25.50	1.230	0.504	22.1
Right side	100	OFDM QPSK 135_69	659600/389 4	100 %	0.374	0.157	-0.10	24.54	25.50	1.247	0.467	22.1
Right side	100	OFDM QPSK 135_69	662000/393 0	100 %	0.388	0.168	0.17	24.44	25.50	1.276	0.495	22.1
Body worn&Hotspot Test data (Separate 10mm 100%RB) DSI0												
Back side	100	OFDM QPSK	657200/385	100	0.547	0.224	-0.08	24.03	24.50	1.114	0.610	22.1



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		270_0	8	%								
Right side	100	OFDM QPSK 270_0	657200/385 8	100 %	0.422	0.180	0.05	24.03	24.50	1.114	0.470	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI2												
Front side	100	OFDM QPSK 1_271	654800/382 2	100 %	0.249	0.112	-0.08	24.71	24.00	0.849	0.211	22.1
Back side	100	OFDM QPSK 1_271	654800/382 2	100 %	0.573	0.240	-0.06	24.71	24.00	0.849	0.487	22.1
Right side	100	OFDM QPSK 1_271	654800/382 2	100 %	0.425	0.183	-0.11	24.71	24.00	0.849	0.361	22.1
Back side	100	OFDM QPSK 1_271	650000/375 0	100 %	0.747	0.315	-0.07	24.36	24.00	0.920	0.688	22.1
Back side	100	OFDM QPSK 1_271	652400/378 6	100 %	0.672	0.288	-0.17	24.65	24.00	0.861	0.579	22.1
Back side	100	OFDM QPSK 1_137	657200/385 8	100 %	0.638	0.274	-0.07	24.70	24.00	0.851	0.543	22.1
Back side	100	OFDM QPSK 1_137	659600/389 4	100 %	0.515	0.225	0.08	24.68	24.00	0.855	0.440	22.1
Back side	100	OFDM QPSK 1_1	662000/393 0	100 %	0.537	0.232	-0.09	24.61	24.00	0.869	0.467	22.1
Right side	100	OFDM QPSK 1_271	650000/375 0	100 %	0.553	0.233	-0.01	24.36	24.00	0.920	0.509	22.1
Right side	100	OFDM QPSK 1_271	652400/378 6	100 %	0.497	0.213	0.06	24.65	24.00	0.861	0.428	22.1
Right side	100	OFDM QPSK 1_137	657200/385 8	100 %	0.472	0.203	-0.06	24.70	24.00	0.851	0.402	22.1
Right side	100	OFDM QPSK 1_137	659600/389 4	100 %	0.381	0.167	0.07	24.68	24.00	0.855	0.326	22.1
Right side	100	OFDM QPSK 1_1	662000/393 0	100 %	0.397	0.172	-0.15	24.61	24.00	0.869	0.345	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI2												
Front side	100	OFDM QPSK 135_69	652400/378 6	100 %	0.408	0.184	0.14	24.66	24.00	0.859	0.350	22.1
Back side	100	OFDM QPSK 135_69	652400/378 6	100 %	0.844	0.345	-0.14	24.66	24.00	0.859	0.725	22.1
Right side	100	OFDM QPSK 135_69	652400/378 6	100 %	0.637	0.276	-0.06	24.66	24.00	0.859	0.547	22.1
Front side	100	OFDM QPSK 135_69	650000/375 0	100 %	0.427	0.178	-0.13	24.01	24.00	0.998	0.426	22.3
Front side	100	OFDM QPSK 135_69	654800/382 2	100 %	0.364	0.155	-0.19	24.65	24.00	0.861	0.313	22.1
Front side	100	OFDM QPSK 135_69	657200/385 8	100 %	0.328	0.141	-0.12	24.60	24.00	0.871	0.286	22.1
Front side	100	OFDM QPSK 135_69	659600/389 4	100 %	0.277	0.114	0.07	24.54	24.00	0.883	0.245	22.1
Front side	100	OFDM QPSK 135_69	662000/393 0	100 %	0.241	0.098	0.13	24.44	24.00	0.904	0.218	22.1
Back side	100	OFDM QPSK 135_69	650000/375 0	100 %	0.838	0.349	-0.19	24.01	24.00	0.998	0.836	22.3
Back side	100	OFDM QPSK 135_69	654800/382 2	100 %	0.713	0.303	-0.11	24.65	24.00	0.861	0.614	22.1
Back side	100	OFDM QPSK 135_69	657200/385 8	100 %	0.644	0.276	-0.06	24.60	24.00	0.871	0.561	22.1
Back side	100	OFDM QPSK 135_69	659600/389	100	0.544	0.223	0.00	24.54	24.00	0.883	0.480	22.1



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		135_69	4	%								
Back side	100	OFDM QPSK 135_69	662000/393 0	100 %	0.472	0.192	-0.13	24.44	24.00	0.904	0.427	22.1
Right side	100	OFDM QPSK 135_69	650000/375 0	100 %	0.747	0.324	-0.18	24.01	24.00	0.998	0.745	22.1
Right side	100	OFDM QPSK 135_69	654800/382 2	100 %	0.506	0.223	0.11	24.65	24.00	0.861	0.436	22.1
Right side	100	OFDM QPSK 135_69	657200/385 8	100 %	0.410	0.181	0.12	24.60	24.00	0.871	0.357	22.1
Right side	100	OFDM QPSK 135_69	659600/389 4	100 %	0.374	0.157	-0.10	24.54	24.00	0.883	0.330	22.1
Right side	100	OFDM QPSK 135_69	662000/393 0	100 %	0.388	0.168	0.17	24.44	24.00	0.904	0.351	22.1
Body worn&Hotspot Test data (Separate 10mm 100%RB) DS12												
Back side	100	OFDM QPSK 270_0	657200/385 8	100 %	0.547	0.224	-0.08	24.03	23.00	0.789	0.432	22.1
Right side	100	OFDM QPSK 270_0	657200/385 8	100 %	0.422	0.180	0.05	24.03	23.00	0.789	0.333	22.1

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Left side	659600/3894	1.010	0.988	1.02

Table 41 : SAR of NR Band n77(3700-3980)SISO for Head, Body and Hotspot.



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9.2.32 SAR Result of NR Band n77(3450-3550)MIMO

SA N77 SAR Test Record												
Ant3 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	100	CP QPSK 1_1	633334/3500	100 %	0.300	0.146	0.17	16.53	17.50	1.250	0.375	22.4
Left tilted	100	CP QPSK 1_1	633334/3500	100 %	0.093	0.047	0.12	16.53	17.50	1.250	0.116	22.4
Right cheek	100	CP QPSK 1_1	633334/3500	100 %	0.499	0.218	0.03	16.53	17.50	1.250	0.624	22.4
Right tilted	100	CP QPSK 1_1	633334/3500	100 %	0.156	0.074	-0.11	16.53	17.50	1.250	0.195	22.4
Head Test Data (50%RB) DSI4												
Left cheek	100	CP QPSK 135_138	633334/3500	100 %	0.246	0.124	0.12	16.58	17.50	1.236	0.304	22.4
Left tilted	100	CP QPSK 135_138	633334/3500	100 %	0.081	0.040	-0.04	16.58	17.50	1.236	0.100	22.4
Right cheek	100	CP QPSK 135_138	633334/3500	100 %	0.495	0.205	-0.13	16.58	17.50	1.236	0.612	22.4
Right tilted	100	CP QPSK 135_138	633334/3500	100 %	0.142	0.066	0.19	16.58	17.50	1.236	0.176	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	100	CP QPSK 1_1	633334/3500	100 %	0.297	0.141	-0.12	20.10	21.00	1.230	0.365	22.1
Back side	100	CP QPSK 1_1	633334/3500	100 %	0.432	0.201	-0.15	20.10	21.00	1.230	0.531	22.1
Left side	100	CP QPSK 1_1	633334/3500	100 %	0.471	0.223	-0.03	20.10	21.00	1.230	0.579	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	100	CP QPSK 135_138	633334/3500	100 %	0.218	0.104	0.04	20.09	21.00	1.233	0.269	22.1
Back side	100	CP QPSK 135_138	633334/3500	100 %	0.380	0.178	-0.06	20.09	21.00	1.233	0.469	22.1
Left side	100	CP QPSK 135_138	633334/3500	100 %	0.412	0.193	-0.02	20.09	21.00	1.233	0.508	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI2												
Front side	100	CP QPSK 1_1	633334/3500	100 %	0.297	0.141	-0.12	20.10	20.50	1.096	0.326	22.1
Back side	100	CP QPSK 1_1	633334/3500	100 %	0.432	0.201	-0.15	20.10	20.50	1.096	0.474	22.1
Left side	100	CP QPSK 1_1	633334/3500	100 %	0.471	0.223	-0.03	20.10	20.50	1.096	0.516	22.4
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI2												
Front side	100	CP QPSK 135_138	633334/3500	100 %	0.218	0.104	0.04	20.09	20.50	1.099	0.240	22.1



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Back side	100	CP QPSK 135_138	633334/3500	100 %	0.380	0.178	-0.06	20.09	20.50	1.099	0.418	22.1
Left side	100	CP QPSK 135_138	633334/3500	100 %	0.412	0.193	-0.02	20.09	20.50	1.099	0.453	22.1
Ant 7 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dB m)	Tune up Limit(dB m)	Scale d factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(℃)
Head Test Data(1RB) DSI4												
Left cheek	100	CP QPSK 1_1	633334/3500	100 %	0.201	0.095	-0.16	15.84	17.00	1.306	0.263	22.4
Left tilted	100	CP QPSK 1_1	633334/3500	100 %	0.133	0.060	0.05	15.84	17.00	1.306	0.174	22.4
Right cheek	100	CP QPSK 1_1	633334/3500	100 %	0.250	0.111	-0.14	15.84	17.00	1.306	0.327	22.4
Right tilted	100	CP QPSK 1_1	633334/3500	100 %	0.077	0.037	-0.15	15.84	17.00	1.306	0.101	22.4
Head Test Data(50%RB) DSI4												
Left cheek	100	CP QPSK 135_138	633334/3500	100 %	0.219	0.103	0.02	15.71	17.00	1.346	0.295	22.4
Left tilted	100	CP QPSK 135_138	633334/3500	100 %	0.141	0.062	-0.07	15.71	17.00	1.346	0.190	22.4
Right cheek	100	CP QPSK 135_138	633334/3500	100 %	0.264	0.117	-0.02	15.71	17.00	1.346	0.355	22.4
Right tilted	100	CP QPSK 135_138	633334/3500	100 %	0.079	0.038	0.13	15.71	17.00	1.346	0.106	22.4
Head Test Data(1RB) DSI5												
Left cheek	100	CP QPSK 1_1	633334/3500	100 %	0.201	0.095	-0.16	15.84	16.50	1.164	0.234	22.4
Left tilted	100	CP QPSK 1_1	633334/3500	100 %	0.133	0.060	0.05	15.84	16.50	1.164	0.155	22.4
Right cheek	100	CP QPSK 1_1	633334/3500	100 %	0.250	0.111	-0.14	15.84	16.50	1.164	0.291	22.4
Right tilted	100	CP QPSK 1_1	633334/3500	100 %	0.077	0.037	-0.15	15.84	16.50	1.164	0.090	22.4
Head Test Data(50%RB) DSI5												
Left cheek	100	CP QPSK 135_138	633334/3500	100 %	0.219	0.103	0.02	15.71	16.50	1.199	0.263	22.4
Left tilted	100	CP QPSK 135_138	633334/3500	100 %	0.141	0.062	-0.07	15.71	16.50	1.199	0.169	22.4
Right cheek	100	CP QPSK 135_138	633334/3500	100 %	0.264	0.117	-0.02	15.71	16.50	1.199	0.317	22.4
Right tilted	100	CP QPSK 135_138	633334/3500	100 %	0.079	0.038	0.13	15.71	16.50	1.199	0.095	22.4
Body worn&Hotspot Test data(Separate 10mm 1RB) DSI0												
Front side	100	CP QPSK 1_1	633334/3500	100 %	0.241	0.108	-0.12	18.79	20.00	1.321	0.318	22.1
Back side	100	CP QPSK 1_1	633334/3500	100 %	0.427	0.177	-0.01	18.79	20.00	1.321	0.564	22.1
Right side	100	CP QPSK 1_1	633334/3500	100 %	0.404	0.177	0.03	18.79	20.00	1.321	0.534	22.1



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				%								
Body worn&Hotspot Test data(Separate 10mm 50%RB) DSI2												
Front side	100	CP QPSK 135 138	633334/3500	100 %	0.241	0.103	0.06	18.63	20.00	1.371	0.330	22.1
Back side	100	CP QPSK 135 138	633334/3500	100 %	0.421	0.207	0.06	18.63	20.00	1.371	0.577	22.1
Right side	100	CP QPSK 135 138	633334/3500	100 %	0.375	0.167	-0.08	18.63	20.00	1.371	0.514	22.1
Body worn&Hotspot Test data(Separate 10mm 1RB) DSI2												
Front side	100	CP QPSK 1_1	633334/3500	100 %	0.241	0.108	-0.12	18.79	19.50	1.178	0.284	22.1
Back side	100	CP QPSK 1_1	633334/3500	100 %	0.427	0.177	-0.01	18.79	19.50	1.178	0.503	22.1
Right side	100	CP QPSK 1_1	633334/3500	100 %	0.404	0.177	0.03	18.79	19.50	1.178	0.476	22.1
Body worn&Hotspot Test data(Separate 10mm 50%RB) DSI2												
Front side	100	CP QPSK 135 138	633334/3500	100 %	0.241	0.103	0.06	18.63	19.50	1.222	0.294	22.1
Back side	100	CP QPSK 135 138	633334/3500	100 %	0.421	0.207	0.06	18.63	19.50	1.222	0.514	22.1
Right side	100	CP QPSK 135 138	633334/3500	100 %	0.375	0.167	-0.08	18.63	19.50	1.222	0.458	22.1

Table 42 : SAR of NR Band n77(3450-3550)MIMO for Head, Body and Hotspot.



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9.2.33 SAR Result of NR Band n77(3700-3980)MIMO

SA N77 SAR Test Record												
Ant3 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	100	CP QPSK 1_1	657200/3858	100%	0.297	0.133	-0.14	17.55	18.00	1.109	0.329	22.4
Left tilted	100	CP QPSK 1_1	657200/3858	100%	0.088	0.042	-0.03	17.55	18.00	1.109	0.098	22.4
Right cheek	100	CP QPSK 1_1	657200/3858	100%	0.585	0.220	0.03	17.55	18.00	1.109	0.649	22.4
Right tilted	100	CP QPSK 1_1	657200/3858	100%	0.150	0.072	0.11	17.55	18.00	1.109	0.166	22.4
Right cheek	100	CP QPSK 1_1	650000/3750	100%	0.406	0.153	0.14	16.98	18.00	1.265	0.513	22.4
Right cheek	100	CP QPSK 1_1	652400/3786	100%	0.533	0.200	-0.03	16.91	18.00	1.285	0.685	22.4
Right cheek	100	CP QPSK 1_1	654800/3822	100%	0.567	0.211	0.16	17.21	18.00	1.199	0.680	22.4
Right cheek	100	CP QPSK 1_1	659600/3894	100%	0.565	0.214	0.15	17.33	18.00	1.167	0.659	22.4
Right cheek	100	CP QPSK 1_1	662000/3930	100%	0.560	0.214	-0.15	17.22	18.00	1.197	0.670	22.4
Right cheek-repeat	100	CP QPSK 1_1	657200/3858	100%	0.575	0.210	-0.17	17.55	18.00	1.109	0.638	22.4
Head Test Data (50%RB) DSI4												
Left cheek	100	CP QPSK 135_138	659600/3894	100%	0.287	0.131	-0.18	17.85	18.00	1.035	0.297	22.4
Left tilted	100	CP QPSK 135_138	659600/3894	100%	0.079	0.039	-0.08	17.85	18.00	1.035	0.082	22.4
Right cheek	100	CP QPSK 135_138	659600/3894	100%	0.523	0.200	-0.14	17.85	18.00	1.035	0.541	22.4
Right tilted	100	CP QPSK 135_138	659600/3894	100%	0.131	0.063	0.03	17.85	18.00	1.035	0.136	22.4
Right cheek	100	CP QPSK 135_138	650000/3750	100%	0.575	0.216	-0.06	16.65	18.00	1.365	0.785	22.4
Right cheek	100	CP QPSK 135_138	652400/3786	100%	0.579	0.238	-0.06	16.58	18.00	1.387	0.803	22.4
Right cheek	100	CP QPSK 135_138	654800/3822	100%	0.566	0.215	0.01	16.54	18.00	1.400	0.792	22.4
Right cheek	100	CP QPSK 135_138	657200/3858	100%	0.556	0.212	-0.08	16.85	18.00	1.303	0.725	22.4
Right cheek	100	CP QPSK 135_138	662000/3930	100%	0.467	0.180	0.13	16.59	18.00	1.384	0.646	22.4
Head Test Data (50%RB) DSI4												
Right cheek	100	CP QPSK 270_0	657200/3858	100%	0.402	0.161	-0.19	15.58	16.50	1.236	0.497	22.4



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Head Test Data (1RB) DSI5												
Left cheek	100	CP QPSK 1_1	657200/3858	100%	0.297	0.133	-0.14	17.55	17.00	0.881	0.262	22.4
Left tilted	100	CP QPSK 1_1	657200/3858	100%	0.088	0.042	-0.03	17.55	17.00	0.881	0.078	22.4
Right cheek	100	CP QPSK 1_1	657200/3858	100%	0.585	0.220	0.03	17.55	17.00	0.881	0.515	22.4
Right tilted	100	CP QPSK 1_1	657200/3858	100%	0.150	0.072	0.11	17.55	17.00	0.881	0.132	22.4
Right cheek	100	CP QPSK 1_1	650000/3750	100%	0.406	0.153	0.14	16.98	17.00	1.005	0.408	22.4
Right cheek	100	CP QPSK 1_1	652400/3786	100%	0.533	0.200	-0.03	16.91	17.00	1.021	0.544	22.4
Right cheek	100	CP QPSK 1_1	654800/3822	100%	0.567	0.211	0.16	17.21	17.00	0.953	0.540	22.4
Right cheek	100	CP QPSK 1_1	659600/3894	100%	0.565	0.214	0.15	17.33	17.00	0.927	0.524	22.4
Right cheek	100	CP QPSK 1_1	662000/3930	100%	0.560	0.214	-0.15	17.22	17.00	0.951	0.532	22.4
Right cheek-repeat	100	CP QPSK 1_1	657200/3858	100%	0.575	0.210	-0.17	17.55	17.00	0.881	0.507	22.4
Head Test Data (50%RB) DSI5												
Left cheek	100	CP QPSK 135_138	659600/3894	100%	0.287	0.131	-0.18	17.85	17.00	0.822	0.236	22.4
Left tilted	100	CP QPSK 135_138	659600/3894	100%	0.079	0.039	-0.08	17.85	17.00	0.822	0.065	22.4
Right cheek	100	CP QPSK 135_138	659600/3894	100%	0.523	0.200	-0.14	17.85	17.00	0.822	0.430	22.4
Right tilted	100	CP QPSK 135_138	659600/3894	100%	0.131	0.063	0.03	17.85	17.00	0.822	0.108	22.4
Right cheek	100	CP QPSK 135_138	650000/3750	100%	0.575	0.216	-0.06	16.65	17.00	1.084	0.623	22.4
Right cheek	100	CP QPSK 135_138	652400/3786	100%	0.579	0.238	-0.06	16.58	17.00	1.102	0.638	22.4
Right cheek	100	CP QPSK 135_138	654800/3822	100%	0.566	0.215	0.01	16.54	17.00	1.112	0.629	22.4
Right cheek	100	CP QPSK 135_138	657200/3858	100%	0.556	0.212	-0.08	16.85	17.00	1.035	0.576	22.4
Right cheek	100	CP QPSK 135_138	662000/3930	100%	0.467	0.180	0.13	16.59	17.00	1.099	0.513	22.4
Head Test Data (50%RB) DSI5												
Right cheek	100	CP QPSK 270_0	657200/3858	100%	0.402	0.161	-0.19	15.58	15.50	0.982	0.395	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	100	CP QPSK 1_1	657200/3858	100%	0.471	0.215	0.05	20.87	21.50	1.156	0.545	22.1
Back side	100	CP QPSK 1_1	657200/3858	100%	0.434	0.193	-0.09	20.87	21.50	1.156	0.502	22.1
Left side	100	CP QPSK 1_1	657200/3858	100%	0.594	0.272	-0.17	20.87	21.50	1.156	0.687	22.1
Front side	100	CP QPSK 1_1	650000/3750	100%	0.393	0.185	0.08	20.50	21.50	1.259	0.495	22.1
Front side	100	CP QPSK 1_1	652400/3786	100%	0.486	0.228	0.02	20.51	21.50	1.256	0.610	22.1



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Front side	100	CP QPSK 1_1	654800/382 2	100 %	0.475	0.219	0.14	20.67	21.50	1.211	0.575	22.1
Front side	100	CP QPSK 1_1	659600/389 4	100 %	0.506	0.231	-0.17	20.72	21.50	1.197	0.606	22.1
Front side	100	CP QPSK 1_1	662000/393 0	100 %	0.512	0.233	-0.10	20.58	21.50	1.236	0.633	22.1
Back side	100	CP QPSK 1_1	650000/375 0	100 %	0.357	0.167	0.04	20.50	21.50	1.259	0.449	22.1
Back side	100	CP QPSK 1_1	652400/378 6	100 %	0.394	0.184	0.01	20.51	21.50	1.256	0.495	22.1
Back side	100	CP QPSK 1_1	654800/382 2	100 %	0.419	0.186	0.06	20.67	21.50	1.211	0.507	22.1
Back side	100	CP QPSK 1_1	659600/389 4	100 %	0.465	0.207	0.09	20.72	21.50	1.197	0.556	22.1
Back side	100	CP QPSK 1_1	662000/393 0	100 %	0.502	0.218	0.06	20.58	21.50	1.236	0.620	22.1
Left side	100	CP QPSK 1_1	650000/375 0	100 %	0.550	0.251	-0.10	20.50	21.50	1.259	0.692	22.1
Left side	100	CP QPSK 1_1	652400/378 6	100 %	0.595	0.270	-0.02	20.51	21.50	1.256	0.747	22.1
Left side	100	CP QPSK 1_1	654800/382 2	100 %	0.594	0.269	-0.12	20.67	21.50	1.211	0.719	22.1
Left side	100	CP QPSK 1_1	659600/389 4	100 %	0.627	0.279	-0.18	20.72	21.50	1.197	0.750	22.1
Left side	100	CP QPSK 1_1	662000/393 0	100 %	0.629	0.275	0.00	20.58	21.50	1.236	0.777	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	100	CP QPSK 135 138	657200/385 8	100 %	0.466	0.221	0.01	20.36	21.50	1.300	0.606	22.1
Back side	100	CP QPSK 135 138	657200/385 8	100 %	0.467	0.210	0.06	20.36	21.50	1.300	0.607	22.1
Left side	100	CP QPSK 135 138	657200/385 8	100 %	0.589	0.279	-0.06	20.36	21.50	1.300	0.766	22.1
Front side	100	CP QPSK 135 138	650000/375 0	100 %	0.448	0.210	0.10	20.04	21.50	1.400	0.627	22.1
Front side	100	CP QPSK 135 138	652400/378 6	100 %	0.489	0.222	-0.19	20.01	21.50	1.409	0.689	22.1
Front side	100	CP QPSK 135 138	654800/382 2	100 %	0.508	0.228	-0.16	20.25	21.50	1.334	0.677	22.1
Front side	100	CP QPSK 135 138	659600/389 4	100 %	0.472	0.214	-0.04	20.22	21.50	1.343	0.634	22.1
Front side	100	CP QPSK 135 138	662000/393 0	100 %	0.406	0.183	-0.13	19.96	21.50	1.426	0.579	22.1
Back side	100	CP QPSK 135 138	650000/375 0	100 %	0.379	0.174	0.00	20.04	21.50	1.400	0.530	22.1
Back side	100	CP QPSK 135 138	652400/378 6	100 %	0.406	0.184	0.15	20.01	21.50	1.409	0.572	22.1
Back side	100	CP QPSK 135 138	654800/382 2	100 %	0.462	0.200	0.00	20.25	21.50	1.334	0.616	22.1
Back side	100	CP QPSK 135 138	659600/389 4	100 %	0.443	0.200	-0.16	20.22	21.50	1.343	0.595	22.1
Back side	100	CP QPSK 135 138	662000/393 0	100 %	0.368	0.162	-0.04	19.96	21.50	1.426	0.525	22.1
Left side	100	CP QPSK	650000/375	100	0.552	0.258	-0.02	20.04	21.50	1.400	0.773	22.1



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		135_138	0	%								
Left side	100	CP QPSK 135_138	652400/3786	100%	0.552	0.261	-0.06	20.01	21.50	1.409	0.778	22.4
Left side	100	CP QPSK 135_138	654800/3822	100%	0.575	0.268	0.17	20.25	21.50	1.334	0.767	22.1
Left side	100	CP QPSK 135_138	659600/3894	100%	0.571	0.255	-0.11	20.22	21.50	1.343	0.767	22.1
Left side	100	CP QPSK 135_138	662000/3930	100%	0.484	0.217	-0.03	19.96	21.50	1.426	0.690	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI2												
Front side	100	CP QPSK 1_1	657200/3858	100%	0.471	0.215	0.05	20.87	20.50	0.918	0.433	22.1
Back side	100	CP QPSK 1_1	657200/3858	100%	0.434	0.193	-0.09	20.87	20.50	0.918	0.399	22.1
Left side	100	CP QPSK 1_1	657200/3858	100%	0.594	0.272	-0.17	20.87	20.50	0.918	0.545	22.1
Front side	100	CP QPSK 1_1	650000/3750	100%	0.393	0.185	0.08	20.50	20.50	1.000	0.393	22.1
Front side	100	CP QPSK 1_1	652400/3786	100%	0.486	0.228	0.02	20.51	20.50	0.998	0.485	22.1
Front side	100	CP QPSK 1_1	654800/3822	100%	0.475	0.219	0.14	20.67	20.50	0.962	0.457	22.1
Front side	100	CP QPSK 1_1	659600/3894	100%	0.506	0.231	-0.17	20.72	20.50	0.951	0.481	22.1
Front side	100	CP QPSK 1_1	662000/3930	100%	0.512	0.233	-0.10	20.58	20.50	0.982	0.503	22.1
Back side	100	CP QPSK 1_1	650000/3750	100%	0.357	0.167	0.04	20.50	20.50	1.000	0.357	22.1
Back side	100	CP QPSK 1_1	652400/3786	100%	0.394	0.184	0.01	20.51	20.50	0.998	0.393	22.1
Back side	100	CP QPSK 1_1	654800/3822	100%	0.419	0.186	0.06	20.67	20.50	0.962	0.403	22.1
Back side	100	CP QPSK 1_1	659600/3894	100%	0.465	0.207	0.09	20.72	20.50	0.951	0.442	22.1
Back side	100	CP QPSK 1_1	662000/3930	100%	0.502	0.218	0.06	20.58	20.50	0.982	0.493	22.1
Left side	100	CP QPSK 1_1	650000/3750	100%	0.550	0.251	-0.10	20.50	20.50	1.000	0.550	22.1
Left side	100	CP QPSK 1_1	652400/3786	100%	0.595	0.270	-0.02	20.51	20.50	0.998	0.594	22.1
Left side	100	CP QPSK 1_1	654800/3822	100%	0.594	0.269	-0.12	20.67	20.50	0.962	0.571	22.1
Left side	100	CP QPSK 1_1	659600/3894	100%	0.627	0.279	-0.18	20.72	20.50	0.951	0.596	22.1
Left side	100	CP QPSK 1_1	662000/3930	100%	0.629	0.275	0.00	20.58	20.50	0.982	0.618	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI2												
Front side	100	CP QPSK 135_138	657200/3858	100%	0.466	0.221	0.01	20.36	20.50	1.033	0.481	22.1
Back side	100	CP QPSK 135_138	657200/3858	100%	0.467	0.210	0.06	20.36	20.50	1.033	0.482	22.1
Left side	100	CP QPSK 135_138	657200/3858	100%	0.589	0.279	-0.06	20.36	20.50	1.033	0.608	22.1
Front side	100	CP QPSK	650000/375	100%	0.448	0.210	0.10	20.04	20.50	1.112	0.498	22.1



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		135_138	0	%								
Front side	100	CP QPSK 135_138	652400/378 6	100 %	0.489	0.222	-0.19	20.01	20.50	1.119	0.547	22.1
Front side	100	CP QPSK 135_138	654800/382 2	100 %	0.508	0.228	-0.16	20.25	20.50	1.059	0.538	22.1
Front side	100	CP QPSK 135_138	659600/389 4	100 %	0.472	0.214	-0.04	20.22	20.50	1.067	0.503	22.1
Front side	100	CP QPSK 135_138	662000/393 0	100 %	0.406	0.183	-0.13	19.96	20.50	1.132	0.460	22.1
Back side	100	CP QPSK 135_138	650000/375 0	100 %	0.379	0.174	0.00	20.04	20.50	1.112	0.421	22.1
Back side	100	CP QPSK 135_138	652400/378 6	100 %	0.406	0.184	0.15	20.01	20.50	1.119	0.454	22.1
Back side	100	CP QPSK 135_138	654800/382 2	100 %	0.462	0.200	0.00	20.25	20.50	1.059	0.489	22.1
Back side	100	CP QPSK 135_138	659600/389 4	100 %	0.443	0.200	-0.16	20.22	20.50	1.067	0.473	22.1
Back side	100	CP QPSK 135_138	662000/393 0	100 %	0.368	0.162	-0.04	19.96	20.50	1.132	0.417	22.1
Left side	100	CP QPSK 135_138	650000/375 0	100 %	0.552	0.258	-0.02	20.04	20.50	1.112	0.614	22.1
Left side	100	CP QPSK 135_138	652400/378 6	100 %	0.552	0.261	-0.06	20.01	20.50	1.119	0.618	22.4
Left side	100	CP QPSK 135_138	654800/382 2	100 %	0.575	0.268	0.17	20.25	20.50	1.059	0.609	22.1
Left side	100	CP QPSK 135_138	659600/389 4	100 %	0.571	0.255	-0.11	20.22	20.50	1.067	0.609	22.1
Left side	100	CP QPSK 135_138	662000/393 0	100 %	0.484	0.217	-0.03	19.96	20.50	1.132	0.548	22.1
Ant 7 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(℃)
Head Test Data(1RB) DSI												
Left cheek	100	CP QPSK 1_137	657200/385 8	100 %	0.222	0.102	-0.16	20.09	21.00	1.233	0.274	22.4
Left tilted	100	CP QPSK 1_137	657200/385 8	100 %	0.163	0.073	0.15	20.09	21.00	1.233	0.201	22.4
Right cheek	100	CP QPSK 1_137	657200/385 8	100 %	0.289	0.122	0.05	20.09	21.00	1.233	0.356	22.4
Right tilted	100	CP QPSK 1_137	657200/385 8	100 %	0.091	0.042	0.00	20.09	21.00	1.233	0.112	22.4
Head Test Data(50%RB) DSI4												
Left cheek	100	CP QPSK 135_138	657200/385 8	100 %	0.228	0.103	-0.13	20.07	21.00	1.239	0.282	22.4
Left tilted	100	CP QPSK 135_138	657200/385 8	100 %	0.156	0.070	0.19	20.07	21.00	1.239	0.193	22.4
Right cheek	100	CP QPSK 135_138	657200/385 8	100 %	0.276	0.117	-0.17	20.07	21.00	1.239	0.342	22.4
Right tilted	100	CP QPSK 135_138	657200/385 8	100 %	0.066	0.032	-0.11	20.07	21.00	1.239	0.082	22.4



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Body worn&Hotspot Test data(Separate 10mm 1RB) DSI0												
Front side	100	CP QPSK 1_137	657200/3858	100%	0.167	0.077	-0.18	21.71	22.50	1.199	0.200	22.1
Back side	100	CP QPSK 1_137	657200/3858	100%	0.372	0.162	-0.16	21.71	22.50	1.199	0.446	22.1
Right side	100	CP QPSK 1_137	657200/3858	100%	0.288	0.125	0.11	21.71	22.50	1.199	0.345	22.1
Back side	100	CP QPSK 1_137	650000/3750	100%	0.485	0.198	0.02	20.94	22.50	1.432	0.695	22.4
Back side	100	CP QPSK 1_137	652400/3786	100%	0.512	0.219	0.18	21.17	22.50	1.358	0.695	22.1
Back side	100	CP QPSK 1_137	654800/3822	100%	0.484	0.206	-0.09	21.31	22.50	1.315	0.637	22.1
Back side	100	CP QPSK 1_1	659600/3894	100%	0.456	0.195	0.15	21.53	22.50	1.250	0.570	22.1
Back side	100	CP QPSK 1_1	662000/3930	100%	0.348	0.152	-0.16	21.21	22.50	1.346	0.468	22.1
Body worn&Hotspot Test data(Separate 10mm 50%RB) DSI2												
Front side	100	CP QPSK 135_138	654800/3822	100%	0.186	0.081	0.14	21.51	22.50	1.256	0.234	22.1
Back side	100	CP QPSK 135_138	654800/3822	100%	0.403	0.175	0.11	21.51	22.50	1.256	0.506	22.1
Right side	100	CP QPSK 135_138	654800/3822	100%	0.290	0.126	0.10	21.51	22.50	1.256	0.364	22.1
Back side	100	CP QPSK 135_138	650000/3750	100%	0.520	0.218	-0.06	20.90	22.50	1.445	0.752	22.1
Back side	100	CP QPSK 135_138	652400/3786	100%	0.469	0.199	-0.01	21.17	22.50	1.358	0.637	22.1
Back side	100	CP QPSK 135_138	657200/3858	100%	0.348	0.152	0.04	21.42	22.50	1.282	0.446	22.1
Back side	100	CP QPSK 135_138	659600/3894	100%	0.269	0.120	0.06	21.26	22.50	1.330	0.358	22.1
Back side	100	CP QPSK 135_138	662000/3930	100%	0.239	0.106	-0.10	21.10	22.50	1.380	0.330	22.1
Body worn&Hotspot Test data(Separate 10mm 1RB) DSI2												
Front side	100	CP QPSK 1_137	657200/3858	100%	0.167	0.077	-0.18	21.71	21.00	0.849	0.142	22.1
Back side	100	CP QPSK 1_137	657200/3858	100%	0.372	0.162	-0.16	21.71	21.00	0.849	0.316	22.1
Right side	100	CP QPSK 1_137	657200/3858	100%	0.288	0.125	0.11	21.71	21.00	0.849	0.245	22.1
Back side	100	CP QPSK 1_137	650000/3750	100%	0.485	0.198	0.02	20.94	21.00	1.014	0.492	22.4
Back side	100	CP QPSK 1_137	652400/3786	100%	0.512	0.219	0.18	21.17	21.00	0.962	0.492	22.1
Back side	100	CP QPSK 1_137	654800/3822	100%	0.484	0.206	-0.09	21.31	21.00	0.931	0.451	22.1
Back side	100	CP QPSK 1_1	659600/3894	100%	0.456	0.195	0.15	21.53	21.00	0.885	0.404	22.1
Back side	100	CP QPSK 1_1	662000/3930	100%	0.348	0.152	-0.16	21.21	21.00	0.953	0.332	22.1
Body worn&Hotspot Test data(Separate 10mm 50%RB) DSI2												
Front side	100	CP QPSK	654800/382	100	0.186	0.081	0.14	21.51	21.00	0.889	0.165	22.1



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		135_138	2	%								
Back side	100	CP QPSK 135_138	654800/382 2	100 %	0.403	0.175	0.11	21.51	21.00	0.889	0.358	22.1
Right side	100	CP QPSK 135_138	654800/382 2	100 %	0.290	0.126	0.10	21.51	21.00	0.889	0.258	22.1
Back side	100	CP QPSK 135_138	650000/375 0	100 %	0.520	0.218	-0.06	20.90	21.00	1.023	0.532	22.1
Back side	100	CP QPSK 135_138	652400/378 6	100 %	0.469	0.199	-0.01	21.17	21.00	0.962	0.451	22.1
Back side	100	CP QPSK 135_138	657200/385 8	100 %	0.348	0.152	0.04	21.42	21.00	0.908	0.316	22.1
Back side	100	CP QPSK 135_138	659600/389 4	100 %	0.269	0.120	0.06	21.26	21.00	0.942	0.253	22.1
Back side	100	CP QPSK 135_138	662000/393 0	100 %	0.239	0.106	-0.10	21.10	21.00	0.977	0.234	22.1

Table 43 : SAR of NR Band n77(3700-3980)MIMO for Head, Body and Hotspot.



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9.2.34 SAR Result of NR Band n78(3450-3550)SISO

SA N78 SAR Test Record												
Ant 7 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dB m)	Tune up Limit(dB m)	Scale factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(℃)
Head Test Data(1RB) DSI4												
Left cheek	100	OFDM QPSK 1_1	633334/3500	100%	0.560	0.261	-0.09	20.53	21.00	1.114	0.624	22.4
Left tilted	100	OFDM QPSK 1_1	633334/3500	100%	0.380	0.173	0.08	20.53	21.00	1.114	0.423	22.4
Right cheek	100	OFDM QPSK 1_1	633334/3500	100%	0.621	0.245	0.09	20.53	21.00	1.114	0.692	22.4
Right tilted	100	OFDM QPSK 1_1	633334/3500	100%	0.212	0.099	0.02	20.53	21.00	1.114	0.236	22.4
Head Test Data(50%RB) DSI4												
Left cheek	100	OFDM QPSK 135_69	633334/3500	100%	0.576	0.270	-0.13	20.39	21.00	1.151	0.663	22.4
Left tilted	100	OFDM QPSK 135_69	633334/3500	100%	0.386	0.176	-0.07	20.39	21.00	1.151	0.444	22.4
Right cheek	100	OFDM QPSK 135_69	633334/3500	100%	0.625	0.255	0.06	20.39	21.00	1.151	0.719	22.4
Right tilted	100	OFDM QPSK 135_69	633334/3500	100%	0.215	0.101	-0.13	20.39	21.00	1.151	0.247	22.4
Body worn&Hotspot Test data(Separate 10mm 1RB) DSI0												
Front side	100	OFDM QPSK 1_1	633334/3500	100%	0.442	0.198	0.13	22.81	23.50	1.172	0.518	22.1
Back side	100	OFDM QPSK 1_1	633334/3500	100%	0.811	0.335	0.02	22.81	23.50	1.172	0.951	22.1
Right side	100	OFDM QPSK 1_1	633334/3500	100%	0.801	0.332	0.00	22.81	23.50	1.172	0.939	22.1
Body worn&Hotspot Test data(Separate 10mm 50%RB) DSI0												
Front side	100	OFDM QPSK 135_69	633334/3500	100%	0.450	0.197	-0.14	22.75	23.50	1.189	0.535	22.1
Back side	100	OFDM QPSK 135_69	633334/3500	100%	0.817	0.342	-0.04	22.75	23.50	1.189	0.971	22.4
Right side	100	OFDM QPSK 135_69	633334/3500	100%	0.805	0.345	0.10	22.75	23.50	1.189	0.957	22.1
Back side-repea	100	OFDM QPSK 135_69	633334/3500	100%	0.805	0.335	-0.07	22.75	23.50	1.189	0.957	22.4
Body worn&Hotspot Test data(Separate 10mm 100%RB) DSI0												
Back side	100	OFDM QPSK 135_69	633334/3500	100%	0.625	0.285	-0.04	21.66	22.50	1.213	0.758	22.4
Right side	100	OFDM QPSK 135_69	633334/3500	100%	0.621	0.284	-0.03	21.66	22.50	1.213	0.754	22.4
Body worn&Hotspot Test data(Separate 10mm 1RB) DSI2												
Front side	100	OFDM QPSK 1_1	633334/3500	100%	0.442	0.198	0.13	22.81	22.50	0.931	0.412	22.1



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Back side	100	OFDM QPSK 1_1	633334/3500	100%	0.811	0.335	0.02	22.81	22.50	0.931	0.755	22.1
Right side	100	OFDM QPSK 1_1	633334/3500	100%	0.801	0.332	0.00	22.81	22.50	0.931	0.746	22.1
Body worn&Hotspot Test data(Separate 10mm 50%RB) DSI2												
Front side	100	OFDM QPSK 135_69	633334/3500	100%	0.450	0.197	-0.14	22.75	22.50	0.944	0.425	22.1
Back side	100	OFDM QPSK 135_69	633334/3500	100%	0.817	0.342	-0.04	22.75	22.50	0.944	0.771	22.4
Right side	100	OFDM QPSK 135_69	633334/3500	100%	0.805	0.345	0.10	22.75	22.50	0.944	0.760	22.1
Body worn&Hotspot Test data(Separate 10mm 100%RB) DSI2												
Back side	100	OFDM QPSK 135_69	633334/3500	100%	0.625	0.285	-0.04	21.66	22.50	1.213	0.758	22.4
Right side	100	OFDM QPSK 135_69	633334/3500	100%	0.621	0.284	-0.03	21.66	22.50	1.213	0.754	22.4

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio
	(MHz)		SAR (1g)	
Back side	633334/3500	0.817	0.805	1.01

Table 44 : SAR of NR Band n78(3450-3550)SISO for Head, Body and Hotspot.



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9.2.35 SAR Result of NR Band n78(3450-3550)MIMO

SA N78 SAR Test Record												
Ant 7 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(℃)
Head Test Data(1RB) DSI4												
Left cheek	100	CP QPSK 1_1	633334/3500	100 %	0.223	0.106	0.01	16.47	18.00	1.422	0.317	22.4
Left tilted	100	CP QPSK 1_1	633334/3500	100 %	0.171	0.077	-0.18	16.47	18.00	1.422	0.243	22.4
Right cheek	100	CP QPSK 1_1	633334/3500	100 %	0.290	0.116	-0.08	16.47	18.00	1.422	0.412	22.4
Right tilted	100	CP QPSK 1_1	633334/3500	100 %	0.090	0.043	0.05	16.47	18.00	1.422	0.128	22.4
Head Test Data(50%RB) DSI4												
Left cheek	100	CP QPSK 135_138	633334/3500	100 %	0.247	0.119	0.12	16.57	18.00	1.390	0.343	22.4
Left tilted	100	CP QPSK 135_138	633334/3500	100 %	0.168	0.074	-0.05	16.57	18.00	1.390	0.234	22.4
Right cheek	100	CP QPSK 135_138	633334/3500	100 %	0.289	0.139	-0.03	16.57	18.00	1.390	0.402	22.4
Right tilted	100	CP QPSK 135_138	633334/3500	100 %	0.093	0.044	-0.03	16.57	18.00	1.390	0.129	22.4
Head Test Data(1RB) DSI5												
Left cheek	100	CP QPSK 1_1	633334/3500	100 %	0.223	0.106	0.01	16.47	17.50	1.268	0.283	22.4
Left tilted	100	CP QPSK 1_1	633334/3500	100 %	0.171	0.077	-0.18	16.47	17.50	1.268	0.217	22.4
Right cheek	100	CP QPSK 1_1	633334/3500	100 %	0.290	0.116	-0.08	16.47	17.50	1.268	0.368	22.4
Right tilted	100	CP QPSK 1_1	633334/3500	100 %	0.090	0.043	0.05	16.47	17.50	1.268	0.114	22.4
Head Test Data(50%RB) DSI5												
Left cheek	100	CP QPSK 135_138	633334/3500	100 %	0.247	0.119	0.12	16.57	17.50	1.239	0.306	22.4
Left tilted	100	CP QPSK 135_138	633334/3500	100 %	0.168	0.074	-0.05	16.57	17.50	1.239	0.208	22.4
Right cheek	100	CP QPSK 135_138	633334/3500	100 %	0.289	0.139	-0.03	16.57	17.50	1.239	0.358	22.4
Right tilted	100	CP QPSK 135_138	633334/3500	100 %	0.093	0.044	-0.03	16.57	17.50	1.239	0.115	22.4
Body worn&Hotspot Test data(Separate 10mm 1RB) DSI0												
Front side	100	CP QPSK 1_1	633334/3500	100 %	0.253	0.113	0.07	19.12	20.50	1.374	0.348	22.1
Back side	100	CP QPSK 1_1	633334/3500	100 %	0.488	0.200	-0.03	19.12	20.50	1.374	0.671	22.1
Right side	100	CP QPSK 1_1	633334/3500	100	0.534	0.227	-0.02	19.12	20.50	1.374	0.734	22.4



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				%								
Body worn&Hotspot Test data(Separate 10mm 50%RB) DSI0												
Front side	100	CP QPSK 135_138	633334/3500	100 %	0.250	0.111	0.14	19.05	20.50	1.396	0.349	22.1
Back side	100	CP QPSK 135_138	633334/3500	100 %	0.453	0.180	-0.11	19.05	20.50	1.396	0.633	22.1
Right side	100	CP QPSK 135_138	633334/3500	100 %	0.497	0.200	-0.07	19.05	20.50	1.396	0.694	22.1
Body worn&Hotspot Test data(Separate 10mm 1RB) DSI2												
Front side	100	CP QPSK 1_1	633334/3500	100 %	0.253	0.113	0.07	19.12	19.50	1.091	0.276	22.1
Back side	100	CP QPSK 1_1	633334/3500	100 %	0.488	0.200	-0.03	19.12	19.50	1.091	0.533	22.1
Right side	100	CP QPSK 1_1	633334/3500	100 %	0.534	0.227	-0.02	19.12	19.50	1.091	0.583	22.4
Body worn&Hotspot Test data(Separate 10mm 50%RB) DSI2												
Front side	100	CP QPSK 135_138	633334/3500	100 %	0.250	0.111	0.14	19.05	19.50	1.109	0.277	22.1
Back side	100	CP QPSK 135_138	633334/3500	100 %	0.453	0.180	-0.11	19.05	19.50	1.109	0.502	22.1
Right side	100	CP QPSK 135_138	633334/3500	100 %	0.497	0.200	-0.07	19.05	19.50	1.109	0.551	22.1

Table 45 : SAR of NR Band n78(3450-3550)MIMO for Head, Body and Hotspot.



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9.2.36 SAR Result of NR Band n78(3700-3800)MIMO

SA N78 SAR Test Record												
Ant3 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI4												
Left cheek	100	CP QPSK 1_1	650000/3750	100 %	0.369	0.179	0.02	18.12	19.00	1.225	0.452	22.4
Left tilted	100	CP QPSK 1_1	650000/3750	100 %	0.137	0.064	0.07	18.12	19.00	1.225	0.168	22.4
Right cheek	100	CP QPSK 1_1	650000/3750	100 %	0.635	0.270	0.09	18.12	19.00	1.225	0.778	22.4
Right tilted	100	CP QPSK 1_1	650000/3750	100 %	0.264	0.119	-0.13	18.12	19.00	1.225	0.323	22.4
Head Test Data (50%RB) DSI4												
Left cheek	100	CP QPSK 135_138	650000/3750	100 %	0.358	0.175	-0.16	18.22	19.00	1.197	0.428	22.4
Left tilted	100	CP QPSK 135_138	650000/3750	100 %	0.168	0.081	0.13	18.22	19.00	1.197	0.201	22.4
Right cheek	100	CP QPSK 135_138	650000/3750	100 %	0.657	0.272	-0.01	18.22	19.00	1.197	0.786	22.4
Right tilted	100	CP QPSK 135_138	650000/3750	100 %	0.304	0.143	0.18	18.22	19.00	1.197	0.364	22.4
Head Test Data (1RB) DSI5												
Left cheek	100	CP QPSK 1_1	650000/3750	100 %	0.369	0.179	0.02	18.12	18.00	0.973	0.359	22.4
Left tilted	100	CP QPSK 1_1	650000/3750	100 %	0.137	0.064	0.07	18.12	18.00	0.973	0.133	22.4
Right cheek	100	CP QPSK 1_1	650000/3750	100 %	0.635	0.270	0.09	18.12	18.00	0.973	0.618	22.4
Right tilted	100	CP QPSK 1_1	650000/3750	100 %	0.264	0.119	-0.13	18.12	18.00	0.973	0.257	22.4
Head Test Data (50%RB) DSI5												
Left cheek	100	CP QPSK 135_138	650000/3750	100 %	0.358	0.175	-0.16	18.22	18.00	0.951	0.340	22.4
Left tilted	100	CP QPSK 135_138	650000/3750	100 %	0.168	0.081	0.13	18.22	18.00	0.951	0.160	22.4
Right cheek	100	CP QPSK 135_138	650000/3750	100 %	0.657	0.272	-0.01	18.22	18.00	0.951	0.625	22.4
Right tilted	100	CP QPSK 135_138	650000/3750	100 %	0.304	0.143	0.18	18.22	18.00	0.951	0.289	22.4
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI0												
Front side	100	CP QPSK 1_137	650000/3750	100 %	0.475	0.275	0.01	21.99	22.50	1.125	0.534	22.1
Back side	100	CP QPSK 1_137	650000/3750	100 %	0.489	0.252	0.06	21.99	22.50	1.125	0.550	22.1
Left side	100	CP QPSK 1_137	650000/3750	100 %	0.623	0.306	-0.06	21.99	22.50	1.125	0.701	22.1



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				%								
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI0												
Front side	100	CP QPSK 135_138	650000/3750	100 %	0.478	0.256	-0.18	22.01	22.50	1.119	0.535	22.1
Back side	100	CP QPSK 135_138	650000/3750	100 %	0.495	0.248	-0.04	22.01	22.50	1.119	0.554	22.1
Left side	100	CP QPSK 135_138	650000/3750	100 %	0.621	0.302	0.18	22.01	22.50	1.119	0.695	22.1
Body worn&Hotspot Test data (Separate 10mm 1RB) DSI2												
Front side	100	CP QPSK 1_137	650000/3750	100 %	0.475	0.275	0.01	21.99	22.00	1.002	0.476	22.1
Back side	100	CP QPSK 1_137	650000/3750	100 %	0.489	0.252	0.06	21.99	22.00	1.002	0.490	22.1
Left side	100	CP QPSK 1_137	650000/3750	100 %	0.623	0.306	-0.06	21.99	22.00	1.002	0.624	22.1
Body worn&Hotspot Test data (Separate 10mm 50%RB) DSI2												
Front side	100	CP QPSK 135_138	650000/3750	100 %	0.478	0.256	-0.18	22.01	22.00	0.998	0.477	22.1
Back side	100	CP QPSK 135_138	650000/3750	100 %	0.495	0.248	-0.04	22.01	22.00	0.998	0.494	22.1
Left side	100	CP QPSK 135_138	650000/3750	100 %	0.621	0.302	0.18	22.01	22.00	0.998	0.620	22.1

Table 46 : SAR of NR Band n78(3700-3800)MIMO for Head, Body and Hotspot.



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9.2.37 SAR Result of WIFI 2.4G

Wi-Fi 2.4G 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)	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	6/2437	98.23%	1.018	0.480	0.247	0.17	13.78	14.50	1.180	0.577	22.4
Left tilted	802.11b	6/2437	98.23%	1.018	0.333	0.162	-0.05	13.78	14.50	1.180	0.400	22.4
Right cheek	802.11b	6/2437	98.23%	1.018	0.136	0.081	0.18	13.78	14.50	1.180	0.163	22.4
Right tilted	802.11b	6/2437	98.23%	1.018	0.122	0.066	0.11	13.78	14.50	1.180	0.147	22.4
Head Test Data Set5												
Left cheek	802.11b	6/2437	98.23%	1.018	0.480	0.247	0.17	13.78	11.50	0.592	0.289	22.4
Left tilted	802.11b	6/2437	98.23%	1.018	0.333	0.162	-0.05	13.78	11.50	0.592	0.201	22.4
Right cheek	802.11b	6/2437	98.23%	1.018	0.136	0.081	0.18	13.78	11.50	0.592	0.082	22.4
Right tilted	802.11b	6/2437	98.23%	1.018	0.122	0.066	0.11	13.78	11.50	0.592	0.073	22.4
Body worn&Hotspot Test data (Separate 10mm) Set0												
Front side	802.11b	1/2412	98.23%	1.018	0.302	0.161	-0.13	17.70	18.50	1.202	0.370	22.4
Back side	802.11b	1/2412	98.23%	1.018	0.327	0.168	-0.12	17.70	18.50	1.202	0.400	22.4
Right side	802.11b	1/2412	98.23%	1.018	0.279	0.149	0.01	17.70	18.50	1.202	0.341	22.4
Top side	802.11b	1/2412	98.23%	1.018	0.131	0.073	0.00	17.70	18.50	1.202	0.160	22.4
Ant10 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	98.23%	1.018	0.008	0.005	0.03	14.29	15.00	1.178	0.010	22.4
Left tilted	802.11b	1/2412	98.23%	1.018	0.042	0.010	-0.03	14.29	15.00	1.178	0.050	22.4
Right cheek	802.11b	1/2412	98.23%	1.018	0.002	0.002	0.03	14.29	15.00	1.178	0.002	22.4
Right tilted	802.11b	1/2412	98.23%	1.018	0.001	0.001	0.04	14.29	15.00	1.178	0.001	22.4
Head Test Data Set5												
Left cheek	802.11b	1/2412	98.23%	1.018	0.008	0.005	0.03	14.29	12.00	0.590	0.005	22.4
Left tilted	802.11b	1/2412	98.23%	1.018	0.042	0.010	-0.03	14.29	12.00	0.590	0.025	22.4
Right cheek	802.11b	1/2412	98.23%	1.018	0.002	0.002	0.03	14.29	12.00	0.590	0.001	22.4
Right tilted	802.11b	1/2412	98.23%	1.018	0.001	0.001	0.04	14.29	12.00	0.590	0.001	22.4
Body worn&Hotspot Test data (Separate 10mm) Set0												
Front side	802.11b	1/2412	98.23%	1.018	0.030	0.010	0.02	18.25	19.00	1.189	0.036	22.4
Back side	802.11b	1/2412	98.23%	1.018	0.127	0.055	-0.02	18.25	19.00	1.189	0.154	22.4
Right side	802.11b	1/2412	98.23%	1.018	0.069	0.034	-0.13	18.25	19.00	1.189	0.083	22.4
Top side	802.11b	1/2412	98.23%	1.018	0.005	0.002	-0.01	18.25	19.00	1.189	0.006	22.4
MIMO Test Record												



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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	98.23%	1.018	0.549	0.280	0.04	16.97	17.50	1.130	0.631	22.4
Left tilted	802.11b	1/2412	98.23%	1.018	0.362	0.183	0.09	16.97	17.50	1.130	0.416	22.4
Right cheek	802.11b	1/2412	98.23%	1.018	0.174	0.109	-0.05	16.97	17.50	1.130	0.200	22.4
Right tilted	802.11b	1/2412	98.23%	1.018	0.135	0.075	-0.17	16.97	17.50	1.130	0.155	22.4
Head Test Data Set5												
Left cheek	802.11b	1/2412	98.23%	1.018	0.549	0.280	0.04	16.97	14.50	0.566	0.316	22.4
Left tilted	802.11b	1/2412	98.23%	1.018	0.362	0.183	0.09	16.97	14.50	0.566	0.209	22.4
Right cheek	802.11b	1/2412	98.23%	1.018	0.174	0.109	-0.05	16.97	14.50	0.566	0.100	22.4
Right tilted	802.11b	1/2412	98.23%	1.018	0.135	0.075	-0.17	16.97	14.50	0.566	0.078	22.4
Body worn&Hotspot Test data (Separate 10mm) Set0												
Front side	802.11b	1/2412	98.23%	1.018	0.340	0.185	0.10	21.01	21.50	1.119	0.387	22.4
Back side	802.11b	1/2412	98.23%	1.018	0.584	0.297	-0.01	21.01	21.50	1.119	0.666	22.4
Right side	802.11b	1/2412	98.23%	1.018	0.003	0.002	-0.08	21.01	21.50	1.119	0.003	22.4
Top side	802.11b	1/2412	98.23%	1.018	0.005	0.004	0.01	21.01	21.50	1.119	0.006	22.4
Body worn&Hotspot Test data (Separate 10mm) Set2												
Front side	802.11b	1/2412	98.23%	1.018	0.340	0.185	0.10	21.01	20.00	0.793	0.274	22.4
Back side	802.11b	1/2412	98.23%	1.018	0.584	0.297	-0.01	21.01	20.00	0.793	0.471	22.4
Right side	802.11b	1/2412	98.23%	1.018	0.003	0.002	-0.08	21.01	20.00	0.793	0.002	22.4
Top side	802.11b	1/2412	98.23%	1.018	0.005	0.004	0.01	21.01	20.00	0.793	0.004	22.4

Table 47 : SAR of WIFI 2.4G for Head, Body and Hotspot.



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9.2.38 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 Scale factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scale SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A Set4												
Left cheek	802.11n 40M	54/5270	99.69 %	1.003	0.890	0.264	-0.03	17.72	18.00	1.067	0.952	22.2
Left tilted	802.11n 40M	54/5270	99.69 %	1.003	0.852	0.262	0.01	17.72	18.00	1.067	0.912	22.2
Right cheek	802.11n 40M	54/5270	99.69 %	1.003	0.297	0.102	0.13	17.72	18.00	1.067	0.318	22.2
Right tilted	802.11n 40M	54/5270	99.69 %	1.003	0.392	0.129	-0.17	17.72	18.00	1.067	0.419	22.2
Head Test Data of U-NII-2C Set4												
Left cheek	802.11ac 80M	138/5690	99.69 %	1.003	0.538	0.169	-0.10	17.96	19.00	1.271	0.686	22.2
Left tilted	802.11ac 80M	138/5690	99.69 %	1.003	0.420	0.131	0.15	17.96	19.00	1.271	0.535	22.2
Right cheek	802.11ac 80M	138/5690	99.69 %	1.003	0.139	0.049	-0.13	17.96	19.00	1.271	0.177	22.2
Right tilted	802.11ac 80M	138/5690	99.69 %	1.003	0.183	0.065	0.18	17.96	19.00	1.271	0.233	22.2
Head Test Data of U-NII-3 Set4												
Left cheek	802.11ac 80M	155/5775	99.69 %	1.003	0.405	0.136	-0.10	17.98	19.00	1.265	0.514	22.2
Left tilted	802.11ac 80M	155/5775	99.69 %	1.003	0.364	0.113	0.15	17.98	19.00	1.265	0.462	22.2
Right cheek	802.11ac 80M	155/5775	99.69 %	1.003	0.133	0.051	0.16	17.98	19.00	1.265	0.169	22.2
Right tilted	802.11ac 80M	155/5775	99.69 %	1.003	0.127	0.049	-0.10	17.98	19.00	1.265	0.161	22.2
Head Test Data of U-NII-2A Set5												
Left cheek	802.11n 40M	54/5270	99.69 %	1.003	0.890	0.288	-0.03	17.72	14.50	0.476	0.425	22.2
Left tilted	802.11n 40M	54/5270	99.69 %	1.003	0.852	0.262	0.01	17.72	14.50	0.476	0.407	22.2
Right cheek	802.11n 40M	54/5270	99.69 %	1.003	0.297	0.102	0.13	17.72	14.50	0.476	0.142	22.2
Right tilted	802.11n 40M	54/5270	99.69 %	1.003	0.392	0.129	-0.17	17.72	14.50	0.476	0.187	22.2
Head Test Data of U-NII-2C Set5												
Left cheek	802.11ac 80M	138/5690	99.69 %	1.003	0.538	0.169	-0.10	17.96	15.50	0.568	0.306	22.2
Left tilted	802.11ac 80M	138/5690	99.69 %	1.003	0.420	0.131	0.15	17.96	15.50	0.568	0.239	22.2
Right cheek	802.11ac 80M	138/5690	99.69 %	1.003	0.139	0.049	-0.13	17.96	15.50	0.568	0.079	22.2



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Right tilted	802.11ac 80M	138/569 0	99.69 %	1.003	0.183	0.065	0.18	17.96	15.50	0.568	0.104	22.2
Head Test Data of U-NII-3 Set5												
Left cheek	802.11ac 80M	155/577 5	99.69 %	1.003	0.405	0.136	-0.10	17.98	15.50	0.565	0.230	22.2
Left tilted	802.11ac 80M	155/577 5	99.69 %	1.003	0.364	0.113	0.15	17.98	15.50	0.565	0.206	22.2
Right cheek	802.11ac 80M	155/577 5	99.69 %	1.003	0.133	0.051	0.16	17.98	15.50	0.565	0.075	22.2
Right tilted	802.11ac 80M	155/577 5	99.69 %	1.003	0.127	0.049	-0.10	17.98	15.50	0.565	0.072	22.2
Body worn Test data of U-NII-2A (Separate 10mm) Set0												
Front side	802.11n 40M	54/5270	99.69 %	1.003	0.131	0.052	0.04	17.72	18.00	1.067	0.140	22.4
Back side	802.11n 40M	54/5270	99.69 %	1.003	0.289	0.124	0.11	17.72	18.00	1.067	0.309	22.4
Body worn Test data of U-NII-2C (Separate 10mm) Set0												
Front side	802.11ac 80M	138/569 0	99.69 %	1.003	0.088	0.036	-0.19	17.96	19.00	1.271	0.112	22.4
Back side	802.11ac 80M	138/569 0	99.69 %	1.003	0.122	0.053	0.00	17.96	19.00	1.271	0.155	22.4
Body worn&Hotspot Test data of U-NII-1 (Separate 10mm) Set0												
Front side	802.11n 40M	46/5230	99.69 %	1.003	0.196	0.074	-0.07	17.65	18.00	1.084	0.213	22.4
Back side	802.11n 40M	46/5230	99.69 %	1.003	0.406	0.157	0.03	17.65	18.00	1.084	0.441	22.4
Right side	802.11n 40M	46/5230	99.69 %	1.003	0.256	0.103	0.07	17.65	18.00	1.084	0.278	22.4
Top side	802.11n 40M	46/5230	99.69 %	1.003	0.250	0.100	-0.16	17.65	18.00	1.084	0.272	22.4
Body worn&Hotspot Test data of U-NII-3 (Separate 10mm) Set0												
Front side	802.11ac 80M	155/577 5	99.69 %	1.003	0.111	0.041	0.03	17.98	19.00	1.265	0.141	22.4
Back side	802.11ac 80M	155/577 5	99.69 %	1.003	0.126	0.049	-0.17	17.98	19.00	1.265	0.160	22.4
Right side	802.11ac 80M	155/577 5	99.69 %	1.003	0.178	0.072	0.03	17.98	19.00	1.265	0.226	22.4
Top side	802.11ac 80M	155/577 5	99.69 %	1.003	0.106	0.040	-0.07	17.98	19.00	1.265	0.134	22.4
Body worn Test data of U-NII-2A (Separate 10mm) Set2												
Front side	802.11n 40M	54/5270	99.69 %	1.003	0.131	0.052	0.04	17.72	15.00	0.535	0.070	22.4
Back side	802.11n 40M	54/5270	99.69 %	1.003	0.289	0.124	0.11	17.72	15.00	0.535	0.155	22.4
Body worn Test data of U-NII-2C (Separate 10mm) Set2												
Front side	802.11ac 80M	138/569 0	99.69 %	1.003	0.088	0.036	-0.19	17.96	16.00	0.637	0.056	22.4
Back side	802.11ac 80M	138/569 0	99.69 %	1.003	0.122	0.053	0.00	17.96	16.00	0.637	0.078	22.4
Body worn&Hotspot Test data of U-NII-1 (Separate 10mm) Set2												
Front side	802.11n 40M	46/5230	99.69 %	1.003	0.196	0.074	-0.07	17.65	16.00	0.684	0.134	22.4



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Back side	802.11n 40M	46/5230	99.69 %	1.003	0.406	0.157	0.03	17.65	16.00	0.684	0.279	22.4
Right side	802.11n 40M	46/5230	99.69 %	1.003	0.256	0.103	0.07	17.65	16.00	0.684	0.176	22.4
Top side	802.11n 40M	46/5230	99.69 %	1.003	0.250	0.100	-0.16	17.65	16.00	0.684	0.172	22.4
Body worn&Hotspot Test data of U-NII-3 (Separate 10mm) Set2												
Front side	802.11ac 80M	155/5775	99.69 %	1.003	0.111	0.041	0.03	17.98	16.00	0.634	0.071	22.4
Back side	802.11ac 80M	155/5775	99.69 %	1.003	0.126	0.049	-0.17	17.98	16.00	0.634	0.080	22.4
Right side	802.11ac 80M	155/5775	99.69 %	1.003	0.178	0.072	0.03	17.98	16.00	0.634	0.113	22.4
Top side	802.11ac 80M	155/5775	99.69 %	1.003	0.106	0.040	-0.07	17.98	16.00	0.634	0.067	22.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scale factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm) Set0												
Front side	802.11n 40M	54/5270	99.69 %	1.003	1.890	0.524	0.00	17.72	18.00	1.067	0.561	22.4
Back side	802.11n 40M	54/5270	99.69 %	1.003	2.620	0.780	-0.12	17.72	18.00	1.067	0.835	22.4
Right side	802.11n 40M	54/5270	99.69 %	1.003	2.130	0.619	0.10	17.72	18.00	1.067	0.662	22.4
Top side	802.11n 40M	54/5270	99.69 %	1.003	2.630	0.650	0.02	17.72	18.00	1.067	0.695	22.4
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) Set0												
Front side	802.11ac 80M	138/5690	99.69 %	1.003	0.953	0.294	0.11	17.96	19.00	1.271	0.375	22.4
Back side	802.11ac 80M	138/5690	99.69 %	1.003	1.220	0.393	-0.07	17.96	19.00	1.271	0.501	22.4
Right side	802.11ac 80M	138/5690	99.69 %	1.003	2.240	0.662	-0.16	17.96	19.00	1.271	0.844	22.4
Top side	802.11ac 80M	138/5690	99.69 %	1.003	0.776	0.208	0.05	17.96	19.00	1.271	0.265	22.4
Ant10 Test Record chain2												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scale factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A Set4												
Left cheek	802.11a	56/5280	99.20 %	1.008	0.154	0.048	0.01	18.68	19.00	1.076	0.167	22.2
Left tilted	802.11a	56/5280	99.20 %	1.008	0.138	0.045	0.12	18.68	19.00	1.076	0.150	22.2
Right cheek	802.11a	56/5280	99.20 %	1.008	0.100	0.041	-0.17	18.68	19.00	1.076	0.109	22.2
Right tilted	802.11a	56/5280	99.20 %	1.008	0.082	0.034	-0.13	18.68	19.00	1.076	0.089	22.2



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Head Test Data of U-NII-2C Set4												
Left cheek	802.11a	144/572 0	99.20 %	1.008	0.100	0.025	-0.08	18.81	19.00	1.045	0.105	22.2
Left tilted	802.11a	144/572 0	99.20 %	1.008	0.116	0.029	0.08	18.81	19.00	1.045	0.122	22.2
Right cheek	802.11a	144/572 0	99.20 %	1.008	0.051	0.019	0.15	18.81	19.00	1.045	0.054	22.2
Right tilted	802.11a	144/572 0	99.20 %	1.008	0.060	0.020	-0.12	18.81	19.00	1.045	0.063	22.2
Head Test Data of U-NII-3 Set4												
Left cheek	802.11a	153/576 5	99.20 %	1.008	0.113	0.028	-0.02	18.82	19.00	1.042	0.119	22.2
Left tilted	802.11a	153/576 5	99.20 %	1.008	0.100	0.028	0.15	18.82	19.00	1.042	0.105	22.2
Right cheek	802.11a	153/576 5	99.20 %	1.008	0.060	0.013	0.12	18.82	19.00	1.042	0.063	22.2
Right tilted	802.11a	153/576 5	99.20 %	1.008	0.080	0.024	-0.09	18.82	19.00	1.042	0.084	22.2
Body worn Test data of U-NII-2A (Separate 10mm) Set0												
Front side	802.11a	56/5280	99.20 %	1.008	0.058	0.013	-0.19	18.68	19.00	1.076	0.063	22.4
Back side	802.11a	56/5280	99.20 %	1.008	0.250	0.091	-0.02	18.68	19.00	1.076	0.271	22.4
Body worn Test data of U-NII-2C (Separate 10mm) Set0												
Front side	802.11a	144/572 0	99.20 %	1.008	0.079	0.018	0.14	18.81	19.00	1.045	0.083	22.4
Back side	802.11a	144/572 0	99.20 %	1.008	0.212	0.081	-0.11	18.81	19.00	1.045	0.223	22.4
Body worn&Hotspot Test data of U-NII-1 (Separate 10mm) Set0												
Front side	802.11a	44/5220	99.20 %	1.008	0.084	0.020	0.16	18.89	19.00	1.026	0.087	22.4
Back side	802.11a	44/5220	99.20 %	1.008	0.373	0.126	-0.13	18.89	19.00	1.026	0.386	22.4
Right side	802.11a	44/5220	99.20 %	1.008	0.230	0.092	-0.11	18.89	19.00	1.026	0.238	22.4
Top side	802.11a	44/5220	99.20 %	1.008	0.074	0.027	-0.05	18.89	19.00	1.026	0.077	22.4
Body worn&Hotspot Test data of U-NII-3 (Separate 10mm) Set0												
Front side	802.11a	153/576 5	99.20 %	1.008	0.060	0.015	-0.12	18.82	19.00	1.042	0.063	22.4
Back side	802.11a	153/576 5	99.20 %	1.008	0.261	0.089	0.15	18.82	19.00	1.042	0.274	22.4
Right side	802.11a	153/576 5	99.20 %	1.008	0.079	0.021	0.07	18.82	19.00	1.042	0.083	22.4
Top side	802.11a	153/576 5	99.20 %	1.008	0.093	0.022	-0.10	18.82	19.00	1.042	0.098	22.4
Body worn Test data of U-NII-2A (Separate 10mm) Set2												
Front side	802.11a	56/5280	99.20 %	1.008	0.058	0.013	-0.19	18.68	16.00	0.540	0.032	22.4
Back side	802.11a	56/5280	99.20 %	1.008	0.250	0.091	-0.02	18.68	16.00	0.540	0.136	22.4
Body worn Test data of U-NII-2C (Separate 10mm) Set2												



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Front side	802.11a	144/5720	99.20%	1.008	0.079	0.018	0.14	18.81	16.00	0.524	0.042	22.4
Back side	802.11a	144/5720	99.20%	1.008	0.212	0.081	-0.11	18.81	16.00	0.524	0.112	22.4
Body worn&Hotspot Test data of U-NII-1 (Separate 10mm) Set2												
Front side	802.11a	44/5220	99.20%	1.008	0.084	0.020	0.16	18.89	16.00	0.514	0.044	22.4
Back side	802.11a	44/5220	99.20%	1.008	0.373	0.126	-0.13	18.89	16.00	0.514	0.193	22.4
Right side	802.11a	44/5220	99.20%	1.008	0.230	0.092	-0.11	18.89	16.00	0.514	0.119	22.4
Top side	802.11a	44/5220	99.20%	1.008	0.074	0.027	-0.05	18.89	16.00	0.514	0.038	22.4
Body worn&Hotspot Test data of U-NII-3 (Separate 10mm) Set2												
Front side	802.11a	153/5765	99.20%	1.008	0.060	0.015	-0.12	18.82	16.00	0.522	0.032	22.4
Back side	802.11a	153/5765	99.20%	1.008	0.261	0.089	0.15	18.82	16.00	0.522	0.137	22.4
Right side	802.11a	153/5765	99.20%	1.008	0.079	0.021	0.07	18.82	16.00	0.522	0.042	22.4
Top side	802.11a	153/5765	99.20%	1.008	0.093	0.022	-0.10	18.82	16.00	0.522	0.049	22.4
Test position	Test mode	Test ch./Freq	Duty Cycle	Duty Cycle Scale factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm) Set0												
Front side	802.11a	56/5280	99.20%	1.008	0.357	0.109	0.01	18.68	19.00	1.076	0.118	22.4
Back side	802.11a	56/5280	99.20%	1.008	2.910	0.719	0.02	18.68	19.00	1.076	0.780	22.4
Right side	802.11a	56/5280	99.20%	1.008	0.709	0.237	-0.14	18.68	19.00	1.076	0.257	22.4
Top side	802.11a	56/5280	99.20%	1.008	0.201	0.069	0.08	18.68	19.00	1.076	0.075	22.4
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) Set0												
Front side	802.11a	144/5720	99.20%	1.008	0.093	0.030	0.02	18.81	19.00	1.045	0.032	22.4
Back side	802.11a	144/5720	99.20%	1.008	2.150	0.674	0.06	18.81	19.00	1.045	0.710	22.4
Right side	802.11a	144/5720	99.20%	1.008	0.502	0.129	0.17	18.81	19.00	1.045	0.136	22.4
Top side	802.11a	144/5720	99.20%	1.008	0.106	0.039	-0.09	18.81	19.00	1.045	0.041	22.4
MIMO Test Record												
Test position	Test mode	Test ch./Freq	Duty Cycle	Duty Cycle Scale factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A Set4												
Left cheek	802.11a	56/5280	99.20	1.008	0.634	0.199	-0.17	20.97	22.00	1.268	0.810	22.2



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			%									
Left tilted	802.11a	56/5280	99.20 %	1.008	0.561	0.175	0.13	20.97	22.00	1.268	0.717	22.2
Right cheek	802.11a	56/5280	99.20 %	1.008	0.181	0.055	-0.03	20.97	22.00	1.268	0.231	22.2
Right tilted	802.11a	56/5280	99.20 %	1.008	0.247	0.089	-0.11	20.97	22.00	1.268	0.316	22.2
Left cheek	802.11a	52/5260	99.20 %	1.008	0.557	0.159	-0.13	20.91	22.00	1.285	0.722	22.2
Head Test Data of U-NII-2C Set4												
Left cheek	802.11a	140/5700	99.20 %	1.008	0.285	0.094	0.08	20.99	22.00	1.262	0.363	22.2
Left tilted	802.11a	140/5700	99.20 %	1.008	0.214	0.068	-0.01	20.99	22.00	1.262	0.272	22.2
Right cheek	802.11a	140/5700	99.20 %	1.008	0.106	0.041	0.18	20.99	22.00	1.262	0.135	22.2
Right tilted	802.11a	140/5700	99.20 %	1.008	0.099	0.037	0.14	20.99	22.00	1.262	0.126	22.2
Head Test Data of U-NII-3 Set4												
Left cheek	802.11a	153/5765	99.20 %	1.008	0.272	0.093	0.02	20.99	22.00	1.262	0.346	22.2
Left tilted	802.11a	153/5765	99.20 %	1.008	0.217	0.070	0.16	20.99	22.00	1.262	0.276	22.2
Right cheek	802.11a	153/5765	99.20 %	1.008	0.098	0.040	0.05	20.99	22.00	1.262	0.125	22.2
Right tilted	802.11a	153/5765	99.20 %	1.008	0.102	0.041	0.10	20.99	22.00	1.262	0.130	22.2
Head Test Data of U-NII-2A Set5												
Left cheek	802.11a	56/5280	99.20 %	1.008	0.634	0.199	-0.17	20.97	18.50	0.566	0.362	22.2
Left tilted	802.11a	56/5280	99.20 %	1.008	0.561	0.175	0.13	20.97	18.50	0.566	0.320	22.2
Right cheek	802.11a	56/5280	99.20 %	1.008	0.181	0.055	-0.03	20.97	18.50	0.566	0.103	22.2
Right tilted	802.11a	56/5280	99.20 %	1.008	0.247	0.089	-0.11	20.97	18.50	0.566	0.141	22.2
Left cheek	802.11a	52/5260	99.20 %	1.008	0.557	0.159	-0.13	20.91	18.50	0.574	0.322	22.2
Head Test Data of U-NII-2C Set5												
Left cheek	802.11a	140/5700	99.20 %	1.008	0.285	0.094	0.08	20.99	18.50	0.564	0.162	22.2
Left tilted	802.11a	140/5700	99.20 %	1.008	0.214	0.068	-0.01	20.99	18.50	0.564	0.122	22.2
Right cheek	802.11a	140/5700	99.20 %	1.008	0.106	0.041	0.18	20.99	18.50	0.564	0.060	22.2
Right tilted	802.11a	140/5700	99.20 %	1.008	0.099	0.037	0.14	20.99	18.50	0.564	0.056	22.2
Head Test Data of U-NII-3 Set5												
Left cheek	802.11a	153/5765	99.20 %	1.008	0.272	0.093	0.02	20.99	18.50	0.564	0.155	22.2
Left tilted	802.11a	153/5765	99.20 %	1.008	0.217	0.070	0.16	20.99	18.50	0.564	0.123	22.2
Right	802.11a	153/5765	99.20 %	1.008	0.098	0.040	0.05	20.99	18.50	0.564	0.056	22.2



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cheek		5	%									
Right tilted	802.11a	153/576 5	99.20 %	1.008	0.102	0.041	0.10	20.99	18.50	0.564	0.058	22.2
Body worn Test data of U-NII-2A (Separate 10mm) Set0												
Front side	802.11a	56/5280	99.20 %	1.008	0.098	0.040	0.02	20.97	22.00	1.268	0.125	22.4
Back side	802.11a	56/5280	99.20 %	1.008	0.392	0.154	-0.11	20.97	22.00	1.268	0.501	22.4
Body worn Test data of U-NII-2C (Separate 10mm) Set0												
Front side	802.11a	140/570 0	99.20 %	1.008	0.097	0.023	0.03	20.99	22.00	1.262	0.123	22.4
Back side	802.11a	140/570 0	99.20 %	1.008	0.238	0.091	0.03	20.99	22.00	1.262	0.303	22.4
Body worn&Hotspot Test data of U-NII-1 (Separate 10mm) Set0												
Front side	802.11a	40/5200	99.20 %	1.008	0.157	0.061	0.02	21.00	22.00	1.259	0.199	22.4
Back side	802.11a	40/5200	99.20 %	1.008	0.494	0.113	0.04	21.00	22.00	1.259	0.627	22.4
Right side	802.11a	40/5200	99.20 %	1.008	0.302	0.128	-0.14	21.00	22.00	1.259	0.383	22.4
Top side	802.11a	40/5200	99.20 %	1.008	0.202	0.078	-0.02	21.00	22.00	1.259	0.256	22.4
Body worn&Hotspot Test data of U-NII-3 (Separate 10mm) Set0												
Front side	802.11a	153/576 5	99.20 %	1.008	0.076	0.029	-0.10	20.99	22.00	1.262	0.097	22.4
Back side	802.11a	153/576 5	99.20 %	1.008	0.281	0.099	0.18	20.99	22.00	1.262	0.357	22.4
Right side	802.11a	153/576 5	99.20 %	1.008	0.155	0.064	-0.05	20.99	22.00	1.262	0.197	22.4
Top side	802.11a	153/576 5	99.20 %	1.008	0.104	0.039	0.03	20.99	22.00	1.262	0.132	22.4
Body worn Test data of U-NII-2A (Separate 10mm) Set2												
Front side	802.11a	56/5280	99.20 %	1.008	0.098	0.040	0.02	20.97	19.00	0.635	0.063	22.4
Back side	802.11a	56/5280	99.20 %	1.008	0.392	0.154	-0.11	20.97	19.00	0.635	0.251	22.4
Body worn Test data of U-NII-2C (Separate 10mm) Set2												
Front side	802.11a	140/570 0	99.20 %	1.008	0.097	0.023	0.03	20.99	19.00	0.632	0.062	22.4
Back side	802.11a	140/570 0	99.20 %	1.008	0.238	0.091	0.03	20.99	19.00	0.632	0.152	22.4
Body worn&Hotspot Test data of U-NII-1 (Separate 10mm) Set2												
Front side	802.11a	40/5200	99.20 %	1.008	0.157	0.061	0.02	21.00	19.00	0.631	0.100	22.4
Back side	802.11a	40/5200	99.20 %	1.008	0.494	0.113	0.04	21.00	19.00	0.631	0.314	22.4
Right side	802.11a	40/5200	99.20 %	1.008	0.302	0.128	-0.14	21.00	19.00	0.631	0.192	22.4
Top side	802.11a	40/5200	99.20 %	1.008	0.202	0.078	-0.02	21.00	19.00	0.631	0.128	22.4
Body worn&Hotspot Test data of U-NII-3 (Separate 10mm) Set2												
Front side	802.11a	153/576	99.20	1.008	0.076	0.029	-0.10	20.99	19.00	0.632	0.048	22.4



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		5	%									
Back side	802.11a	153/576 5	99.20 %	1.008	0.281	0.099	0.18	20.99	19.00	0.632	0.179	22.4
Right side	802.11a	153/576 5	99.20 %	1.008	0.155	0.064	-0.05	20.99	19.00	0.632	0.099	22.4
Top side	802.11a	153/576 5	99.20 %	1.008	0.104	0.039	0.03	20.99	19.00	0.632	0.066	22.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scale factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scale SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm) Set0												
Front side	802.11a	56/5280	99.20 %	1.008	1.080	0.332	-0.02	20.97	22.00	1.268	0.424	22.4
Back side	802.11a	56/5280	99.20 %	1.008	3.480	1.030	0.00	20.97	22.00	1.268	1.316	22.4
Right side	802.11a	56/5280	99.20 %	1.008	1.410	0.509	-0.13	20.97	22.00	1.268	0.650	22.4
Top side	802.11a	56/5280	99.20 %	1.008	1.320	0.371	-0.19	20.97	22.00	1.268	0.474	22.4
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) Set0												
Front side	802.11a	140/570 0	99.20 %	1.008	0.567	0.183	0.01	20.99	22.00	1.262	0.233	22.4
Back side	802.11a	140/570 0	99.20 %	1.008	2.610	0.810	0.08	20.99	22.00	1.262	1.030	22.4
Right side	802.11a	140/570 0	99.20 %	1.008	1.190	0.380	-0.07	20.99	22.00	1.262	0.483	22.4
Top side	802.11a	140/570 0	99.20 %	1.008	0.347	0.106	-0.01	20.99	22.00	1.262	0.135	22.4

Table 48 : SAR of WIFI 5G for Head, Body and Hotspot.



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9.2.39 SAR Result of WIFI 6E

Wi-Fi 6E SAR Test Record													
Ant9 Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scale 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)	Scale factor	Scale SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data Set4													
Left cheek	802.11ax 160M	47/6185	99.71 %	1.003	0.213	0.077	0.08	1.405	15.88	16.00	1.028	0.220	22.1
Left tilted	802.11ax 160M	47/6185	99.71 %	1.003	0.186	0.066	0.11	1.227	15.88	16.00	1.028	0.192	22.1
Right cheek	802.11ax 160M	47/6185	99.71 %	1.003	0.105	0.038	0.04	0.693	15.88	16.00	1.028	0.108	22.1
Right tilted	802.11ax 160M	47/6185	99.71 %	1.003	0.114	0.040	-0.08	0.752	15.88	16.00	1.028	0.118	22.1
Left cheek	802.11ax 160M	15/6025	99.71 %	1.003	0.335	0.095	-0.07	2.210	15.84	16.00	1.038	0.349	22.1
Left cheek	802.11ax 160M	111/6505	99.71 %	1.003	0.265	0.060	0.14	1.748	15.10	16.00	1.230	0.327	22.1
Left cheek	802.11ax 160M	143/6665	99.71 %	1.003	0.296	0.067	-0.13	1.953	15.32	16.00	1.169	0.347	22.1
Left cheek	802.11ax 160M	207/6985	99.71 %	1.003	0.217	0.063	-0.07	1.460	15.06	16.00	1.242	0.270	22.1
Body worn Test data of (Separate 10mm) Set0													
Front side	802.11ax 160M	47/6185	99.71 %	1.003	0.091	0.022	-0.16	0.697	10.88	11.00	1.028	0.094	22.1
Back side	802.11ax 160M	47/6185	99.71 %	1.003	0.120	0.047	-0.11	0.919	10.88	11.00	1.028	0.124	22.1
Back side	802.11ax 160M	15/6025	99.71 %	1.003	0.104	0.043	-0.09	0.953	10.84	11.00	1.038	0.108	22.1
Back side	802.11ax 160M	111/6505	99.71 %	1.003	0.183	0.049	0.01	1.402	10.11	11.00	1.227	0.225	22.1
Back side	802.11ax 160M	143/6665	99.71 %	1.003	0.204	0.055	0.10	1.563	10.30	11.00	1.175	0.240	22.1
Back side	802.11ax 160M	207/6985	99.71 %	1.003	0.231	0.078	0.06	1.770	10.03	11.00	1.250	0.290	22.1
Body worn Test data of (Separate 10mm) Set0													
Front side	802.11ax 160M	47/6185	99.71 %	1.003	0.091	0.022	-0.16	0.697	10.88	9.00	0.649	0.059	22.1
Back side	802.11ax 160M	47/6185	99.71 %	1.003	0.120	0.047	-0.11	0.919	10.88	9.00	0.649	0.078	22.1
Back side	802.11ax 160M	15/6025	99.71 %	1.003	0.104	0.043	-0.09	0.953	10.84	9.00	0.655	0.068	22.1
Back side	802.11ax 160M	111/6505	99.71 %	1.003	0.183	0.049	0.01	1.402	10.11	9.00	0.774	0.142	22.1
Back side	802.11ax 160M	143/6665	99.71 %	1.003	0.204	0.055	0.10	1.563	10.30	9.00	0.741	0.152	22.1
Back side	802.11ax 160M	207/6985	99.71 %	1.003	0.231	0.078	0.06	1.770	10.03	9.00	0.789	0.183	22.1



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Test position	Test mode	Test ch./Frequency	Duty Cycle	Duty Cycle Scale d factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	APD W/m ² (4cm ²)	Conducted Power(dB m)	Tune up Limit(dB m)	Scale d factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of (Separate 0mm) Set0													
Front side	802.11ax 160M	47/6185	99.71 %	1.003	0.723	0.221	-0.13	4.139	10.88	11.00	1.028	0.228	22.1
Back side	802.11ax 160M	47/6185	99.71 %	1.003	1.040	0.232	0.05	5.540	10.88	11.00	1.028	0.239	22.1
Right side	802.11ax 160M	47/6185	99.71 %	1.003	0.775	0.216	-0.01	5.020	10.88	11.00	1.028	0.223	22.1
Top side	802.11ax 160M	47/6185	99.71 %	1.003	0.409	0.128	0.13	2.341	10.88	11.00	1.028	0.132	22.1
Back side	802.11ax 160M	15/6025	99.71 %	1.003	1.090	0.263	0.09	6.240	10.84	11.00	1.038	0.274	22.1
Back side	802.11ax 160M	111/6505	99.71 %	1.003	0.864	0.168	0.08	4.090	10.11	11.00	1.227	0.207	22.1
Back side	802.11ax 160M	143/6665	99.71 %	1.003	0.965	0.187	0.03	4.540	10.30	11.00	1.175	0.220	22.1
Back side	802.11ax 160M	207/6985	99.71 %	1.003	1.040	0.201	0.04	4.890	10.03	11.00	1.250	0.252	22.1
Ant10 Test Record													
Test position	Test mode	Test ch./Frequency	Duty Cycle	Duty Cycle Scale d factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	APD W/m ² (4cm ²)	Conducted Power(dB m)	Tune up Limit(dB m)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data Set4													
Left cheek	802.11ax 160M	143/6665	99.71 %	1.003	0.117	0.042	-0.04	0.723	15.02	16.00	1.253	0.147	22.1
Left tilted	802.11ax 160M	143/6665	99.71 %	1.003	0.145	0.038	-0.09	0.896	15.02	16.00	1.253	0.182	22.1
Right cheek	802.11ax 160M	143/6665	99.71 %	1.003	0.064	0.021	-0.06	0.395	15.02	16.00	1.253	0.080	22.1
Right tilted	802.11ax 160M	143/6665	99.71 %	1.003	0.092	0.031	0.05	0.568	15.02	16.00	1.253	0.116	22.1
Left tilted	802.11ax 160M	47/6185	99.71 %	1.003	0.092	0.020	0.06	0.568	14.86	16.00	1.300	0.120	22.1
Left tilted	802.11ax 160M	79/6345	99.71 %	1.003	0.136	0.032	0.13	0.840	14.95	16.00	1.274	0.174	22.1
Left tilted	802.11ax 160M	111/6505	99.71 %	1.003	0.134	0.032	0.00	0.828	14.66	16.00	1.361	0.183	22.1
Left tilted	802.11ax 160M	207/6985	99.71 %	1.003	0.080	0.023	0.00	0.494	14.93	16.00	1.279	0.103	22.1
Body worn Test data of (Separate 10mm) Set0													
Front side	802.11ax 160M	143/6665	99.71 %	1.003	0.094	0.026	-0.04	0.707	9.97	11.00	1.268	0.120	22.1
Back side	802.11ax 160M	143/6665	99.71 %	1.003	0.375	0.123	-0.05	2.820	9.97	11.00	1.268	0.477	22.1
Back side	802.11ax 160M	47/6185	99.71 %	1.003	0.239	0.066	-0.02	1.797	9.91	11.00	1.285	0.308	22.1



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Back side	802.11ax 160M	79/6345	99.71 %	1.003	0.351	0.105	-0.18	2.640	9.96	11.00	1.271	0.447	22.1
Back side	802.11ax 160M	111/650 5	99.71 %	1.003	0.345	0.106	0.16	2.594	9.71	11.00	1.346	0.466	22.1
Back side	802.11ax 160M	207/698 5	99.71 %	1.003	0.208	0.077	-0.19	1.564	9.90	11.00	1.288	0.269	22.1
Body worn Test data of (Separate 10mm) Set0													
Front side	802.11ax 160M	143/666 5	99.71 %	1.003	0.094	0.026	-0.04	0.707	9.97	9.00	0.800	0.075	22.1
Back side	802.11ax 160M	143/666 5	99.71 %	1.003	0.375	0.123	-0.05	2.820	9.97	9.00	0.800	0.301	22.1
Back side	802.11ax 160M	47/6185	99.71 %	1.003	0.239	0.066	-0.02	1.797	9.91	9.00	0.811	0.194	22.1
Back side	802.11ax 160M	79/6345	99.71 %	1.003	0.351	0.105	-0.18	2.640	9.96	9.00	0.802	0.282	22.1
Back side	802.11ax 160M	111/650 5	99.71 %	1.003	0.345	0.106	0.16	2.594	9.71	9.00	0.849	0.294	22.1
Back side	802.11ax 160M	207/698 5	99.71 %	1.003	0.208	0.077	-0.19	1.564	9.90	9.00	0.813	0.170	22.1
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scale factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	APD W/m ² (4cm ²)	Conducted Power(dB m)	Tune up Limit(dB m)	Scale d factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of (Separate 0mm) Set0													
Front side	802.11ax 160M	143/666 5	99.71 %	1.003	0.135	0.043	0.16	0.626	9.97	11.00	1.268	0.055	22.1
Back side	802.11ax 160M	143/666 5	99.71 %	1.003	3.560	0.692	-0.08	16.50 0	9.97	11.00	1.268	0.880	22.1
Right side	802.11ax 160M	143/666 5	99.71 %	1.003	0.268	0.084	-0.19	1.242	9.97	11.00	1.268	0.107	22.1
Top side	802.11ax 160M	143/666 5	99.71 %	1.003	0.234	0.073	-0.02	1.085	9.97	11.00	1.268	0.093	22.1
Back side	802.11ax 160M	47/6185	99.71 %	1.003	2.270	0.372	0.06	9.140	9.91	11.00	1.285	0.480	22.1
Back side	802.11ax 160M	79/6345	99.71 %	1.003	3.340	0.596	-0.07	14.50 0	9.96	11.00	1.271	0.759	22.1
Back side	802.11ax 160M	111/650 5	99.71 %	1.003	3.310	0.598	-0.02	14.40 0	9.71	11.00	1.346	0.807	22.1
Back side	802.11ax 160M	207/698 5	99.71 %	1.003	1.980	0.434	0.01	10.10 0	9.90	11.00	1.288	0.561	22.1
MIMO Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scale factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	APD W/m ² (4cm ²)	Conducted Power(dB m)	Tune up Limit(dB m)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data Set4													
Left cheek	802.11ax 160M	47/6185	99.71 %	1.003	0.301	0.105	-0.01	2.219	18.39	19.00	1.151	0.347	22.1
Left tilted	802.11ax 160M	47/6185	99.71 %	1.003	0.204	0.079	-0.15	1.504	18.39	19.00	1.151	0.235	22.1



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Right cheek	802.11ax 160M	47/6185	99.71 %	1.003	0.139	0.048	-0.07	1.025	18.39	19.00	1.151	0.160	22.1
Right tilted	802.11ax 160M	47/6185	99.71 %	1.003	0.156	0.055	0.02	1.150	18.39	19.00	1.151	0.180	22.1
Left cheek	802.11ax 160M	15/6025	99.71 %	1.003	0.247	0.098	-0.17	1.821	18.32	19.00	1.169	0.290	22.1
Left cheek	802.11ax 160M	111/650 5	99.71 %	1.003	0.395	0.122	-0.04	2.912	17.90	19.00	1.288	0.510	22.1
Left cheek	802.11ax 160M	143/666 5	99.71 %	1.003	0.426	0.138	-0.02	3.140	18.16	19.00	1.213	0.518	22.1
Left cheek	802.11ax 160M	207/698 5	99.71 %	1.003	0.226	0.096	-0.09	1.666	18.04	19.00	1.247	0.283	22.1
Head Test Data Set5													
Left cheek	802.11ax 160M	47/6185	99.71 %	1.003	0.301	0.105	-0.01	2.219	18.39	18.00	0.914	0.276	22.1
Left tilted	802.11ax 160M	47/6185	99.71 %	1.003	0.204	0.079	-0.15	1.504	18.39	18.00	0.914	0.187	22.1
Right cheek	802.11ax 160M	47/6185	99.71 %	1.003	0.139	0.048	-0.07	1.025	18.39	18.00	0.914	0.127	22.1
Right tilted	802.11ax 160M	47/6185	99.71 %	1.003	0.156	0.055	0.02	1.150	18.39	18.00	0.914	0.143	22.1
Left cheek	802.11ax 160M	15/6025	99.71 %	1.003	0.247	0.098	-0.17	1.821	18.32	18.00	0.929	0.230	22.1
Left cheek	802.11ax 160M	111/650 5	99.71 %	1.003	0.395	0.122	-0.04	2.912	17.90	18.00	1.023	0.405	22.1
Left cheek	802.11ax 160M	143/666 5	99.71 %	1.003	0.426	0.138	-0.02	3.140	18.16	18.00	0.964	0.412	22.1
Left cheek	802.11ax 160M	207/698 5	99.71 %	1.003	0.226	0.096	-0.09	1.666	18.04	18.00	0.991	0.225	22.1
Body worn Test data of (Separate 10mm) Set0													
Front side	802.11ax 160M	47/6185	99.71 %	1.003	0.105	0.040	-0.15	0.871	13.42	14.00	1.143	0.120	22.1
Back side	802.11ax 160M	47/6185	99.71 %	1.003	0.321	0.115	-0.03	2.663	13.42	14.00	1.143	0.368	22.1
Back side	802.11ax 160M	15/6025	99.71 %	1.003	0.258	0.116	-0.01	2.140	13.35	14.00	1.161	0.301	22.1
Back side	802.11ax 160M	111/650 5	99.71 %	1.003	0.389	0.145	-0.01	3.435	12.87	14.00	1.297	0.506	22.1
Back side	802.11ax 160M	143/666 5	99.71 %	1.003	0.446	0.164	0.05	3.700	13.17	14.00	1.211	0.541	22.1
Back side	802.11ax 160M	207/698 5	99.71 %	1.003	0.236	0.115	-0.17	1.958	13.00	14.00	1.259	0.298	22.1
Body worn Test data of (Separate 10mm) Set2													
Front side	802.11ax 160M	47/6185	99.71 %	1.003	0.105	0.040	-0.15	0.871	13.42	12.00	0.721	0.076	22.1
Back side	802.11ax 160M	47/6185	99.71 %	1.003	0.321	0.115	-0.03	2.663	13.42	12.00	0.721	0.232	22.1
Back side	802.11ax 160M	15/6025	99.71 %	1.003	0.258	0.116	-0.01	2.140	13.35	12.00	0.733	0.190	22.1
Back side	802.11ax 160M	111/650 5	99.71 %	1.003	0.389	0.145	-0.01	3.435	12.87	12.00	0.818	0.319	22.1
Back side	802.11ax 160M	143/666 5	99.71 %	1.003	0.446	0.164	0.05	3.700	13.17	12.00	0.764	0.342	22.1
Back side	802.11ax 160M	207/698	99.71	1.003	0.236	0.115	-0.17	1.958	13.00	12.00	0.794	0.188	22.1



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Test position	Test mode	Test ch./Frequency	%	Duty Cycle	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)	Scale d factor	Scale d SAR 10-g (W/kg)	Liquid Temp.(℃)
Product specific 10gSAR Test data of (Separate 0mm) Set0													
Front side	802.11ax 160M	47/6185	99.71 %	1.003	0.852	0.276	0.11	4.207	13.42	14.00	1.143	0.316	22.1
Back side	802.11ax 160M	47/6185	99.71 %	1.003	2.430	0.513	0.16	12.000	13.42	14.00	1.143	0.588	22.1
Right side	802.11ax 160M	47/6185	99.71 %	1.003	1.141	0.360	-0.15	5.635	13.42	14.00	1.143	0.413	22.1
Top side	802.11ax 160M	47/6185	99.71 %	1.003	0.651	0.193	0.10	3.215	13.42	14.00	1.143	0.221	22.1
Back side	802.11ax 160M	15/6025	99.71 %	1.003	1.880	0.504	-0.04	11.400	13.35	14.00	1.161	0.587	22.1
Back side	802.11ax 160M	111/6505	99.71 %	1.003	3.010	0.628	0.01	14.400	12.87	14.00	1.297	0.817	22.1
Back side	802.11ax 160M	143/6665	99.71 %	1.003	3.240	0.709	0.03	16.600	13.17	14.00	1.211	0.861	22.1
Back side	802.11ax 160M	207/6985	99.71 %	1.003	1.720	0.498	0.02	11.300	13.00	14.00	1.259	0.629	22.1

Table 49 : SAR of WIFI 6G for Head, Body and Hotspot.



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9.2.40 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	77.01%	1.299	0.326	0.161	0.05	12.57	13.00	1.104	0.467	22.4
Left tilted	DH5	39/2441	77.01%	1.299	0.172	0.084	-0.18	12.57	13.00	1.104	0.247	22.2
Right cheek	DH5	39/2441	77.01%	1.299	0.069	0.042	0.05	12.57	13.00	1.104	0.099	22.2
Right tilted	DH5	39/2441	77.01%	1.299	0.064	0.035	0.11	12.57	13.00	1.104	0.092	22.2
Body worn&Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	77.01%	1.299	0.067	0.032	-0.09	12.57	13.00	1.104	0.096	22.4
Back side	DH5	39/2441	77.01%	1.299	0.123	0.059	-0.03	12.57	13.00	1.104	0.176	22.4
Right side	DH5	39/2441	77.01%	1.299	0.077	0.040	0.09	12.57	13.00	1.104	0.110	22.4
Top side	DH5	39/2441	77.01%	1.299	0.076	0.038	0.05	12.57	13.00	1.104	0.109	22.4
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	77.01%	1.299	0.004	0.001	-0.02	13.34	14.00	1.164	0.006	22.2
Left tilted	DH5	39/2441	77.01%	1.299	0.003	0.002	-0.16	13.34	14.00	1.164	0.005	22.2
Right cheek	DH5	39/2441	77.01%	1.299	0.041	0.017	0.07	13.34	14.00	1.164	0.062	22.2
Right tilted	DH5	39/2441	77.01%	1.299	0.008	0.004	0.03	13.34	14.00	1.164	0.012	22.2
Body worn&Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	77.01%	1.299	0.064	0.030	-0.07	13.34	14.00	1.164	0.097	22.4
Back side	DH5	39/2441	77.01%	1.299	0.104	0.045	0.07	13.34	14.00	1.164	0.157	22.4
Right side	DH5	39/2441	77.01%	1.299	0.081	0.044	0.08	13.34	14.00	1.164	0.122	22.4
Top side	DH5	39/2441	77.01%	1.299	0.078	0.039	-0.13	13.34	14.00	1.164	0.118	22.4

Table 50 : SAR of BT for Head, Body and Hotspot.

9.3 Measurement of PD Data

9.3.1 PD Result of WIFI 6E

Wi-Fi 6E PD Test Record Ant9													
Test position	Test mode	Test ch./Freq.	Distance (mm)	Grid Step (λ)	Duty Cycle	Duty Cycle Scaled factor	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	47/6185	2	0.0625	99.71%	1.003	1.05	0.03	10.88	11.00	1.5493	1.028	1.677
Back side	802.11ax 160M	47/6185	2	0.0625	99.71%	1.003	1.63	0.17	10.88	11.00	1.5493	1.028	2.604
Right side	802.11ax 160M	47/6185	2	0.0625	99.71%	1.003	2.07	0.01	10.88	11.00	1.5493	1.028	3.307
Top side	802.11ax 160M	47/6185	2	0.0625	99.71%	1.003	1.02	0.02	10.88	11.00	1.5493	1.028	1.629
Right side	802.11ax 160M	15/6025	2	0.0625	99.71%	1.003	1.87	0.04	10.84	11.00	1.5493	1.038	3.015
Right side	802.11ax 160M	111/6505	2	0.0625	99.71%	1.003	1.71	-0.04	10.11	11.00	1.5493	1.227	3.262
Right side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	1.80	-0.03	10.30	11.00	1.5493	1.175	3.286
Right side	802.11ax 160M	207/6985	2	0.0625	99.71%	1.003	1.35	-0.05	10.03	11.00	1.5493	1.250	2.623
Wi-Fi 6E PD Test Record Ant10													
Test position	Test mode	Test ch./Freq.	Distance (mm)	Grid Step (λ)	Duty Cycle	Duty Cycle Scaled factor	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	0.14	0.06	9.97	11.00	1.5493	1.268	0.280
Back side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	3.11	-0.19	9.97	11.00	1.5493	1.268	6.126
Right side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	0.74	0.08	9.97	11.00	1.5493	1.268	1.460
Top side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	0.62	0.05	9.97	11.00	1.5493	1.268	1.221
Back side	802.11ax 160M	47/6185	2	0.0625	99.71%	1.003	1.88	-0.08	9.91	11.00	1.5493	1.285	3.755
Back side	802.11ax 160M	79/6345	2	0.0625	99.71%	1.003	2.66	0.01	9.96	11.00	1.5493	1.271	5.252
Back side	802.11ax 160M	111/6505	2	0.0625	99.71%	1.003	2.19	-0.08	9.71	11.00	1.5493	1.346	4.580
Back side	802.11ax 160M	207/6985	2	0.0625	99.71%	1.003	3.39	0.02	9.90	11.00	1.5493	1.288	6.786
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	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	47/6185	2	0.0625	99.71%	1.003	1.12	0.07	13.42	14.00	1.5493	1.143	1.989
Back side	802.11ax 160M	47/6185	2	0.0625	99.71%	1.003	4.30	0.01	13.42	14.00	1.5493	1.143	7.637
Right side	802.11ax 160M	47/6185	2	0.0625	99.71%	1.003	4.35	0.19	13.42	14.00	1.5493	1.143	7.725
Top side	802.11ax 160M	47/6185	2	0.0625	99.71%	1.003	1.08	0.07	13.42	14.00	1.5493	1.143	1.918
Right side	802.11ax 160M	15/6025	2	0.0625	99.71%	1.003	2.96	0.07	13.35	14.00	1.5493	1.161	5.342
Right side	802.11ax 160M	111/6505	2	0.0625	99.71%	1.003	3.07	-0.06	12.87	14.00	1.5493	1.297	6.188
Right side	802.11ax 160M	143/6665	2	0.0625	99.71%	1.003	4.71	0.15	13.17	14.00	1.5493	1.211	8.860
Right side	802.11ax 160M	207/6985	2	0.0625	99.71%	1.003	3.50	-0.03	13.00	14.00	1.5493	1.259	6.847



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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	Yes	Yes	Yes
17	WWAN+BT+NFC	Yes	Yes	Yes	Yes
18	WWAN+WIFI5G+NFC	Yes	Yes	Yes	Yes
19	WWAN + WLAN 5G/6E(chain 0) + BT(chain 0)+NFC	Yes	Yes	Yes	Yes
20	WWAN + WLAN 5G/6E(chain 1) + BT(chain 0)+NFC	Yes	Yes	Yes	Yes
21	WWAN + WLAN 5G/6E MIMO + BT(chain 0)+NFC	Yes	Yes	Yes	Yes
22	WWAN + WLAN 5G/6E(chain 0) + BT(chain 1)+NFC	Yes	Yes	Yes	Yes
23	WWAN + WLAN 5G/6E(chain 1) + BT(chain 1)+NFC	Yes	Yes	Yes	Yes
24	WWAN + WLAN 5G/6EMIMO + BT(chain 1)+NFC	Yes	Yes	Yes	Yes
25	WLAN 5G/6E(chain 0) + BT(chain 0)+NFC	Yes	Yes	Yes	Yes
26	WLAN 5G/6E(chain 1) + BT(chain 0)+NFC	Yes	Yes	Yes	Yes
27	WLAN 5G/6E MIMO + BT(chain 0)+NFC	Yes	Yes	Yes	Yes
28	WLAN 5G/6E(chain 0) + BT(chain 1)+NFC	Yes	Yes	Yes	Yes
29	WLAN 5G/6E(chain 1) + BT(chain 1)+NFC	Yes	Yes	Yes	Yes



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30	WLAN 5G/6EMIMO + BT(chain 1)+NFC	Yes	Yes	Yes	Yes
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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.: SUCR240600020101).
- 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

NR MIMO Standalone

NR Band Standalone	Exposure position	Ant3	Ant7	Summed SAR
N77 (3450-3550) MIMO	Left cheek	0.375	0.295	0.670
	Left Tilt	0.116	0.190	0.306
	Right cheek	0.624	0.355	0.979
	Right Tilt	0.195	0.106	0.301

NR Band Standalone	Exposure position	Ant3	Ant7	Summed SAR
N77 (3700-3980) MIMO	Left cheek	0.329	0.282	0.611
	Left Tilt	0.098	0.201	0.299
	Right cheek	0.803	0.356	1.159
	Right Tilt	0.166	0.112	0.278

NR Band Standalone	Exposure position	Ant3	Ant7	Summed SAR
N78 (3450-3550) MIMO	Left cheek	0.375	0.343	0.718
	Left Tilt	0.116	0.243	0.359
	Right cheek	0.624	0.412	1.036
	Right Tilt	0.195	0.129	0.324

NR Band Standalone	Exposure position	Ant3	Ant7	Summed SAR
N78 (3700-3800) MIMO	Left cheek	0.452	0.282	0.734
	Left Tilt	0.201	0.201	0.402
	Right cheek	0.786	0.356	1.142
	Right Tilt	0.364	0.112	0.476

NR Band Standalone	Exposure position	Ant3	Ant7	Summed SAR
N77 (3450-3550) MIMO	Front side	0.365	0.330	0.695
	Back side	0.531	0.577	1.108
	Left side	0.579	/	0.579
	Right side	/	0.534	0.534



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	Top side	/	/	/
	Bottom side	/	/	/

NR Band Standalone	Exposure position	Ant3	Ant7	Summed SAR
N77 (3700-3980) MIMO	Front side	0.689	0.234	0.923
	Back side	0.620	0.752	1.372
	Left side	0.778	/	0.778
	Right side	/	0.364	0.364
	Top side	/	/	/
	Bottom side	/	/	/

NR Band Standalone	Exposure position	Ant3	Ant7	Summed SAR
N78 (3450-3550) MIMO	Front side	0.365	0.349	0.714
	Back side	0.531	0.671	1.202
	Left side	0.579	/	0.579
	Right side	/	0.734	0.734
	Top side	/	/	/
	Bottom side	/	/	/

NR Band Standalone	Exposure position	Ant3	Ant7	Summed SAR
N78 (3700-3800) MIMO	Front side	0.535	0.234	0.769
	Back side	0.554	0.752	1.306
	Left side	0.701	/	0.701
	Right side	/	0.364	0.364
	Top side	/	/	/
	Bottom side	/	/	/

NR MIMO Simultaneous transmission

NR Band Simultaneous transmission	Exposure position	Ant3	Ant7	Summed SAR
N77 (3450-3550) MIMO	Left cheek	0.375	0.263	0.638
	Left Tilt	0.116	0.169	0.285
	Right cheek	0.624	0.317	0.941
	Right Tilt	0.195	0.095	0.290



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NR Band Simultaneous transmission	Exposure position	Ant3	Ant7	Summed SAR
N77 (3700-3980) MIMO	Left cheek	0.262	0.282	0.544
	Left Tilt	0.078	0.201	0.279
	Right cheek	0.638	0.356	0.994
	Right Tilt	0.132	0.112	0.244

NR Band Simultaneous transmission	Exposure position	Ant3	Ant7	Summed SAR
N78 (3450-3550) MIMO	Left cheek	0.375	0.306	0.681
	Left Tilt	0.116	0.217	0.333
	Right cheek	0.624	0.368	0.992
	Right Tilt	0.195	0.115	0.310

NR Band Simultaneous transmission	Exposure position	Ant3	Ant7	Summed SAR
N78 (3700-3800) MIMO	Left cheek	0.359	0.282	0.641
	Left Tilt	0.160	0.201	0.361
	Right cheek	0.625	0.356	0.981
	Right Tilt	0.289	0.112	0.401

NR Band Simultaneous transmission	Exposure position	Ant3	Ant7	Summed SAR
N77 (3450-3550) MIMO	Front side	0.326	0.294	0.620
	Back side	0.474	0.514	0.988
	Left side	0.516	/	0.516
	Right side	/	0.476	0.476
	Top side	/	/	/
	Bottom side	/	/	/

NR Band Simultaneous transmission	Exposure position	Ant3	Ant7	Summed SAR
N77 (3700-3980) MIMO	Front side	0.547	0.165	0.712
	Back side	0.493	0.532	1.025
	Left side	0.618	/	0.618
	Right side	/	0.258	0.258
	Top side	/	/	/
	Bottom	/	/	/



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	side			
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NR Band Simultaneous transmission	Exposure position	Ant3	Ant7	Summed SAR
N78 (3450-3550) MIMO	Front side	0.326	0.277	0.603
	Back side	0.474	0.533	1.007
	Left side	0.516	/	0.516
	Right side	/	0.583	0.583
	Top side	/	/	/
	Bottom side	/	/	/

NR Band Simultaneous transmission	Exposure position	Ant3	Ant7	Summed SAR
N78 (3700-3800) MIMO	Front side	0.477	0.165	0.642
	Back side	0.494	0.532	1.026
	Left side	0.624	/	0.624
	Right side	/	0.258	0.258
	Top side	/	/	/
	Bottom side	/	/	/

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	0.952	0.167	0.810	0.467	0.006	1.419	0.634	1.277	0.958	0.173	0.816
	Left tilted	0.912	0.192	0.717	0.247	0.005	1.159	0.439	0.964	0.917	0.197	0.722
	Right cheek	0.318	0.109	0.231	0.099	0.062	0.417	0.208	0.330	0.380	0.171	0.293
	Right tilted	0.419	0.118	0.316	0.092	0.012	0.511	0.210	0.408	0.431	0.130	0.328



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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	0.531	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.459	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.745	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.477	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
GSM 1900	Left cheek	0.428	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.471	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.909	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.535	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
WCDMA B2	Left cheek	0.450	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.441	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.911	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.568	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
WCDMA B4	Left cheek	0.518	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.436	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	1.034	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.589	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
WCDMA B5	Left cheek	0.443	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.432	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.637	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.426	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band7	Left cheek	0.243	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.153	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	1.003	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.474	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band12	Left cheek	0.594	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.496	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.444	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.338	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band13	Left cheek	0.631	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.611	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.618	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.395	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band14	Left cheek	0.565	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.481	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.501	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.332	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band25	Left cheek	0.594	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.492	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.961	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.596	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band26	Left cheek	0.555	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.495	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.713	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.429	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012



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LTE Band30	Left cheek	0.245	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.260	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.768	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.597	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band41	Left cheek	0.144	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.093	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.828	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.373	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band42	Left cheek	0.515	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.116	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.809	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.186	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band48	Left cheek	0.239	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.172	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.863	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.297	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band66	Left cheek	0.519	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.480	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	1.040	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.631	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
LTE Band71	Left cheek	0.599	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.524	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.638	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.351	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N7	Left cheek	0.226	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.137	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.850	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.407	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N14	Left cheek	0.681	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.555	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.661	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.482	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N25	Left cheek	0.435	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.495	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.793	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.534	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N26	Left cheek	0.525	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.480	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.780	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.434	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N30	Left cheek	0.310	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.353	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	1.133	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.683	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N41	Left cheek	0.152	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.100	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.790	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.281	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N48	Left cheek	0.633	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006



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	Left tilted	0.200	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.804	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.366	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N66	Left cheek	0.488	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.450	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	1.039	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.631	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N70	Left cheek	0.399	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.117	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.277	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.141	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N71	Left cheek	0.668	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.564	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.546	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.374	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N77 (3450-3550) SISO	Left cheek	0.557	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.316	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.815	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.411	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N77 (3700-3980) SISO	Left cheek	0.641	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.467	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.951	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.235	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N77 (3450-3550) MIMO	Left cheek	0.638	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.285	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.941	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.290	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
NR N77 (3700-3980) MIMO	Left cheek	0.544	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.279	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.994	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.244	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
N78 (3450-3550) SISO	Left cheek	0.663	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.444	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.719	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.247	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
N78 (3450-3550) MIMO	Left cheek	0.681	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.333	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.992	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.310	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012
N78 (3700-3800) MIMO	Left cheek	0.641	0.289	0.005	0.316	0.425	0.167	0.412	0.467	0.006
	Left tilted	0.361	0.201	0.025	0.209	0.407	0.192	0.320	0.247	0.005
	Right cheek	0.981	0.082	0.001	0.100	0.142	0.109	0.127	0.099	0.062
	Right tilted	0.401	0.073	0.001	0.078	0.187	0.118	0.143	0.092	0.012



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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	0.820	0.536	0.847	0.956	0.698	0.943	0.998	0.537	1.423	1.165	1.410	0.962	0.704	0.949
	Left tilted	0.660	0.484	0.668	0.866	0.651	0.779	0.706	0.464	1.113	0.898	1.026	0.871	0.656	0.784
	Right cheek	0.827	0.746	0.845	0.887	0.854	0.872	0.844	0.807	0.986	0.953	0.971	0.949	0.916	0.934
	Right tilted	0.550	0.478	0.555	0.664	0.595	0.620	0.569	0.489	0.756	0.687	0.712	0.676	0.607	0.632
GSM 1900	Left cheek	0.717	0.433	0.744	0.853	0.595	0.840	0.895	0.434	1.320	1.062	1.307	0.859	0.601	0.846
	Left tilted	0.672	0.496	0.680	0.878	0.663	0.791	0.718	0.476	1.125	0.910	1.038	0.883	0.668	0.796
	Right cheek	0.991	0.910	1.009	1.051	1.018	1.036	1.008	0.971	1.150	1.117	1.135	1.113	1.080	1.098
	Right tilted	0.608	0.536	0.613	0.722	0.653	0.678	0.627	0.547	0.814	0.745	0.770	0.734	0.665	0.690
WCDMA B2	Left cheek	0.739	0.455	0.766	0.875	0.617	0.862	0.917	0.456	1.342	1.084	1.329	0.881	0.623	0.868
	Left tilted	0.642	0.466	0.650	0.848	0.633	0.761	0.688	0.446	1.095	0.880	1.008	0.853	0.638	0.766
	Right cheek	0.993	0.912	1.011	1.053	1.020	1.038	1.010	0.973	1.152	1.119	1.137	1.115	1.082	1.100
	Right tilted	0.641	0.569	0.646	0.755	0.686	0.711	0.660	0.580	0.847	0.778	0.803	0.767	0.698	0.723
WCDMA B4	Left cheek	0.807	0.523	0.834	0.943	0.685	0.930	0.985	0.524	1.410	1.152	1.397	0.949	0.691	0.936
	Left tilted	0.637	0.461	0.645	0.843	0.628	0.756	0.683	0.441	1.090	0.875	1.003	0.848	0.633	0.761
	Right cheek	1.116	1.035	1.134	1.176	1.143	1.161	1.133	1.096	1.275	1.242	1.260	1.238	1.205	1.223
	Right tilted	0.662	0.590	0.667	0.776	0.707	0.732	0.681	0.601	0.868	0.799	0.824	0.788	0.719	0.744
WCDMA B5	Left cheek	0.732	0.448	0.759	0.868	0.610	0.855	0.910	0.449	1.335	1.077	1.322	0.874	0.616	0.861
	Left tilted	0.633	0.457	0.641	0.839	0.624	0.752	0.679	0.437	1.086	0.871	0.999	0.844	0.629	0.757
	Right cheek	0.719	0.638	0.737	0.779	0.746	0.764	0.736	0.699	0.878	0.845	0.863	0.841	0.808	0.826
	Right tilted	0.499	0.427	0.504	0.613	0.544	0.569	0.518	0.438	0.705	0.636	0.661	0.625	0.556	0.581
LTE Band7	Left cheek	0.532	0.248	0.559	0.668	0.410	0.655	0.710	0.249	1.135	0.877	1.122	0.674	0.416	0.661
	Left tilted	0.354	0.178	0.362	0.560	0.345	0.473	0.400	0.158	0.807	0.592	0.720	0.565	0.350	0.478
	Right cheek	1.085	1.004	1.103	1.145	1.112	1.130	1.102	1.065	1.244	1.211	1.229	1.207	1.174	1.192
	Right tilted	0.547	0.475	0.552	0.661	0.592	0.617	0.566	0.486	0.753	0.684	0.709	0.673	0.604	0.629
LTE Band12	Left cheek	0.883	0.599	0.910	1.019	0.761	1.006	1.061	0.600	1.486	1.228	1.473	1.025	0.767	1.012
	Left tilted	0.697	0.521	0.705	0.903	0.688	0.816	0.743	0.501	1.150	0.935	1.063	0.908	0.693	0.821
	Right cheek	0.526	0.445	0.544	0.586	0.553	0.571	0.543	0.506	0.685	0.652	0.670	0.648	0.615	0.633
	Right tilted	0.411	0.339	0.416	0.525	0.456	0.481	0.430	0.350	0.617	0.548	0.573	0.537	0.468	0.493
LTE Band13	Left cheek	0.920	0.636	0.947	1.056	0.798	1.043	1.098	0.637	1.523	1.265	1.510	1.062	0.804	1.049
	Left tilted	0.812	0.636	0.820	1.018	0.803	0.931	0.858	0.616	1.265	1.050	1.178	1.023	0.808	0.936
	Right cheek	0.700	0.619	0.718	0.760	0.727	0.745	0.717	0.680	0.859	0.826	0.844	0.822	0.789	0.807
	Right tilted	0.468	0.396	0.473	0.582	0.513	0.538	0.487	0.407	0.674	0.605	0.630	0.594	0.525	0.550
LTE Band14	Left cheek	0.854	0.570	0.881	0.990	0.732	0.977	1.032	0.571	1.457	1.199	1.444	0.996	0.738	0.983
	Left tilted	0.682	0.506	0.690	0.888	0.673	0.801	0.728	0.486	1.135	0.920	1.048	0.893	0.678	0.806
	Right cheek	0.583	0.502	0.601	0.643	0.610	0.628	0.600	0.563	0.742	0.709	0.727	0.705	0.672	0.690
	Right tilted	0.405	0.333	0.410	0.519	0.450	0.475	0.424	0.344	0.611	0.542	0.567	0.531	0.462	0.487
LTE Band25	Left cheek	0.883	0.599	0.910	1.019	0.761	1.006	1.061	0.600	1.486	1.228	1.473	1.025	0.767	1.012
	Left tilted	0.693	0.517	0.701	0.899	0.684	0.812	0.739	0.497	1.146	0.931	1.059	0.904	0.689	0.817
	Right cheek	1.043	0.962	1.061	1.103	1.070	1.088	1.060	1.023	1.202	1.169	1.187	1.165	1.132	1.150
	Right tilted	0.669	0.597	0.674	0.783	0.714	0.739	0.688	0.608	0.875	0.806	0.831	0.795	0.726	0.751
LTE Band26	Left cheek	0.844	0.560	0.871	0.980	0.722	0.967	1.022	0.561	1.447	1.189	1.434	0.986	0.728	0.973
	Left tilted	0.696	0.520	0.704	0.902	0.687	0.815	0.742	0.500	1.149	0.934	1.062	0.907	0.692	0.820
	Right cheek	0.795	0.714	0.813	0.855	0.822	0.840	0.812	0.775	0.954	0.921	0.939	0.917	0.884	0.902
	Right tilted	0.502	0.430	0.507	0.616	0.547	0.572	0.521	0.441	0.708	0.639	0.664	0.628	0.559	0.584
LTE	Left cheek	0.534	0.250	0.561	0.670	0.412	0.657	0.712	0.251	1.137	0.879	1.124	0.676	0.418	0.663



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Band30	Left tilted	0.461	0.285	0.469	0.667	0.452	0.580	0.507	0.265	0.914	0.699	0.827	0.672	0.457	0.585
	Right cheek	0.850	0.769	0.868	0.910	0.877	0.895	0.867	0.830	1.009	0.976	0.994	0.972	0.939	0.957
	Right tilted	0.670	0.598	0.675	0.784	0.715	0.740	0.689	0.609	0.876	0.807	0.832	0.796	0.727	0.752
LTE Band41	Left cheek	0.433	0.149	0.460	0.569	0.311	0.556	0.611	0.150	1.036	0.778	1.023	0.575	0.317	0.562
	Left tilted	0.294	0.118	0.302	0.500	0.285	0.413	0.340	0.098	0.747	0.532	0.660	0.505	0.290	0.418
	Right cheek	0.910	0.829	0.928	0.970	0.937	0.955	0.927	0.890	1.069	1.036	1.054	1.032	0.999	1.017
	Right tilted	0.446	0.374	0.451	0.560	0.491	0.516	0.465	0.385	0.652	0.583	0.608	0.572	0.503	0.528
LTE Band42	Left cheek	0.804	0.520	0.831	0.940	0.682	0.927	0.982	0.521	1.407	1.149	1.394	0.946	0.688	0.933
	Left tilted	0.317	0.141	0.325	0.523	0.308	0.436	0.363	0.121	0.770	0.555	0.683	0.528	0.313	0.441
	Right cheek	0.891	0.810	0.909	0.951	0.918	0.936	0.908	0.871	1.050	1.017	1.035	1.013	0.980	0.998
	Right tilted	0.259	0.187	0.264	0.373	0.304	0.329	0.278	0.198	0.465	0.396	0.421	0.385	0.316	0.341
LTE Band48	Left cheek	0.528	0.244	0.555	0.664	0.406	0.651	0.706	0.245	1.131	0.873	1.118	0.670	0.412	0.657
	Left tilted	0.373	0.197	0.381	0.579	0.364	0.492	0.419	0.177	0.826	0.611	0.739	0.584	0.369	0.497
	Right cheek	0.945	0.864	0.963	1.005	0.972	0.990	0.962	0.925	1.104	1.071	1.089	1.067	1.034	1.052
	Right tilted	0.370	0.298	0.375	0.484	0.415	0.440	0.389	0.309	0.576	0.507	0.532	0.496	0.427	0.452
LTE Band66	Left cheek	0.808	0.524	0.835	0.944	0.686	0.931	0.986	0.525	1.411	1.153	1.398	0.950	0.692	0.937
	Left tilted	0.681	0.505	0.689	0.887	0.672	0.800	0.727	0.485	1.134	0.919	1.047	0.892	0.677	0.805
	Right cheek	1.122	1.041	1.140	1.182	1.149	1.167	1.139	1.102	1.281	1.248	1.266	1.244	1.211	1.229
	Right tilted	0.704	0.632	0.709	0.818	0.749	0.774	0.723	0.643	0.910	0.841	0.866	0.830	0.761	0.786
LTE Band71	Left cheek	0.888	0.604	0.915	1.024	0.766	1.011	1.066	0.605	1.491	1.233	1.478	1.030	0.772	1.017
	Left tilted	0.725	0.549	0.733	0.931	0.716	0.844	0.771	0.529	1.178	0.963	1.091	0.936	0.721	0.849
	Right cheek	0.720	0.639	0.738	0.780	0.747	0.765	0.737	0.700	0.879	0.846	0.864	0.842	0.809	0.827
	Right tilted	0.424	0.352	0.429	0.538	0.469	0.494	0.443	0.363	0.630	0.561	0.586	0.550	0.481	0.506
NR N7	Left cheek	0.515	0.231	0.542	0.651	0.393	0.638	0.693	0.232	1.118	0.860	1.105	0.657	0.399	0.644
	Left tilted	0.338	0.162	0.346	0.544	0.329	0.457	0.384	0.142	0.791	0.576	0.704	0.549	0.334	0.462
	Right cheek	0.932	0.851	0.950	0.992	0.959	0.977	0.949	0.912	1.091	1.058	1.076	1.054	1.021	1.039
	Right tilted	0.480	0.408	0.485	0.594	0.525	0.550	0.499	0.419	0.686	0.617	0.642	0.606	0.537	0.562
NR N14	Left cheek	0.970	0.686	0.997	1.106	0.848	1.093	1.148	0.687	1.573	1.315	1.560	1.112	0.854	1.099
	Left tilted	0.756	0.580	0.764	0.962	0.747	0.875	0.802	0.560	1.209	0.994	1.122	0.967	0.752	0.880
	Right cheek	0.743	0.662	0.761	0.803	0.770	0.788	0.760	0.723	0.902	0.869	0.887	0.865	0.832	0.850
	Right tilted	0.555	0.483	0.560	0.669	0.600	0.625	0.574	0.494	0.761	0.692	0.717	0.681	0.612	0.637
NR N25	Left cheek	0.724	0.440	0.751	0.860	0.602	0.847	0.902	0.441	1.327	1.069	1.314	0.866	0.608	0.853
	Left tilted	0.696	0.520	0.704	0.902	0.687	0.815	0.742	0.500	1.149	0.934	1.062	0.907	0.692	0.820
	Right cheek	0.875	0.794	0.893	0.935	0.902	0.920	0.892	0.855	1.034	1.001	1.019	0.997	0.964	0.982
	Right tilted	0.607	0.535	0.612	0.721	0.652	0.677	0.626	0.546	0.813	0.744	0.769	0.733	0.664	0.689
NR N26	Left cheek	0.814	0.530	0.841	0.950	0.692	0.937	0.992	0.531	1.417	1.159	1.404	0.956	0.698	0.943
	Left tilted	0.681	0.505	0.689	0.887	0.672	0.800	0.727	0.485	1.134	0.919	1.047	0.892	0.677	0.805
	Right cheek	0.862	0.781	0.880	0.922	0.889	0.907	0.879	0.842	1.021	0.988	1.006	0.984	0.951	0.969
	Right tilted	0.507	0.435	0.512	0.621	0.552	0.577	0.526	0.446	0.713	0.644	0.669	0.633	0.564	0.589
NR N30	Left cheek	0.599	0.315	0.626	0.735	0.477	0.722	0.777	0.316	1.202	0.944	1.189	0.741	0.483	0.728
	Left tilted	0.554	0.378	0.562	0.760	0.545	0.673	0.600	0.358	1.007	0.792	0.920	0.765	0.550	0.678
	Right cheek	1.215	1.134	1.233	1.275	1.242	1.260	1.232	1.195	1.374	1.341	1.359	1.337	1.304	1.322
	Right tilted	0.756	0.684	0.761	0.870	0.801	0.826	0.775	0.695	0.962	0.893	0.918	0.882	0.813	0.838
NR N41	Left cheek	0.441	0.157	0.468	0.577	0.319	0.564	0.619	0.158	1.044	0.786	1.031	0.583	0.325	0.570
	Left tilted	0.301	0.125	0.309	0.507	0.292	0.420	0.347	0.105	0.754	0.539	0.667	0.512	0.297	0.425
	Right cheek	0.872	0.791	0.890	0.932	0.899	0.917	0.889	0.852	1.031	0.998	1.016	0.994	0.961	0.979
	Right tilted	0.354	0.282	0.359	0.468	0.399	0.424	0.373	0.293	0.560	0.491	0.516	0.480	0.411	0.436
NR N48	Left cheek	0.922	0.638	0.949	1.058	0.800	1.045	1.100	0.639	1.525	1.267	1.512	1.064	0.806	1.051
	Left tilted	0.401	0.225	0.409	0.607	0.392	0.520	0.447	0.205	0.854	0.639	0.767	0.612	0.397	0.525



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	Right cheek	0.886	0.805	0.904	0.946	0.913	0.931	0.903	0.866	1.045	1.012	1.030	1.008	0.975	0.993
	Right tilted	0.439	0.367	0.444	0.553	0.484	0.509	0.458	0.378	0.645	0.576	0.601	0.565	0.496	0.521
NR N66	Left cheek	0.777	0.493	0.804	0.913	0.655	0.900	0.955	0.494	1.380	1.122	1.367	0.919	0.661	0.906
	Left tilted	0.651	0.475	0.659	0.857	0.642	0.770	0.697	0.455	1.104	0.889	1.017	0.862	0.647	0.775
	Right cheek	1.121	1.040	1.139	1.181	1.148	1.166	1.138	1.101	1.280	1.247	1.265	1.243	1.210	1.228
	Right tilted	0.704	0.632	0.709	0.818	0.749	0.774	0.723	0.643	0.910	0.841	0.866	0.830	0.761	0.786
NR N70	Left cheek	0.688	0.404	0.715	0.824	0.566	0.811	0.866	0.405	1.291	1.033	1.278	0.830	0.572	0.817
	Left tilted	0.318	0.142	0.326	0.524	0.309	0.437	0.364	0.122	0.771	0.556	0.684	0.529	0.314	0.442
	Right cheek	0.359	0.278	0.377	0.419	0.386	0.404	0.376	0.339	0.518	0.485	0.503	0.481	0.448	0.466
	Right tilted	0.214	0.142	0.219	0.328	0.259	0.284	0.233	0.153	0.420	0.351	0.376	0.340	0.271	0.296
NR N71	Left cheek	0.957	0.673	0.984	1.093	0.835	1.080	1.135	0.674	1.560	1.302	1.547	1.099	0.841	1.086
	Left tilted	0.765	0.589	0.773	0.971	0.756	0.884	0.811	0.569	1.218	1.003	1.131	0.976	0.761	0.889
	Right cheek	0.628	0.547	0.646	0.688	0.655	0.673	0.645	0.608	0.787	0.754	0.772	0.750	0.717	0.735
	Right tilted	0.447	0.375	0.452	0.561	0.492	0.517	0.466	0.386	0.653	0.584	0.609	0.573	0.504	0.529
NR N77 (3450-3550) SISO	Left cheek	0.846	0.562	0.873	0.982	0.724	0.969	1.024	0.563	1.449	1.191	1.436	0.988	0.730	0.975
	Left tilted	0.517	0.341	0.525	0.723	0.508	0.636	0.563	0.321	0.970	0.755	0.883	0.728	0.513	0.641
	Right cheek	0.897	0.816	0.915	0.957	0.924	0.942	0.914	0.877	1.056	1.023	1.041	1.019	0.986	1.004
	Right tilted	0.484	0.412	0.489	0.598	0.529	0.554	0.503	0.423	0.690	0.621	0.646	0.610	0.541	0.566
NR N77 (3700-3980) SISO	Left cheek	0.930	0.646	0.957	1.066	0.808	1.053	1.108	0.647	1.533	1.275	1.520	1.072	0.814	1.059
	Left tilted	0.668	0.492	0.676	0.874	0.659	0.787	0.714	0.472	1.121	0.906	1.034	0.879	0.664	0.792
	Right cheek	1.033	0.952	1.051	1.093	1.060	1.078	1.050	1.013	1.192	1.159	1.177	1.155	1.122	1.140
	Right tilted	0.308	0.236	0.313	0.422	0.353	0.378	0.327	0.247	0.514	0.445	0.470	0.434	0.365	0.390
NR N77 (3450-3550) MIMO	Left cheek	0.927	0.643	0.954	1.063	0.805	1.050	1.105	0.644	1.530	1.272	1.517	1.069	0.811	1.056
	Left tilted	0.486	0.310	0.494	0.692	0.477	0.605	0.532	0.290	0.939	0.724	0.852	0.697	0.482	0.610
	Right cheek	1.023	0.942	1.041	1.083	1.050	1.068	1.040	1.003	1.182	1.149	1.167	1.145	1.112	1.130
	Right tilted	0.363	0.291	0.368	0.477	0.408	0.433	0.382	0.302	0.569	0.500	0.525	0.489	0.420	0.445
NR N77 (3700-3980) MIMO	Left cheek	0.833	0.549	0.860	0.969	0.711	0.956	1.011	0.550	1.436	1.178	1.423	0.975	0.717	0.962
	Left tilted	0.480	0.304	0.488	0.686	0.471	0.599	0.526	0.284	0.933	0.718	0.846	0.691	0.476	0.604
	Right cheek	1.076	0.995	1.094	1.136	1.103	1.121	1.093	1.056	1.235	1.202	1.220	1.198	1.165	1.183
	Right tilted	0.317	0.245	0.322	0.431	0.362	0.387	0.336	0.256	0.523	0.454	0.479	0.443	0.374	0.399
N78 (3450-3550) SISO	Left cheek	0.952	0.668	0.979	1.088	0.830	1.075	1.130	0.669	1.555	1.297	1.542	1.094	0.836	1.081
	Left tilted	0.645	0.469	0.653	0.851	0.636	0.764	0.691	0.449	1.098	0.883	1.011	0.856	0.641	0.769
	Right cheek	0.801	0.720	0.819	0.861	0.828	0.846	0.818	0.781	0.960	0.927	0.945	0.923	0.890	0.908
	Right tilted	0.320	0.248	0.325	0.434	0.365	0.390	0.339	0.259	0.526	0.457	0.482	0.446	0.377	0.402
N78 (3450-3550) MIMO	Left cheek	0.970	0.686	0.997	1.106	0.848	1.093	1.148	0.687	1.573	1.315	1.560	1.112	0.854	1.099
	Left tilted	0.534	0.358	0.542	0.740	0.525	0.653	0.580	0.338	0.987	0.772	0.900	0.745	0.530	0.658
	Right cheek	1.074	0.993	1.092	1.134	1.101	1.119	1.091	1.054	1.233	1.200	1.218	1.196	1.163	1.181
	Right tilted	0.383	0.311	0.388	0.497	0.428	0.453	0.402	0.322	0.589	0.520	0.545	0.509	0.440	0.465
N78 (3700-3800) MIMO	Left cheek	0.930	0.646	0.957	1.066	0.808	1.053	1.108	0.647	1.533	1.275	1.520	1.072	0.814	1.059
	Left tilted	0.562	0.386	0.570	0.768	0.553	0.681	0.608	0.366	1.015	0.800	0.928	0.773	0.558	0.686
	Right cheek	1.063	0.982	1.081	1.123	1.090	1.108	1.080	1.043	1.222	1.189	1.207	1.185	1.152	1.170
	Right tilted	0.474	0.402	0.479	0.588	0.519	0.544	0.493	0.413	0.680	0.611	0.636	0.600	0.531	0.556



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Body Worn&Hotspot:

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	0.213	0.120	0.199	0.096	0.097	0.309	0.216	0.295	0.310	0.217	0.296
	Back side	0.441	0.477	0.627	0.176	0.157	0.617	0.653	0.803	0.598	0.634	0.784
	Left side	/	/	/	/	/	/	/	/	/	/	/
	Right side	0.278	0.238	0.383	0.110	0.122	0.388	0.348	0.493	0.400	0.360	0.505
	Top side	0.272	0.098	0.256	0.109	0.118	0.381	0.207	0.365	0.390	0.216	0.374
	Bottom side	/	/	/	/	/	/	/	/	/	/	/



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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	0.582	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.572	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.086	/	/	/	/	/	/	/	/
	Right side	0.225	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.423	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
GSM 1900	Front side	0.600	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.489	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.338	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.733	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
WCDMA B2	Front side	0.707	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.653	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.484	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.917	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
WCDMA B4	Front side	0.703	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.709	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.438	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.710	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
WCDMA B5	Front side	0.692	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.656	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.109	/	/	/	/	/	/	/	/
	Right side	0.203	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.437	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band2	Front side	0.782	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.962	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	1.102	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	0.309	/	/	/	/	/	/	/	/
LTE Band7	Front side	0.479	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.400	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.768	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.149	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	0.175	/	/	/	/	/	/	/	/
LTE Band12	Front side	0.262	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.291	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157



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	Left side	0.084	/	/	/	/	/	/	/	/
	Right side	0.194	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.189	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band13	Front side	0.495	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.504	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.100	/	/	/	/	/	/	/	/
	Right side	0.288	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.351	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band14	Front side	0.531	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.522	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.108	/	/	/	/	/	/	/	/
	Right side	0.303	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.429	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band25	Front side	0.715	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.942	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.997	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.916	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	0.256	/	/	/	/	/	/	/	/
LTE Band26	Front side	0.671	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.632	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.123	/	/	/	/	/	/	/	/
	Right side	0.179	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.454	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band30	Front side	0.423	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.477	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.550	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.251	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band38	Front side	0.342	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.368	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.608	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.049	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band41	Front side	0.257	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.508	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.664	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.115	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band42	Front side	0.481	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.685	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.791	/	/	/	/	/	/	/	/



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	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band48	Front side	0.469	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.521	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.708	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
LTE Band66	Front side	0.750	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.784	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.723	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	1.003	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	0.310	/	/	/	/	/	/	/	/
LTE Band71	Front side	0.226	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.237	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.090	/	/	/	/	/	/	/	/
	Right side	0.150	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.147	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N7	Front side	0.509	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.570	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.633	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.179	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	0.155	/	/	/	/	/	/	/	/
NR N14	Front side	0.530	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.514	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.141	/	/	/	/	/	/	/	/
	Right side	0.332	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.406	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N25	Front side	0.579	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.517	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.375	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.852	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N26	Front side	0.886	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.713	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.128	/	/	/	/	/	/	/	/
	Right side	0.258	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.544	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N30	Front side	0.313	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.341	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.349	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122



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	Top side	0.203	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N41	Front side	0.509	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.704	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.947	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.183	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N48	Front side	0.541	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.581	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.800	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N66	Front side	0.620	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.688	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.392	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.752	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N70	Front side	0.667	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.745	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.640	/	/	/	/	/	/	/	/
	Right side	/	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	0.338	/	/	/	/	/	/	/	/
NR N71	Front side	0.359	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.339	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.101	/	/	/	/	/	/	/	/
	Right side	0.217	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	0.225	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N77 (3450-3550) SISO	Front side	0.714	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	1.029	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	1.036	/	/	/	/	/	/	/	/
	Right side	0.758	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N77 (3700-3980) SISO	Front side	0.771	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.888	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.951	/	/	/	/	/	/	/	/
	Right side	0.745	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
NR N77 (3450-3550) MIMO	Front side	0.620	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.988	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.516	/	/	/	/	/	/	/	/
	Right side	0.476	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118



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	Bottom side	/	/	/	/	/	/	/	/	/
NR N77 (3700-3980) MIMO	Front side	0.712	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	1.025	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.618	/	/	/	/	/	/	/	/
	Right side	0.258	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
N78 (3450-3550) SISO	Front side	0.425	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	0.771	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	/	/	/	/	/	/	/	/	/
	Right side	0.760	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
N78 (3450-3550) MIMO	Front side	0.603	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	1.007	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.516	/	/	/	/	/	/	/	/
	Right side	0.583	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	Bottom side	/	/	/	/	/	/	/	/	/
N78 (3700-3800) MIMO	Front side	0.642	0.370	0.036	0.274	0.134	0.075	0.100	0.096	0.097
	Back side	1.026	0.400	0.154	0.471	0.279	0.301	0.342	0.176	0.157
	Left side	0.624	/	/	/	/	/	/	/	/
	Right side	0.258	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122
	Top side	/	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118
	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	0.952	0.618	0.856	0.716	0.657	0.682	0.678	0.679	0.812	0.753	0.778	0.813	0.754	0.779
	0.972	0.726	1.043	0.851	0.873	0.914	0.748	0.729	1.027	1.049	1.090	1.008	1.030	1.071
	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
	0.566	0.308	0.227	0.401	0.344	0.417	0.335	0.347	0.511	0.454	0.527	0.523	0.466	0.539
	0.583	0.429	0.427	0.595	0.472	0.551	0.532	0.541	0.704	0.581	0.660	0.713	0.590	0.669
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
GSM 1900	0.970	0.636	0.874	0.734	0.675	0.700	0.696	0.697	0.830	0.771	0.796	0.831	0.772	0.797
	0.889	0.643	0.960	0.768	0.790	0.831	0.665	0.646	0.944	0.966	1.007	0.925	0.947	0.988
	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.893	0.739	0.737	0.905	0.782	0.861	0.842	0.851	1.014	0.891	0.970	1.023	0.900	0.979
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
WCDMA B2	1.077	0.743	0.981	0.841	0.782	0.807	0.803	0.804	0.937	0.878	0.903	0.938	0.879	0.904
	1.053	0.807	1.124	0.932	0.954	0.995	0.829	0.810	1.108	1.130	1.171	1.089	1.111	1.152
	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	1.077	0.923	0.921	1.089	0.966	1.045	1.026	1.035	1.198	1.075	1.154	1.207	1.084	1.163
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
WCDMA B4	1.073	0.739	0.977	0.837	0.778	0.803	0.799	0.800	0.933	0.874	0.899	0.934	0.875	0.900
	1.109	0.863	1.180	0.988	1.010	1.051	0.885	0.866	1.164	1.186	1.227	1.145	1.167	1.208
	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438	0.438
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.870	0.716	0.714	0.882	0.759	0.838	0.819	0.828	0.991	0.868	0.947	1.000	0.877	0.956
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
WCDMA B5	1.062	0.728	0.966	0.826	0.767	0.792	0.788	0.789	0.922	0.863	0.888	0.923	0.864	0.889
	1.056	0.810	1.127	0.935	0.957	0.998	0.832	0.813	1.111	1.133	1.174	1.092	1.114	1.155
	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109
	0.544	0.286	0.205	0.379	0.322	0.395	0.313	0.325	0.489	0.432	0.505	0.501	0.444	0.517
	0.597	0.443	0.441	0.609	0.486	0.565	0.546	0.555	0.718	0.595	0.674	0.727	0.604	0.683
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band2	1.152	0.818	1.056	0.916	0.857	0.882	0.878	0.879	1.012	0.953	0.978	1.013	0.954	0.979
	1.362	1.116	1.433	1.241	1.263	1.304	1.138	1.119	1.417	1.439	1.480	1.398	1.420	1.461
	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
LTE Band7	0.849	0.515	0.753	0.613	0.554	0.579	0.575	0.576	0.709	0.650	0.675	0.710	0.651	0.676
	0.800	0.554	0.871	0.679	0.701	0.742	0.576	0.557	0.855	0.877	0.918	0.836	0.858	0.899
	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768	0.768
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.309	0.155	0.153	0.321	0.198	0.277	0.258	0.267	0.430	0.307	0.386	0.439	0.316	0.395
	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175
LTE Band12	0.632	0.298	0.536	0.396	0.337	0.362	0.358	0.359	0.492	0.433	0.458	0.493	0.434	0.459
	0.691	0.445	0.762	0.570	0.592	0.633	0.467	0.448	0.746	0.768	0.809	0.727	0.749	0.790
	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084



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	0.535	0.277	0.196	0.370	0.313	0.386	0.304	0.316	0.480	0.423	0.496	0.492	0.435	0.508
	0.349	0.195	0.193	0.361	0.238	0.317	0.298	0.307	0.470	0.347	0.426	0.479	0.356	0.435
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band13	0.865	0.531	0.769	0.629	0.570	0.595	0.591	0.592	0.725	0.666	0.691	0.726	0.667	0.692
	0.904	0.658	0.975	0.783	0.805	0.846	0.680	0.661	0.959	0.981	1.022	0.940	0.962	1.003
	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
	0.629	0.371	0.290	0.464	0.407	0.480	0.398	0.410	0.574	0.517	0.590	0.586	0.529	0.602
	0.511	0.357	0.355	0.523	0.400	0.479	0.460	0.469	0.632	0.509	0.588	0.641	0.518	0.597
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band14	0.901	0.567	0.805	0.665	0.606	0.631	0.627	0.628	0.761	0.702	0.727	0.762	0.703	0.728
	0.922	0.676	0.993	0.801	0.823	0.864	0.698	0.679	0.977	0.999	1.040	0.958	0.980	1.021
	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108
	0.644	0.386	0.305	0.479	0.422	0.495	0.413	0.425	0.589	0.532	0.605	0.601	0.544	0.617
	0.589	0.435	0.433	0.601	0.478	0.557	0.538	0.547	0.710	0.587	0.666	0.719	0.596	0.675
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band25	1.085	0.751	0.989	0.849	0.790	0.815	0.811	0.812	0.945	0.886	0.911	0.946	0.887	0.912
	1.342	1.096	1.413	1.221	1.243	1.284	1.118	1.099	1.397	1.419	1.460	1.378	1.400	1.441
	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	1.076	0.922	0.920	1.088	0.965	1.044	1.025	1.034	1.197	1.074	1.153	1.206	1.083	1.162
	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256
LTE Band26	1.041	0.707	0.945	0.805	0.746	0.771	0.767	0.768	0.901	0.842	0.867	0.902	0.843	0.868
	1.032	0.786	1.103	0.911	0.933	0.974	0.808	0.789	1.087	1.109	1.150	1.068	1.090	1.131
	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123
	0.520	0.262	0.181	0.355	0.298	0.371	0.289	0.301	0.465	0.408	0.481	0.477	0.420	0.493
	0.614	0.460	0.458	0.626	0.503	0.582	0.563	0.572	0.735	0.612	0.691	0.744	0.621	0.700
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band30	0.793	0.459	0.697	0.557	0.498	0.523	0.519	0.520	0.653	0.594	0.619	0.654	0.595	0.620
	0.877	0.631	0.948	0.756	0.778	0.819	0.653	0.634	0.932	0.954	0.995	0.913	0.935	0.976
	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550	0.550
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.411	0.257	0.255	0.423	0.300	0.379	0.360	0.369	0.532	0.409	0.488	0.541	0.418	0.497
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band38	0.712	0.378	0.616	0.476	0.417	0.442	0.438	0.439	0.572	0.513	0.538	0.573	0.514	0.539
	0.768	0.522	0.839	0.647	0.669	0.710	0.544	0.525	0.823	0.845	0.886	0.804	0.826	0.867
	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.209	0.055	0.053	0.221	0.098	0.177	0.158	0.167	0.330	0.207	0.286	0.339	0.216	0.295
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band41	0.627	0.293	0.531	0.391	0.332	0.357	0.353	0.354	0.487	0.428	0.453	0.488	0.429	0.454
	0.908	0.662	0.979	0.787	0.809	0.850	0.684	0.665	0.963	0.985	1.026	0.944	0.966	1.007
	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.275	0.121	0.119	0.287	0.164	0.243	0.224	0.233	0.396	0.273	0.352	0.405	0.282	0.361
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band42	0.851	0.517	0.755	0.615	0.556	0.581	0.577	0.578	0.711	0.652	0.677	0.712	0.653	0.678
	1.085	0.839	1.156	0.964	0.986	1.027	0.861	0.842	1.140	1.162	1.203	1.121	1.143	1.184
	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314



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	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band48	0.839	0.505	0.743	0.603	0.544	0.569	0.565	0.566	0.699	0.640	0.665	0.700	0.641	0.666
	0.921	0.675	0.992	0.800	0.822	0.863	0.697	0.678	0.976	0.998	1.039	0.957	0.979	1.020
	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
LTE Band66	1.120	0.786	1.024	0.884	0.825	0.850	0.846	0.847	0.980	0.921	0.946	0.981	0.922	0.947
	1.184	0.938	1.255	1.063	1.085	1.126	0.960	0.941	1.239	1.261	1.302	1.220	1.242	1.283
	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723	0.723
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	1.163	1.009	1.007	1.175	1.052	1.131	1.112	1.121	1.284	1.161	1.240	1.293	1.170	1.249
	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310
LTE Band71	0.596	0.262	0.500	0.360	0.301	0.326	0.322	0.323	0.456	0.397	0.422	0.457	0.398	0.423
	0.637	0.391	0.708	0.516	0.538	0.579	0.413	0.394	0.692	0.714	0.755	0.673	0.695	0.736
	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
	0.491	0.233	0.152	0.326	0.269	0.342	0.260	0.272	0.436	0.379	0.452	0.448	0.391	0.464
	0.307	0.153	0.151	0.319	0.196	0.275	0.256	0.265	0.428	0.305	0.384	0.437	0.314	0.393
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N7	0.879	0.545	0.783	0.643	0.584	0.609	0.605	0.606	0.739	0.680	0.705	0.740	0.681	0.706
	0.970	0.724	1.041	0.849	0.871	0.912	0.746	0.727	1.025	1.047	1.088	1.006	1.028	1.069
	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.339	0.185	0.183	0.351	0.228	0.307	0.288	0.297	0.460	0.337	0.416	0.469	0.346	0.425
	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155
NR N14	0.900	0.566	0.804	0.664	0.605	0.630	0.626	0.627	0.760	0.701	0.726	0.761	0.702	0.727
	0.914	0.668	0.985	0.793	0.815	0.856	0.690	0.671	0.969	0.991	1.032	0.950	0.972	1.013
	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
	0.673	0.415	0.334	0.508	0.451	0.524	0.442	0.454	0.618	0.561	0.634	0.630	0.573	0.646
	0.566	0.412	0.410	0.578	0.455	0.534	0.515	0.524	0.687	0.564	0.643	0.696	0.573	0.652
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N25	0.949	0.615	0.853	0.713	0.654	0.679	0.675	0.676	0.809	0.750	0.775	0.810	0.751	0.776
	0.917	0.671	0.988	0.796	0.818	0.859	0.693	0.674	0.972	0.994	1.035	0.953	0.975	1.016
	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	1.012	0.858	0.856	1.024	0.901	0.980	0.961	0.970	1.133	1.010	1.089	1.142	1.019	1.098
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N26	1.256	0.922	1.160	1.020	0.961	0.986	0.982	0.983	1.116	1.057	1.082	1.117	1.058	1.083
	1.113	0.867	1.184	0.992	1.014	1.055	0.889	0.870	1.168	1.190	1.231	1.149	1.171	1.212
	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
	0.599	0.341	0.260	0.434	0.377	0.450	0.368	0.380	0.544	0.487	0.560	0.556	0.499	0.572
	0.704	0.550	0.548	0.716	0.593	0.672	0.653	0.662	0.825	0.702	0.781	0.834	0.711	0.790
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N30	0.683	0.349	0.587	0.447	0.388	0.413	0.409	0.410	0.543	0.484	0.509	0.544	0.485	0.510
	0.741	0.495	0.812	0.620	0.642	0.683	0.517	0.498	0.796	0.818	0.859	0.777	0.799	0.840
	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.363	0.209	0.207	0.375	0.252	0.331	0.312	0.321	0.484	0.361	0.440	0.493	0.370	0.449
	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N41	0.879	0.545	0.783	0.643	0.584	0.609	0.605	0.606	0.739	0.680	0.705	0.740	0.681	0.706
	1.104	0.858	1.175	0.983	1.005	1.046	0.880	0.861	1.159	1.181	1.222	1.140	1.162	1.203
	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.343	0.189	0.187	0.355	0.232	0.311	0.292	0.301	0.464	0.341	0.420	0.473	0.350	0.429
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N48	0.911	0.577	0.815	0.675	0.616	0.641	0.637	0.638	0.771	0.712	0.737	0.772	0.713	0.738
	0.981	0.735	1.052	0.860	0.882	0.923	0.757	0.738	1.036	1.058	1.099	1.017	1.039	1.080
	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N66	0.990	0.656	0.894	0.754	0.695	0.720	0.716	0.717	0.850	0.791	0.816	0.851	0.792	0.817
	1.088	0.842	1.159	0.967	0.989	1.030	0.864	0.845	1.143	1.165	1.206	1.124	1.146	1.187
	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.912	0.758	0.756	0.924	0.801	0.880	0.861	0.870	1.033	0.910	0.989	1.042	0.919	0.998
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N70	1.037	0.703	0.941	0.801	0.742	0.767	0.763	0.764	0.897	0.838	0.863	0.898	0.839	0.864
	1.145	0.899	1.216	1.024	1.046	1.087	0.921	0.902	1.200	1.222	1.263	1.181	1.203	1.244
	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640
	0.341	0.083	0.002	0.176	0.119	0.192	0.110	0.122	0.286	0.229	0.302	0.298	0.241	0.314
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338
NR N71	0.729	0.395	0.633	0.493	0.434	0.459	0.455	0.456	0.589	0.530	0.555	0.590	0.531	0.556
	0.739	0.493	0.810	0.618	0.640	0.681	0.515	0.496	0.794	0.816	0.857	0.775	0.797	0.838
	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101
	0.558	0.300	0.219	0.393	0.336	0.409	0.327	0.339	0.503	0.446	0.519	0.515	0.458	0.531
	0.385	0.231	0.229	0.397	0.274	0.353	0.334	0.343	0.506	0.383	0.462	0.515	0.392	0.471
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N77 (3450-3550) SISO	1.084	0.750	0.988	0.848	0.789	0.814	0.810	0.811	0.944	0.885	0.910	0.945	0.886	0.911
	1.429	1.183	1.500	1.308	1.330	1.371	1.205	1.186	1.484	1.506	1.547	1.465	1.487	1.528
	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036
	1.099	0.841	0.760	0.934	0.877	0.950	0.868	0.880	1.044	0.987	1.060	1.056	0.999	1.072
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N77 (3700-3980) SISO	1.141	0.807	1.045	0.905	0.846	0.871	0.867	0.868	1.001	0.942	0.967	1.002	0.943	0.968
	1.288	1.042	1.359	1.167	1.189	1.230	1.064	1.045	1.343	1.365	1.406	1.324	1.346	1.387
	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951	0.951
	1.086	0.828	0.747	0.921	0.864	0.937	0.855	0.867	1.031	0.974	1.047	1.043	0.986	1.059
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
NR N77 (3450-3550) MIMO	0.990	0.656	0.894	0.754	0.695	0.720	0.716	0.717	0.850	0.791	0.816	0.851	0.792	0.817
	1.388	1.142	1.459	1.267	1.289	1.330	1.164	1.145	1.443	1.465	1.506	1.424	1.446	1.487
	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516
	0.817	0.559	0.478	0.652	0.595	0.668	0.586	0.598	0.762	0.705	0.778	0.774	0.717	0.790
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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NR N77 (3700-3980) MIMO	1.082	0.748	0.986	0.846	0.787	0.812	0.808	0.809	0.942	0.883	0.908	0.943	0.884	0.909
	1.425	1.179	1.496	1.304	1.326	1.367	1.201	1.182	1.480	1.502	1.543	1.461	1.483	1.524
	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618	0.618
	0.599	0.341	0.260	0.434	0.377	0.450	0.368	0.380	0.544	0.487	0.560	0.556	0.499	0.572
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
N78 (3450- 3550) SISO	0.795	0.461	0.699	0.559	0.500	0.525	0.521	0.522	0.655	0.596	0.621	0.656	0.597	0.622
	1.171	0.925	1.242	1.050	1.072	1.113	0.947	0.928	1.226	1.248	1.289	1.207	1.229	1.270
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	1.101	0.843	0.762	0.936	0.879	0.952	0.870	0.882	1.046	0.989	1.062	1.058	1.001	1.074
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
N78 (3450- 3550) MIMO	0.973	0.639	0.877	0.737	0.678	0.703	0.699	0.700	0.833	0.774	0.799	0.834	0.775	0.800
	1.407	1.161	1.478	1.286	1.308	1.349	1.183	1.164	1.462	1.484	1.525	1.443	1.465	1.506
	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516	0.516
	0.924	0.666	0.585	0.759	0.702	0.775	0.693	0.705	0.869	0.812	0.885	0.881	0.824	0.897
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	/	/	/	/	/	/	/	/	/	/	/	/	/	/
N78 (3700- 3800) MIMO	1.012	0.678	0.916	0.776	0.717	0.742	0.738	0.739	0.872	0.813	0.838	0.873	0.814	0.839
	1.426	1.180	1.497	1.305	1.327	1.368	1.202	1.183	1.481	1.503	1.544	1.462	1.484	1.525
	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624
	0.599	0.341	0.260	0.434	0.377	0.450	0.368	0.380	0.544	0.487	0.560	0.556	0.499	0.572
	0.160	0.006	0.004	0.172	0.049	0.128	0.109	0.118	0.281	0.158	0.237	0.290	0.167	0.246
	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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Limbs:

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	/	0.835	0.880	1.316	0.010
	Back side	/	/	/	/	0.013
	Left side	2.047	0.844	0.257	0.650	0.010
	Right side	/	0.695	0.093	0.474	0.010
	Top side	/	/	/	/	0.010
	Bottom side	/	/	/	/	0.010
LTE Band25	Front side	/	0.835	0.880	1.316	0.010
	Back side	/	/	/	/	0.013
	Left side	1.770	0.844	0.257	0.650	0.010
	Right side	/	0.695	0.093	0.474	0.010
	Top side	/	/	/	/	0.010
	Bottom side	/	/	/	/	0.010
LTE Band38	Front side	/	0.835	0.880	1.316	0.010
	Back side	/	/	/	/	0.013
	Left side	1.162	0.844	0.257	0.650	0.010
	Right side	/	0.695	0.093	0.474	0.010
	Top side	/	/	/	/	0.010
	Bottom side	/	/	/	/	0.010
LTE Band41	Front side	/	0.835	0.880	1.316	0.010
	Back side	/	/	/	/	0.013
	Left side	1.248	0.844	0.257	0.650	0.010
	Right side	/	0.695	0.093	0.474	0.010
	Top side	/	/	/	/	0.010
	Bottom side	/	/	/	/	0.010
NR N7	Front side	/	0.835	0.880	1.316	0.010
	Back side	/	/	/	/	0.013
	Left side	1.707	0.844	0.257	0.650	0.010
	Right side	/	0.695	0.093	0.474	0.010
	Top side	/	/	/	/	0.010
	Bottom side	/	/	/	/	0.010
NR N41	Front side	/	0.835	0.880	1.316	0.010
	Back side	/	/	/	/	0.013
	Left side	1.715	0.844	0.257	0.650	0.010
	Right side	/	0.695	0.093	0.474	0.010
	Top side	/	/	/	/	0.010
	Bottom side	/	/	/	/	0.010



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

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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	0.835	0.880	1.316	0.010	0.845	0.890	1.326	0.845	0.890	1.326
	Back side	/	/	/	0.013	0.013	0.013	0.013	0.013	0.013	0.013
	Left side	2.891	2.304	2.697	2.057	0.854	0.267	0.660	2.901	2.314	2.707
	Right side	0.695	0.093	0.474	0.010	0.705	0.103	0.484	0.705	0.103	0.484
	Top side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	Bottom side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LTE Band25	Front side	0.835	0.880	1.316	0.010	0.845	0.890	1.326	0.845	0.890	1.326
	Back side	/	/	/	0.013	0.013	0.013	0.013	0.013	0.013	0.013
	Left side	2.614	2.027	2.420	1.780	0.854	0.267	0.660	2.624	2.037	2.430
	Right side	0.695	0.093	0.474	0.010	0.705	0.103	0.484	0.705	0.103	0.484
	Top side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	Bottom side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LTE Band38	Front side	0.835	0.880	1.316	0.010	0.845	0.890	1.326	0.845	0.890	1.326
	Back side	/	/	/	0.013	0.013	0.013	0.013	0.013	0.013	0.013
	Left side	2.006	1.419	1.812	1.172	0.854	0.267	0.660	2.016	1.429	1.822
	Right side	0.695	0.093	0.474	0.010	0.705	0.103	0.484	0.705	0.103	0.484
	Top side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	Bottom side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LTE Band41	Front side	0.835	0.880	1.316	0.010	0.845	0.890	1.326	0.845	0.890	1.326
	Back side	/	/	/	0.013	0.013	0.013	0.013	0.013	0.013	0.013
	Left side	2.092	1.505	1.898	1.258	0.854	0.267	0.660	2.102	1.515	1.908
	Right side	0.695	0.093	0.474	0.010	0.705	0.103	0.484	0.705	0.103	0.484
	Top side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	Bottom side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
NR N7	Front side	0.835	0.880	1.316	0.010	0.845	0.890	1.326	0.845	0.890	1.326
	Back side	/	/	/	0.013	0.013	0.013	0.013	0.013	0.013	0.013
	Left side	2.551	1.964	2.357	1.717	0.854	0.267	0.660	2.561	1.974	2.367
	Right side	0.695	0.093	0.474	0.010	0.705	0.103	0.484	0.705	0.103	0.484
	Top side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	Bottom side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
NR N41	Front side	0.835	0.880	1.316	0.010	0.845	0.890	1.326	0.845	0.890	1.326
	Back side	/	/	/	0.013	0.013	0.013	0.013	0.013	0.013	0.013
	Left side	2.559	1.972	2.365	1.725	0.854	0.267	0.660	2.569	1.982	2.375
	Right side	0.695	0.093	0.474	0.010	0.705	0.103	0.484	0.705	0.103	0.484
	Top side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	Bottom side	/	/	/	0.010	0.010	0.010	0.010	0.010	0.010	0.010



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10 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483) DASY8; Module SAR:V16.2.4.2524				
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-025	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-026	NCR	NCR
☒	Test Phantom	SPEAG	mmWave Phantom	SZ-WSR-A-029	NCR	NCR
☒	DAE	SPEAG	DAE4	SZ-WSR-M-030	2023/11/17	2024/11/16
☒	DAE	SPEAG	DAE4	SZ-WSR-M-031	2024/03/18	2025/03/17
☒	DAE	SPEAG	DAE4	SZ-WSR-M-029	2024/01/03	2025/01/02
☒	DAE	SPEAG	DAE4	SZ-WSR-M-028	2024/04/16	2025/04/15
☒	DAE	SPEAG	DAE4ip	SZ-WSR-M-074	2023/07/14	2024/07/13
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-082	2023/08/07	2024/08/06
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-068	2023/11/23	2024/11/22
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-027	2024/07/16	2025/07/15
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-075	2024/07/17	2025/07/16
☒	E-U Probe	SPEAG	EUmmWV4	SZ-WSR-M-048	2023-08-18	2024-08-17
☒	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	D1900V2	SZ-WSR-M-036	2022/11/02	2025/11/01
☒	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	2023/07/31	2024/07/30
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R60	SZ-WSR-M-091	2023/07/31	2024/07/30
☒	Radio	Anritsu	MT8820C	SZ-WSR-M-005	2024/01/30	2025/01/29



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	Communication Analyzer					
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2024/05/24	2025/05/23
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2023/09/14	2024/09/13
☒	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

Appendix F: Antenna Locations

--- End of report ---



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