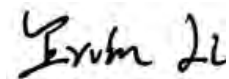


FCC SAR TEST REPORT

Application No.: ZEWM2304000550RG
Applicant: vivo Mobile Communication Co., Ltd.
Manufacturer: vivo Mobile Communication Co., Ltd.
Product Name: Mobile Phone
Model No.(EUT): V2250
Trade Mark: vivo
FCC ID: 2AUCY-V2250
Standards: FCC 47CFR §2.1093
Date of Receipt: 2023/05/12
Date of Test: 2023/05/18 to 2023/06/03
Date of Issue: 2023/06/08
Test conclusion: **PASS ***

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

Authorized Signature:



Ervin Li

Regulatory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
ZEWM2304000550RG02	01	Original	2023/06/08

Prepared By	 <hr/> Vito Wang
Checked By	 <hr/> Roman Pan



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.44	0.22	0.46	/
GSM1900	0.10	0.33	0.52	/
WCDMA Band II	0.20	0.27	0.44	/
WCDMA Band IV	0.23	0.42	0.44	/
WCDMA Band V	0.70	0.33	0.77	/
CDMA BC0	0.61	0.26	0.65	/
LTE Band 2	0.16	0.26	0.43	/
LTE Band 4	0.36	0.46	0.56	/
LTE Band 7	0.52	0.25	0.38	/
LTE Band 12/17	0.27	0.18	0.37	/
LTE Band 13	0.22	0.15	0.26	/
LTE Band 26/5/18/19	0.55	0.25	0.62	/
LTE Band 41/38	0.66	0.21	0.35	/
LTE Band 66	0.16	0.40	0.49	/
NR Band 2	0.16	0.26	0.39	/
NR Band 7	0.64	0.24	0.36	/
NR Band 26/5	0.78	0.28	0.64	/
NR Band 38	0.74	0.42	0.34	/
NR Band 41	0.89	0.30	0.25	/
NR Band 66	0.42	0.45	0.51	/
NR Band 77	0.61	0.52	0.30	2.53
NR Band 78	0.67	0.89	0.47	2.86
WI-FI (2.4GHz)	0.61	<0.1	0.15	/
WI-FI (5GHz)	0.47	0.30	0.75	0.92
BT	0.22	<0.1	<0.1	/
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	1.39	1.21	1.34	3.78
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note:

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 17 (frequency range: 704-716 MHz) is covered by LTE band 12 (frequency range: 699-716 MHz). SAR in LTE band 5 (frequency range: 824-849 MHz) and LTE band 18 (frequency range: 815-830 MHz) and LTE band 19 (frequency range: 830-845 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). The SAR in NR band 5 (frequency range: 824-849 MHz) is covered by NR band 26 (frequency range: 814-849 MHz). Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.



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1 General Information

1.1 Details of Client

Applicant:	vivo Mobile Communication Co., Ltd.
Address:	No.1, vivo Road, Chang'an, Dongguan,Guangdong,China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address:	No.1, vivo Road, Chang'an, Dongguan,Guangdong,China

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:	Lyons Liang, Charley Yi, Mike Li, Durant Lin, Bernie Zhuang, Messi Chen, James Zheng, Ethan Li



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1.3 Test Facility

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• **A2LA (Certificate No. 3816.01)**

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

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

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

CAB identifier: CN0006.

IC#: 4620C.

• **FCC –Designation Number: CN1336**

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

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



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1.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Mobile Phone		
Model No.(EUT):	V2250		
FCC ID:	2AUCY-V2250		
Trade Mark:	vivo		
Product Phase:	Identical Prototype		
IMEI:	868007060199896, 868007060199714, 868007060199474, 868007060199995, 868007060199672, 868007060199870, 868007060199292		
Hardware Version:	MP_0.1		
Software Version:	PD2283F_EX_A_13.0.6.14.W30		
Antenna Type:	PIFA Antenna		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK, 16QAM(HSPA+); CDMA: QPSK; 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, π/4DQPSK, 8DPSK NFC: ASK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	24	HSUPA UE Category	6
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control "all up"(CDMA 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
	CDMA BC0	824~849	869~894
	LTE Band 2	1850 ~1910	1930 ~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704~716	734~746
	LTE Band 18	815~830	860~875
LTE Band 19	830~845	875~890	



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	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2180
	NR Band n2	1850 ~1910	1930 ~1990
	NR Band n5	824~849	869-894
	NR Band n7	2500~2570	2620~2690
	NR Band n26	814~849	859~894
	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	NR Band n66	1710~1780	1710~1780
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78 (Class 2/3)	3450~3550	3450~3550
		3700~3800	3700~3800
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G	2412~2462	2412~2462
	Wi-Fi 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
	NFC	13.56	13.56
RF Cable:	<input checked="" type="checkbox"/> Provided by the applicant <input type="checkbox"/> Provided by the laboratory		
Battery Information:	Model:	B-Z7	
	Normal Voltage:	+3.91V	
	Rated capacity:	4505mAh	
	Manufacturer:	Dongguan NVT Technology Co.,Ltd	
Test Channels:	128-190-251(GSM850)		
	512-661-810(GSM1900)		
	9262-9400-9538(UMTS Band II)		
	1312-1413-1513(UMTS Band IV)		
	4132-4182-4233(UMTS Band V)		
	1013-384-777(CDMA BC0)		
	18607-18900-19193(LTE Band 2 BW=1.4MHz)		
	18615-18900-19185(LTE Band 2 BW=3MHz)		
	18625-18900-19175(LTE Band 2 BW=5MHz)		
	18650-18900-19150(LTE Band 2 BW=10MHz)		
	18675-18900-19125(LTE Band 2 BW=15MHz)		
	18700-18900-19100(LTE Band 2 BW=20MHz)		
	19957-20175-20393(LTE Band 4 BW=1.4MHz)		
	19965-20175-20385(LTE Band 4 BW=3MHz)		
	19975-20175-20375(LTE Band 4 BW=5MHz)		
	20000-20175-20350(LTE Band 4 BW=10MHz)		
20025-20175-20325(LTE Band 4 BW=15MHz)			
20050-20175-20300(LTE Band 4 BW=20MHz)			
20407-20525-20643(LTE Band 5 BW=1.4MHz)			



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20415-20525-20635(LTE Band 5 BW=3MHz)
20425-20525-20625(LTE Band 5 BW=5MHz)
20450-20525-20600(LTE Band 5 BW=10MHz)
20775-21100-21425(LTE Band 7 BW=5MHz)
20800-21100-21400(LTE Band 7 BW=10MHz)
20825-21100-21375(LTE Band 7 BW=15MHz)
20850-21100-21350(LTE Band 7 BW=20MHz)
23017-23095-23173(LTE Band 12 BW=1.4MHz)
23025-23095-23165(LTE Band 12 BW=3MHz)
23035-23095-23155(LTE Band 12 BW=5MHz)
23060-23095-23130(LTE Band 12 BW=10MHz)
23205-23230-23255(LTE Band 13 BW=5MHz)
23230(LTE Band 13 BW=10MHz)
23755-23790-23825(LTE Band 17 BW=5MHz)
23780-23790-23800(LTE Band 17 BW=10MHz)
23875-23925-23975(LTE Band 18 BW=5MHz)
23900-23925-23950(LTE Band 18 BW=10MHz)
23925(LTE Band 18 BW=15MHz)
24025-24075-24125(LTE Band 19 BW=5MHz)
24050-24075-24100(LTE Band 19 BW=10MHz)
24075(LTE Band 19 BW=15MHz)
26697-26865-27033(LTE Band 26 BW=1.4MHz)
26705-26865-27025(LTE Band 26 BW=3MHz)
26715-26865-27015(LTE Band 26 BW=5MHz)
26740-26865-26990(LTE Band 26 BW=10MHz)
26765-26865-26965(LTE Band 26 BW=15MHz)
37775-38000-38225(LTE Band 38 BW=5MHz)
37800-38000-38200(LTE Band 38 BW=10MHz)
37825-38000-38175(LTE Band 38 BW=15MHz)
37850-38000-38150(LTE Band 38 BW=20MHz)
39675-40148-40620-41093-41565(LTE Band 41 BW=5MHz)
39700-40160-40620-41080-41540(LTE Band 41 BW=10MHz)
39725-40173-40620-41068-41515(LTE Band 41 BW=15MHz)
39750-40185-40620-41055-41490(LTE Band 41 BW=20MHz)
131979-132322-132665(LTE Band 66 BW=1.4MHz)
131987-132322-132657(LTE Band 66 BW=3MHz)
131997-132322-132647(LTE Band 66 BW=5MHz)
132022-132322-132622(LTE Band 66 BW=10MHz)
132047-132322-132597(LTE Band 66 BW=15MHz)
132072-132322-132572(LTE Band 66 BW=20MHz)
370500-376000-381500(NR Band n2 BW=5MHz)
371000-376000-381000(NR Band n2 BW=10MHz)
371500-376000-380500(NR Band n2 BW=15MHz)
372000-376000-380000(NR Band n2 BW=20MHz)
165300-167300-169300(NR Band n5 BW=5MHz)
165800-167300-168800(NR Band n5 BW=10MHz)
166300-167300-168300(NR Band n5 BW=15MHz)



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166800-167300-167800(NR Band n5 BW=20MHz)
500500-507000-513500(NR Band n7 BW=5MHz)
501000-507000-513000(NR Band n7 BW=10MHz)
501500-507000-512500(NR Band n7 BW=15MHz)
502000-507000-512000(NR Band n7 BW=20MHz)
502500-507000-511500(NR Band n7 BW=25MHz)
503000-507000-511000(NR Band n7 BW=30MHz)
504000-507000-510000(NR Band n7 BW=40MHz)
163300-166300-169300(NR Band n26 BW=5MHz)
163800-166300-168800(NR Band n26 BW=10MHz)
164300-166300-168300(NR Band n26 BW=15MHz)
164800-166300-167800(NR Band n26 BW=20MHz)
516000-519000-520000(NR Band n38 BW=20MHz)
517000-519000-521000(NR Band n38 BW=30MHz)
518000-519000-522000(NR Band n38 BW=40MHz)
501204-509904-518598-527298-535998(NR Band n41 BW=20MHz)
502200-510402-518598-526800-534996(NR Band n41 BW=30MHz)
503202-510900-518598-526302-534000(NR Band n41 BW=40MHz)
504204-511404-518598-525798-532998(NR Band n41 BW=50MHz)
505200-511902-518598-525300-531996(NR Band n41 BW=60MHz)
506202-512400-518598-524802-531000(NR Band n41 BW=70MHz)
507204-512904-518598-524298-529998(NR Band n41 BW=80MHz)
508200-513402-518598-523800-528996(NR Band n41 BW=90MHz)
509202-513900-518598-523302-528000(NR Band n41 BW=100MHz)
342500-349000-355500(NR Band n66 BW=5MHz)
343000-349000-355000(NR Band n66 BW=10MHz)
343500-349000-354500(NR Band n66 BW=15MHz)
344000-349000-354000(NR Band n66 BW=20MHz)
345000-349000-353000(NR Band n66 BW=30MHz)
346000-349000-352000(NR Band n66 BW=40MHz)
346000-349000-352000(NR Band n66 BW=40MHz)
633334-647334-650800-654268-657734-661200-664666(NR Band n77 BW=20MHz)
633334-647666-651000-654334-657666-661000-664334(NR Band n77 BW=30MHz)
633334-648000-651200-654400-657600-660800-664000(NR Band n77 BW=40MHz)
633334-648334-651400-654468-657534-660600-663666(NR Band n77 BW=50MHz)
633334-648668-651600-654534-657468-660400-663332(NR Band n77 BW=60MHz)
633334-649001-651800-654601-657401-660200-662999(NR Band n77 BW=70MHz)
633334-649334-652000-654668-657334-660000-662666(NR Band n77 BW=80MHz)
633334-649668-652200-654734-657268-659800-662332(NR Band n77 BW=90MHz)
633334-650000-652400-654800-657200-659600-662000(NR Band n77 BW=100MHz)
633334-650000(NR Band n78 BW=20/30/40/50/60/70/80/90/100MHz)
20M:1-6-11 (WiFi 2.4G)
40M:3-6-9 (WiFi 2.4G)
20M: 36-40-44-48-52-56-60-64-100-104-108-112-116-132-136-140-144-149-153-157-161-165 (WiFi 5G)
40M: 38-46-54-62-102-110-134-142-151-159 (WiFi 5G)



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	80M: 42-58-106-138-155 (WiFi 5G) 160M: 50 (WiFi 5G)
	0-39-78 (BT)
<p>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.</p> <p>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.</p>	

Note:

- 1) When the user makes a call in the head scene and triggers the sensor distance mechanism, GSM1900, WCDMA B2/4, LTE B2/4/7/66 and NR N2/66 at Antenna 15 cannot be transmitted, so the Head SAR test for GSM1900, WCDMA B2/4, LTE B2/4/7/66 and NR N2/66 at Antenna 15 were not required.
- 2) Wi-Fi 5G does not support TDWR channel (CH:114/118/120/122/124/126/128).



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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 177mm. 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/CDMA/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
Ant11	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant12	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant13	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant14	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant15	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant21	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant22	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant23	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant24	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant31	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$

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

Note:

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



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1.4.2 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 ≤ 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.

Note: GSM/CDMA/WCDMA/LTE Standalone/NR SA are configured for peak exposure mode, but NSA and Inter band UL CA are not peak exposure mode.

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.

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

Uncertainty dB (k=2)	All Band
Total uncertainty	1.49

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(1g)	SAR_design_target W/kg(1g)
Head	WWAN	1.6	0.8
Body worn	WWAN	1.6	0.8
Hotspot	WWAN	1.6	0.55

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(10g)	SAR_design_target W/kg(1g)
Product specific 10gSAR	WWAN	4.0	2.5



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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}^*	P_{limit} (average)			
				FCC Head	FCC Body Sensor On	FCC Hotspot	FCC Body Sensor off
				DSI 2	DSI 4	DSI 6	DSI 7
GSM 850	GSM	11#	32.7	/	/	/	32.7
	GPRS 2TS		30.3	30.3	30.3	30.3	/
GSM 850	GSM	41#	32.7	/	/	/	32.7
	GPRS 2TS		30.3	30.3	30.3	30.3	/
GSM 1900	GSM	15#	30.0	/	/	/	30.0
	GPRS 2TS		27.0	/	27.0	27.0	/
GSM 1900	GSM	31#	30.0	/	/	/	30.0
	GPRS 2TS		27.5	27.5	27.5	/	/
	GPRS 4TS		23.0	/	/	22.5	/
WCDMA_B2	RMC	15#	22.8	/	21.8	20.3	21.8
	RMC	31#	23.0	23.0	20.5	19.0	20.5
WCDMA_B4	RMC	15#	22.8	/	21.0	19.0	21.0
	RMC	31#	23.0	24.0	22.0	18.5	22.0
WCDMA_B5	RMC	11#	24.3	23.8	24.3	23.8	24.3
	RMC	41#	24.0	24.0	24.0	23.5	24.0
CDMA_BC0	RTT/EVDO	11#	23.7	23.2	23.7	23.2	23.7
	RTT/EVDO	41#	23.5	23.5	23.5	23.0	23.5
LTE_B2	QPSK	15#	22.8	/	22.3	20.3	22.3
	QPSK	31#	23.0	23.0	21.0	19.5	21.0
LTE_B4	QPSK	12#	23.5	23.5	23.5	23.5	23.5
	QPSK	15#	23.3	/	21.3	19.8	21.3
LTE_B5	QPSK	31#	23.5	23.5	22.5	19.0	22.5
	QPSK	11#	24.0	24.0	24.0	24.0	24.0
LTE_B7	QPSK	41#	24.0	24.0	24.0	24.0	24.0
	QPSK	12#	23.0	19.5	21.5	20.0	23.0
LTE_B12	QPSK	15#	22.3	/	21.8	20.3	21.8
	QPSK	31#	23.0	23.0	21.5	20.0	21.5
LTE_B13	QPSK	11#	24.5	24.5	24.5	24.5	24.5
	QPSK	41#	24.3	24.3	24.3	23.8	24.3
LTE_B17	QPSK	11#	24.5	24.5	24.5	24.5	24.5
	QPSK	41#	24.3	24.3	24.3	23.8	24.3
LTE_B18	QPSK	11#	24.0	24.0	24.0	24.0	24.0
	QPSK	41#	24.0	24.0	24.0	24.0	24.0
LTE_B19	QPSK	11#	24.0	24.0	24.0	24.0	24.0
	QPSK	41#	24.0	24.0	24.0	24.0	24.0



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LTE_B26	QPSK	11#	24.0	24.0	24.0	24.0	24.0
	QPSK	41#	24.0	24.0	24.0	24.0	24.0
LTE_B38	QPSK	15#	23.3	16.8	23.3	22.3	23.3
	QPSK	31#	24.0	24.0	23.0	21.5	23.0
LTE_B41	QPSK	15#	23.3	16.8	23.3	22.3	23.3
	QPSK	31#	24.0	24.0	23.5	22.0	23.5
LTE_B66	QPSK	15#	23.3	/	21.8	19.3	21.8
	QPSK	31#	23.5	23.5	21.5	19.0	21.5
NR5G_N2	QPSK	15#	22.5	/	21.5	20.0	21.5
	QPSK	31#	23.0	23.0	21.0	19.0	21.0
NR5G_N5	QPSK	11#	24.0	24.0	24.0	23.5	24.0
	QPSK	41#	24.0	24.0	24.0	23.0	24.0
NR5G_N7	QPSK	12#	23.0	19.5	20.5	19.5	23.0
	QPSK	15#	22.5	14.0	21.0	19.5	21.0
NR5G_N26	QPSK	11#	24.0	24.0	24.0	23.5	24.0
	QPSK	41#	24.0	24.0	24.0	23.0	24.0
NR5G_N38	QPSK	12#	24.0	20.0	21.0	19.5	24.0
	QPSK	23#	23.0	18.0	20.5	19.0	20.5
NR5G_N41	QPSK	12#	24.5	20.5	21.5	20.0	24.5
	QPSK	23#	23.5	17.0	20.0	18.5	20.0
NR5G_N66	QPSK	12#	23.5	23.5	23.5	23.5	23.5
	QPSK	15#	23.5	/	21.5	19.5	21.5
	QPSK	31#	23.5	23.5	21.5	18.5	21.5
NR5G_N77	QPSK	13#	23.5	17.5	17.0	15.5	23.5
	QPSK	23#	20.5	16.5	18.0	16.5	18.0
NR5G_N78	QPSK	13#	25.7	17.2	17.2	15.7	24.2
	QPSK	23#	22.0	16.5	18.5	17.0	18.5

Note:

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

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) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) A fixed level power reduction is applied for some WWAN frequency bands when simultaneously transmitting with the WLAN antennas in certain simultaneous transmission conditions.
- 3) A fixed level power reduction is applied for WLAN frequency bands when simultaneously transmitting with the WWAN antennas in certain simultaneous transmission conditions. *
- 4) 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.
- 5) 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).
- 6) This device uses the mobile country code (MCC) detection mechanism to indicate whether the users in CE countries and FCC countries in set the relevant power level for some bands. The selection between different power levels is based on the country code detection mechanism. In this report for SAR test at the power level of FCC mobile country code for each exposure conditions.

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

Note: * We have verified that all these cellular band triggered Wi-Fi and Bluetooth power configurations for Cell_ON and Cell_OFF with respect to the different antennas (UAT, LAT, upper Wi-Fi and lower Wi-Fi etc.) in head and body exposure (also hotspot mode) conditions as well as UL CA have been verified to trigger and operate correctly with the intended maximum output power levels in simulated normal operating conditions (i.e., using a callbox).



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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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1.6 RF exposure limits

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

Notes:

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

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

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

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

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



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2 Laboratory Environment

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

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

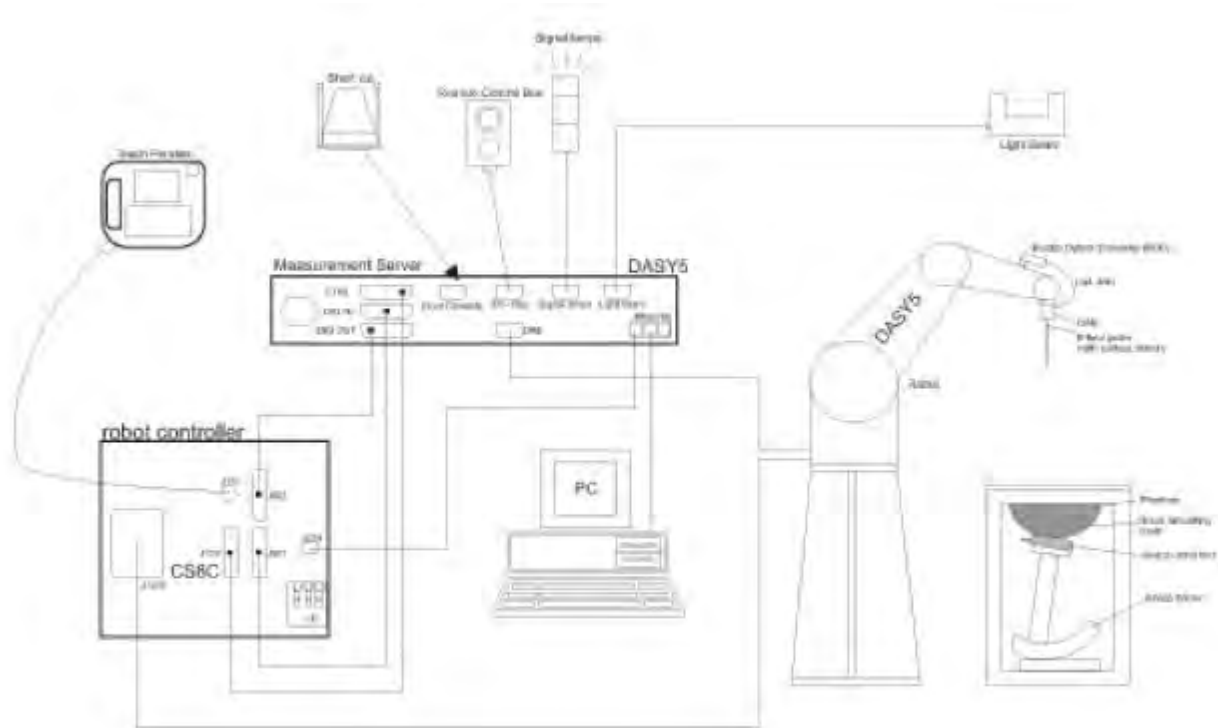
The DASY5 system for performing compliance tests consists of the following items:

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

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

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

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



F-1. SAR Measurement System Configuration




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- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI




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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	approx. 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.




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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	approx. 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.



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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.



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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



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		≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$	
Maximum area scan spatial resolution: $\Delta x_{Area}, \Delta y_{Area}$		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}, \Delta y_{Zoom}$		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

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 “.DAE4”. 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:

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



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H-field probes:

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

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

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

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

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

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

ϵ = equivalent tissue density in g/cm³

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

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

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

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

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



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

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

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
 - 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
 - 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 - 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

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



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5 Description of Test Position

5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

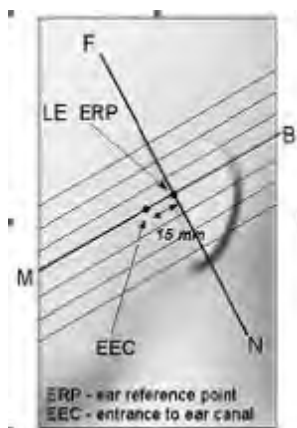


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

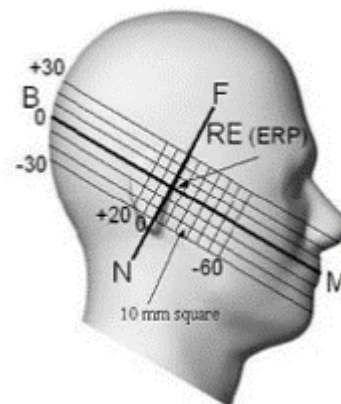
Note: The centre strip including the nose region has a different thickness tolerance.



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

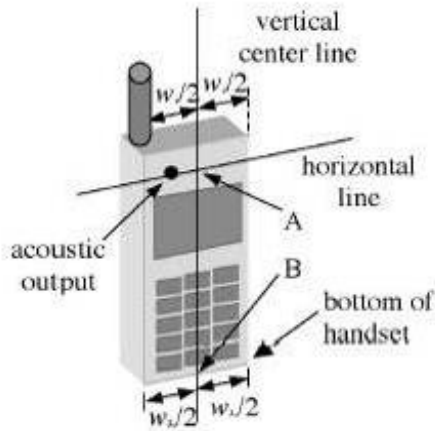


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

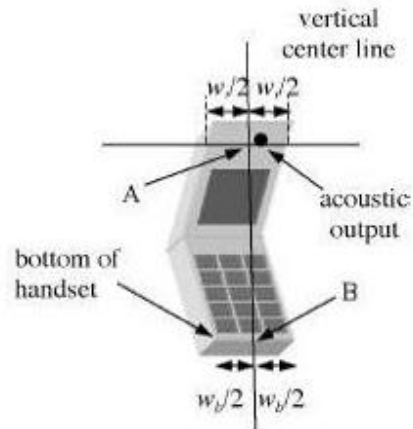


F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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 “cheek” position

- 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.
- 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.



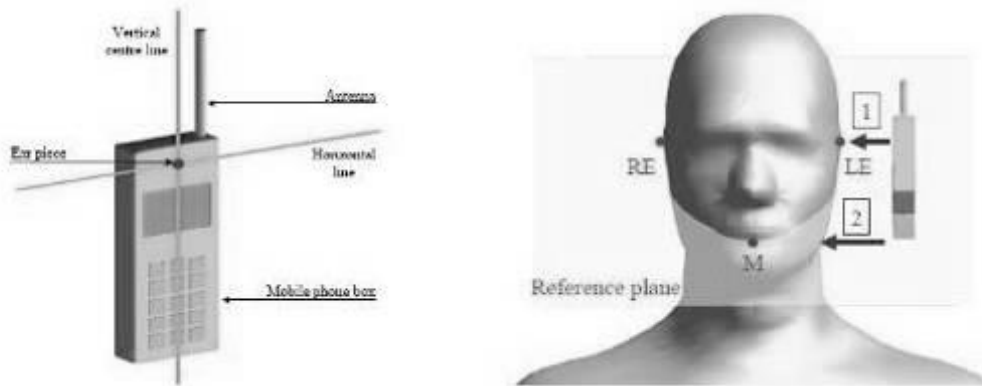
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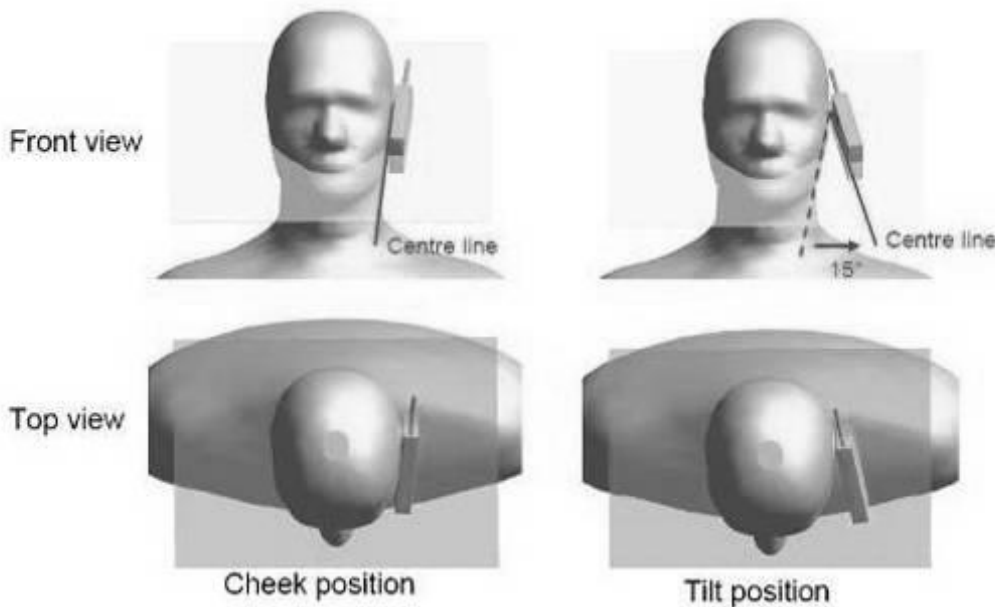
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5.1.4 Definition of the “tilted” position

- 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



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5.2 Body Exposure Condition

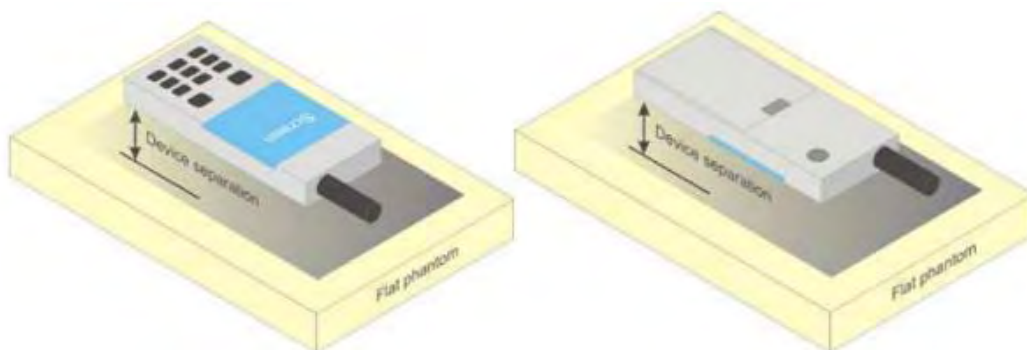
5.2.1 Body-worn accessory exposure conditions

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 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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

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



F-11. Test positions for body-worn devices



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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.

N77 (Ant13):

3450-3550:

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB)											
Front side	100	QPSK 1_271	633334/3500	100%	0.050	0.01	16.03	24.50	7.031	0.354	Yes
Back side	100	QPSK 1_271	633334/3500	100%	0.145	0.09	16.03	24.50	7.031	1.019	Yes
Left side	100	QPSK 1_271	633334/3500	100%	0.251	0.02	16.03	24.50	7.031	1.765	No
Top side	100	QPSK 1_271	633334/3500	100%	0.153	0.04	16.03	24.50	7.031	1.076	Yes
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	100%	0.045	0.02	15.89	24.50	7.261	0.329	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.132	0.15	15.89	24.50	7.261	0.958	Yes
Left side	100	QPSK 135_69	633334/3500	100%	0.169	0.08	15.89	24.50	7.261	1.227	No
Top side	100	QPSK 135_69	633334/3500	100%	0.104	0.07	15.89	24.50	7.261	0.755	Yes



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N77 (Ant13):
3700-3980:

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB)											
Front side	100	QPSK 1_137	659600/3894	100%	0.031	0.09	16.07	24.50	6.966	0.219	Yes
Back side	100	QPSK 1_137	659600/3894	100%	0.137	0.03	16.07	24.50	6.966	0.954	Yes
Left side	100	QPSK 1_137	659600/3894	100%	0.211	0.03	16.07	24.50	6.966	1.470	No
Top side	100	QPSK 1_137	659600/3894	100%	0.081	0.09	16.07	24.50	6.966	0.562	Yes
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	659600/3894	100%	0.023	-0.05	16.03	24.50	7.031	0.161	Yes
Back side	100	QPSK 135_69	659600/3894	100%	0.107	0.04	16.03	24.50	7.031	0.752	Yes
Left side	100	QPSK 135_69	659600/3894	100%	0.142	0.06	16.03	24.50	7.031	0.998	Yes
Top side	100	QPSK 135_69	659600/3894	100%	0.066	0.10	16.03	24.50	7.031	0.461	Yes

N78 (Ant13):
3450-3550:

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB)											
Front side	100	QPSK 1_271	633334/3500	100%	0.076	0.06	15.97	26.70	11.830	0.897	Yes
Back side	100	QPSK 1_271	633334/3500	100%	0.256	0.02	15.97	26.70	11.830	3.029	No
Left side	100	QPSK 1_271	633334/3500	100%	0.395	0.03	15.97	26.70	11.830	4.673	No
Top side	100	QPSK 1_271	633334/3500	100%	0.211	0.07	15.97	26.70	11.830	2.496	No
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	100%	0.077	0.09	15.95	26.70	11.885	0.910	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.208	0.04	15.95	26.70	11.885	2.472	No
Left side	100	QPSK 135_69	633334/3500	100%	0.305	0.03	15.95	26.70	11.885	3.625	No
Top side	100	QPSK 135_69	633334/3500	100%	0.199	0.09	15.95	26.70	11.885	2.365	No

N78 (Ant13):
3700-3800:

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB)											
Front side	100	QPSK 1_271	650000/3750	1:1	0.044	0.04	15.99	26.70	11.776	0.516	Yes
Back side	100	QPSK 1_271	650000/3750	1:1	0.092	0.05	15.99	26.70	11.776	1.082	Yes
Left side	100	QPSK 1_271	650000/3750	1:1	0.137	0.06	15.99	26.70	11.776	1.613	No
Top side	100	QPSK 1_271	650000/3750	1:1	0.087	0.07	15.99	26.70	11.776	1.019	Yes
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.051	0.07	15.88	26.70	12.078	0.612	Yes
Back side	100	QPSK 135_69	650000/3750	1:1	0.133	0.17	15.88	26.70	12.078	1.606	No
Left side	100	QPSK 135_69	650000/3750	1:1	0.175	-0.02	15.88	26.70	12.078	2.114	No
Top side	100	QPSK 135_69	650000/3750	1:1	0.118	0.05	15.88	26.70	12.078	1.425	No



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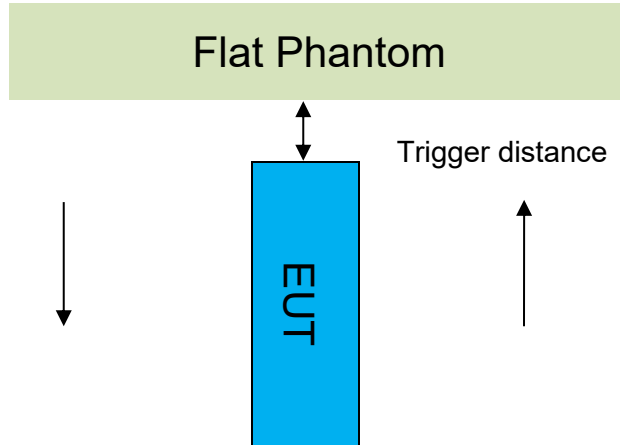
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5.4 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

The Proximity sensor triggering was applied to ENDC-LTE B2/7/38/41(Ant12), NR 7/38/41(Ant12), and NR 77/78(Ant13). 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)			
Position	Front side	Back side	Left side
Minimum	8	12	13
Required SAR Test	7	11	12

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.

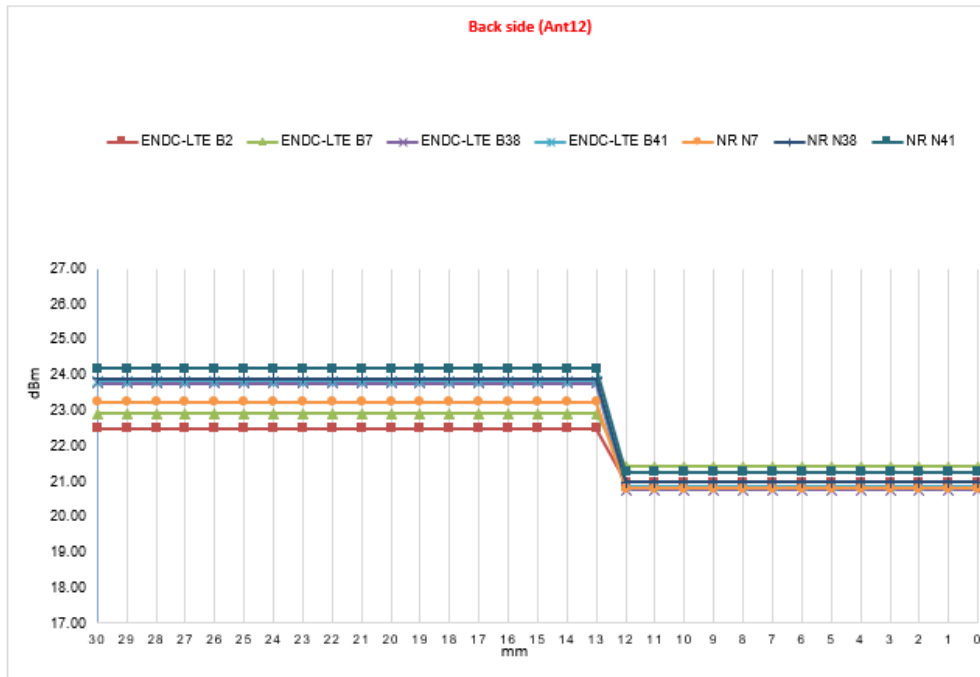
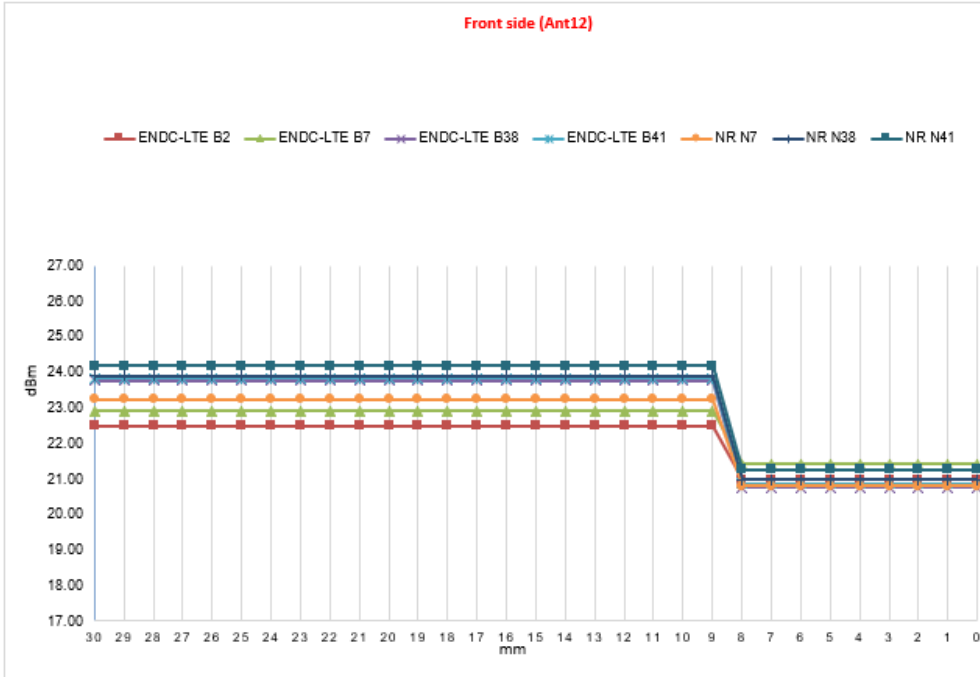


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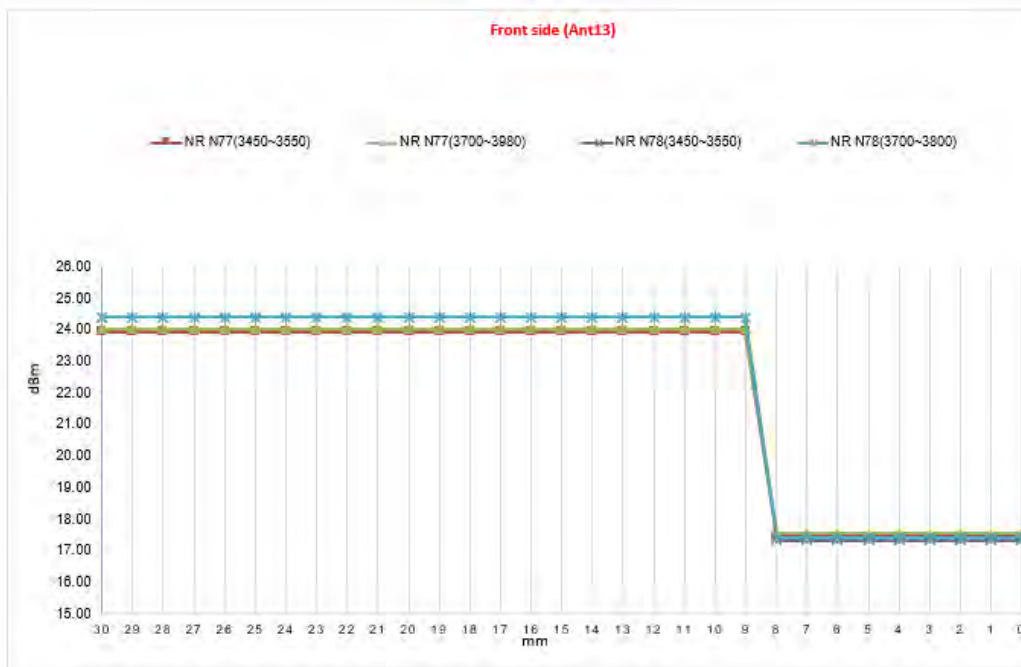
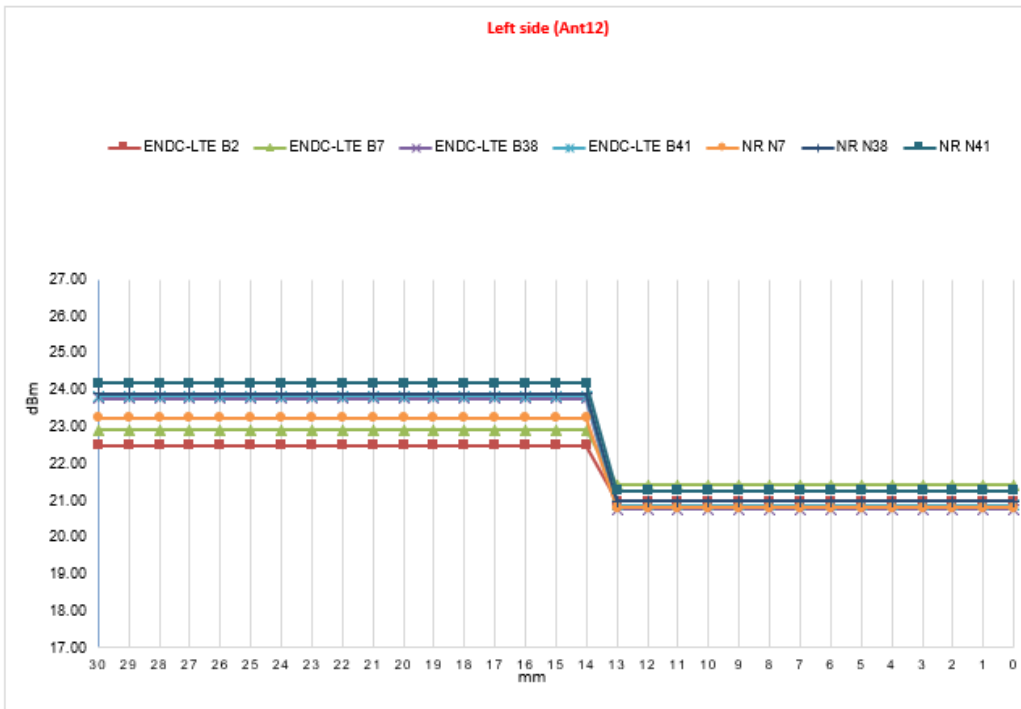
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● DUT Moving Toward(Trigger)the Phantom



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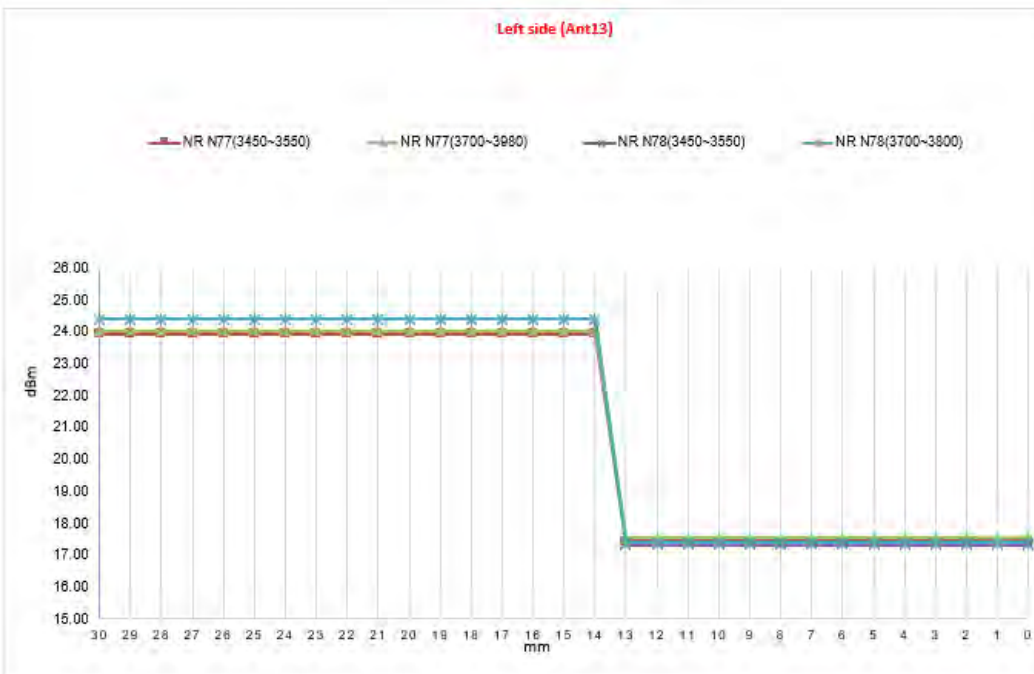
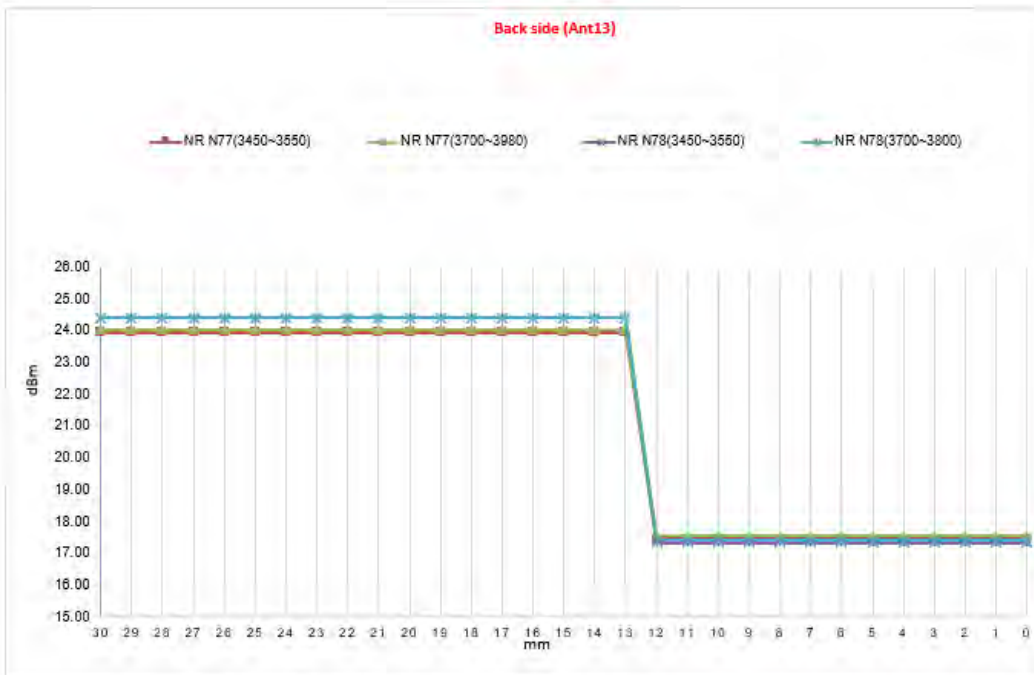
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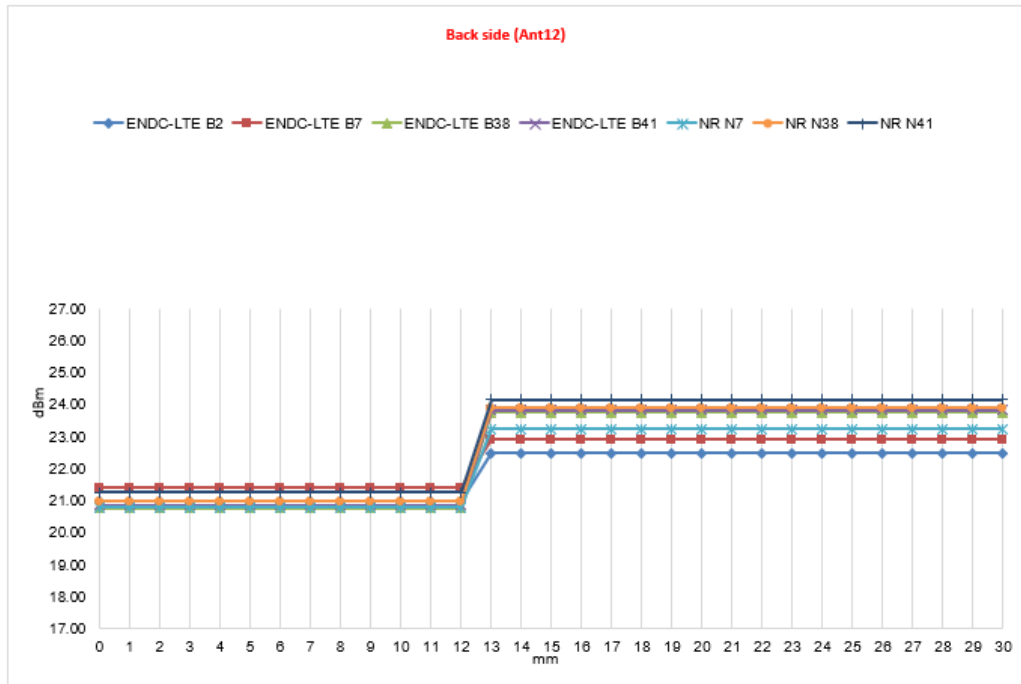
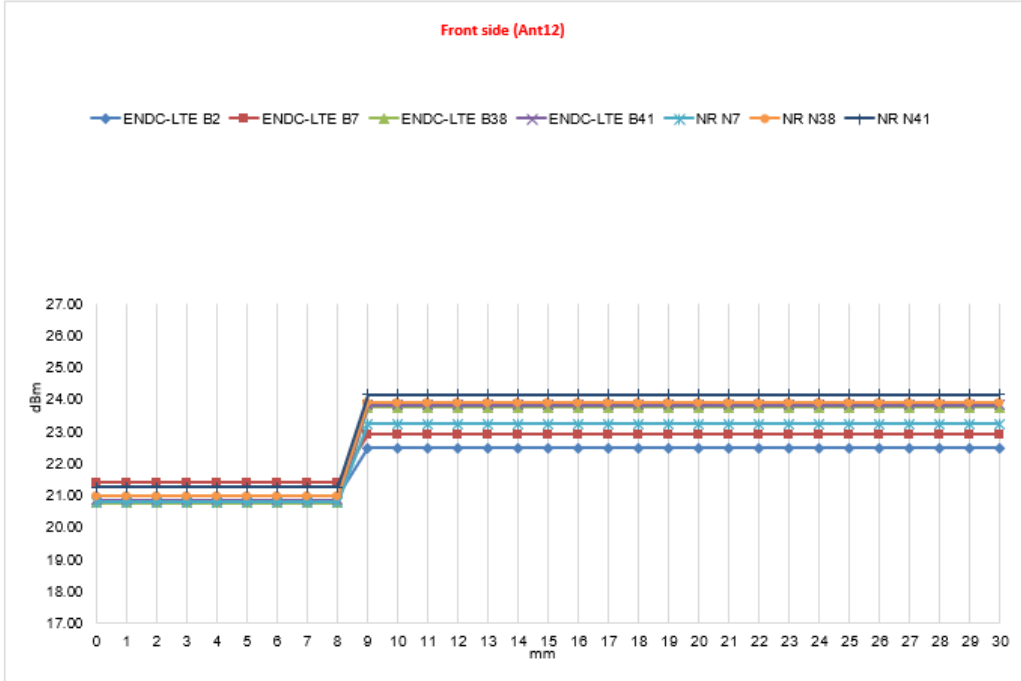


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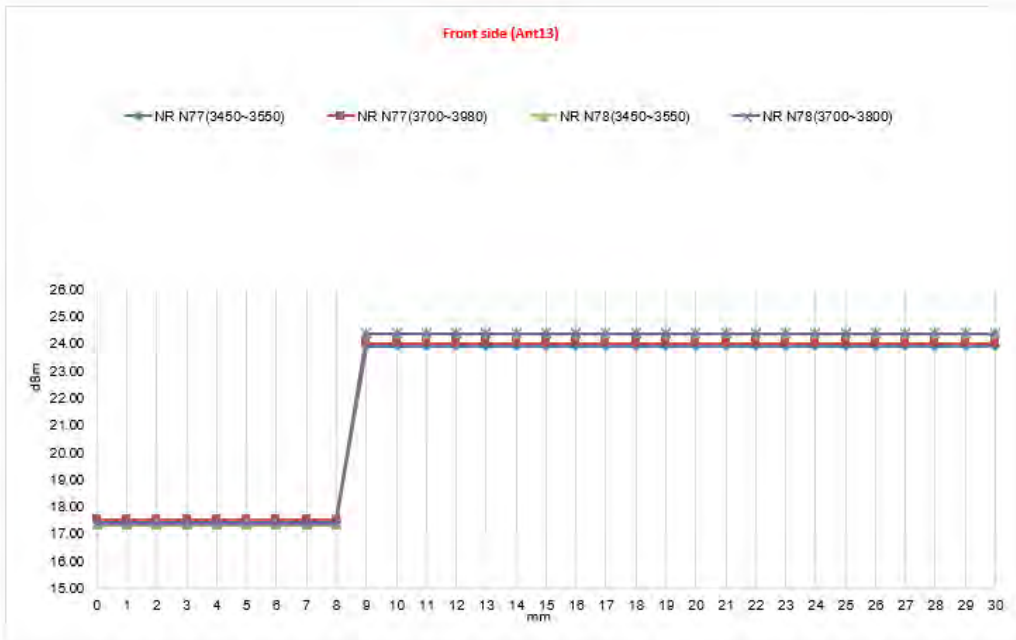
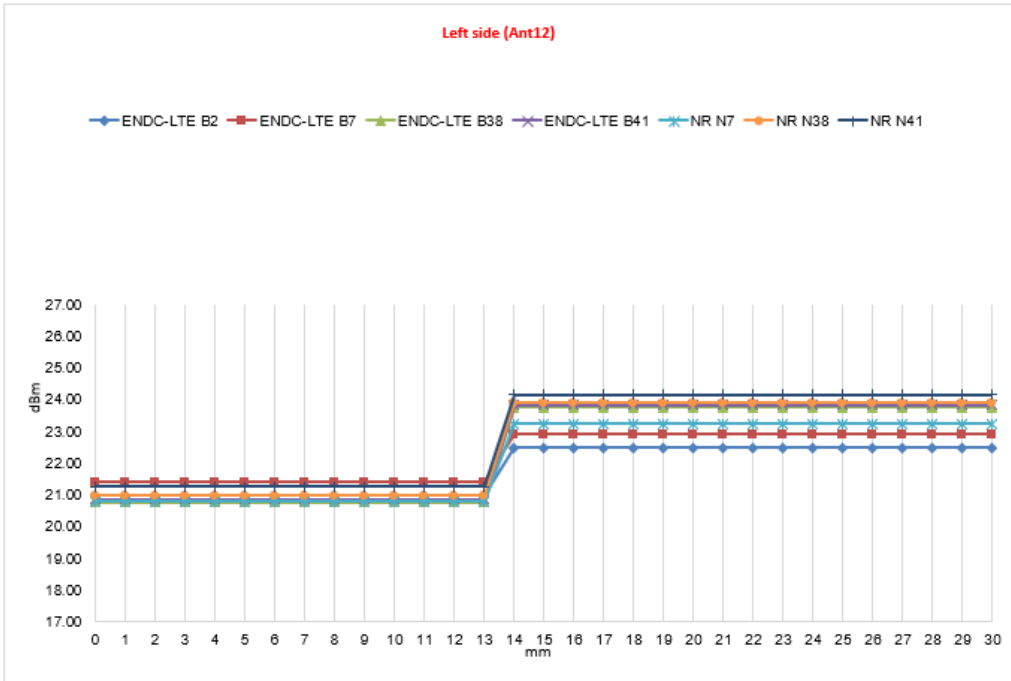
● DUT Moving Away(Release) from the Phantom



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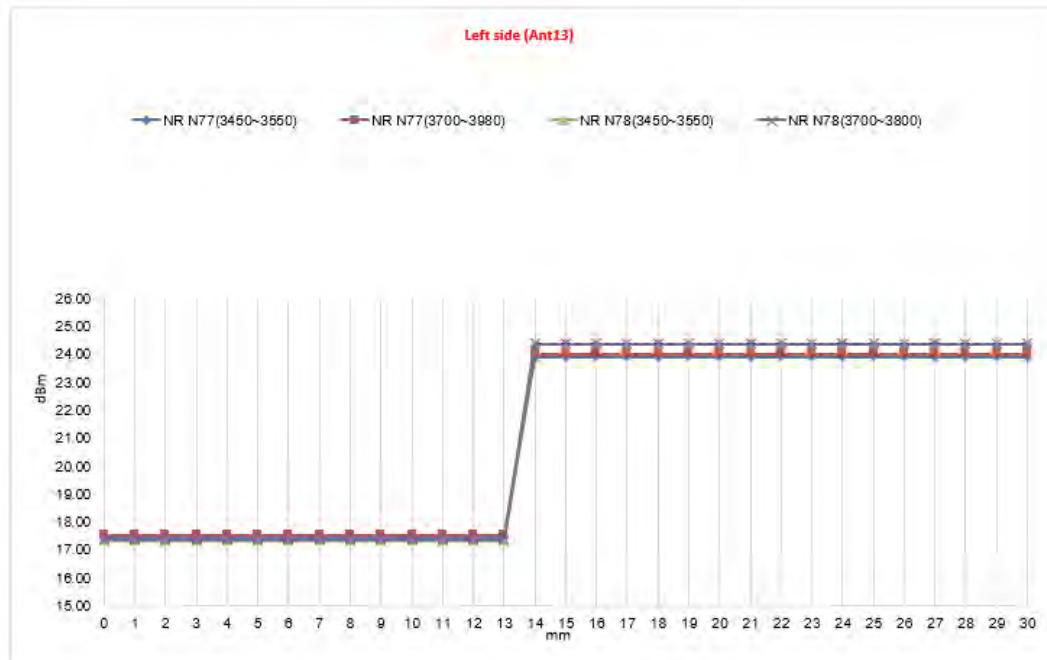
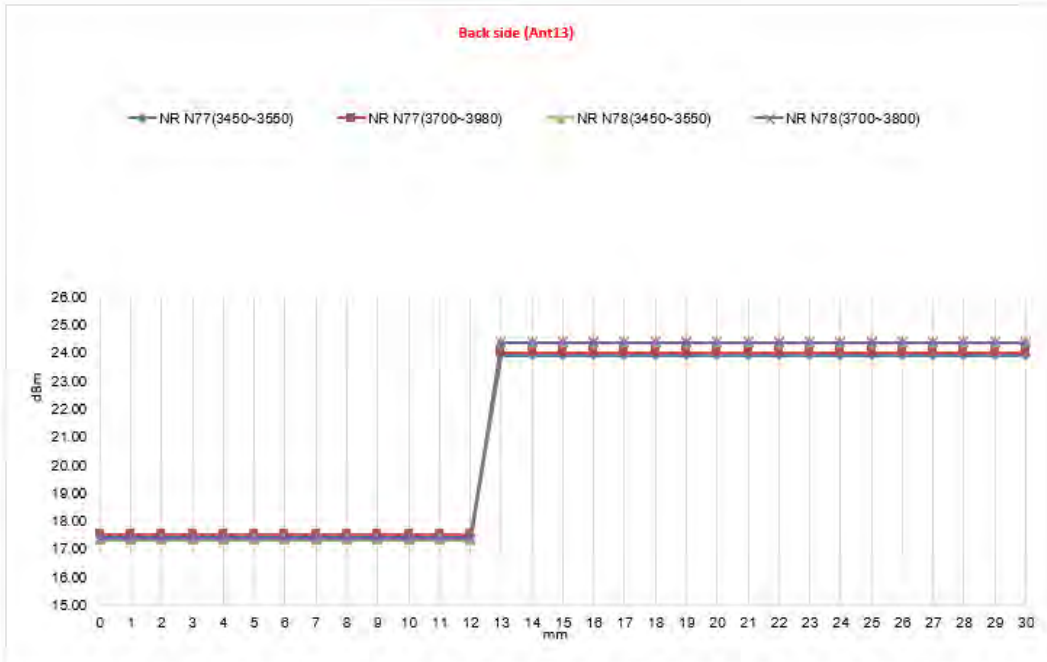
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Proximity sensor coverage

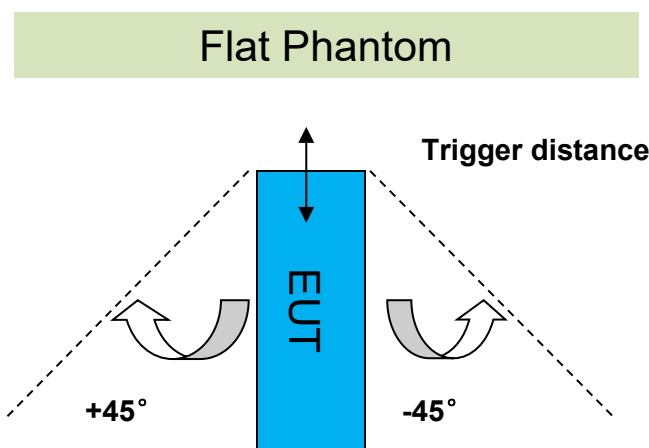
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user, but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage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

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

Device tilt angle influences on proximity sensor triggering

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

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



Summary of Tablet Tilt Angle Influence on Proximity Sensor Triggering													
Band (MHz)	Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant 12:ENDC-LTE B2/7/38/41, NR 7/38/41	Left side:13mm	Left side:13mm	on	on	on	on	on	on	on	on	on	on	on
Ant 13:NR 77/78	Left side:13mm	Left side:13mm	on	on	on	on	on	on	on	on	on	on	on



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-900	1750-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ ⁺ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate			Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose		
HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 3: Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵ_r) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

Tissue Type	Measured Frequency (MHz)	Target Tissue ($\pm 5\%$)		Measured Tissue		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	41.90	0.89	40.965	0.889	-2.23%	-0.15%	22.6	2023/5/19
835 Head	835	41.50	0.90	41.657	0.909	0.38%	1.02%	22.4	2023/5/20
835 Head	835	41.50	0.90	40.680	0.910	-1.98%	1.10%	22.3	2023/5/21
835 Head	835	41.50	0.90	41.668	0.909	0.41%	1.05%	22.6	2023/5/22
835 Head	835	41.50	0.90	42.676	0.910	2.83%	1.08%	22.7	2023/5/23
835 Head	835	41.50	0.90	42.026	0.901	1.27%	0.11%	22.5	2023/6/1
1750 Head	1750	40.10	1.37	40.647	1.370	1.36%	0.00%	22.2	2023/5/18
1750 Head	1750	40.10	1.37	40.413	1.345	0.78%	-1.82%	22.1	2023/5/23
1750 Head	1750	40.10	1.37	40.521	1.345	1.05%	-1.82%	22.1	2023/5/25
1900 Head	1900	40.00	1.40	40.777	1.380	1.94%	-1.43%	22.3	2023/5/19
1900 Head	1900	40.00	1.40	40.022	1.445	0.05%	3.21%	21.9	2023/5/21
2450 Head	2450	39.20	1.80	39.325	1.764	0.32%	-2.00%	22.4	2023/5/27
2600 Head	2600	39.00	1.96	39.723	1.966	1.85%	0.31%	22.1	2023/5/20
2600 Head	2600	39.00	1.96	38.460	1.908	-1.38%	-2.65%	22.1	2023/5/22
2600 Head	2600	39.00	1.96	39.832	1.941	2.13%	-0.97%	22.5	2023/5/31
2600 Head	2600	39.00	1.96	39.814	1.925	2.09%	-1.79%	22.3	2023/6/1
2600 Head	2600	39.00	1.96	38.262	1.877	-1.89%	-4.23%	22.2	2023/6/2
3500 Head	3500	37.90	2.91	38.185	3.013	0.75%	3.54%	22.2	2023/5/18
3500 Head	3500	37.90	2.91	37.676	2.853	-0.59%	-1.96%	21.8	2023/5/26
3500 Head	3500	37.90	2.91	37.903	2.876	0.01%	-1.17%	22.1	2023/5/29
3500 Head	3500	37.90	2.91	38.396	2.952	1.31%	1.44%	22.2	2023/6/2
3700 Head	3700	37.70	3.12	37.338	3.091	-0.96%	-0.93%	22.1	2023/5/19
3700 Head	3700	37.70	3.12	36.960	3.043	-1.96%	-2.47%	22.0	2023/5/27
3700 Head	3700	37.70	3.12	37.187	3.068	-1.36%	-1.67%	21.8	2023/5/30
3700 Head	3700	37.70	3.12	37.996	3.222	0.79%	3.27%	22.0	2023/6/3
3900 Head	3900	37.50	3.32	36.627	3.306	-2.33%	-0.42%	22.3	2023/5/20
3900 Head	3900	37.50	3.32	36.365	3.259	-3.03%	-1.84%	21.9	2023/5/28
5250 Head	5250	35.90	4.66	36.795	4.705	2.49%	0.97%	22.1	2023/5/27
5600 Head	5600	35.50	5.07	35.843	5.091	0.97%	0.41%	22.4	2023/5/28
5750 Head	5750	35.40	5.22	35.479	5.262	0.22%	0.80%	22.3	2023/5/29

Table 4: Measurement result of Tissue electric parameters



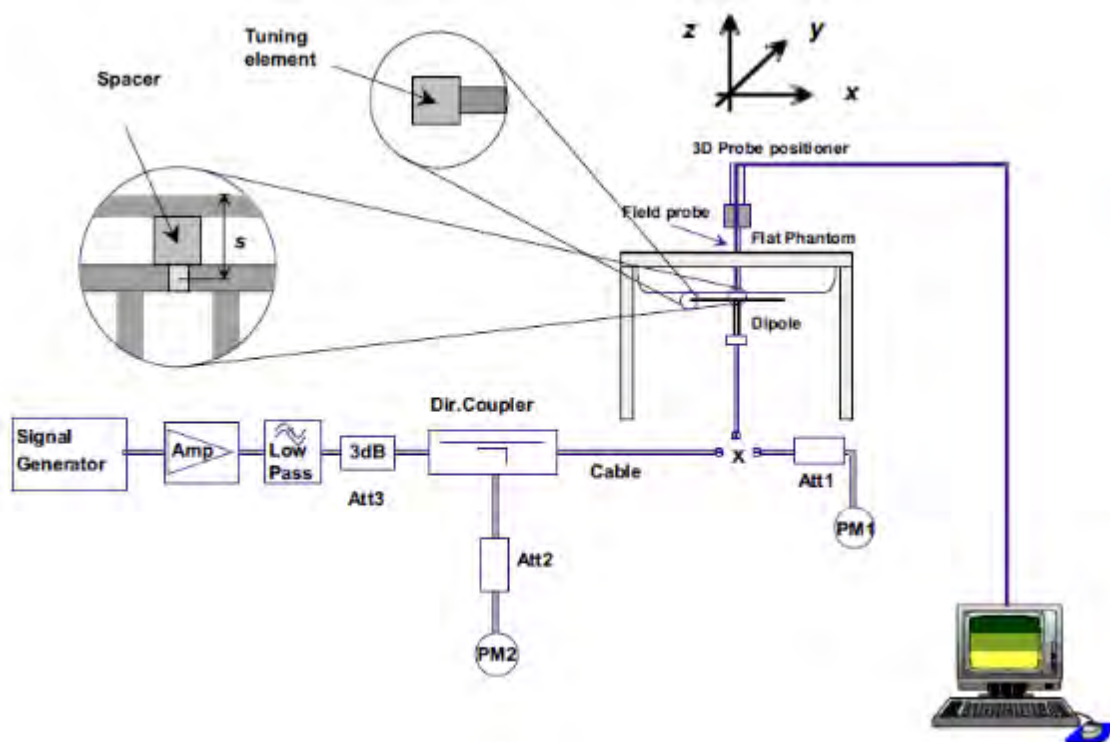
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6.2 SAR System Check

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 +/- 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±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 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



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6.2.1 Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, 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 10% 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	2.20	1.46	8.80	5.84	8.37	5.53	5.14%	5.61%	22.6	2023/5/19
D835V2	Head	2.35	1.53	9.40	6.12	9.53	6.29	-1.36%	-2.70%	22.4	2023/5/20
D835V2	Head	2.48	1.63	9.92	6.52	9.53	6.29	4.09%	3.66%	22.3	2023/5/21
D835V2	Head	2.38	1.55	9.52	6.20	9.53	6.29	-0.10%	-1.43%	22.6	2023/5/22
D835V2	Head	2.36	1.55	9.44	6.20	9.53	6.29	-0.94%	-1.43%	22.7	2023/5/23
D835V2	Head	2.42	1.58	9.68	6.32	9.53	6.29	1.57%	0.48%	22.5	2023/6/1
D1750V2	Head	9.14	4.87	36.56	19.48	36.60	19.30	-0.11%	0.93%	22.2	2023/5/18
D1750V2	Head	9.22	4.91	36.88	19.64	36.60	19.30	0.77%	1.76%	22.1	2023/5/23
D1750V2	Head	9.03	4.81	36.12	19.24	36.60	19.30	-1.31%	-0.31%	22.1	2023/5/25
D1900V2	Head	9.11	4.71	36.44	18.84	39.50	20.60	-7.75%	-8.54%	22.3	2023/5/19
D1900V2	Head	10.50	5.41	42.00	21.64	39.50	20.60	6.33%	5.05%	21.9	2023/5/21
D2450V2	Head	12.50	6.11	50.00	24.44	52.20	24.30	-4.21%	0.58%	22.4	2023/5/27
D2600V2	Head	14.30	6.28	57.20	25.12	57.70	25.80	-0.87%	-2.64%	22.1	2023/5/20
D2600V2	Head	13.60	6.37	54.40	25.48	57.70	25.80	-5.72%	-1.24%	22.1	2023/5/22
D2600V2	Head	13.90	6.24	55.60	24.96	57.70	25.80	-3.64%	-3.26%	22.5	2023/5/31
D2600V2	Head	14.60	6.43	58.40	25.72	57.70	25.80	1.21%	-0.31%	22.3	2023/6/1
D2600V2	Head	13.60	6.00	54.40	24.00	57.70	25.80	-5.72%	-6.98%	22.2	2023/6/2
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)	6.28	2.44	62.80	24.40	65.80	25.70	-4.56%	-5.06%	22.2	2023/5/18
	Head(3.5GHz)	6.88	2.64	68.80	26.40	65.80	25.70	4.56%	2.72%	21.8	2023/5/26
	Head(3.5GHz)	6.83	2.66	68.30	26.60	65.80	25.70	3.80%	3.50%	22.1	2023/5/29
	Head(3.5GHz)	6.85	2.62	68.50	26.20	65.80	25.70	4.10%	1.95%	22.2	2023/6/2
D3700V2	Head(3.7GHz)	6.13	2.29	61.30	22.90	66.10	24.70	-7.26%	-7.29%	22.1	2023/5/19
	Head(3.7GHz)	6.75	2.52	67.50	25.20	66.10	24.70	2.12%	2.02%	22.0	2023/5/27
	Head(3.7GHz)	6.80	2.54	68.00	25.40	66.10	24.70	2.87%	2.83%	21.8	2023/5/30
D3900V2	Head(3.7GHz)	6.34	2.31	63.40	23.10	66.10	24.70	-4.08%	-6.48%	22.0	2023/6/3
	Head(3.9GHz)	7.01	2.51	70.10	25.10	66.70	23.80	5.10%	5.46%	22.3	2023/5/20
D5GHzV2	Head(3.9GHz)	7.13	2.54	71.30	25.40	66.70	23.80	6.90%	6.72%	21.9	2023/5/28
	Head(5.25GHz)	7.58	2.29	75.80	22.90	77.30	22.10	-1.94%	3.62%	22.1	2023/5/27
D5GHzV2	Head(5.6GHz)	7.81	2.35	78.10	23.50	81.30	23.10	-3.94%	1.73%	22.4	2023/5/28
	Head(5.75GHz)	7.51	2.15	75.10	21.50	77.10	21.30	-2.59%	0.94%	22.3	2023/5/29

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

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

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to “5” and “0” in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. 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 and tolerance, 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



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7.2.2 CDMA Test Configuration

1) . 1x RTT Handsets

The following procedures apply to CDMA 2000 Release 0 and Release A single carrier (1x RTT) handsets operating with Mobile Protocol Revision 6 or 7 (MOB_P_REV 6 or 7). The default test configuration is to measure SAR in RC3 with an established radio link between the handset and a communication test set. SAR in RC1 is selectively confirmed according to the 3G SAR test reduction procedure with RC3 as the primary mode. The forward and reverse links are configured with the same RC for SAR measurement. Maximum output power is verified by applying the procedures defined in 3GPP2 C. S0011 and TIA-98-E. SAR must be measured according to these maximum output conditions and requirements in KDB Publication 447498 D01.

2) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. Results for at least steps 3, 4 and 10 of the power measurement procedures are required in the SAR report. Steps 3 and 4 are measured using Loopback Service Option SO55 with power control bits in "All Up" condition. TDSO/SO32 may be used instead of SO55 for step 4. Step 10 is measured using TDSO/SO32 with power control bits in the "Bits Hold" condition (i.e. alternative Up/Down Bits). All power measurements defined in C.S0011/TIA-98-E that are inapplicable to the handset or cannot be measured due to technical or equipment limitations must be clearly identified in the test report.

3) . Head SAR

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode; otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

4) . Body-Worn Accessory SAR

Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 D01 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCHn), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCHn), with FCH at full rate and SCH0 enabled at 9600 bps, using the highest reported SAR configuration for FCH only. When multiple code channels are enabled, the transmitter output can shift by more than 0.5 dB and may lead to higher SAR drifts and SCH dropouts.

The 3G SAR test reduction procedure is applied to body-worn accessory SAR in RC1 with RC3 as the primary mode. Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

5) . Handsets with built-in Ev-Do

For handsets with Ev-Do capabilities, the 3G SAR test reduction procedure is applied to Ev-Do Rev. 0 with 1x RTT RC3 as the primary mode to determine body-worn accessory test requirements. Otherwise, body-worn accessory SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

The 3G SAR test reduction procedure is applied separately to Rev. A and Rev. B, with Rev. 0 as the primary mode to determine body-worn accessory SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1x RTT RC3 as the primary mode. Otherwise, SAR is required for Rev. A or



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Rev. B, with a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 and 3 Physical Layer configurations, using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0 or RC3, as appropriate.

A Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with ACK Channel transmitting in all slots is configured in the downlink for Rev. 0, Rev. A and Rev. B



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7.2.3 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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 / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

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.



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Sub-test	β_c	Bd	$\beta_d(SF)$	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: $\Delta ACK, \Delta NACK$ 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, ΔACK 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.

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



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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter-TTI Interval	MaximumH S-DSCH Transport BlockBits/HS-DSCH TTI	Total Soft 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 7: 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 ^c	β_c ^c	β_d ^c	β_d (SF) ^c	β_c/β_d ^c	β_{hs} ⁽¹⁾ ^c	β_{ec} ^c	β_{ed} ^c	β_c ^c (SF) ^c	β_{ed} ^c (code) ^c	CM ⁽²⁾ ^c (dB) ^c	MP R ^c (dB) ^c	AG ⁽⁴⁾ Inde x ^c	E-TFC I ^c
1 ^c	11/15 ⁽³⁾ ^c	15/15 ⁽³⁾ ^c	64 ^c	11/15 ⁽³⁾ ^c	22/15 ^c	209/225 ^c	1039/225 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	20 ^c	75 ^c
2 ^c	6/15 ^c	15/15 ^c	64 ^c	6/15 ^c	12/15 ^c	12/15 ^c	94/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	12 ^c	67 ^c
3 ^c	15/15 ^c	9/15 ^c	64 ^c	15/9 ^c	30/15 ^c	30/15 ^c	$\beta_{ed1}:47/15$ ^c $\beta_{ed2}:47/15$ ^c	4 ^c	2 ^c	2.0 ^c	1.0 ^c	15 ^c	92 ^c
4 ^c	2/15 ^c	15/15 ^c	64 ^c	2/15 ^c	4/15 ^c	2/15 ^c	56/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	17 ^c	71 ^c
5 ^c	15/15 ⁽⁴⁾ ^c	15/15 ⁽⁴⁾ ^c	64 ^c	15/15 ⁽⁴⁾ ^c	30/15 ^c	24/15 ^c	134/15 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	21 ^c	81 ^c

Note 1: $\Delta ACK, \Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference^c
 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 $\beta_d = 15/15$ ^c
 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 $\beta_d = 15/15$ ^c
 Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g^c
 Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.^c

Table 8: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	of 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
	4	8	10	2SF2&2SF	11484	5.76
6 (No DPDCH)	4	4	2	4	20000	2.00
	4	8	2	2SF2&2SF	22996	?
7 (No DPDCH)	4	4	10	4	20000	?
	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 9: HSUPA UE category



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c) DC-HSDPA

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

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

Table 10: settings of required H-Set 12 QPSK acc. to 3GPP 34.121

Note:

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



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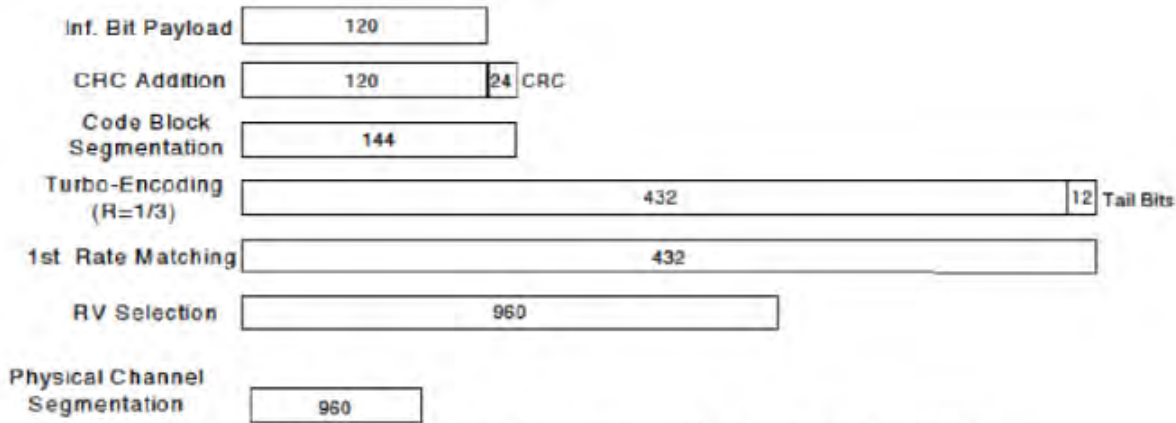


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$ ^o
 Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. For all other combinations of DPDCH, DPCCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.^o
 Note 3: For subtest 2 the β_c / β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$ ^o

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

Note:

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



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d) HSPA+

Per KDB941225D01, 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: $\Delta_{ACK}, \Delta_{NACK}$ 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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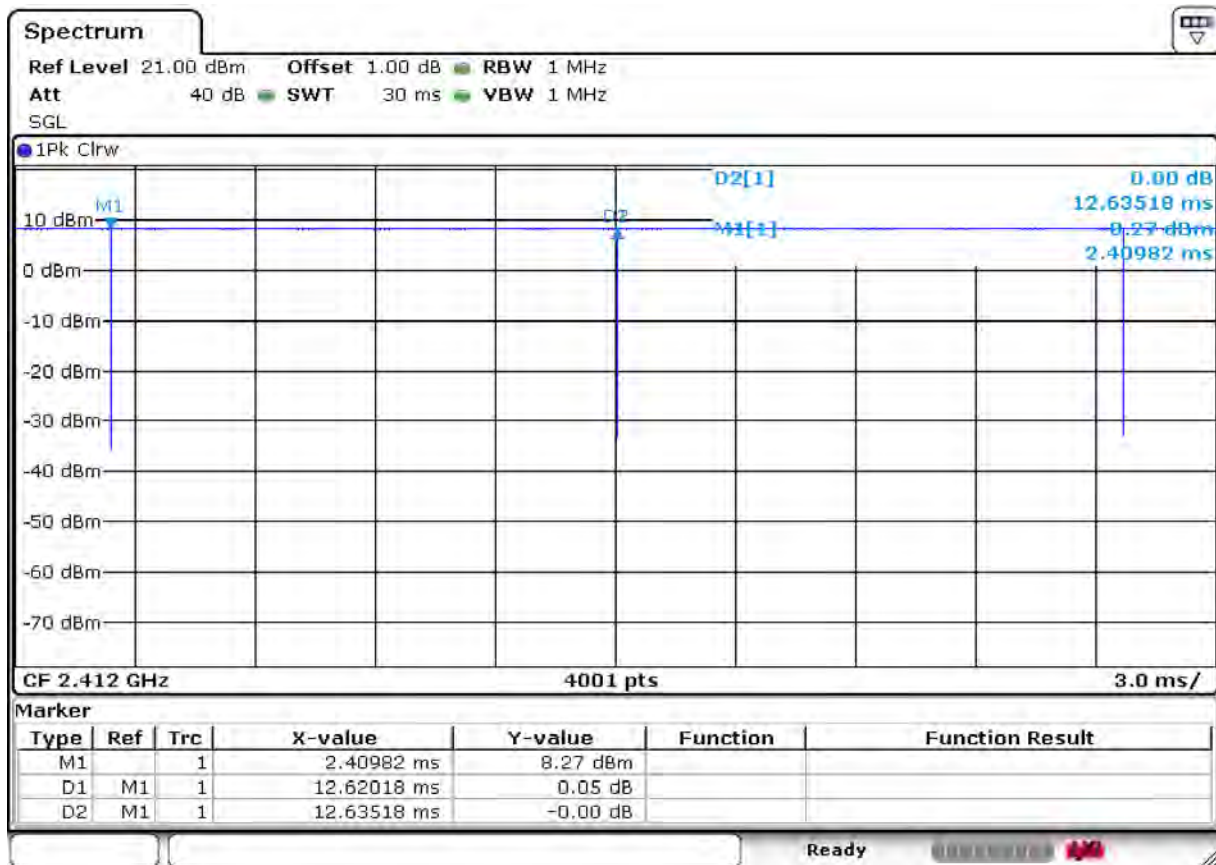
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7.2.4 WiFi Test Configuration

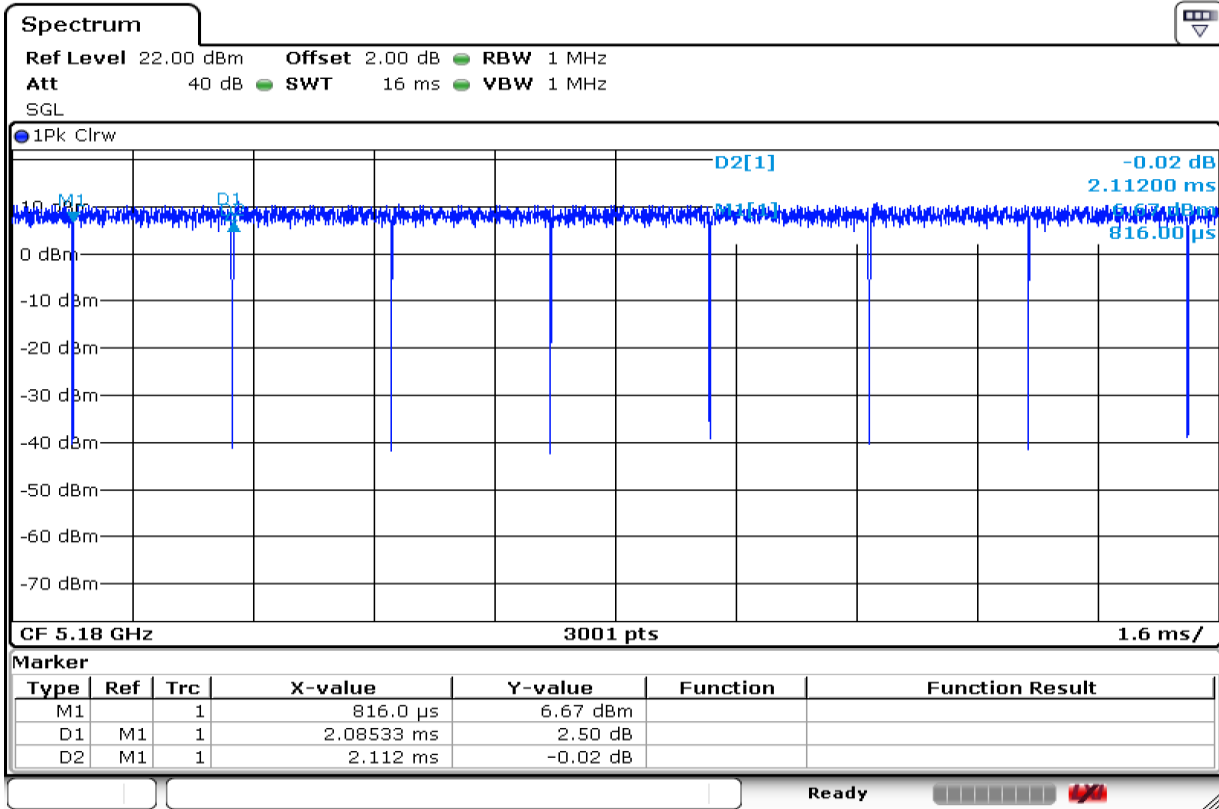
We have verified that all these cellular band triggered Wi-Fi and Bluetooth power configurations for Cell_ON and Cell_OFF with respect to the different antennas (UAT, LAT, upper Wi-Fi and lower Wi-Fi etc.) in head and body exposure (also hotspot mode) conditions as well as UL CA have been verified to trigger and operate correctly with the intended maximum output power levels in simulated normal operating conditions (i.e., using a callbox). A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.4.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:
 Duty cycle=12.62018/12.63518=99.88%



2) Wi-Fi 5GHz 802.11a:
 Duty cycle=2.08533/2.112=98.74%

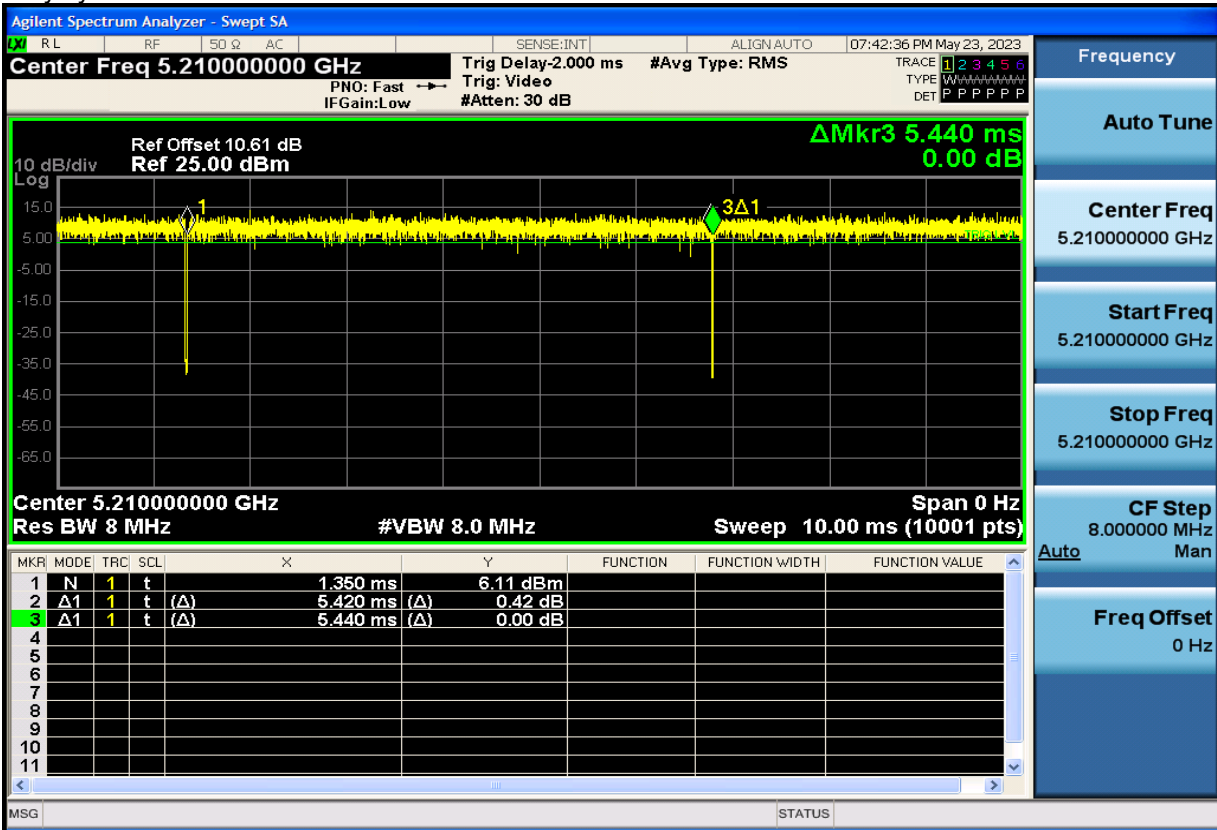


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3) Wi-Fi 5GHz 802.11ac VHT80:
 Duty cycle=5.420/5.440=99.63%

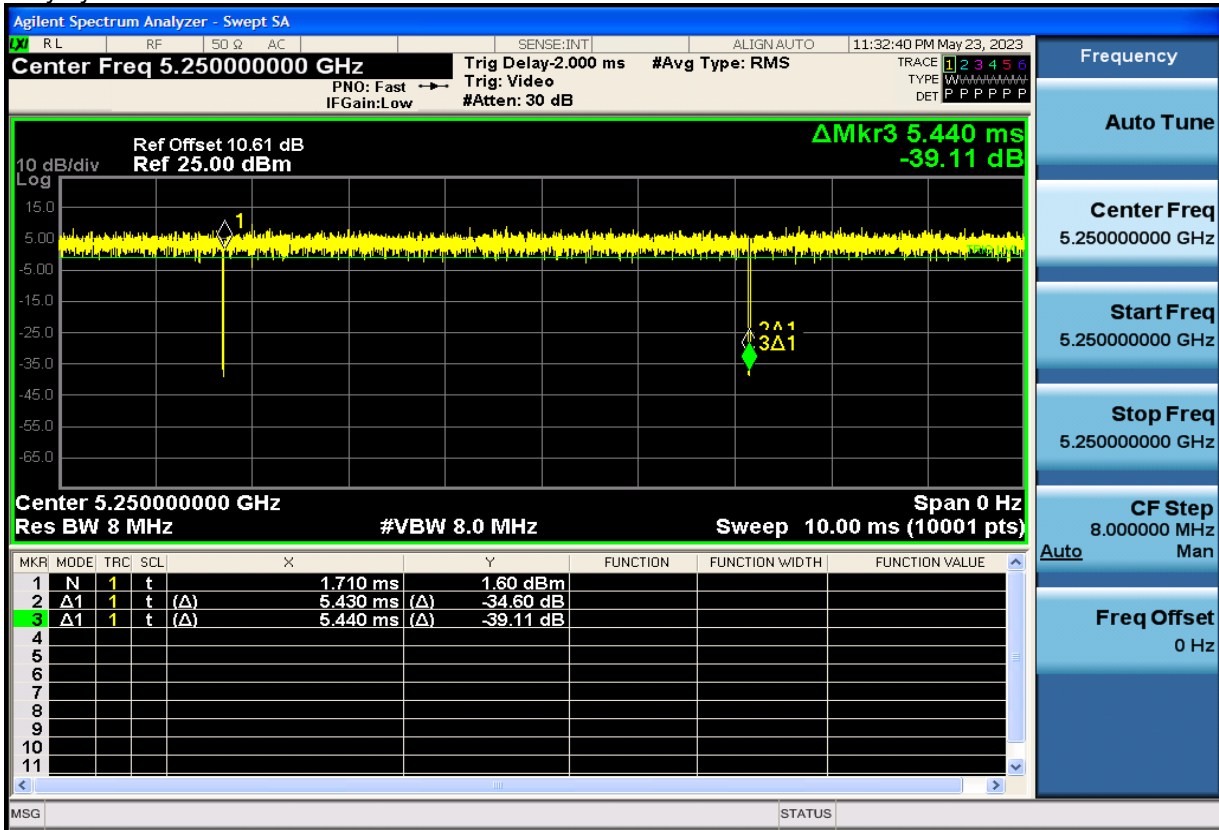


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4) Wi-Fi 5GHz 802.11ac VHT160:
Duty cycle=5.430/5.440=99.82%



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7.2.4.2 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.

7.2.4.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

7.2.4.4 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.



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- 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”



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7.2.4.5 2.4 GHz WiFi SAR Procedures

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

- **802.11b DSSS SAR Test Requirements**

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

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

- **2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements**

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

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

- **SAR Test Requirements for OFDM configurations**

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



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7.2.4.6 5 GHz WiFi SAR Procedures

- **U-NII-1 and U-NII-2A Bands**

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

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

- **U-NII-2C and U-NII-3 Bands**

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

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



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• **OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements**

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

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

• **SAR Test Requirements for OFDM configurations**

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



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Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	6592.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts		
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts	4384.Ts	5120.Ts
6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-		
9	13168.Ts			-		

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



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A) Spectrum Plots for RB Configurations

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

B) MPR

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

Modulation	Channel bandwidth/Transmission bandwidth						MPR (dB)
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
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 > ½ 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 > ½ 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



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W/kg. In this report we have checked and ensured power in higher bands is equal to or higher than the lower bands for each antenna head and body with matching channel bandwidth.

F) LTE CA additional specification

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

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

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

DL LTE CA Ant 11/41
CA_5A-5A
CA_2A-5A
CA_4A-5A
CA_5A-38A
CA_5A-41A
CA_5A-66A
CA_7A-26A
CA_26A-41A
CA_2A-4A-5A
CA_2A-5A-7A
CA_2A-5A-66A
CA_4A-4A-5A
CA_5A-7A-66A
CA_5A-66A-66A
CA_5A-7C
CA_5A-66C



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CA_5A-7C-66A
CA_5A-7A-66A-66A
DL LTE CA Ant 15/31
CA_7C
CA_38C
CA_41C
CA_66C
CA_7B
CA_2A-2A
CA_4A-4A
CA_7A-7A
CA_41A-41A
CA_66A-66A
CA_2A-4A
CA_2A-5A
CA_2A-7A
CA_2A-66A
CA_4A-5A
CA_4A-7A



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CA_5A-7A
CA_5A-38A
CA_5A-41A
CA_5A-66A
CA_7A-26A
CA_7A-66A
CA_26A-41A
CA_2A-4A-5A
CA_2A-4A-7A
CA_2A-5A-7A
CA_2A-5A-66A
CA_2A-7A-7A
CA_2A-7A-66A
CA_4A-4A-5A
CA_4A-4A-7A
CA_5A-7A-66A
CA_5A-66A-66A
CA_7A-66A-66A



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CA_2A-7C
CA_4A-7C
CA_5A-7C
CA_5A-66C
CA_41D
CA_7C-66A-66A
UL LTE CA Ant 15/31
CA_7C
CA_41C

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

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

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

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

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

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

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

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



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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:

Band/Antenna		LTE Band 5		LTE Band 7	
		ANT41	ANT11	ANT12	ANT15
LTE Band 2	ANT15			√	
	ANT31			√	
LTE Band 4	ANT12	√	√		
	ANT15	√	√	√	
	ANT31			√	
LTE Band 5	ANT11			√	√
	ANT41			√	√



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7.2.6 NR Band Test Configuration

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

Band/Antenna	LTE Band 2		LTE Band 4		LTE Band 5		LTE Band 7			LTE Band 26		LTE Band 38		LTE Band 41		LTE Band 66		
	ANT15	ANT31	ANT15	ANT31	ANT41	ANT11	ANT12	ANT15	ANT31	ANT41	ANT11	ANT31	ANT15	ANT31	ANT15	ANT31	ANT15	ANT31
n5	ANT41						√	√										
	ANT11						√	√										
n7	ANT12		√															√
	ANT15		√															√
n38	ANT12			√	√												√	√
	ANT23			√	√												√	√
n41	ANT12			√	√					√	√						√	√
	ANT23			√	√					√	√						√	√
n66	ANT12		√			√	√				√							
	ANT15		√			√	√				√							
n78	ANT13	√	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√
	ANT23	√	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√

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

Band		n2	n5	n7	n26	n38	n41	n66	n77 Ant13/23	n77 Ant14/21	n78 Ant13/23	n78 Ant14/21	
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
256QAM		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Max Duty Cycle		100%	100%	100%	100%	100%	100%	100%	100%	8.5%	100%	8.5%	



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Band	SCS	Bandwidth												
		5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz
n2	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	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	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	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	15KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	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	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	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	15KHZ	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
	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n41	15KHZ	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
	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n66	15KHZ	Yes	Yes	Yes	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	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	15KHZ	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
	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n78	15KHZ	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
	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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 1/2 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 1/2 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 1/2 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 1/2 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	
	256 QAM		≤ 4.5	
CP-OFDM	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 FCC limit.

8. For n77/78 antenna 14/21 support SRS, the max duty cycle is 8.5%.



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

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

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

LTE TDD duty cycle								
Band	Ant.	Power Level	Max UL duty cycle	Max UL duty cycle factor	P _{cmx} (dBm)	P _{limt} (dBm)	P _{cmx} Frame-Averaged(dBm)	SAR test
LTE B38	Ant 31	DSI 2/3	11.67%	-9.33	24.00	24.00	14.67	No
			21.67%	-6.64	24.00	24.00	17.36	No
			23.33%	-6.32	24.00	24.00	17.68	No
			31.67%	-4.99	24.00	24.00	19.01	No
			43.33%	-3.63	24.00	24.00	20.37	No
			53.33%	-2.73	24.00	24.00	21.27	No
LTE B38	Ant 31	DSI 4/7	63.33%	-1.98	24.00	24.00	22.02	Yes
			11.67%	-9.33	24.00	23.00	14.67	No
			21.67%	-6.64	24.00	23.00	17.36	No
			23.33%	-6.32	24.00	23.00	17.68	No
			31.67%	-4.99	24.00	23.00	19.01	No
			43.33%	-3.63	24.00	23.00	20.37	No
LTE B38	Ant 31	DSI 5/6	53.33%	-2.73	24.00	23.00	21.27	No
			63.33%	-1.98	24.00	23.00	22.02	Yes
			11.67%	-9.33	24.00	21.50	14.67	No
			21.67%	-6.64	24.00	21.50	17.36	No
			23.33%	-6.32	24.00	21.50	17.68	No
			31.67%	-4.99	24.00	21.50	19.01	No
LTE B41	Ant 31	DSI 2/3	43.33%	-3.63	24.00	21.50	20.37	No
			53.33%	-2.73	24.00	21.50	20.37	No
			63.33%	-1.98	24.00	21.50	21.27	No
			63.33%	-1.98	23.48	21.50	21.50	Yes
			11.67%	-9.33	24.00	24.00	14.67	No
			21.67%	-6.64	24.00	24.00	17.36	No
LTE B41	Ant 31	DSI 4/7	23.33%	-6.32	24.00	24.00	17.68	No
			31.67%	-4.99	24.00	24.00	19.01	No
			43.33%	-3.63	24.00	24.00	20.37	No
			53.33%	-2.73	24.00	24.00	21.27	No
			63.33%	-1.98	24.00	23.50	22.02	Yes
			11.67%	-9.33	24.00	23.50	14.67	No
LTE B41	Ant 31	DSI 5/6	21.67%	-6.64	24.00	23.50	17.36	No
			23.33%	-6.32	24.00	23.50	17.68	No
			31.67%	-4.99	24.00	23.50	19.01	No
			43.33%	-3.63	24.00	23.50	20.37	No
			53.33%	-2.73	24.00	23.50	21.27	No
			63.33%	-1.98	23.98	22.00	22.00	Yes
LTE B38	Ant 15	DSI 2	11.67%	-9.33	23.30	16.80	13.97	No
			21.67%	-6.64	23.30	16.80	16.66	No
			23.33%	-6.32	23.12	16.80	16.80	No
			31.67%	-4.99	21.79	16.80	16.80	No
			43.33%	-3.63	20.43	16.80	16.80	No
			53.33%	-2.73	19.53	16.80	16.80	No
			63.33%	-1.98	18.78	16.80	16.80	Yes



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LTE B38	Ant 15	DSI 3	11.67%	-9.33	23.30	15.80	13.97	No
			21.67%	-6.64	22.44	15.80	15.80	No
			23.33%	-6.32	22.12	15.80	15.80	No
			31.67%	-4.99	20.79	15.80	15.80	No
			43.33%	-3.63	19.43	15.80	15.80	No
			53.33%	-2.73	18.53	15.80	15.80	No
			63.33%	-1.98	17.78	15.80	15.80	Yes
LTE B38	Ant 15	DSI 4/7	11.67%	-9.33	23.30	23.30	13.97	No
			21.67%	-6.64	23.30	23.30	16.66	No
			23.33%	-6.32	23.30	23.30	16.98	No
			31.67%	-4.99	23.30	23.30	18.31	No
			43.33%	-3.63	23.30	23.30	19.67	No
			53.33%	-2.73	23.30	23.30	20.57	No
			63.33%	-1.98	23.30	23.30	21.32	Yes
LTE B38	Ant 15	DSI 5/6	11.67%	-9.33	23.30	22.30	13.97	No
			21.67%	-6.64	23.30	22.30	16.66	No
			23.33%	-6.32	23.30	22.30	16.98	No
			31.67%	-4.99	23.30	22.30	18.31	No
			43.33%	-3.63	23.30	22.30	19.67	No
			53.33%	-2.73	23.30	22.30	20.57	No
			63.33%	-1.98	23.30	22.30	21.32	Yes
LTE B41	Ant 15	DSI 2	11.67%	-9.33	23.30	16.80	13.97	No
			21.67%	-6.64	23.30	16.80	16.66	No
			23.33%	-6.32	23.12	16.80	16.80	No
			31.67%	-4.99	21.79	16.80	16.80	No
			43.33%	-3.63	20.43	16.80	16.80	No
			53.33%	-2.73	19.53	16.80	16.80	No
			63.33%	-1.98	18.78	16.80	16.80	Yes
LTE B41	Ant 15	DSI 3	11.67%	-9.33	23.30	15.80	13.97	No
			21.67%	-6.64	22.44	15.80	15.80	No
			23.33%	-6.32	22.12	15.80	15.80	No
			31.67%	-4.99	20.79	15.80	15.80	No
			43.33%	-3.63	19.43	15.80	15.80	No
			53.33%	-2.73	18.53	15.80	15.80	No
			63.33%	-1.98	17.78	15.80	15.80	Yes
LTE B41	Ant 15	DSI 4/7	11.67%	-9.33	23.30	23.30	13.97	No
			21.67%	-6.64	23.30	23.30	16.66	No
			23.33%	-6.32	23.30	23.30	16.98	No
			31.67%	-4.99	23.30	23.30	18.31	No
			43.33%	-3.63	23.30	23.30	19.67	No
			53.33%	-2.73	23.30	23.30	20.57	No
			63.33%	-1.98	23.30	23.30	21.32	Yes
LTE B41	Ant 15	DSI 5/6	11.67%	-9.33	23.30	22.30	13.97	No
			21.67%	-6.64	23.30	22.30	16.66	No
			23.33%	-6.32	23.30	22.30	16.98	No
			31.67%	-4.99	23.30	22.30	18.31	No
			43.33%	-3.63	23.30	22.30	19.67	No
			53.33%	-2.73	23.30	22.30	20.57	No
			63.33%	-1.98	23.30	22.30	21.32	Yes



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

SA NR TDD duty cycle								
Band	Ant.	Power Level	Max UL duty cycle	Max UL duty cycle factor	P _{max} (dBm)	P _{limt} (dBm)	P _{max} Frame-Averaged(dBm)	SAR test
N38	Ant 12	DSI 2	21.40%	-6.70	24.00	20.00	17.30	No
			41.40%	-3.83	23.83	20.00	20.00	No
			61.40%	-2.12	22.12	20.00	20.00	No
			100.00%	0.00	20.00	20.00	20.00	Yes
N38	Ant 12	DSI 3/5/6	21.40%	-6.70	24.00	19.50	17.30	No
			41.40%	-3.83	23.33	19.50	19.50	No
			61.40%	-2.12	21.62	19.50	19.50	No
			100.00%	0.00	19.50	19.50	19.50	Yes
N38	Ant 12	DSI 4	21.40%	-6.70	24.00	21.00	17.30	No
			41.40%	-3.83	24.00	21.00	20.17	No
			61.40%	-2.12	23.12	21.00	21.00	No
			100.00%	0.00	21.00	21.00	21.00	Yes
N38	Ant 12	DSI 7	21.40%	-6.70	24.00	24.00	17.30	No
			41.40%	-3.83	24.00	24.00	20.17	No
			61.40%	-2.12	24.00	24.00	21.88	No
			100.00%	0.00	24.00	24.00	24.00	Yes
N41 PC2	Ant 12	DSI 2	21.40%	-6.70	24.50	20.50	17.80	No
			41.40%	-3.83	24.33	20.50	20.50	No
			61.40%	-2.12	22.62	20.50	20.50	No
			100.00%	0.00	20.50	20.50	20.50	Yes
N41 PC2	Ant 12	DSI 3	21.40%	-6.70	24.50	19.50	17.80	No
			41.40%	-3.83	23.33	19.50	19.50	No
			61.40%	-2.12	21.62	19.50	19.50	No
			100.00%	0.00	19.50	19.50	19.50	Yes
N41 PC2	Ant 12	DSI 4	21.40%	-6.70	24.50	21.50	17.80	No
			41.40%	-3.83	24.50	21.50	20.67	No
			61.40%	-2.12	23.62	21.50	21.50	No
			100.00%	0.00	21.50	21.50	21.50	Yes
N41 PC2	Ant 12	DSI 5/6	21.40%	-6.70	24.50	20.00	17.80	No
			41.40%	-3.83	23.83	20.00	20.00	No
			61.40%	-2.12	22.12	20.00	20.00	No
			100.00%	0.00	20.00	20.00	20.00	Yes
N41 PC2	Ant 12	DSI 7	21.40%	-6.70	24.50	24.50	17.80	No
			41.40%	-3.83	24.50	24.50	20.67	No
			61.40%	-2.12	24.50	24.50	22.38	No
			100.00%	0.00	24.50	24.50	24.50	Yes
N41 PC3	Ant 12	DSI 2	21.40%	-6.70	23.00	20.50	16.30	No
			41.40%	-3.83	23.00	20.50	19.17	No
			61.40%	-2.12	22.62	20.50	20.50	No
			100.00%	0.00	20.50	20.50	20.50	Yes
N41 PC3	Ant 12	DSI 3	21.40%	-6.70	23.00	19.50	16.30	No
			41.40%	-3.83	23.00	19.50	19.17	No
			61.40%	-2.12	21.62	19.50	19.50	No
			100.00%	0.00	19.50	19.50	19.50	Yes
N41 PC3	Ant 12	DSI 4	21.40%	-6.70	23.00	21.50	16.30	No
			41.40%	-3.83	23.00	21.50	19.17	No
			61.40%	-2.12	23.00	21.50	20.88	No
			100.00%	0.00	21.50	21.50	21.50	Yes
N41 PC3	Ant 12	DSI 5/6	21.40%	-6.70	23.00	20.00	16.30	No
			41.40%	-3.83	23.00	20.00	19.17	No
			61.40%	-2.12	22.12	20.00	20.00	No
			100.00%	0.00	20.00	20.00	20.00	Yes



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N41 PC3	Ant 12	DSI 7	21.40%	-6.70	23.00	23.00	16.30	No
			41.40%	-3.83	23.00	23.00	19.17	No
			61.40%	-2.12	23.00	23.00	20.88	No
			100.00%	0.00	23.00	23.00	23.00	Yes
N77	Ant 13	DSI 2	21.40%	-6.70	23.50	17.50	16.80	No
			41.40%	-3.83	21.33	17.50	17.50	No
			61.40%	-2.12	19.62	17.50	17.50	No
			100.00%	0.00	17.50	17.50	17.50	Yes
N77	Ant 13	DSI 3	21.40%	-6.70	23.20	16.50	16.50	No
			41.40%	-3.83	20.33	16.50	16.50	No
			61.40%	-2.12	18.62	16.50	16.50	No
			100.00%	0.00	16.50	16.50	16.50	Yes
N77	Ant 13	DSI 4	21.40%	-6.70	23.50	17.00	16.80	No
			41.40%	-3.83	20.83	17.00	17.00	No
			61.40%	-2.12	19.12	17.00	17.00	No
			100.00%	0.00	17.00	17.00	17.00	Yes
N77	Ant 13	DSI 5/6	21.40%	-6.70	22.20	15.50	15.50	No
			41.40%	-3.83	19.33	15.50	15.50	No
			61.40%	-2.12	17.62	15.50	15.50	No
			100.00%	0.00	15.50	15.50	15.50	Yes
N77	Ant 13	DSI 7	21.40%	-6.70	23.50	23.50	16.80	No
			41.40%	-3.83	23.50	23.50	19.67	No
			61.40%	-2.12	23.50	23.50	21.38	No
			100.00%	0.00	23.50	23.50	23.50	Yes
N78 PC2	Ant 13	DSI 2/4	21.40%	-6.70	23.90	17.20	17.20	No
			41.40%	-3.83	21.03	17.20	17.20	No
			61.40%	-2.12	19.32	17.20	17.20	No
			100.00%	0.00	17.20	17.20	17.20	Yes
N78 PC2	Ant 13	DSI 3	21.40%	-6.70	22.90	16.20	16.20	No
			41.40%	-3.83	20.03	16.20	16.20	No
			61.40%	-2.12	18.32	16.20	16.20	No
			100.00%	0.00	16.20	16.20	16.20	Yes
N78 PC2	Ant 13	DSI 5/6	21.40%	-6.70	22.40	15.70	15.70	No
			41.40%	-3.83	19.53	15.70	15.70	No
			61.40%	-2.12	17.82	15.70	15.70	No
			100.00%	0.00	15.70	15.70	15.70	Yes
N78 PC2	Ant 13	DSI 7	21.40%	-6.70	25.70	24.20	19.00	No
			41.40%	-3.83	25.70	24.20	21.87	No
			61.40%	-2.12	25.70	24.20	23.58	No
			100.00%	0.00	24.20	24.20	24.20	Yes
N78 PC3	Ant 13	DSI 2/4	21.40%	-6.70	22.70	17.20	16.00	No
			41.40%	-3.83	21.03	17.20	17.20	No
			61.40%	-2.12	19.32	17.20	17.20	No
			100.00%	0.00	17.20	17.20	17.20	Yes
N78 PC3	Ant 13	DSI 3	21.40%	-6.70	22.70	16.20	16.00	No
			41.40%	-3.83	20.03	16.20	16.20	No
			61.40%	-2.12	18.32	16.20	16.20	No
			100.00%	0.00	16.20	16.20	16.20	Yes
N78 PC3	Ant 13	DSI 5/6	21.40%	-6.70	22.40	15.70	15.70	No
			41.40%	-3.83	19.53	15.70	15.70	No
			61.40%	-2.12	17.82	15.70	15.70	No
			100.00%	0.00	15.70	15.70	15.70	Yes
N78 PC3	Ant 13	DSI 7	21.40%	-6.70	22.70	22.70	16.00	No
			41.40%	-3.83	22.70	22.70	18.87	No
			61.40%	-2.12	22.70	22.70	20.58	No
			100.00%	0.00	22.70	22.70	22.70	Yes
N38	Ant 23	DSI 2	21.40%	-6.70	23.00	18.00	16.30	No
			41.40%	-3.83	21.83	18.00	18.00	No
			61.40%	-2.12	20.12	18.00	18.00	No
			100.00%	0.00	18.00	18.00	18.00	Yes
N38	Ant 23	DSI 3	21.40%	-6.70	23.00	17.00	16.30	No
			41.40%	-3.83	20.83	17.00	17.00	No



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N38	Ant 23	DSI 4/7	61.40%	-2.12	19.12	17.00	17.00	No
			100.00%	0.00	17.00	17.00	17.00	Yes
			21.40%	-6.70	23.00	20.50	16.30	No
			41.40%	-3.83	23.00	20.50	19.17	No
N38	Ant 23	DSI 5/6	61.40%	-2.12	22.62	20.50	20.50	No
			100.00%	0.00	20.50	20.50	20.50	Yes
			21.40%	-6.70	23.00	19.00	16.30	No
			41.40%	-3.83	22.83	19.00	19.00	No
N41 PC2	Ant 23	DSI 2	61.40%	-2.12	21.12	19.00	19.00	No
			100.00%	0.00	19.00	19.00	19.00	Yes
			21.40%	-6.70	23.50	17.00	16.80	No
			41.40%	-3.83	20.83	17.00	17.00	No
N41 PC2	Ant 23	DSI 3	61.40%	-2.12	19.12	17.00	17.00	No
			100.00%	0.00	17.00	17.00	17.00	Yes
			21.40%	-6.70	22.70	16.00	16.00	No
			41.40%	-3.83	19.83	16.00	16.00	No
N41 PC2	Ant 23	DSI 4/7	61.40%	-2.12	18.12	16.00	16.00	No
			100.00%	0.00	16.00	16.00	16.00	Yes
			21.40%	-6.70	23.50	20.00	16.80	No
			41.40%	-3.83	23.50	20.00	19.67	No
N41 PC2	Ant 23	DSI 5/6	61.40%	-2.12	22.12	20.00	20.00	No
			100.00%	0.00	20.00	20.00	20.00	Yes
			21.40%	-6.70	23.50	18.50	16.80	No
			41.40%	-3.83	22.33	18.50	18.50	No
N41 PC3	Ant 23	DSI 2	61.40%	-2.12	20.62	18.50	18.50	No
			100.00%	0.00	18.50	18.50	18.50	Yes
			21.40%	-6.70	20.50	17.00	13.80	No
			41.40%	-3.83	20.50	17.00	16.67	No
N41 PC3	Ant 23	DSI 3	61.40%	-2.12	19.12	17.00	17.00	No
			100.00%	0.00	17.00	17.00	17.00	Yes
			21.40%	-6.70	20.50	16.00	13.80	No
			41.40%	-3.83	19.83	16.00	16.00	No
N41 PC3	Ant 23	DSI 4/7	61.40%	-2.12	18.12	16.00	16.00	No
			100.00%	0.00	16.00	16.00	16.00	Yes
			21.40%	-6.70	20.50	20.00	13.80	No
			41.40%	-3.83	20.50	20.00	16.67	No
N41 PC3	Ant 23	DSI 5/6	61.40%	-2.12	20.50	20.00	20.00	No
			100.00%	0.00	20.00	20.00	20.00	Yes
			21.40%	-6.70	20.50	18.50	13.80	No
			41.40%	-3.83	20.50	18.50	16.67	No
N77	Ant 23	DSI 2/5/6	61.40%	-2.12	20.50	18.50	18.50	No
			100.00%	0.00	18.50	18.50	18.50	Yes
			21.40%	-6.70	20.50	16.50	13.80	No
			41.40%	-3.83	20.33	16.50	16.50	No
N77	Ant 23	DSI 3	61.40%	-2.12	18.62	16.50	16.50	No
			100.00%	0.00	16.50	16.50	16.50	Yes
			21.40%	-6.70	20.50	15.50	13.80	No
			41.40%	-3.83	19.33	15.50	15.50	No
N77	Ant 23	DSI 4/7	61.40%	-2.12	17.62	15.50	15.50	No
			100.00%	0.00	15.50	15.50	15.50	Yes
			21.40%	-6.70	20.50	18.00	13.80	No
			41.40%	-3.83	20.50	18.00	16.67	No
N78 PC2	Ant 23	DSI 2	61.40%	-2.12	20.12	18.00	18.00	No
			100.00%	0.00	18.00	18.00	18.00	Yes
			21.40%	-6.70	22.00	16.50	15.30	No
			41.40%	-3.83	20.33	16.50	16.50	No
N78 PC2	Ant 23	DSI 3	61.40%	-2.12	18.62	16.50	16.50	No
			100.00%	0.00	16.50	16.50	16.50	Yes
			21.40%	-6.70	22.00	16.00	15.30	No
			41.40%	-3.83	19.83	16.00	16.00	No



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N78 PC2	Ant 23	DSI 4/7	21.40%	-6.70	22.00	18.50	15.30	No
			41.40%	-3.83	22.00	18.50	18.17	No
			61.40%	-2.12	20.62	18.50	18.50	No
			100.00%	0.00	18.50	18.50	18.50	Yes
N78 PC2	Ant 23	DSI 5/6	21.40%	-6.70	22.00	17.00	15.30	No
			41.40%	-3.83	20.83	17.00	17.00	No
			61.40%	-2.12	19.12	17.00	17.00	No
			100.00%	0.00	17.00	17.00	17.00	Yes
N78 PC3	Ant 23	DSI 2	21.40%	-6.70	19.00	16.50	12.30	No
			41.40%	-3.83	19.00	16.50	15.17	No
			61.40%	-2.12	18.62	16.50	16.50	No
			100.00%	0.00	16.50	16.50	16.50	Yes
N78 PC3	Ant 23	DSI 3	21.40%	-6.70	19.00	16.00	12.30	No
			41.40%	-3.83	19.00	16.00	15.17	No
			61.40%	-2.12	18.12	16.00	16.00	No
			100.00%	0.00	16.00	16.00	16.00	Yes
N78 PC3	Ant 23	DSI 4/7	21.40%	-6.70	19.00	18.50	12.30	No
			41.40%	-3.83	19.00	18.50	15.17	No
			61.40%	-2.12	19.00	18.50	16.88	No
			100.00%	0.00	18.50	18.50	18.50	Yes
N78 PC3	Ant 23	DSI 5/6	21.40%	-6.70	19.00	17.00	12.30	No
			41.40%	-3.83	19.00	17.00	15.17	No
			61.40%	-2.12	19.00	17.00	16.88	No
			100.00%	0.00	17.00	17.00	17.00	Yes



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8 Test Result

8.1 Measurement of RF conducted Power

The detailed conducted power can be referred to Appendix E.

Note:

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

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

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
 Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8).
- 3) . When the maximum output power variation across the required test channels is > ½ 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 ¼ 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.



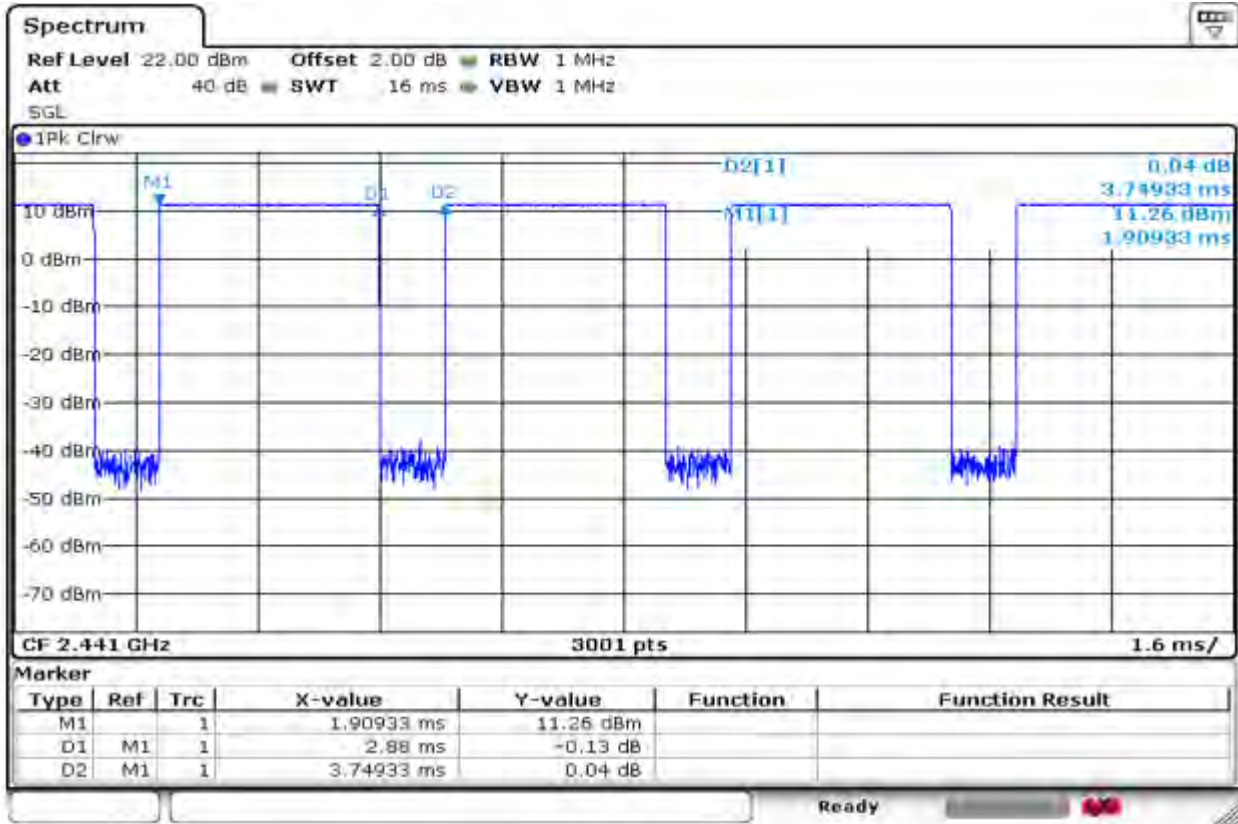
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2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent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

9) . The conducted power of BT is measured with RMS detector. BT DH5 Duty Cycle=2.88/3.74933=76.81%



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8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.

WiFi 2.4G:

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

WiFi 5G:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is $\leq 1.2\text{ W/kg}$, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.

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



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8.2.1 SAR Result of GSM850

Ant 11 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2										
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.381	-0.08	30.68	31.30	1.153	0.439	22.6
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.049	0.08	30.68	31.30	1.153	0.056	22.6
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.232	0.02	30.68	31.30	1.153	0.268	22.6
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.045	0.03	30.68	31.30	1.153	0.052	22.6
Body worn Test data (Separate 15mm) DSI 4/7										
Front side	GSM	190/836.6	1:8.3	0.110	0.16	33.00	33.70	1.175	0.129	22.6
Back side	GSM	190/836.6	1:8.3	0.144	-0.12	33.00	33.70	1.175	0.169	22.6
Hotspot Test data (Separate 10mm) DSI 6										
Front side	GPRS 2TS	190/836.6	1:4.15	0.184	0.19	30.68	31.30	1.153	0.212	22.6
Back side	GPRS 2TS	190/836.6	1:4.15	0.273	-0.17	30.68	31.30	1.153	0.315	22.6
Left side	GPRS 2TS	190/836.6	1:4.15	0.397	0.07	30.68	31.30	1.153	0.458	22.6
Ant 41 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI2										
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.142	0.17	30.53	31.30	1.194	0.170	22.6
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.077	0.12	30.53	31.30	1.194	0.092	22.6
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.154	-0.01	30.53	31.30	1.194	0.184	22.6
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.076	0.09	30.53	31.30	1.194	0.090	22.6
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	GSM	190/836.6	1:8.3	0.155	-0.06	32.92	33.70	1.197	0.185	22.6
Back side	GSM	190/836.6	1:8.3	0.184	-0.07	32.92	33.70	1.197	0.220	22.6
Hotspot Test data(Separate 10mm) DSI 6										
Front side	GPRS 2TS	190/836.6	1:4.15	0.221	-0.04	30.53	31.30	1.194	0.264	22.6
Back side	GPRS 2TS	190/836.6	1:4.15	0.323	-0.09	30.53	31.30	1.194	0.386	22.6
Left side	GPRS 2TS	190/836.6	1:4.15	0.139	-0.11	30.53	31.30	1.194	0.166	22.6
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.156	-0.04	30.53	31.30	1.194	0.186	22.6

Table 11: SAR of GSM850 for Head and Body.



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8.2.2 SAR Result of GSM1900

Ant 15 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	GSM	661/1880	1:8.3	0.109	-0.05	30.25	31.00	1.189	0.130	21.9
Back side	GSM	661/1880	1:8.3	0.152	0.02	30.25	31.00	1.189	0.181	21.9
Hotspot Test data(Separate 10mm) DSI 6										
Front side	GPRS 2TS	661/1880	1:4.15	0.248	-0.06	27.27	28.00	1.183	0.293	21.9
Back side	GPRS 2TS	661/1880	1:4.15	0.334	-0.07	27.27	28.00	1.183	0.395	21.9
Left side	GPRS 2TS	661/1880	1:4.15	0.135	-0.09	27.27	28.00	1.183	0.160	21.9
Top side	GPRS 2TS	661/1880	1:4.15	0.436	0.01	27.27	28.00	1.183	0.516	21.9
Ant 31 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2										
Left cheek	GPRS 2TS	661/1880	1:4.15	0.077	0.01	27.59	28.50	1.233	0.095	21.9
Left tilted	GPRS 2TS	661/1880	1:4.15	0.032	0.18	27.59	28.50	1.233	0.039	21.9
Right cheek	GPRS 2TS	661/1880	1:4.15	0.050	0.03	27.59	28.50	1.233	0.062	21.9
Right tilted	GPRS 2TS	661/1880	1:4.15	0.024	0.05	27.59	28.50	1.233	0.030	21.9
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	GSM	661/1880	1:8.3	0.241	-0.14	30.62	31.00	1.091	0.263	21.9
Back side	GSM	661/1880	1:8.3	0.300	-0.06	30.62	31.00	1.091	0.327	21.9
Hotspot Test data(Separate 10mm) DSI 6										
Front side	GPRS 4TS	661/1880	1:2.075	0.263	0.05	22.61	23.50	1.227	0.323	21.9
Back side	GPRS 4TS	661/1880	1:2.075	0.353	-0.11	22.61	23.50	1.227	0.433	21.9
Right side	GPRS 4TS	661/1880	1:2.075	0.063	-0.01	22.61	23.50	1.227	0.077	21.9
Bottom side	GPRS 4TS	661/1880	1:2.075	0.233	-0.06	22.61	23.50	1.227	0.286	21.9

Table 12: SAR of GSM1900 for Head and Body.



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8.2.3 SAR Result of WCDMA Band II

Ant 15 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	RMC	9400/1880	1:1	0.132	0.06	21.64	22.80	1.306	0.172	22.3
Back side	RMC	9400/1880	1:1	0.176	0.18	21.64	22.80	1.306	0.230	22.3
Hotspot Test data(Separate 10mm) DSI 6										
Front side	RMC	9400/1880	1:1	0.188	0.08	20.16	21.30	1.300	0.244	22.3
Back side	RMC	9400/1880	1:1	0.250	0.15	20.16	21.30	1.300	0.325	22.3
Left side	RMC	9400/1880	1:1	0.083	-0.01	20.16	21.30	1.300	0.107	22.3
Top side	RMC	9400/1880	1:1	0.336	-0.08	20.16	21.30	1.300	0.437	22.3
Ant 31 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2										
Left cheek	RMC	9400/1880	1:1	0.163	-0.03	23.05	24.00	1.245	0.203	22.3
Left tilted	RMC	9400/1880	1:1	0.088	0.02	23.05	24.00	1.245	0.110	22.3
Right cheek	RMC	9400/1880	1:1	0.110	0.07	23.05	24.00	1.245	0.137	22.3
Right tilted	RMC	9400/1880	1:1	0.136	0.19	23.05	24.00	1.245	0.169	22.3
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	RMC	9400/1880	1:1	0.164	-0.08	20.56	21.50	1.242	0.204	22.3
Back side	RMC	9400/1880	1:1	0.216	0.00	20.56	21.50	1.242	0.268	22.3
Hotspot Test data(Separate 10mm) DSI 6										
Front side	RMC	9400/1880	1:1	0.241	0.04	19.03	20.00	1.250	0.301	22.3
Back side	RMC	9400/1880	1:1	0.296	-0.14	19.03	20.00	1.250	0.370	22.3
Right side	RMC	9400/1880	1:1	0.080	-0.03	19.03	20.00	1.250	0.100	22.3
Bottom side	RMC	9400/1880	1:1	0.318	-0.18	19.03	20.00	1.250	0.398	22.3

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



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8.2.4 SAR Result of WCDMA Band IV

Ant 15 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	RMC	1412/1732.4	1:1	0.176	-0.07	21.03	22.00	1.250	0.220	22.2
Back side	RMC	1412/1732.4	1:1	0.249	0.01	21.03	22.00	1.250	0.311	22.2
Hotspot Test data(Separate 10mm) DSI 6										
Front side	RMC	1412/1732.4	1:1	0.230	-0.02	19.03	20.00	1.250	0.288	22.2
Back side	RMC	1412/1732.4	1:1	0.309	0.08	19.03	20.00	1.250	0.386	22.2
Left side	RMC	1412/1732.4	1:1	0.099	-0.06	19.03	20.00	1.250	0.123	22.2
Top side	RMC	1412/1732.4	1:1	0.349	-0.14	19.03	20.00	1.250	0.436	22.2
Ant 31 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2										
Left cheek	RMC	1412/1732.4	1:1	0.195	0.03	24.25	25.00	1.189	0.232	22.2
Left tilted	RMC	1412/1732.4	1:1	0.046	0.06	24.25	25.00	1.189	0.055	22.2
Right cheek	RMC	1412/1732.4	1:1	0.120	0.02	24.25	25.00	1.189	0.143	22.2
Right tilted	RMC	1412/1732.4	1:1	0.097	0.03	24.25	25.00	1.189	0.115	22.2
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	RMC	1412/1732.4	1:1	0.301	0.08	22.26	23.00	1.186	0.357	22.2
Back side	RMC	1412/1732.4	1:1	0.357	-0.06	22.26	23.00	1.186	0.423	22.2
Hotspot Test data(Separate 10mm) DSI 6										
Front side	RMC	1412/1732.4	1:1	0.211	0.15	18.72	19.50	1.197	0.253	22.2
Back side	RMC	1412/1732.4	1:1	0.294	0.04	18.72	19.50	1.197	0.352	22.2
Right side	RMC	1412/1732.4	1:1	0.073	0.04	18.72	19.50	1.197	0.087	22.2
Bottom side	RMC	1412/1732.4	1:1	0.361	-0.17	18.72	19.50	1.197	0.432	22.2

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



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8.2.5 SAR Result of WCDMA Band V

Ant 11 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2										
Left cheek	RMC	4182/836.4	1:1	0.489	0.05	23.24	24.80	1.432	0.700	22.7
Left tilted	RMC	4182/836.4	1:1	0.063	0.11	23.24	24.80	1.432	0.090	22.7
Right cheek	RMC	4182/836.4	1:1	0.213	0.15	23.24	24.80	1.432	0.305	22.7
Right tilted	RMC	4182/836.4	1:1	0.049	0.19	23.24	24.80	1.432	0.070	22.7
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	RMC	4182/836.4	1:1	0.155	0.11	23.78	25.30	1.419	0.220	22.7
Back side	RMC	4182/836.4	1:1	0.231	-0.12	23.78	25.30	1.419	0.328	22.7
Hotspot Test data(Separate 10mm) DSI 6										
Front side	RMC	4182/836.4	1:1	0.234	0.19	23.24	24.80	1.432	0.335	22.7
Back side	RMC	4182/836.4	1:1	0.366	-0.16	23.24	24.80	1.432	0.524	22.7
Left side	RMC	4182/836.4	1:1	0.534	-0.01	23.24	24.80	1.432	0.765	22.7
Ant 41 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2										
Left cheek	RMC	4182/836.4	1:1	0.165	-0.01	23.83	25.00	1.309	0.216	22.7
Left tilted	RMC	4182/836.4	1:1	0.090	-0.05	23.83	25.00	1.309	0.117	22.7
Right cheek	RMC	4182/836.4	1:1	0.179	0.05	23.83	25.00	1.309	0.234	22.7
Right tilted	RMC	4182/836.4	1:1	0.081	0.18	23.83	25.00	1.309	0.106	22.7
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	RMC	4182/836.4	1:1	0.158	-0.06	23.83	25.00	1.309	0.207	22.7
Back side	RMC	4182/836.4	1:1	0.231	-0.01	23.83	25.00	1.309	0.302	22.7
Hotspot Test data(Separate 10mm) DSI 6										
Front side	RMC	4182/836.4	1:1	0.142	-0.04	23.33	24.50	1.309	0.186	22.7
Back side	RMC	4182/836.4	1:1	0.382	0.02	23.33	24.50	1.309	0.500	22.7
Left side	RMC	4182/836.4	1:1	0.158	-0.02	23.33	24.50	1.309	0.207	22.7
Bottom side	RMC	4182/836.4	1:1	0.202	-0.02	23.33	24.50	1.309	0.264	22.7

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



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8.2.6 SAR Result of CDMA BC0

Ant 11 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2										
Left cheek	CDMA RC3+SO55	384/836.52	1:1	0.462	-0.06	23.03	24.20	1.309	0.605	22.5
Left tilted	CDMA RC3+SO55	384/836.52	1:1	0.056	0.01	23.03	24.20	1.309	0.073	22.5
Right cheek	CDMA RC3+SO55	384/836.52	1:1	0.193	0.04	23.03	24.20	1.309	0.253	22.5
Right tilted	CDMA RC3+SO55	384/836.52	1:1	0.054	-0.05	23.03	24.20	1.309	0.070	22.5
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	CDMA RC3+SO32	384/836.52	1:1	0.136	-0.04	23.58	24.70	1.294	0.176	22.5
Back side	CDMA RC3+SO32	384/836.52	1:1	0.198	-0.02	23.58	24.70	1.294	0.256	22.5
Hotspot Test data(Separate 10mm) DSI 6										
Front side	CDMA RC3+SO32	384/836.52	1:1	0.201	0.06	23.00	24.20	1.318	0.265	22.5
Back side	CDMA RC3+SO32	384/836.52	1:1	0.308	-0.06	23.00	24.20	1.318	0.406	22.5
Left side	CDMA RC3+SO32	384/836.52	1:1	0.424	-0.04	23.00	24.20	1.318	0.559	22.5
Left side	EVDO RTAP 153.6Kbps	384/836.52	1:1	0.478	-0.09	22.98	24.20	1.324	0.633	22.5
Left side	EVDO RETAP 4096Bits	384/836.52	1:1	0.492	-0.19	23.00	24.20	1.318	0.649	22.5
Ant 41 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2										
Left cheek	CDMA RC3+SO55	384/836.52	1:1	0.141	-0.14	23.55	24.50	1.245	0.175	22.5
Left tilted	CDMA RC3+SO55	384/836.52	1:1	0.071	0.05	23.55	24.50	1.245	0.089	22.5
Right cheek	CDMA RC3+SO55	384/836.52	1:1	0.146	0.09	23.55	24.50	1.245	0.182	22.5
Right tilted	CDMA RC3+SO55	384/836.52	1:1	0.067	0.19	23.55	24.50	1.245	0.083	22.5
Body worn Test data(Separate 15mm) DSI 4/7										
Front side	CDMA RC3+SO32	384/836.52	1:1	0.137	-0.04	23.61	24.50	1.227	0.168	22.5
Back side	CDMA RC3+SO32	384/836.52	1:1	0.192	0.08	23.61	24.50	1.227	0.236	22.5
Hotspot Test data(Separate 10mm) DSI 6										
Front side	CDMA RC3+SO32	384/836.52	1:1	0.197	-0.07	23.11	24.00	1.227	0.242	22.5
Back side	CDMA RC3+SO32	384/836.52	1:1	0.336	0.02	23.11	24.00	1.227	0.412	22.5
Left side	CDMA RC3+SO32	384/836.52	1:1	0.104	-0.09	23.11	24.00	1.227	0.128	22.5
Bottom side	CDMA RC3+SO32	384/836.52	1:1	0.179	-0.17	23.11	24.00	1.227	0.220	22.5
Back side	EVDO RTAP 153.6Kbps	384/836.52	1:1	0.322	-0.05	22.99	24.00	1.262	0.406	22.5
Back side	EVDO RETAP 4096Bits	384/836.52	1:1	0.321	0.10	23.02	24.00	1.253	0.402	22.5

Table 16: SAR of CDMA BC0 for Head and Body.



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8.2.7 SAR Result of LTE Band 2

Ant 15 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1_50	19100/1900	1:1	0.165	0.06	22.32	23.30	1.253	0.207	22.3
Back side	20	QPSK 1_50	19100/1900	1:1	0.195	0.06	22.32	23.30	1.253	0.244	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50_25	19100/1900	1:1	0.151	0.03	21.91	22.80	1.227	0.185	22.3
Back side	20	QPSK 50_25	19100/1900	1:1	0.178	0.10	21.91	22.80	1.227	0.218	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_0	18700/1860	1:1	0.170	0.11	20.27	21.30	1.268	0.216	22.3
Back side	20	QPSK 1_0	18700/1860	1:1	0.219	0.05	20.27	21.30	1.268	0.278	22.3
Left side	20	QPSK 1_0	18700/1860	1:1	0.057	0.04	20.27	21.30	1.268	0.073	22.3
Top side	20	QPSK 1_0	18700/1860	1:1	0.329	0.19	20.27	21.30	1.268	0.417	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_50	19100/1900	1:1	0.196	0.16	20.30	21.30	1.259	0.247	22.3
Back side	20	QPSK 50_50	19100/1900	1:1	0.222	-0.01	20.30	21.30	1.259	0.279	22.3
Left side	20	QPSK 50_50	19100/1900	1:1	0.087	-0.03	20.30	21.30	1.259	0.110	22.3
Top side	20	QPSK 50_50	19100/1900	1:1	0.314	0.16	20.30	21.30	1.259	0.395	22.3
Ant 31 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.129	0.04	23.15	24.00	1.216	0.157	22.3
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.051	0.07	23.15	24.00	1.216	0.063	22.3
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.070	0.01	23.15	24.00	1.216	0.085	22.3
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.081	-0.06	23.15	24.00	1.216	0.098	22.3
Head Test Data(50%RB) DSI 2											
Left cheek	20	QPSK 50_25	18700/1860	1:1	0.098	-0.02	22.29	23.00	1.178	0.115	22.3
Left tilted	20	QPSK 50_25	18700/1860	1:1	0.038	0.01	22.29	23.00	1.178	0.045	22.3
Right cheek	20	QPSK 50_25	18700/1860	1:1	0.059	-0.04	22.29	23.00	1.178	0.069	22.3
Right tilted	20	QPSK 50_25	18700/1860	1:1	0.056	0.08	22.29	23.00	1.178	0.066	22.3
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1_0	18700/1860	1:1	0.208	-0.05	21.33	22.00	1.167	0.243	22.3
Back side	20	QPSK 1_0	18700/1860	1:1	0.216	-0.02	21.33	22.00	1.167	0.252	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50_0	18700/1860	1:1	0.159	0.04	21.27	22.00	1.183	0.188	22.3
Back side	20	QPSK 50_0	18700/1860	1:1	0.221	-0.19	21.27	22.00	1.183	0.261	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_0	18900/1880	1:1	0.196	0.02	19.80	20.50	1.175	0.230	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.292	-0.09	19.80	20.50	1.175	0.343	22.3
Right side	20	QPSK 1_0	18900/1880	1:1	0.068	-0.06	19.80	20.50	1.175	0.080	22.3
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.354	-0.04	19.80	20.50	1.175	0.416	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_0	18700/1860	1:1	0.198	0.02	19.79	20.50	1.178	0.233	22.3
Back side	20	QPSK 50_0	18700/1860	1:1	0.300	-0.09	19.79	20.50	1.178	0.353	22.3
Right side	20	QPSK 50_0	18700/1860	1:1	0.073	0.06	19.79	20.50	1.178	0.086	22.3
Bottom side	20	QPSK 50_0	18700/1860	1:1	0.361	-0.14	19.79	20.50	1.178	0.425	22.3

Table 17: SAR of LTE Band 2 for Head and Body.



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8.2.8 SAR Result of LTE Band 4

Ant 15 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.214	0.00	21.71	22.30	1.146	0.245	22.2
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.315	0.08	21.71	22.30	1.146	0.361	22.2
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50_25	20050/1720	1:1	0.215	-0.07	21.71	22.30	1.146	0.246	22.2
Back side	20	QPSK 50_25	20050/1720	1:1	0.322	0.09	21.71	22.30	1.146	0.369	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.275	0.12	20.15	20.80	1.161	0.319	22.2
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.377	0.11	20.15	20.80	1.161	0.438	22.2
Left side	20	QPSK 1_0	20175/1732.5	1:1	0.096	0.02	20.15	20.80	1.161	0.111	22.2
Top side	20	QPSK 1_0	20175/1732.5	1:1	0.484	0.09	20.15	20.80	1.161	0.562	22.2
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_50	20175/1732.5	1:1	0.280	0.12	20.16	20.80	1.159	0.324	22.2
Back side	20	QPSK 50_50	20175/1732.5	1:1	0.421	0.12	20.16	20.80	1.159	0.488	22.2
Left side	20	QPSK 50_50	20175/1732.5	1:1	0.092	-0.02	20.16	20.80	1.159	0.106	22.2
Top side	20	QPSK 50_50	20175/1732.5	1:1	0.486	0.11	20.16	20.80	1.159	0.563	22.2
Ant 31 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	20	QPSK 1_0	20050/1720	1:1	0.131	0.14	23.93	24.50	1.140	0.149	22.2
Left tilted	20	QPSK 1_0	20050/1720	1:1	0.040	0.05	23.93	24.50	1.140	0.046	22.2
Right cheek	20	QPSK 1_0	20050/1720	1:1	0.075	0.10	23.93	24.50	1.140	0.085	22.2
Right tilted	20	QPSK 1_0	20050/1720	1:1	0.045	0.04	23.93	24.50	1.140	0.052	22.2
Head Test Data(50%RB) DSI 2											
Left cheek	20	QPSK 50_50	20050/1720	1:1	0.103	0.03	22.98	23.50	1.127	0.116	22.2
Left tilted	20	QPSK 50_50	20050/1720	1:1	0.033	0.08	22.98	23.50	1.127	0.037	22.2
Right cheek	20	QPSK 50_50	20050/1720	1:1	0.064	0.02	22.98	23.50	1.127	0.072	22.2
Right tilted	20	QPSK 50_50	20050/1720	1:1	0.038	0.04	22.98	23.50	1.127	0.042	22.2
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1_0	20300/1745	1:1	0.304	0.09	22.93	23.50	1.140	0.347	22.2
Back side	20	QPSK 1_0	20300/1745	1:1	0.389	-0.03	22.93	23.50	1.140	0.444	22.2
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50_50	20050/1720	1:1	0.325	-0.07	22.97	23.50	1.130	0.367	22.2
Back side	20	QPSK 50_50	20050/1720	1:1	0.405	-0.06	22.97	23.50	1.130	0.458	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.245	0.04	19.44	20.00	1.138	0.279	22.2
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.331	-0.09	19.44	20.00	1.138	0.377	22.2
Right side	20	QPSK 1_0	20175/1732.5	1:1	0.062	0.19	19.44	20.00	1.138	0.070	22.2
Bottom side	20	QPSK 1_0	20175/1732.5	1:1	0.402	-0.14	19.44	20.00	1.138	0.457	22.2
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_25	20300/1745	1:1	0.233	-0.04	19.43	20.00	1.140	0.266	22.2
Back side	20	QPSK 50_25	20300/1745	1:1	0.328	0.08	19.43	20.00	1.140	0.374	22.2
Right side	20	QPSK 50_25	20300/1745	1:1	0.058	0.10	19.43	20.00	1.140	0.066	22.2
Bottom side	20	QPSK 50_25	20300/1745	1:1	0.400	-0.13	19.43	20.00	1.140	0.456	22.2



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Inter-band CA LTE Band4 SAR Test Record											
Ant 12 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	20	QPSK 1_0	20300/1745	1:1	0.057	-0.05	20.04	21.50	1.400	0.079	22.1
Left tilted	20	QPSK 1_0	20300/1745	1:1	0.031	-0.08	20.04	21.50	1.400	0.043	22.1
Right cheek	20	QPSK 1_0	20300/1745	1:1	0.256	0.01	20.04	21.50	1.400	0.358	22.1
Right tilted	20	QPSK 1_0	20300/1745	1:1	0.069	0.09	20.04	21.50	1.400	0.097	22.1
Head Test Data(50%RB) DSI 2											
Left cheek	20	QPSK 50_25	20300/1745	1:1	0.058	0.02	19.10	20.50	1.380	0.079	22.1
Left tilted	20	QPSK 50_25	20300/1745	1:1	0.031	0.06	19.10	20.50	1.380	0.042	22.1
Right cheek	20	QPSK 50_25	20300/1745	1:1	0.226	0.03	19.10	20.50	1.380	0.312	22.1
Right tilted	20	QPSK 50_25	20300/1745	1:1	0.069	0.09	19.10	20.50	1.380	0.095	22.1
Body worn Test data(Separate 15mm 1RB) DSI 7											
Front side	20	QPSK 1_0	20300/1745	1:1	0.018	0.12	20.04	21.50	1.400	0.025	22.1
Back side	20	QPSK 1_0	20300/1745	1:1	0.038	0.01	20.04	21.50	1.400	0.054	22.1
Body worn Test data(Separate 15mm 50%RB) DSI 7											
Front side	20	QPSK 50_25	20300/1745	1:1	0.017	-0.10	19.10	20.50	1.380	0.023	22.1
Back side	20	QPSK 50_25	20300/1745	1:1	0.033	-0.06	19.10	20.50	1.380	0.046	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_0	20300/1745	1:1	0.037	0.05	20.04	21.50	1.400	0.052	22.1
Back side	20	QPSK 1_0	20300/1745	1:1	0.095	0.03	20.04	21.50	1.400	0.134	22.1
Left side	20	QPSK 1_0	20300/1745	1:1	0.103	-0.08	20.04	21.50	1.400	0.144	22.1
Top side	20	QPSK 1_0	20300/1745	1:1	0.013	0.05	20.04	21.50	1.400	0.018	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_25	20300/1745	1:1	0.032	-0.07	19.10	20.50	1.380	0.043	22.1
Back side	20	QPSK 50_25	20300/1745	1:1	0.077	0.01	19.10	20.50	1.380	0.106	22.1
Left side	20	QPSK 50_25	20300/1745	1:1	0.096	0.11	19.10	20.50	1.380	0.133	22.1
Top side	20	QPSK 50_25	20300/1745	1:1	0.013	-0.05	19.10	20.50	1.380	0.018	22.1

Table 18: SAR of LTE Band 4 for Head and Body.



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8.2.9 SAR Result of LTE Band 7

Ant 15 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1 99	21350/2560	1:1	0.212	-0.10	22.15	22.80	1.161	0.246	22.1
Back side	20	QPSK 1 99	21350/2560	1:1	0.218	-0.06	22.15	22.80	1.161	0.253	22.1
Back side	20	QPSK 1 0	21350/2560	1:1	0.139	0.02	21.46	22.80	1.361	0.189	22.1
		QPSK 0 0	21152/2540.2								
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50 50	21350/2560	1:1	0.197	-0.18	21.66	22.30	1.159	0.228	22.1
Back side	20	QPSK 50 50	21350/2560	1:1	0.202	0.08	21.66	22.30	1.159	0.234	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1 99	21350/2560	1:1	0.227	-0.05	20.53	21.30	1.194	0.271	22.1
Back side	20	QPSK 1 99	21350/2560	1:1	0.263	0.14	20.53	21.30	1.194	0.314	22.1
Left side	20	QPSK 1 99	21350/2560	1:1	0.135	0.08	20.53	21.30	1.194	0.161	22.1
Top side	20	QPSK 1 99	21350/2560	1:1	0.301	-0.17	20.53	21.30	1.194	0.359	22.1
Top side	20	QPSK 1 0	21350/2560	1:1	0.265	0.00	19.96	21.30	1.361	0.361	22.1
		QPSK 0 0	21152/2540.2								
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50 50	21350/2560	1:1	0.220	-0.01	20.64	21.30	1.164	0.256	22.1
Back side	20	QPSK 50 50	21350/2560	1:1	0.257	0.03	20.64	21.30	1.164	0.299	22.1
Left side	20	QPSK 50 50	21350/2560	1:1	0.125	0.04	20.64	21.30	1.164	0.146	22.1
Top side	20	QPSK 50 50	21350/2560	1:1	0.289	-0.04	20.64	21.30	1.164	0.336	22.1
Ant 31 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	20	QPSK 1 99	20850/2510	1:1	0.045	-0.09	23.34	24.00	1.164	0.053	22.1
Left tilted	20	QPSK 1 99	20850/2510	1:1	0.055	-0.08	23.34	24.00	1.164	0.064	22.1
Right cheek	20	QPSK 1 99	20850/2510	1:1	0.103	0.03	23.34	24.00	1.164	0.120	22.1
Right tilted	20	QPSK 1 99	20850/2510	1:1	0.107	-0.02	23.34	24.00	1.164	0.125	22.1
Right tilted	20	QPSK 1 0	20850/2510	1:1	0.098	-0.03	22.84	24.00	1.306	0.128	22.1
		QPSK 0 0	21048/2529.8								
Head Test Data(50%RB) DSI 2											
Left cheek	20	QPSK 50 25	21350/2560	1:1	0.036	0.08	22.38	23.00	1.153	0.041	22.1
Left tilted	20	QPSK 50 25	21350/2560	1:1	0.040	-0.02	22.38	23.00	1.153	0.046	22.1
Right cheek	20	QPSK 50 25	21350/2560	1:1	0.053	0.06	22.38	23.00	1.153	0.061	22.1
Right tilted	20	QPSK 50 25	21350/2560	1:1	0.078	-0.07	22.38	23.00	1.153	0.090	22.1
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1 99	21350/2560	1:1	0.061	-0.07	21.75	22.50	1.189	0.072	22.1
Back side	20	QPSK 1 99	21350/2560	1:1	0.114	0.00	21.75	22.50	1.189	0.135	22.1
Back side	20	QPSK 1 0	21350/2560	1:1	0.099	0.02	21.06	22.50	1.393	0.138	22.1
		QPSK 0 0	21152/2540.2								
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50 50	21350/2560	1:1	0.072	-0.12	21.97	22.50	1.130	0.082	22.1
Back side	20	QPSK 50 50	21350/2560	1:1	0.116	0.00	21.97	22.50	1.130	0.131	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1 99	21350/2560	1:1	0.099	-0.07	20.26	21.00	1.186	0.117	22.1
Back side	20	QPSK 1 99	21350/2560	1:1	0.194	-0.09	20.26	21.00	1.186	0.230	22.1
Right side	20	QPSK 1 99	21350/2560	1:1	0.050	-0.02	20.26	21.00	1.186	0.059	22.1
Bottom side	20	QPSK 1 99	21350/2560	1:1	0.155	0.03	20.26	21.00	1.186	0.184	22.1
Back side	20	QPSK 1 0	21350/2560	1:1	0.200	0.19	19.51	21.00	1.409	0.282	22.1
		QPSK 0 0	21152/2540.2								
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50 50	21350/2560	1:1	0.095	-0.13	20.39	21.00	1.151	0.109	22.1
Back side	20	QPSK 50 50	21350/2560	1:1	0.187	-0.03	20.39	21.00	1.151	0.215	22.1
Right side	20	QPSK 50 50	21350/2560	1:1	0.050	-0.01	20.39	21.00	1.151	0.057	22.1
Bottom side	20	QPSK 50 50	21350/2560	1:1	0.148	0.07	20.39	21.00	1.151	0.170	22.1



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ENDC LTE Band 7 SAR Test Record											
Ant 12 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	20	QPSK 1_99	20850/2510	1:1	0.127	0.06	19.37	20.50	1.297	0.165	22.3
Left tilted	20	QPSK 1_99	20850/2510	1:1	0.077	0.05	19.37	20.50	1.297	0.100	22.3
Right cheek	20	QPSK 1_99	20850/2510	1:1	0.398	0.02	19.37	20.50	1.297	0.516	22.3
Right tilted	20	QPSK 1_99	20850/2510	1:1	0.162	0.09	19.37	20.50	1.297	0.210	22.3
Head Test Data(50%RB) DSI 2											
Left cheek	20	QPSK 50_50	20850/2510	1:1	0.127	0.13	19.43	20.50	1.279	0.162	22.3
Left tilted	20	QPSK 50_50	20850/2510	1:1	0.074	0.09	19.43	20.50	1.279	0.095	22.3
Right cheek	20	QPSK 50_50	20850/2510	1:1	0.356	0.08	19.43	20.50	1.279	0.455	22.3
Right tilted	20	QPSK 50_50	20850/2510	1:1	0.147	0.02	19.43	20.50	1.279	0.188	22.3
Body worn Test data(Separate 15mm 1RB) DSI 7											
Front side	20	QPSK 1_99	20850/2510	1:1	0.094	-0.06	22.92	24.00	1.282	0.121	22.3
Back side	20	QPSK 1_99	20850/2510	1:1	0.188	-0.02	22.92	24.00	1.282	0.241	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 7											
Front side	20	QPSK 50_25	20850/2510	1:1	0.070	-0.06	21.97	23.00	1.268	0.088	22.3
Back side	20	QPSK 50_25	20850/2510	1:1	0.145	-0.04	21.97	23.00	1.268	0.184	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_99	21100/2535	1:1	0.130	0.03	19.92	21.00	1.282	0.167	22.3
Back side	20	QPSK 1_99	21100/2535	1:1	0.295	0.08	19.92	21.00	1.282	0.378	22.3
Left side	20	QPSK 1_99	21100/2535	1:1	0.272	-0.03	19.92	21.00	1.282	0.349	22.3
Top side	20	QPSK 1_99	21100/2535	1:1	0.050	0.06	19.92	21.00	1.282	0.064	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_50	20850/2510	1:1	0.100	0.08	20.01	21.00	1.256	0.126	22.3
Back side	20	QPSK 50_50	20850/2510	1:1	0.226	-0.04	20.01	21.00	1.256	0.284	22.3
Left side	20	QPSK 50_50	20850/2510	1:1	0.227	0.10	20.01	21.00	1.256	0.285	22.3
Top side	20	QPSK 50_50	20850/2510	1:1	0.037	0.04	20.01	21.00	1.256	0.046	22.3

Table 19: SAR of LTE Band 7 for Head and Body.



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8.2.10 SAR Result of LTE Band 12

Ant 11 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	10	QPSK 1 0	23060/704	1:1	0.214	-0.13	24.52	25.50	1.253	0.268	22.6
Left tilted	10	QPSK 1 0	23060/704	1:1	0.029	0.03	24.52	25.50	1.253	0.037	22.6
Right cheek	10	QPSK 1 0	23060/704	1:1	0.089	0.14	24.52	25.50	1.253	0.112	22.6
Right tilted	10	QPSK 1 0	23060/704	1:1	0.028	0.06	24.52	25.50	1.253	0.035	22.6
Head Test Data(50%RB) DSI 2											
Left cheek	10	QPSK 25 25	23060/704	1:1	0.166	0.09	23.47	24.50	1.268	0.210	22.6
Left tilted	10	QPSK 25 25	23060/704	1:1	0.026	0.04	23.47	24.50	1.268	0.033	22.6
Right cheek	10	QPSK 25 25	23060/704	1:1	0.087	0.01	23.47	24.50	1.268	0.110	22.6
Right tilted	10	QPSK 25 25	23060/704	1:1	0.025	0.06	23.47	24.50	1.268	0.031	22.6
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	10	QPSK 1 0	23060/704	1:1	0.065	-0.02	24.52	25.50	1.253	0.082	22.6
Back side	10	QPSK 1 0	23060/704	1:1	0.107	0.02	24.52	25.50	1.253	0.134	22.6
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	10	QPSK 25 25	23060/704	1:1	0.062	0.01	23.47	24.50	1.268	0.078	22.6
Back side	10	QPSK 25 25	23060/704	1:1	0.100	0.02	23.47	24.50	1.268	0.127	22.6
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	10	QPSK 1 0	23060/704	1:1	0.096	0.10	24.52	25.50	1.253	0.120	22.6
Back side	10	QPSK 1 0	23060/704	1:1	0.187	0.06	24.52	25.50	1.253	0.234	22.6
Left side	10	QPSK 1 0	23060/704	1:1	0.295	-0.05	24.52	25.50	1.253	0.370	22.6
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	10	QPSK 25 25	23060/704	1:1	0.102	0.16	23.47	24.50	1.268	0.129	22.6
Back side	10	QPSK 25 25	23060/704	1:1	0.173	-0.18	23.47	24.50	1.268	0.219	22.6
Left side	10	QPSK 25 25	23060/704	1:1	0.264	-0.04	23.47	24.50	1.268	0.335	22.6
Ant 41 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	10	QPSK 1 0	23095/707.5	1:1	0.119	0.07	24.55	25.30	1.189	0.141	22.6
Left tilted	10	QPSK 1 0	23095/707.5	1:1	0.053	0.09	24.55	25.30	1.189	0.063	22.6
Right cheek	10	QPSK 1 0	23095/707.5	1:1	0.110	0.05	24.55	25.30	1.189	0.131	22.6
Right tilted	10	QPSK 1 0	23095/707.5	1:1	0.056	0.13	24.55	25.30	1.189	0.066	22.6
Head Test Data(50%RB) DSI 2											
Left cheek	10	QPSK 25 13	23060/704	1:1	0.096	0.06	23.54	24.30	1.191	0.115	22.6
Left tilted	10	QPSK 25 13	23060/704	1:1	0.044	0.18	23.54	24.30	1.191	0.052	22.6
Right cheek	10	QPSK 25 13	23060/704	1:1	0.089	0.05	23.54	24.30	1.191	0.106	22.6
Right tilted	10	QPSK 25 13	23060/704	1:1	0.046	0.02	23.54	24.30	1.191	0.055	22.6
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	10	QPSK 1 0	23095/707.5	1:1	0.151	-0.03	24.55	25.30	1.189	0.179	22.6
Back side	10	QPSK 1 0	23095/707.5	1:1	0.139	0.01	24.55	25.30	1.189	0.165	22.6
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	10	QPSK 25 13	23060/704	1:1	0.124	-0.02	23.54	24.30	1.191	0.148	22.6
Back side	10	QPSK 25 13	23060/704	1:1	0.112	0.01	23.54	24.30	1.191	0.133	22.6
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	10	QPSK 1 25	23130/711	1:1	0.139	-0.07	23.96	24.80	1.213	0.169	22.6
Back side	10	QPSK 1 25	23130/711	1:1	0.178	0.03	23.96	24.80	1.213	0.216	22.6
Left side	10	QPSK 1 25	23130/711	1:1	0.253	-0.04	23.96	24.80	1.213	0.307	22.6
Bottom side	10	QPSK 1 25	23130/711	1:1	0.086	0.00	23.96	24.80	1.213	0.104	22.6
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	10	QPSK 25 13	23130/711	1:1	0.124	-0.03	23.48	24.30	1.208	0.150	22.6
Back side	10	QPSK 25 13	23130/711	1:1	0.164	0.04	23.48	24.30	1.208	0.198	22.6
Left side	10	QPSK 25 13	23130/711	1:1	0.230	-0.02	23.48	24.30	1.208	0.278	22.6
Bottom side	10	QPSK 25 13	23130/711	1:1	0.083	0.03	23.48	24.30	1.208	0.100	22.6

Table 20: SAR of LTE Band 12 for Head and Body.



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8.2.11 SAR Result of LTE Band 13

Ant 11 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	10	QPSK 1 25	23230/782	1:1	0.166	0.11	24.35	25.50	1.303	0.216	22.6
Left tilted	10	QPSK 1 25	23230/782	1:1	0.023	0.08	24.35	25.50	1.303	0.030	22.6
Right cheek	10	QPSK 1 25	23230/782	1:1	0.077	-0.09	24.35	25.50	1.303	0.100	22.6
Right tilted	10	QPSK 1 25	23230/782	1:1	0.020	0.04	24.35	25.50	1.303	0.027	22.6
Head Test Data(50%RB) DSI 2											
Left cheek	10	QPSK 25 13	23230/782	1:1	0.122	0.08	23.42	24.50	1.282	0.156	22.6
Left tilted	10	QPSK 25 13	23230/782	1:1	0.019	0.08	23.42	24.50	1.282	0.024	22.6
Right cheek	10	QPSK 25 13	23230/782	1:1	0.056	0.02	23.42	24.50	1.282	0.072	22.6
Right tilted	10	QPSK 25 13	23230/782	1:1	0.016	0.17	23.42	24.50	1.282	0.021	22.6
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	10	QPSK 1 25	23230/782	1:1	0.055	0.06	24.35	25.50	1.303	0.072	22.6
Back side	10	QPSK 1 25	23230/782	1:1	0.077	-0.10	24.35	25.50	1.303	0.100	22.6
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	10	QPSK 25 13	23230/782	1:1	0.045	0.06	23.42	24.50	1.282	0.057	22.6
Back side	10	QPSK 25 13	23230/782	1:1	0.063	-0.13	23.42	24.50	1.282	0.081	22.6
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	10	QPSK 1 25	23230/782	1:1	0.075	0.15	24.35	25.50	1.303	0.097	22.6
Back side	10	QPSK 1 25	23230/782	1:1	0.136	-0.16	24.35	25.50	1.303	0.177	22.6
Left side	10	QPSK 1 25	23230/782	1:1	0.201	-0.04	24.35	25.50	1.303	0.262	22.6
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	10	QPSK 25 13	23230/782	1:1	0.071	0.16	23.42	24.50	1.282	0.091	22.6
Back side	10	QPSK 25 13	23230/782	1:1	0.110	-0.11	23.42	24.50	1.282	0.141	22.6
Left side	10	QPSK 25 13	23230/782	1:1	0.164	-0.02	23.42	24.50	1.282	0.210	22.6
Ant 41 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	10	QPSK 1 25	23230/782	1:1	0.091	0.08	24.43	25.30	1.222	0.111	22.6
Left tilted	10	QPSK 1 25	23230/782	1:1	0.044	0.05	24.43	25.30	1.222	0.053	22.6
Right cheek	10	QPSK 1 25	23230/782	1:1	0.081	0.02	24.43	25.30	1.222	0.099	22.6
Right tilted	10	QPSK 1 25	23230/782	1:1	0.042	0.02	24.43	25.30	1.222	0.051	22.6
Head Test Data(50%RB) DSI 2											
Left cheek	10	QPSK 25 13	23230/782	1:1	0.070	0.09	23.54	24.30	1.191	0.084	22.6
Left tilted	10	QPSK 25 13	23230/782	1:1	0.035	0.01	23.54	24.30	1.191	0.041	22.6
Right cheek	10	QPSK 25 13	23230/782	1:1	0.069	0.04	23.54	24.30	1.191	0.082	22.6
Right tilted	10	QPSK 25 13	23230/782	1:1	0.034	0.04	23.54	24.30	1.191	0.040	22.6
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	10	QPSK 1 25	23230/782	1:1	0.109	-0.06	24.43	25.30	1.222	0.133	22.6
Back side	10	QPSK 1 25	23230/782	1:1	0.120	-0.10	24.43	25.30	1.222	0.147	22.6
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	10	QPSK 25 13	23230/782	1:1	0.086	0.00	23.54	24.30	1.191	0.102	22.6
Back side	10	QPSK 25 13	23230/782	1:1	0.097	0.02	23.54	24.30	1.191	0.115	22.6
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	10	QPSK 1 25	23230/782	1:1	0.123	0.07	24.43	25.30	1.222	0.150	22.6
Back side	10	QPSK 1 25	23230/782	1:1	0.209	-0.13	24.43	25.30	1.222	0.255	22.6
Left side	10	QPSK 1 25	23230/782	1:1	0.122	0.12	24.43	25.30	1.222	0.149	22.6
Bottom side	10	QPSK 1 25	23230/782	1:1	0.104	0.03	24.43	25.30	1.222	0.127	22.6
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	10	QPSK 25 13	23230/782	1:1	0.100	0.00	23.54	24.30	1.191	0.119	22.6
Back side	10	QPSK 25 13	23230/782	1:1	0.164	0.03	23.54	24.30	1.191	0.195	22.6
Left side	10	QPSK 25 13	23230/782	1:1	0.100	-0.02	23.54	24.30	1.191	0.119	22.6
Bottom side	10	QPSK 25 13	23230/782	1:1	0.084	0.07	23.54	24.30	1.191	0.100	22.6

Table 21: SAR of LTE Band 13 for Head and Body.



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8.2.12 SAR Result of LTE Band 26

Ant 11 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	15	QPSK 1 74	26865/831.5	1:1	0.432	0.05	23.94	25.00	1.276	0.551	22.4
Left tilted	15	QPSK 1 74	26865/831.5	1:1	0.060	0.08	23.94	25.00	1.276	0.076	22.4
Right cheek	15	QPSK 1 74	26865/831.5	1:1	0.172	0.02	23.94	25.00	1.276	0.220	22.4
Right tilted	15	QPSK 1 74	26865/831.5	1:1	0.052	0.03	23.94	25.00	1.276	0.066	22.4
Head Test Data(50%RB) DSI 2											
Left cheek	15	QPSK 36 39	26765/821.5	1:1	0.308	0.03	23.00	24.00	1.259	0.388	22.4
Left tilted	15	QPSK 36 39	26765/821.5	1:1	0.046	0.01	23.00	24.00	1.259	0.058	22.4
Right cheek	15	QPSK 36 39	26765/821.5	1:1	0.136	-0.10	23.00	24.00	1.259	0.171	22.4
Right tilted	15	QPSK 36 39	26765/821.5	1:1	0.041	0.08	23.00	24.00	1.259	0.051	22.4
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	15	QPSK 1 74	26865/831.5	1:1	0.140	-0.04	23.94	25.00	1.276	0.179	22.4
Back side	15	QPSK 1 74	26865/831.5	1:1	0.199	-0.14	23.94	25.00	1.276	0.254	22.4
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	15	QPSK 36 39	26765/821.5	1:1	0.105	0.01	23.00	24.00	1.259	0.132	22.4
Back side	15	QPSK 36 39	26765/821.5	1:1	0.156	-0.14	23.00	24.00	1.259	0.196	22.4
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	15	QPSK 1 74	26865/831.5	1:1	0.224	0.10	23.94	25.00	1.276	0.286	22.4
Back side	15	QPSK 1 74	26865/831.5	1:1	0.354	-0.16	23.94	25.00	1.276	0.452	22.4
Left side	15	QPSK 1 74	26865/831.5	1:1	0.488	-0.03	23.94	25.00	1.276	0.623	22.4
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	15	QPSK 36 39	26765/821.5	1:1	0.176	0.13	23.00	24.00	1.259	0.222	22.4
Back side	15	QPSK 36 39	26765/821.5	1:1	0.276	-0.15	23.00	24.00	1.259	0.347	22.4
Left side	15	QPSK 36 39	26765/821.5	1:1	0.368	-0.04	23.00	24.00	1.259	0.463	22.4
Ant 41 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	15	QPSK 1 74	26765/821.5	1:1	0.140	0.07	24.01	25.00	1.256	0.176	22.4
Left tilted	15	QPSK 1 74	26765/821.5	1:1	0.066	0.03	24.01	25.00	1.256	0.083	22.4
Right cheek	15	QPSK 1 74	26765/821.5	1:1	0.139	0.04	24.01	25.00	1.256	0.175	22.4
Right tilted	15	QPSK 1 74	26765/821.5	1:1	0.068	0.14	24.01	25.00	1.256	0.085	22.4
Head Test Data(50%RB) DSI 2											
Left cheek	15	QPSK 36 39	26765/821.5	1:1	0.114	0.05	23.22	24.00	1.197	0.136	22.4
Left tilted	15	QPSK 36 39	26765/821.5	1:1	0.053	0.18	23.22	24.00	1.197	0.064	22.4
Right cheek	15	QPSK 36 39	26765/821.5	1:1	0.114	0.07	23.22	24.00	1.197	0.136	22.4
Right tilted	15	QPSK 36 39	26765/821.5	1:1	0.055	0.03	23.22	24.00	1.197	0.065	22.4
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	15	QPSK 1 74	26765/821.5	1:1	0.139	-0.03	24.01	25.00	1.256	0.175	22.4
Back side	15	QPSK 1 74	26765/821.5	1:1	0.189	0.07	24.01	25.00	1.256	0.237	22.4
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	15	QPSK 36 39	26765/821.5	1:1	0.112	-0.01	23.22	24.00	1.197	0.134	22.4
Back side	15	QPSK 36 39	26765/821.5	1:1	0.156	0.01	23.22	24.00	1.197	0.187	22.4
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	15	QPSK 1 74	26765/821.5	1:1	0.204	-0.06	24.01	25.00	1.256	0.256	22.4
Back side	15	QPSK 1 74	26765/821.5	1:1	0.346	-0.02	24.01	25.00	1.256	0.435	22.4
Left side	15	QPSK 1 74	26765/821.5	1:1	0.111	-0.04	24.01	25.00	1.256	0.139	22.4
Bottom side	15	QPSK 1 74	26765/821.5	1:1	0.174	0.02	24.01	25.00	1.256	0.219	22.4
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	15	QPSK 36 39	26765/821.5	1:1	0.168	-0.04	23.22	24.00	1.197	0.201	22.4
Back side	15	QPSK 36 39	26765/821.5	1:1	0.297	0.00	23.22	24.00	1.197	0.355	22.4
Left side	15	QPSK 36 39	26765/821.5	1:1	0.094	-0.02	23.22	24.00	1.197	0.113	22.4
Bottom side	15	QPSK 36 39	26765/821.5	1:1	0.149	0.03	23.22	24.00	1.197	0.178	22.4

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



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8.2.13 SAR Result of LTE Band 41

Ant 15 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.245	0.08	16.97	17.80	1.211	0.297	22.1
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.288	-0.07	16.97	17.80	1.211	0.349	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.490	0.01	16.97	17.80	1.211	0.593	22.1
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.335	0.15	16.97	17.80	1.211	0.406	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.475	-0.19	16.39	17.80	1.384	0.657	22.1
		QPSK 0_0	40818/2612.8								
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.429	0.02	16.62	17.80	1.312	0.563	22.1
		QPSK 0_0	39948/2525.8								
Head Test Data(50%RB) DSI 2											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.232	0.06	17.04	17.80	1.191	0.276	22.1
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.276	-0.04	17.04	17.80	1.191	0.329	22.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.462	0.12	17.04	17.80	1.191	0.550	22.1
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.329	0.08	17.04	17.80	1.191	0.392	22.1
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.169	-0.09	23.37	24.30	1.239	0.209	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.143	-0.06	23.37	24.30	1.239	0.177	22.1
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.125	0.06	22.85	24.30	1.396	0.175	22.1
		QPSK 0_0	40422/2573.2								
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50_25	40620/2593	1:1.58	0.147	0.06	22.47	23.30	1.211	0.178	22.1
Back side	20	QPSK 50_25	40620/2593	1:1.58	0.116	-0.07	22.47	23.30	1.211	0.140	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.217	0.19	22.49	23.30	1.205	0.261	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.289	-0.05	22.49	23.30	1.205	0.348	22.1
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.120	0.04	22.49	23.30	1.205	0.145	22.1
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.276	-0.06	22.49	23.30	1.205	0.333	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.231	0.03	21.91	23.30	1.377	0.318	22.1
		QPSK 0_0	40818/2612.8								
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.218	-0.03	22.48	23.30	1.208	0.263	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.271	0.02	22.48	23.30	1.208	0.327	22.1
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.120	0.13	22.48	23.30	1.208	0.145	22.1
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.277	-0.04	22.48	23.30	1.208	0.335	22.1
Ant 31 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	20	QPSK 1_50	41490/2680	1:1.58	0.018	0.09	24.31	25.00	1.172	0.021	22.1
Left tilted	20	QPSK 1_50	41490/2680	1:1.58	0.023	0.04	24.31	25.00	1.172	0.027	22.1
Right cheek	20	QPSK 1_50	41490/2680	1:1.58	0.053	-0.09	24.31	25.00	1.172	0.062	22.1
Right tilted	20	QPSK 1_50	41490/2680	1:1.58	0.061	-0.06	24.31	25.00	1.172	0.071	22.1
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.070	0.07	23.54	25.00	1.400	0.098	22.1
		QPSK 0_0	41292/2660.2								
Head Test Data(50%RB) DSI 2											



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Left cheek	20	QPSK 50_25	40620/2593	1:1.58	0.021	0.07	23.37	24.00	1.156	0.025	22.1
Left tilted	20	QPSK 50_25	40620/2593	1:1.58	0.019	0.02	23.37	24.00	1.156	0.022	22.1
Right cheek	20	QPSK 50_25	40620/2593	1:1.58	0.036	0.00	23.37	24.00	1.156	0.042	22.1
Right tilted	20	QPSK 50_25	40620/2593	1:1.58	0.044	-0.01	23.37	24.00	1.156	0.051	22.1
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1_99	40620/2593	1:1.58	0.069	0.01	23.71	24.50	1.199	0.082	22.1
Back side	20	QPSK 1_99	40620/2593	1:1.58	0.124	-0.01	23.71	24.50	1.199	0.149	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.140	0.02	23.21	24.50	1.346	0.188	22.1
		QPSK 0_0	40818/2612.8								
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50_50	41055/2636.5	1:1.58	0.050	-0.07	23.36	24.00	1.159	0.058	22.1
Back side	20	QPSK 50_50	41055/2636.5	1:1.58	0.103	-0.09	23.36	24.00	1.159	0.119	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_99	40620/2593	1:1.58	0.088	-0.07	22.32	23.00	1.169	0.103	22.1
Back side	20	QPSK 1_99	40620/2593	1:1.58	0.185	-0.02	22.32	23.00	1.169	0.216	22.1
Right side	20	QPSK 1_99	40620/2593	1:1.58	0.044	-0.03	22.32	23.00	1.169	0.051	22.1
Bottom side	20	QPSK 1_99	40620/2593	1:1.58	0.135	0.00	22.32	23.00	1.169	0.158	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.190	0.10	21.70	23.00	1.349	0.256	22.1
		QPSK 0_0	40818/2612.8								
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.084	-0.08	22.46	23.00	1.132	0.095	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.174	0.09	22.46	23.00	1.132	0.197	22.1
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.047	-0.09	22.46	23.00	1.132	0.053	22.1
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.144	0.00	22.46	23.00	1.132	0.163	22.1

Table 23: SAR of LTE Band 41 for Head and Body.



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8.2.14 SAR Result of LTE Band 66

Ant 15 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1_99	132072/1720	1:1	0.238	-0.02	22.20	22.80	1.148	0.273	22.1
Back side	20	QPSK 1_99	132072/1720	1:1	0.352	0.06	22.20	22.80	1.148	0.404	22.1
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50_25	132572/1770	1:1	0.227	0.03	22.25	22.80	1.135	0.258	22.1
Back side	20	QPSK 50_25	132572/1770	1:1	0.336	-0.14	22.25	22.80	1.135	0.381	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_50	132322/1745	1:1	0.241	0.17	19.68	20.30	1.153	0.278	22.1
Back side	20	QPSK 1_50	132322/1745	1:1	0.362	-0.01	19.68	20.30	1.153	0.418	22.1
Left side	20	QPSK 1_50	132322/1745	1:1	0.075	-0.13	19.68	20.30	1.153	0.087	22.1
Top side	20	QPSK 1_50	132322/1745	1:1	0.408	0.15	19.68	20.30	1.153	0.471	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_50	132072/1720	1:1	0.247	0.12	19.71	20.30	1.146	0.283	22.1
Back side	20	QPSK 50_50	132072/1720	1:1	0.367	0.13	19.71	20.30	1.146	0.420	22.1
Left side	20	QPSK 50_50	132072/1720	1:1	0.083	-0.10	19.71	20.30	1.146	0.095	22.1
Top side	20	QPSK 50_50	132072/1720	1:1	0.429	0.12	19.71	20.30	1.146	0.491	22.1
Ant 31 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	20	QPSK 1_50	132322/1745	1:1	0.140	0.02	24.02	24.50	1.117	0.156	22.1
Left tilted	20	QPSK 1_50	132322/1745	1:1	0.047	0.13	24.02	24.50	1.117	0.052	22.1
Right cheek	20	QPSK 1_50	132322/1745	1:1	0.079	0.01	24.02	24.50	1.117	0.089	22.1
Right tilted	20	QPSK 1_50	132322/1745	1:1	0.047	0.03	24.02	24.50	1.117	0.052	22.1
Head Test Data(50%RB) DSI 2											
Left cheek	20	QPSK 50_50	132072/1720	1:1	0.101	0.09	23.11	23.50	1.094	0.110	22.1
Left tilted	20	QPSK 50_50	132072/1720	1:1	0.033	0.16	23.11	23.50	1.094	0.036	22.1
Right cheek	20	QPSK 50_50	132072/1720	1:1	0.060	0.08	23.11	23.50	1.094	0.066	22.1
Right tilted	20	QPSK 50_50	132072/1720	1:1	0.036	-0.01	23.11	23.50	1.094	0.039	22.1
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1_50	132572/1770	1:1	0.207	-0.04	21.97	22.50	1.130	0.234	22.1
Back side	20	QPSK 1_50	132572/1770	1:1	0.275	-0.06	21.97	22.50	1.130	0.311	22.1
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50_50	132322/1745	1:1	0.234	0.01	22.08	22.50	1.102	0.258	22.1
Back side	20	QPSK 50_50	132322/1745	1:1	0.306	-0.02	22.08	22.50	1.102	0.337	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_99	132572/1770	1:1	0.196	0.07	19.35	20.00	1.161	0.228	22.1
Back side	20	QPSK 1_99	132572/1770	1:1	0.285	0.13	19.35	20.00	1.161	0.331	22.1
Right side	20	QPSK 1_99	132572/1770	1:1	0.049	0.08	19.35	20.00	1.161	0.057	22.1
Bottom side	20	QPSK 1_99	132572/1770	1:1	0.350	-0.17	19.35	20.00	1.161	0.407	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_50	132072/1720	1:1	0.245	0.04	19.52	20.00	1.117	0.274	22.1
Back side	20	QPSK 50_50	132072/1720	1:1	0.331	0.01	19.52	20.00	1.117	0.370	22.1
Right side	20	QPSK 50_50	132072/1720	1:1	0.062	0.17	19.52	20.00	1.117	0.069	22.1
Bottom side	20	QPSK 50_50	132072/1720	1:1	0.388	-0.09	19.52	20.00	1.117	0.433	22.1

Table 24: SAR of LTE Band 66 for Head and Body.



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8.2.15 SAR Result of 5G NR n2

Ant 15 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Body worn Test data(Separate 15mm 1RB) DSI 4/7												
Front side	20	QPSK 1 53	376000/1880	100%	0.136	0.08	21.83	22.50	1.167	0.159	21.9	
Back side	20	QPSK 1 53	376000/1880	100%	0.187	0.12	21.83	22.50	1.167	0.218	21.9	
Body worn Test data(Separate 15mm 50%RB) DSI 4/7												
Front side	20	QPSK 50 28	372000/1860	100%	0.125	0.04	21.79	22.50	1.178	0.147	21.9	
Back side	20	QPSK 50 28	372000/1860	100%	0.178	0.18	21.79	22.50	1.178	0.210	21.9	
Hotspot Test data(Separate 10mm 1RB) DSI 6												
Front side	20	QPSK 1 53	376000/1880	100%	0.187	0.13	20.40	21.00	1.148	0.215	21.9	
Back side	20	QPSK 1 53	376000/1880	100%	0.249	0.10	20.40	21.00	1.148	0.286	21.9	
Left side	20	QPSK 1 53	376000/1880	100%	0.094	-0.04	20.40	21.00	1.148	0.107	21.9	
Top side	20	QPSK 1 53	376000/1880	100%	0.328	0.03	20.40	21.00	1.148	0.377	21.9	
Hotspot Test data(Separate 10mm 50%RB) DSI 6												
Front side	20	QPSK 50 28	376000/1880	100%	0.181	0.11	20.35	21.00	1.161	0.210	21.9	
Back side	20	QPSK 50 28	376000/1880	100%	0.281	0.16	20.35	21.00	1.161	0.326	21.9	
Left side	20	QPSK 50 28	376000/1880	100%	0.095	0.18	20.35	21.00	1.161	0.110	21.9	
Top side	20	QPSK 50 28	376000/1880	100%	0.336	0.08	20.35	21.00	1.161	0.390	21.9	
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head Test Data(1RB) DSI 2												
Left cheek	20	QPSK 1 53	376000/1880	100%	0.143	0.14	23.47	24.00	1.130	0.162	21.9	
Left tilted	20	QPSK 1 53	376000/1880	100%	0.056	0.02	23.47	24.00	1.130	0.063	21.9	
Right cheek	20	QPSK 1 53	376000/1880	100%	0.100	0.08	23.47	24.00	1.130	0.113	21.9	
Right tilted	20	QPSK 1 53	376000/1880	100%	0.102	0.04	23.47	24.00	1.130	0.115	21.9	
Head Test Data(50%RB) DSI 2												
Left cheek	20	QPSK 50 28	376000/1880	100%	0.128	0.08	23.38	24.00	1.153	0.148	21.9	
Left tilted	20	QPSK 50 28	376000/1880	100%	0.057	0.04	23.38	24.00	1.153	0.066	21.9	
Right cheek	20	QPSK 50 28	376000/1880	100%	0.099	0.01	23.38	24.00	1.153	0.115	21.9	
Right tilted	20	QPSK 50 28	376000/1880	100%	0.104	0.05	23.38	24.00	1.153	0.120	21.9	
Body worn Test data(Separate 15mm 1RB) DSI 4/7												
Front side	20	QPSK 1 104	376000/1880	100%	0.181	0.02	21.52	22.00	1.117	0.202	21.9	
Back side	20	QPSK 1 104	376000/1880	100%	0.232	-0.16	21.52	22.00	1.117	0.259	21.9	
Body worn Test data(Separate 15mm 50%RB) DSI 4/7												
Front side	20	QPSK 50 28	380000/1900	100%	0.158	0.15	21.42	22.00	1.143	0.181	21.9	
Back side	20	QPSK 50 28	380000/1900	100%	0.223	0.14	21.42	22.00	1.143	0.255	21.9	
Hotspot Test data(Separate 10mm 1RB) DSI 6												
Front side	20	QPSK 1 53	376000/1880	100%	0.200	0.10	19.47	20.00	1.130	0.226	21.9	
Back side	20	QPSK 1 53	376000/1880	100%	0.286	-0.10	19.47	20.00	1.130	0.323	21.9	
Right side	20	QPSK 1 53	376000/1880	100%	0.086	-0.07	19.47	20.00	1.130	0.097	21.9	
Bottom side	20	QPSK 1 53	376000/1880	100%	0.305	-0.07	19.47	20.00	1.130	0.345	21.9	
Hotspot Test data(Separate 10mm 50%RB) DSI 6												
Front side	20	QPSK 50 28	380000/1900	100%	0.195	0.02	19.43	20.00	1.140	0.222	21.9	
Back side	20	QPSK 50 28	380000/1900	100%	0.272	-0.11	19.43	20.00	1.140	0.310	21.9	
Right side	20	QPSK 50 28	380000/1900	100%	0.082	-0.12	19.43	20.00	1.140	0.093	21.9	
Bottom side	20	QPSK 50 28	380000/1900	100%	0.274	0.02	19.43	20.00	1.140	0.312	21.9	

Table 25: SAR of 5G NR n2 for Head and Body.



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8.2.16 SAR Result of 5G NR n7

Ant 12 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	40	QPSK1_108	504000/2520	100%	0.112	0.07	19.79	20.50	1.178	0.132	22.1
Left tilted	40	QPSK1_108	504000/2520	100%	0.065	0.07	19.79	20.50	1.178	0.076	22.1
Right cheek	40	QPSK1_108	504000/2520	100%	0.446	0.03	19.79	20.50	1.178	0.525	22.1
Right tilted	40	QPSK1_108	504000/2520	100%	0.173	0.05	19.79	20.50	1.178	0.204	22.1
Head Test Data(50%RB) DSI 2											
Left cheek	40	QPSK108_54	504000/2520	100%	0.132	0.09	19.80	20.50	1.175	0.155	22.1
Left tilted	40	QPSK108_54	504000/2520	100%	0.086	0.05	19.80	20.50	1.175	0.101	22.1
Right cheek	40	QPSK108_54	504000/2520	100%	0.403	0.07	19.80	20.50	1.175	0.473	22.1
Right tilted	40	QPSK108_54	504000/2520	100%	0.169	0.05	19.80	20.50	1.175	0.199	22.1
Body worn Test data(Separate 15mm 1RB) DSI 7											
Front side	40	QPSK1_108	504000/2520	100%	0.099	-0.18	23.24	24.00	1.191	0.118	22.1
Back side	40	QPSK1_108	504000/2520	100%	0.195	-0.04	23.24	24.00	1.191	0.232	22.1
Body worn Test data(Separate 15mm 50%RB) DSI 7											
Front side	40	QPSK108_54	504000/2520	100%	0.098	-0.19	23.25	24.00	1.189	0.116	22.1
Back side	40	QPSK108_54	504000/2520	100%	0.203	-0.06	23.25	24.00	1.189	0.241	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	40	QPSK1_108	504000/2520	100%	0.092	0.09	19.79	20.50	1.178	0.109	22.1
Back side	40	QPSK1_108	504000/2520	100%	0.180	-0.03	19.79	20.50	1.178	0.212	22.1
Left side	40	QPSK1_108	504000/2520	100%	0.123	-0.11	19.79	20.50	1.178	0.145	22.1
Top side	40	QPSK1_108	504000/2520	100%	0.032	-0.09	19.79	20.50	1.178	0.038	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	40	QPSK108_54	504000/2520	100%	0.080	-0.05	19.80	20.50	1.175	0.094	22.1
Back side	40	QPSK108_54	504000/2520	100%	0.186	0.06	19.80	20.50	1.175	0.219	22.1
Left side	40	QPSK108_54	504000/2520	100%	0.175	-0.11	19.80	20.50	1.175	0.206	22.1
Top side	40	QPSK108_54	504000/2520	100%	0.029	-0.17	19.80	20.50	1.175	0.034	22.1
Ant 15 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	40	QPSK1_108	510000/2550	100%	0.245	0.10	14.46	15.00	1.132	0.277	22.1
Left tilted	40	QPSK1_108	510000/2550	100%	0.272	0.13	14.46	15.00	1.132	0.308	22.1
Right cheek	40	QPSK1_108	510000/2550	100%	0.569	0.01	14.46	15.00	1.132	0.644	22.1
Right tilted	40	QPSK1_108	510000/2550	100%	0.407	0.16	14.46	15.00	1.132	0.461	22.1
Head Test Data(50%RB) DSI 2											
Left cheek	40	QPSK108_54	510000/2550	100%	0.265	-0.02	14.33	15.00	1.167	0.309	22.1
Left tilted	40	QPSK108_54	510000/2550	100%	0.248	0.10	14.33	15.00	1.167	0.289	22.1
Right cheek	40	QPSK108_54	510000/2550	100%	0.514	0.07	14.33	15.00	1.167	0.600	22.1
Right tilted	40	QPSK108_54	510000/2550	100%	0.399	0.02	14.33	15.00	1.167	0.466	22.1
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	40	QPSK1_108	510000/2550	100%	0.196	0.03	21.54	22.00	1.112	0.218	22.1
Back side	40	QPSK1_108	510000/2550	100%	0.201	-0.01	21.54	22.00	1.112	0.223	22.1
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	40	QPSK108_54	510000/2550	100%	0.195	-0.09	21.39	22.00	1.151	0.224	22.1



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Back side	40	QPSK108_54	510000/2550	100%	0.201	-0.05	21.39	22.00	1.151	0.231	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	40	QPSK1_108	510000/2550	100%	0.271	-0.08	20.08	20.50	1.102	0.299	22.1
Back side	40	QPSK1_108	510000/2550	100%	0.307	-0.05	20.08	20.50	1.102	0.338	22.1
Left side	40	QPSK1_108	510000/2550	100%	0.164	-0.04	20.08	20.50	1.102	0.181	22.1
Top side	40	QPSK1_108	510000/2550	100%	0.311	0.09	20.08	20.50	1.102	0.343	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	40	QPSK108_54	510000/2550	100%	0.255	-0.09	19.85	20.50	1.161	0.296	22.1
Back side	40	QPSK108_54	510000/2550	100%	0.298	-0.02	19.85	20.50	1.161	0.346	22.1
Left side	40	QPSK108_54	510000/2550	100%	0.153	-0.09	19.85	20.50	1.161	0.178	22.1
Top side	40	QPSK108_54	510000/2550	100%	0.307	-0.08	19.85	20.50	1.161	0.357	22.1

Table 26: SAR of 5G NR n7 for Head and Body.



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8.2.17 SAR Result of 5G NR n26

Ant 11 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	20	QPSK 1_1	166300/831.5	100%	0.547	0.02	23.76	25.00	1.330	0.728	22.3
Left tilted	20	QPSK 1_1	166300/831.5	100%	0.070	0.02	23.76	25.00	1.330	0.093	22.3
Right cheek	20	QPSK 1_1	166300/831.5	100%	0.242	0.09	23.76	25.00	1.330	0.322	22.3
Right tilted	20	QPSK 1_1	166300/831.5	100%	0.049	0.09	23.76	25.00	1.330	0.065	22.3
Head Test Data(50%RB) DSI 2											
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.594	0.03	23.80	25.00	1.318	0.783	22.3
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.074	-0.07	23.80	25.00	1.318	0.098	22.3
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.261	0.17	23.80	25.00	1.318	0.344	22.3
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.053	0.08	23.80	25.00	1.318	0.069	22.3
Head Test Data(1RB) with Simultaneous transmission DSI 3*											
Left cheek	20	QPSK 1_1	166300/831.5	100%	0.547	0.02	23.76	24.50	1.186	0.649	22.3
Left tilted	20	QPSK 1_1	166300/831.5	100%	0.070	0.02	23.76	24.50	1.186	0.083	22.3
Right cheek	20	QPSK 1_1	166300/831.5	100%	0.242	0.09	23.76	24.50	1.186	0.287	22.3
Right tilted	20	QPSK 1_1	166300/831.5	100%	0.049	0.09	23.76	24.50	1.186	0.058	22.3
Head Test Data(50%RB) with Simultaneous transmission DSI 3*											
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.594	0.03	23.80	24.50	1.175	0.698	22.3
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.074	-0.07	23.80	24.50	1.175	0.087	22.3
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.261	0.17	23.80	24.50	1.175	0.307	22.3
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.053	0.08	23.80	24.50	1.175	0.062	22.3
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1_1	166300/831.5	100%	0.141	-0.02	23.76	25.00	1.330	0.188	22.3
Back side	20	QPSK 1_1	166300/831.5	100%	0.191	-0.14	23.76	25.00	1.330	0.254	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50_28	166300/831.5	100%	0.150	0.11	23.80	25.00	1.318	0.198	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.204	-0.05	23.80	25.00	1.318	0.269	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_1	166300/831.5	100%	0.213	0.10	23.21	24.50	1.346	0.287	22.3
Back side	20	QPSK 1_1	166300/831.5	100%	0.310	-0.06	23.21	24.50	1.346	0.417	22.3
Left side	20	QPSK 1_1	166300/831.5	100%	0.457	0.13	23.21	24.50	1.346	0.615	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_28	166300/831.5	100%	0.219	0.13	23.25	24.50	1.334	0.292	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.327	-0.01	23.25	24.50	1.334	0.436	22.3
Left side	20	QPSK 50_28	166300/831.5	100%	0.476	0.14	23.25	24.50	1.334	0.635	22.3
Ant 41 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	20	QPSK 1_1	166300/831.5	100%	0.121	0.02	23.71	25.00	1.346	0.163	22.3
Left tilted	20	QPSK 1_1	166300/831.5	100%	0.062	0.18	23.71	25.00	1.346	0.084	22.3
Right cheek	20	QPSK 1_1	166300/831.5	100%	0.095	0.05	23.71	25.00	1.346	0.127	22.3
Right tilted	20	QPSK 1_1	166300/831.5	100%	0.042	0.07	23.71	25.00	1.346	0.057	22.3
Head Test Data(50%RB) DSI 2											
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.110	0.06	23.78	25.00	1.324	0.146	22.3



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Left tilted	20	QPSK 50_28	166300/831.5	100%	0.069	0.03	23.78	25.00	1.324	0.092	22.3
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.087	0.04	23.78	25.00	1.324	0.116	22.3
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.041	0.13	23.78	25.00	1.324	0.055	22.3
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	20	QPSK 1_1	166300/831.5	100%	0.146	-0.08	23.71	25.00	1.346	0.196	22.3
Back side	20	QPSK 1_1	166300/831.5	100%	0.198	-0.07	23.71	25.00	1.346	0.266	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	20	QPSK 50_28	166300/831.5	100%	0.149	-0.04	23.78	25.00	1.324	0.197	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.208	-0.04	23.78	25.00	1.324	0.275	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	20	QPSK 1_1	166300/831.5	100%	0.179	0.01	22.77	24.00	1.327	0.238	22.3
Back side	20	QPSK 1_1	166300/831.5	100%	0.280	-0.01	22.77	24.00	1.327	0.372	22.3
Left side	20	QPSK 1_1	166300/831.5	100%	0.120	-0.02	22.77	24.00	1.327	0.159	22.3
Bottom side	20	QPSK 1_1	166300/831.5	100%	0.137	-0.08	22.77	24.00	1.327	0.182	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	20	QPSK 50_28	166300/831.5	100%	0.187	-0.03	22.83	24.00	1.309	0.245	22.3
Back side	20	QPSK 50_28	166300/831.5	100%	0.296	-0.03	22.83	24.00	1.309	0.388	22.3
Left side	20	QPSK 50_28	166300/831.5	100%	0.117	0.04	22.83	24.00	1.309	0.153	22.3
Bottom side	20	QPSK 50_28	166300/831.5	100%	0.147	-0.07	22.83	24.00	1.309	0.192	22.3

Table 27: SAR of 5G NR n26 for Head and Body.

Note: * The simultaneous transmission is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are scaled based on standalone SAR results.



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8.2.18 SAR Result of 5G NR n38

Ant 12 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	40	QPSK1_1	520000/2600	100%	0.238	0.05	19.94	21.00	1.276	0.304	22.5
Left tilted	40	QPSK1_1	520000/2600	100%	0.108	0.06	19.94	21.00	1.276	0.138	22.5
Right cheek	40	QPSK1_1	520000/2600	100%	0.566	0.02	19.94	21.00	1.276	0.722	22.5
Right tilted	40	QPSK1_1	520000/2600	100%	0.271	0.01	19.94	21.00	1.276	0.346	22.5
Head Test Data(50%RB) DSI 2											
Left cheek	40	QPSK50_28	519000/2595	100%	0.230	0.03	19.79	21.00	1.321	0.304	22.5
Left tilted	40	QPSK50_28	519000/2595	100%	0.115	0.05	19.79	21.00	1.321	0.152	22.5
Right cheek	40	QPSK50_28	519000/2595	100%	0.560	0.06	19.79	21.00	1.321	0.740	22.5
Right tilted	40	QPSK50_28	519000/2595	100%	0.253	0.05	19.79	21.00	1.321	0.334	22.5
Body worn Test data(Separate 15mm 1RB) DSI 7											
Front side	40	QPSK1_1	520000/2600	100%	0.164	0.09	23.91	25.00	1.285	0.211	22.5
Back side	40	QPSK1_1	520000/2600	100%	0.325	-0.05	23.91	25.00	1.285	0.418	22.5
Body worn Test data(Separate 15mm 50%RB) DSI 7											
Front side	40	QPSK50_28	520000/2600	100%	0.171	-0.08	23.85	25.00	1.303	0.223	22.5
Back side	40	QPSK50_28	520000/2600	100%	0.314	-0.09	23.85	25.00	1.303	0.409	22.5
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	40	QPSK1_1	520000/2600	100%	0.107	-0.04	19.42	20.50	1.282	0.137	22.5
Back side	40	QPSK1_1	520000/2600	100%	0.234	-0.10	19.42	20.50	1.282	0.300	22.5
Left side	40	QPSK1_1	520000/2600	100%	0.218	0.05	19.42	20.50	1.282	0.280	22.5
Top side	40	QPSK1_1	520000/2600	100%	0.024	-0.07	19.42	20.50	1.282	0.030	22.5
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	40	QPSK50_28	520000/2600	100%	0.119	-0.02	19.39	20.50	1.291	0.154	22.5
Back side	40	QPSK50_28	520000/2600	100%	0.262	-0.01	19.39	20.50	1.291	0.338	22.5
Left side	40	QPSK50_28	520000/2600	100%	0.248	0.10	19.39	20.50	1.291	0.320	22.5
Top side	40	QPSK50_28	520000/2600	100%	0.029	0.07	19.39	20.50	1.291	0.037	22.5
Ant 23 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	40	QPSK1_1	518000/2590	100%	0.437	0.03	17.97	19.50	1.422	0.622	22.5
Left tilted	40	QPSK1_1	518000/2590	100%	0.137	0.02	17.97	19.50	1.422	0.195	22.5
Right cheek	40	QPSK1_1	518000/2590	100%	0.136	0.02	17.97	19.50	1.422	0.193	22.5
Right tilted	40	QPSK1_1	518000/2590	100%	0.047	0.17	17.97	19.50	1.422	0.066	22.5
Head Test Data(50%RB) DSI 2											
Left cheek	40	QPSK50_28	518000/2590	100%	0.438	0.09	17.81	19.50	1.476	0.646	22.5
Left tilted	40	QPSK50_28	518000/2590	100%	0.146	-0.12	17.81	19.50	1.476	0.215	22.5
Right cheek	40	QPSK50_28	518000/2590	100%	0.127	0.09	17.81	19.50	1.476	0.187	22.5
Right tilted	40	QPSK50_28	518000/2590	100%	0.048	0.05	17.81	19.50	1.476	0.071	22.5
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	40	QPSK1_1	518000/2590	100%	0.059	0.01	20.42	22.00	1.439	0.085	22.5
Back side	40	QPSK1_1	518000/2590	100%	0.088	-0.12	20.42	22.00	1.439	0.127	22.5
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	40	QPSK50_28	518000/2590	100%	0.054	0.06	20.33	22.00	1.469	0.080	22.5
Back side	40	QPSK50_28	518000/2590	100%	0.086	0.01	20.33	22.00	1.469	0.127	22.5



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Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	40	QPSK1_1	518000/2590	100%	0.076	0.11	18.91	20.50	1.442	0.110	22.5
Back side	40	QPSK1_1	518000/2590	100%	0.130	0.05	18.91	20.50	1.442	0.187	22.5
Right side	40	QPSK1_1	518000/2590	100%	0.142	-0.09	18.91	20.50	1.442	0.205	22.5
Top side	40	QPSK1_1	518000/2590	100%	0.031	0.05	18.91	20.50	1.442	0.045	22.5
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	40	QPSK50_28	519000/2595	100%	0.071	0.03	18.80	20.50	1.479	0.105	22.5
Back side	40	QPSK50_28	519000/2595	100%	0.124	0.06	18.80	20.50	1.479	0.183	22.5
Right side	40	QPSK50_28	519000/2595	100%	0.156	0.06	18.80	20.50	1.479	0.231	22.5
Top side	40	QPSK50_28	519000/2595	100%	0.032	0.05	18.80	20.50	1.479	0.047	22.5

Table 28: SAR of 5G NR n38 for Head and Body.



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8.2.19 SAR Result of 5G NR n41

Ant 12 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK1_1	509202/2546.01	100%	0.096	-0.04	20.22	21.50	1.343	0.128	22.1
Left tilted	100	QPSK1_1	509202/2546.01	100%	0.046	0.02	20.22	21.50	1.343	0.062	22.1
Right cheek	100	QPSK1_1	509202/2546.01	100%	0.442	0.03	20.22	21.50	1.343	0.594	22.1
Right tilted	100	QPSK1_1	509202/2546.01	100%	0.127	-0.09	20.22	21.50	1.343	0.171	22.1
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK135_69	513900/2569.5	100%	0.131	-0.07	20.20	21.50	1.349	0.177	22.1
Left tilted	100	QPSK135_69	513900/2569.5	100%	0.097	0.03	20.20	21.50	1.349	0.131	22.1
Right cheek	100	QPSK135_69	513900/2569.5	100%	0.515	0.05	20.20	21.50	1.349	0.695	22.1
Right tilted	100	QPSK135_69	513900/2569.5	100%	0.192	-0.09	20.20	21.50	1.349	0.259	22.1
Right cheek	100	QPSK135_69	509202/2546.01	100%	0.514	0.06	20.11	21.50	1.377	0.708	22.1
Body worn Test data(Separate 15mm 1RB) DSI 7											
Front side	100	QPSK1_1	509202/2546.01	100%	0.077	-0.04	24.18	25.50	1.355	0.105	22.1
Back side	100	QPSK1_1	509202/2546.01	100%	0.145	-0.07	24.18	25.50	1.355	0.197	22.1
Body worn Test data(Separate 15mm 50%RB) DSI 7											
Front side	100	QPSK135_69	509202/2546.01	100%	0.136	-0.02	24.14	25.50	1.368	0.186	22.1
Back side	100	QPSK135_69	509202/2546.01	100%	0.218	-0.07	24.14	25.50	1.368	0.298	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK1_1	509202/2546.01	100%	0.077	-0.07	19.71	21.00	1.346	0.104	22.1
Back side	100	QPSK1_1	509202/2546.01	100%	0.172	-0.07	19.71	21.00	1.346	0.231	22.1
Left side	100	QPSK1_1	509202/2546.01	100%	0.154	0.07	19.71	21.00	1.346	0.207	22.1
Top side	100	QPSK1_1	509202/2546.01	100%	0.020	-0.12	19.71	21.00	1.346	0.027	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK135_69	509202/2546.01	100%	0.085	-0.07	19.66	21.00	1.361	0.115	22.1
Back side	100	QPSK135_69	509202/2546.01	100%	0.183	-0.06	19.66	21.00	1.361	0.249	22.1
Left side	100	QPSK135_69	509202/2546.01	100%	0.176	-0.07	19.66	21.00	1.361	0.240	22.1
Top side	100	QPSK135_69	509202/2546.01	100%	0.018	-0.02	19.66	21.00	1.361	0.025	22.1
Ant 23 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK1_1	509202/2546.01	100%	0.591	0.10	17.94	18.50	1.138	0.672	22.1
Left tilted	100	QPSK1_1	509202/2546.01	100%	0.130	0.02	17.94	18.50	1.138	0.148	22.1
Right cheek	100	QPSK1_1	509202/2546.01	100%	0.105	0.08	17.94	18.50	1.138	0.119	22.1
Right tilted	100	QPSK1_1	509202/2546.01	100%	0.039	0.07	17.94	18.50	1.138	0.044	22.1
Left cheek	100	QPSK1_1	513900/2569.5	100%	0.775	0.07	17.89	18.50	1.151	0.892	22.1
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK135_69	509202/2546.01	100%	0.478	0.09	17.78	18.50	1.180	0.564	22.1
Left tilted	100	QPSK135_69	509202/2546.01	100%	0.127	0.05	17.78	18.50	1.180	0.150	22.1
Right cheek	100	QPSK135_69	509202/2546.01	100%	0.124	0.00	17.78	18.50	1.180	0.146	22.1
Right tilted	100	QPSK135_69	509202/2546.01	100%	0.044	0.01	17.78	18.50	1.180	0.052	22.1
Head Test Data(100%RB) DSI 2											
Left cheek	100	QPSK270_0	509202/2546.01	100%	0.504	0.07	16.73	17.50	1.194	0.602	22.1
Head Test Data(1RB) with Simultaneous transmission DSI 3*											
Left cheek	100	QPSK1_1	509202/2546.01	100%	0.591	0.10	17.94	17.50	0.904	0.534	22.1



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Left tilted	100	QPSK1_1	509202/2546.01	100%	0.130	0.02	17.94	17.50	0.904	0.117	22.1
Right cheek	100	QPSK1_1	509202/2546.01	100%	0.105	0.08	17.94	17.50	0.904	0.095	22.1
Right tilted	100	QPSK1_1	509202/2546.01	100%	0.039	0.07	17.94	17.50	0.904	0.035	22.1
Left cheek	100	QPSK1_1	513900/2569.5	100%	0.775	0.07	17.89	17.50	0.914	0.708	22.1
Head Test Data(50%RB) with Simultaneous transmission DSI 3*											
Left cheek	100	QPSK135_69	509202/2546.01	100%	0.478	0.09	17.78	17.50	0.938	0.448	22.1
Left tilted	100	QPSK135_69	509202/2546.01	100%	0.127	0.05	17.78	17.50	0.938	0.119	22.1
Right cheek	100	QPSK135_69	509202/2546.01	100%	0.124	0.00	17.78	17.50	0.938	0.116	22.1
Right tilted	100	QPSK135_69	509202/2546.01	100%	0.044	0.01	17.78	17.50	0.938	0.041	22.1
Head Test Data(100%RB) with Simultaneous transmission DSI 3*											
Left cheek	100	QPSK270_0	509202/2546.01	100%	0.504	0.07	16.73	16.50	0.948	0.478	22.1
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK1_1	509202/2546.01	100%	0.053	-0.06	20.86	21.50	1.159	0.061	22.1
Back side	100	QPSK1_1	509202/2546.01	100%	0.067	-0.02	20.86	21.50	1.159	0.078	22.1
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK135_69	509202/2546.01	100%	0.049	0.09	20.73	21.50	1.194	0.058	22.1
Back side	100	QPSK135_69	509202/2546.01	100%	0.083	-0.05	20.73	21.50	1.194	0.099	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK1_1	509202/2546.01	100%	0.092	0.04	19.40	20.00	1.148	0.105	22.1
Back side	100	QPSK1_1	509202/2546.01	100%	0.141	0.03	19.40	20.00	1.148	0.162	22.1
Right side	100	QPSK1_1	509202/2546.01	100%	0.196	-0.03	19.40	20.00	1.148	0.225	22.1
Top side	100	QPSK1_1	509202/2546.01	100%	0.032	0.09	19.40	20.00	1.148	0.037	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK135_69	509202/2546.01	100%	0.075	-0.08	19.23	20.00	1.194	0.090	22.1
Back side	100	QPSK135_69	509202/2546.01	100%	0.126	-0.05	19.23	20.00	1.194	0.150	22.1
Right side	100	QPSK135_69	509202/2546.01	100%	0.146	0.08	19.23	20.00	1.194	0.174	22.1
Top side	100	QPSK135_69	509202/2546.01	100%	0.031	-0.04	19.23	20.00	1.194	0.037	22.1

Table 29: SAR of 5G NR n41 for Head and Body.

Note: * The simultaneous transmission is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are scaled based on standalone SAR results.



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8.2.20 SAR Result of 5G NR n66

Ant 15 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	40	QPSK 1_1	346000/1730	100%	0.095	-0.07	21.73	22.50	1.194	0.113	22.1
Back side	40	QPSK 1_1	346000/1730	100%	0.300	0.08	21.73	22.50	1.194	0.358	22.1
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	40	QPSK 108_54	346000/1730	100%	0.148	-0.07	21.63	22.50	1.222	0.181	22.1
Back side	40	QPSK 108_54	346000/1730	100%	0.305	0.06	21.63	22.50	1.222	0.373	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	40	QPSK 1_1	346000/1730	100%	0.240	-0.10	19.78	20.50	1.180	0.283	22.1
Back side	40	QPSK 1_1	346000/1730	100%	0.316	-0.08	19.78	20.50	1.180	0.373	22.1
Left side	40	QPSK 1_1	346000/1730	100%	0.100	0.04	19.78	20.50	1.180	0.118	22.1
Top side	40	QPSK 1_1	346000/1730	100%	0.344	0.12	19.78	20.50	1.180	0.406	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	40	QPSK 108_54	352000/1760	100%	0.244	0.19	19.67	20.50	1.211	0.295	22.1
Back side	40	QPSK 108_54	352000/1760	100%	0.370	-0.05	19.67	20.50	1.211	0.448	22.1
Left side	40	QPSK 108_54	352000/1760	100%	0.085	0.07	19.67	20.50	1.211	0.102	22.1
Top side	40	QPSK 108_54	352000/1760	100%	0.343	-0.05	19.67	20.50	1.211	0.415	22.1
Ant 31 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	40	QPSK 1_1	346000/1730	100%	0.135	0.02	24.11	24.50	1.094	0.148	22.1
Left tilted	40	QPSK 1_1	346000/1730	100%	0.049	0.08	24.11	24.50	1.094	0.053	22.1
Right cheek	40	QPSK 1_1	346000/1730	100%	0.083	0.07	24.11	24.50	1.094	0.091	22.1
Right tilted	40	QPSK 1_1	346000/1730	100%	0.041	-0.07	24.11	24.50	1.094	0.045	22.1
Head Test Data(50%RB) DSI 2											
Left cheek	40	QPSK 108_54	349000/1745	100%	0.137	0.02	24.12	24.50	1.091	0.150	22.1
Left tilted	40	QPSK 108_54	349000/1745	100%	0.060	0.04	24.12	24.50	1.091	0.066	22.1
Right cheek	40	QPSK 108_54	349000/1745	100%	0.103	-0.02	24.12	24.50	1.091	0.112	22.1
Right tilted	40	QPSK 108_54	349000/1745	100%	0.051	0.06	24.12	24.50	1.091	0.056	22.1
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	40	QPSK 1_1	346000/1730	100%	0.310	-0.14	22.19	22.50	1.074	0.333	22.1
Back side	40	QPSK 1_1	346000/1730	100%	0.334	-0.12	22.19	22.50	1.074	0.359	22.1
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	40	QPSK 108_54	349000/1745	100%	0.313	-0.08	22.15	22.50	1.084	0.339	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.414	-0.06	22.15	22.50	1.084	0.449	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	40	QPSK 1_1	346000/1730	100%	0.258	0.12	19.17	19.50	1.079	0.278	22.1
Back side	40	QPSK 1_1	346000/1730	100%	0.307	-0.04	19.17	19.50	1.079	0.331	22.1
Right side	40	QPSK 1_1	346000/1730	100%	0.077	-0.02	19.17	19.50	1.079	0.083	22.1
Bottom side	40	QPSK 1_1	346000/1730	100%	0.359	0.18	19.17	19.50	1.079	0.387	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	40	QPSK 108_54	349000/1745	100%	0.310	-0.05	19.12	19.50	1.091	0.338	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.373	-0.17	19.12	19.50	1.091	0.407	22.1
Right side	40	QPSK 108_54	349000/1745	100%	0.083	-0.18	19.12	19.50	1.091	0.090	22.1
Bottom side	40	QPSK 108_54	349000/1745	100%	0.471	0.13	19.12	19.50	1.091	0.514	22.1



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NSA N66 SAR Test Record											
Ant 12 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	40	QPSK 1_214	349000/1745	100%	0.052	0.05	22.88	24.50	1.452	0.076	22.1
Left tilted	40	QPSK 1_214	349000/1745	100%	0.030	0.06	22.88	24.50	1.452	0.044	22.1
Right cheek	40	QPSK 1_214	349000/1745	100%	0.274	0.09	22.88	24.50	1.452	0.398	22.1
Right tilted	40	QPSK 1_214	349000/1745	100%	0.076	0.05	22.88	24.50	1.452	0.111	22.1
Head Test Data(50%RB) DSI 2											
Left cheek	40	QPSK 108_54	352000/1760	100%	0.062	0.16	22.86	24.50	1.459	0.091	22.1
Left tilted	40	QPSK 108_54	352000/1760	100%	0.034	0.09	22.86	24.50	1.459	0.049	22.1
Right cheek	40	QPSK 108_54	352000/1760	100%	0.287	0.04	22.86	24.50	1.459	0.419	22.1
Right tilted	40	QPSK 108_54	352000/1760	100%	0.070	0.09	22.86	24.50	1.459	0.101	22.1
Body worn Test data(Separate 15mm 1RB) DSI 7											
Front side	40	QPSK 1_214	349000/1745	100%	0.019	0.03	22.88	24.50	1.452	0.028	22.1
Back side	40	QPSK 1_214	349000/1745	100%	0.043	0.01	22.88	24.50	1.452	0.063	22.1
Body worn Test data(Separate 15mm 50%RB) DSI 7											
Front side	40	QPSK 108_54	352000/1760	100%	0.019	0.13	22.86	24.50	1.459	0.028	22.1
Back side	40	QPSK 108_54	352000/1760	100%	0.043	0.03	22.86	24.50	1.459	0.063	22.1
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	40	QPSK 1_214	349000/1745	100%	0.040	0.01	22.88	24.50	1.452	0.057	22.1
Back side	40	QPSK 1_214	349000/1745	100%	0.104	0.08	22.88	24.50	1.452	0.151	22.1
Left side	40	QPSK 1_214	349000/1745	100%	0.109	0.04	22.88	24.50	1.452	0.158	22.1
Top side	40	QPSK 1_214	349000/1745	100%	0.017	0.03	22.88	24.50	1.452	0.024	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	40	QPSK 108_54	352000/1760	100%	0.038	0.04	22.86	24.50	1.459	0.056	22.1
Back side	40	QPSK 108_54	352000/1760	100%	0.100	0.09	22.86	24.50	1.459	0.146	22.1
Left side	40	QPSK 108_54	352000/1760	100%	0.110	0.08	22.86	24.50	1.459	0.160	22.1
Top side	40	QPSK 108_54	352000/1760	100%	0.014	0.09	22.86	24.50	1.459	0.021	22.1

Table 30: SAR of 5G NR n66 for Head and Body.



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8.2.21 SAR Result of 5G NR n77

N77 (3450-3550) SAR Test Record											
Ant 13 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 271	633334/3500	100%	0.184	0.08	17.98	18.50	1.127	0.207	22.2
Left tilted	100	QPSK 1 271	633334/3500	100%	0.197	0.08	17.98	18.50	1.127	0.222	22.2
Right cheek	100	QPSK 1 271	633334/3500	100%	0.525	0.06	17.98	18.50	1.127	0.592	22.2
Right tilted	100	QPSK 1 271	633334/3500	100%	0.475	0.03	17.98	18.50	1.127	0.535	22.2
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	633334/3500	100%	0.118	0.05	17.84	18.50	1.164	0.137	22.2
Left tilted	100	QPSK 135 69	633334/3500	100%	0.162	0.08	17.84	18.50	1.164	0.189	22.2
Right cheek	100	QPSK 135 69	633334/3500	100%	0.358	0.09	17.84	18.50	1.164	0.417	22.2
Right tilted	100	QPSK 135 69	633334/3500	100%	0.451	0.02	17.84	18.50	1.164	0.525	22.2
Body worn Test data(Separate 15mm 1RB) DSI 7											
Front side	100	QPSK 1 271	633334/3500	100%	0.177	0.06	23.93	24.50	1.140	0.202	22.2
Back side	100	QPSK 1 271	633334/3500	100%	0.459	-0.12	23.93	24.50	1.140	0.523	22.2
Body worn Test data(Separate 15mm 50%RB) DSI 7											
Front side	100	QPSK 135 69	633334/3500	100%	0.159	0.09	23.81	24.50	1.172	0.186	22.2
Back side	100	QPSK 135 69	633334/3500	100%	0.378	0.06	23.81	24.50	1.172	0.443	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 271	633334/3500	100%	0.050	0.01	16.03	16.50	1.114	0.056	22.2
Back side	100	QPSK 1 271	633334/3500	100%	0.145	0.09	16.03	16.50	1.114	0.162	22.2
Left side	100	QPSK 1 271	633334/3500	100%	0.251	0.02	16.03	16.50	1.114	0.280	22.2
Top side	100	QPSK 1 271	633334/3500	100%	0.153	0.04	16.03	16.50	1.114	0.170	22.2
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	633334/3500	100%	0.045	0.02	15.89	16.50	1.151	0.052	22.2
Back side	100	QPSK 135 69	633334/3500	100%	0.132	0.15	15.89	16.50	1.151	0.152	22.2
Left side	100	QPSK 135 69	633334/3500	100%	0.169	0.08	15.89	16.50	1.151	0.194	22.2
Top side	100	QPSK 135 69	633334/3500	100%	0.104	0.07	15.89	16.50	1.151	0.120	22.2
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data(Separate 0mm 1RB) Sensor on DSI 4											
Left side	100	QPSK 1 271	633334/3500	100%	2.220	0.09	17.44	18.00	1.138	2.526	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 4											
Left side	100	QPSK 135 69	633334/3500	100%	1.850	0.18	17.36	18.00	1.159	2.144	22.2
Product specific 10g SAR Test data(Separate 0mm 100%RB) Sensor on DSI 4											
Left side	100	QPSK 270 0	633334/3500	100%	1.310	0.01	16.34	17.00	1.164	1.525	22.2
Product specific 10g SAR Test data(Separate 1RB) Sensor off DSI 7											
Left side 12mm	100	QPSK 1 271	633334/3500	100%	0.552	0.02	23.93	24.50	1.140	0.629	22.2
Product specific 10g SAR Test data (Separate 50%RB) Sensor off DSI 7											
Left side 12mm	100	QPSK 135 69	633334/3500	100%	0.676	0.14	23.81	24.50	1.172	0.792	22.2
Ant 23 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 271	633334/3500	100%	0.397	0.09	17.38	18.00	1.153	0.458	22.2
Left tilted	100	QPSK 1 271	633334/3500	100%	0.232	0.09	17.38	18.00	1.153	0.268	22.2
Right cheek	100	QPSK 1 271	633334/3500	100%	0.092	0.03	17.38	18.00	1.153	0.106	22.2
Right tilted	100	QPSK 1 271	633334/3500	100%	0.085	0.02	17.38	18.00	1.153	0.097	22.2
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	633334/3500	100%	0.238	0.04	17.13	18.00	1.222	0.291	22.2
Left tilted	100	QPSK 135 69	633334/3500	100%	0.147	0.07	17.13	18.00	1.222	0.180	22.2
Right cheek	100	QPSK 135 69	633334/3500	100%	0.053	0.06	17.13	18.00	1.222	0.065	22.2
Right tilted	100	QPSK 135 69	633334/3500	100%	0.052	0.08	17.13	18.00	1.222	0.063	22.2
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 271	633334/3500	100%	0.029	0.01	18.86	19.50	1.159	0.034	22.2



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Back side	100	QPSK 1 271	633334/3500	100%	0.076	0.09	18.86	19.50	1.159	0.088	22.2
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	633334/3500	100%	0.025	0.09	18.66	19.50	1.213	0.030	22.2
Back side	100	QPSK 135 69	633334/3500	100%	0.064	0.07	18.66	19.50	1.213	0.078	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 271	633334/3500	100%	0.068	0.06	17.38	18.00	1.153	0.078	22.2
Back side	100	QPSK 1 271	633334/3500	100%	0.192	0.08	17.38	18.00	1.153	0.221	22.2
Right side	100	QPSK 1 271	633334/3500	100%	0.261	0.04	17.38	18.00	1.153	0.301	22.2
Top side	100	QPSK 1 271	633334/3500	100%	0.048	0.04	17.38	18.00	1.153	0.055	22.2
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	633334/3500	100%	0.058	-0.08	17.13	18.00	1.222	0.071	22.2
Back side	100	QPSK 135 69	633334/3500	100%	0.162	0.03	17.13	18.00	1.222	0.198	22.2
Right side	100	QPSK 135 69	633334/3500	100%	0.162	0.01	17.13	18.00	1.222	0.198	22.2
Top side	100	QPSK 135 69	633334/3500	100%	0.046	0.08	17.13	18.00	1.222	0.057	22.2
Ant 21 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 1	633334/3500	8.5%	0.151	0.07	15.80	17.20	0.117	0.018	22.2
Left tilted	100	QPSK 1 1	633334/3500	8.5%	0.230	-0.06	15.80	17.20	0.117	0.027	22.2
Right cheek	100	QPSK 1 1	633334/3500	8.5%	0.164	0.05	15.80	17.20	0.117	0.019	22.2
Right tilted	100	QPSK 1 1	633334/3500	8.5%	0.184	0.08	15.80	17.20	0.117	0.022	22.2
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	633334/3500	8.5%	0.140	0.04	15.79	17.20	0.118	0.016	22.2
Left tilted	100	QPSK 135 69	633334/3500	8.5%	0.141	0.01	15.79	17.20	0.118	0.017	22.2
Right cheek	100	QPSK 135 69	633334/3500	8.5%	0.134	0.08	15.79	17.20	0.118	0.016	22.2
Right tilted	100	QPSK 135 69	633334/3500	8.5%	0.162	0.09	15.79	17.20	0.118	0.019	22.2
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 1	633334/3500	8.5%	0.041	0.09	19.30	20.70	0.117	0.005	22.2
Back side	100	QPSK 1 1	633334/3500	8.5%	0.049	0.09	19.30	20.70	0.117	0.006	22.2
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	633334/3500	8.5%	0.032	0.06	19.26	20.70	0.118	0.004	22.2
Back side	100	QPSK 135 69	633334/3500	8.5%	0.037	-0.05	19.26	20.70	0.118	0.004	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 271	633334/3500	8.5%	0.082	-0.02	17.84	19.20	0.116	0.009	22.2
Back side	100	QPSK 1 271	633334/3500	8.5%	0.076	0.09	17.84	19.20	0.116	0.009	22.2
Left side	100	QPSK 1 271	633334/3500	8.5%	0.015	0.08	17.84	19.20	0.116	0.002	22.2
Right side	100	QPSK 1 271	633334/3500	8.5%	0.004	0.10	17.84	19.20	0.116	0.000	22.2
Top side	100	QPSK 1 271	633334/3500	8.5%	0.176	0.07	17.84	19.20	0.116	0.020	22.2
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	633334/3500	8.5%	0.080	0.08	17.78	19.20	0.118	0.009	22.2
Back side	100	QPSK 135 69	633334/3500	8.5%	0.084	-0.01	17.78	19.20	0.118	0.010	22.2
Left side	100	QPSK 135 69	633334/3500	8.5%	0.014	-0.03	17.78	19.20	0.118	0.002	22.2
Right side	100	QPSK 135 69	633334/3500	8.5%	0.001	0.09	17.78	19.20	0.118	0.000	22.2
Top side	100	QPSK 135 69	633334/3500	8.5%	0.144	0.06	17.78	19.20	0.118	0.017	22.2
Ant 14 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 1	633334/3500	8.5%	0.230	-0.04	14.48	16.00	0.121	0.028	22.2
Left tilted	100	QPSK 1 1	633334/3500	8.5%	0.212	0.07	14.48	16.00	0.121	0.026	22.2
Right cheek	100	QPSK 1 1	633334/3500	8.5%	0.688	-0.06	14.48	16.00	0.121	0.083	22.2
Right tilted	100	QPSK 1 1	633334/3500	8.5%	0.659	0.02	14.48	16.00	0.121	0.079	22.2
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	633334/3500	8.5%	0.187	-0.05	14.39	16.00	0.123	0.023	22.2
Left tilted	100	QPSK 135 69	633334/3500	8.5%	0.216	0.07	14.39	16.00	0.123	0.027	22.2
Right cheek	100	QPSK 135 69	633334/3500	8.5%	0.577	0.05	14.39	16.00	0.123	0.071	22.2
Right tilted	100	QPSK 135 69	633334/3500	8.5%	0.562	0.04	14.39	16.00	0.123	0.069	22.2
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 1	633334/3500	8.5%	0.244	0.04	21.34	23.00	0.125	0.030	22.2
Back side	100	QPSK 1 1	633334/3500	8.5%	0.275	-0.05	21.34	23.00	0.125	0.034	22.2



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Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	633334/3500	8.5%	0.253	0.08	21.31	23.00	0.125	0.032	22.2
Back side	100	QPSK 135 69	633334/3500	8.5%	0.342	0.09	21.31	23.00	0.125	0.043	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 137	633334/3500	8.5%	0.347	0.03	19.89	21.50	0.123	0.043	22.2
Back side	100	QPSK 1 137	633334/3500	8.5%	0.368	0.04	19.89	21.50	0.123	0.045	22.2
Left side	100	QPSK 1 137	633334/3500	8.5%	0.190	0.05	19.89	21.50	0.123	0.023	22.2
Top side	100	QPSK 1 137	633334/3500	8.5%	0.561	0.05	19.89	21.50	0.123	0.069	22.2
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	633334/3500	8.5%	0.337	0.03	19.84	21.50	0.125	0.042	22.2
Back side	100	QPSK 135 69	633334/3500	8.5%	0.347	0.08	19.84	21.50	0.125	0.043	22.2
Left side	100	QPSK 135 69	633334/3500	8.5%	0.190	0.05	19.84	21.50	0.125	0.024	22.2
Top side	100	QPSK 135 69	633334/3500	8.5%	0.469	0.06	19.84	21.50	0.125	0.058	22.2

N77 (3700-3980) SAR Test Record											
Ant 13 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 271	652400/3786	100%	0.102	0.06	18.06	18.50	1.107	0.113	22.3
Left tilted	100	QPSK 1 271	652400/3786	100%	0.110	0.15	18.06	18.50	1.107	0.122	22.3
Right cheek	100	QPSK 1 271	652400/3786	100%	0.350	0.01	18.06	18.50	1.107	0.387	22.3
Right tilted	100	QPSK 1 271	652400/3786	100%	0.277	0.02	18.06	18.50	1.107	0.307	22.3
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	659600/3894	100%	0.090	0.01	18.03	18.50	1.114	0.101	22.3
Left tilted	100	QPSK 135 69	659600/3894	100%	0.096	0.02	18.03	18.50	1.114	0.106	22.3
Right cheek	100	QPSK 135 69	659600/3894	100%	0.272	0.01	18.03	18.50	1.114	0.303	22.3
Right tilted	100	QPSK 135 69	659600/3894	100%	0.276	0.01	18.03	18.50	1.114	0.308	22.3
Body worn Test data(Separate 15mm 1RB) DSI 7											
Front side	100	QPSK 1 271	652400/3786	100%	0.110	0.05	24.03	24.50	1.114	0.123	22.3
Back side	100	QPSK 1 271	652400/3786	100%	0.417	0.07	24.03	24.50	1.114	0.465	22.3
Back side	100	QPSK 1 137	657200/3858	100%	0.344	0.07	24.00	24.50	1.122	0.386	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 7											
Front side	100	QPSK 135 69	659600/3894	100%	0.094	0.05	24.01	24.50	1.119	0.105	22.3
Back side	100	QPSK 135 69	659600/3894	100%	0.354	0.06	24.01	24.50	1.119	0.396	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 137	659600/3894	100%	0.031	0.09	16.07	16.50	1.104	0.035	22.3
Back side	100	QPSK 1 137	659600/3894	100%	0.137	0.03	16.07	16.50	1.104	0.151	22.3
Left side	100	QPSK 1 137	659600/3894	100%	0.211	0.03	16.07	16.50	1.104	0.233	22.3
Top side	100	QPSK 1 137	659600/3894	100%	0.081	0.09	16.07	16.50	1.104	0.089	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	659600/3894	100%	0.023	-0.05	16.03	16.50	1.114	0.026	22.3
Back side	100	QPSK 135 69	659600/3894	100%	0.107	0.04	16.03	16.50	1.114	0.119	22.3
Left side	100	QPSK 135 69	659600/3894	100%	0.142	0.06	16.03	16.50	1.114	0.158	22.3
Top side	100	QPSK 135 69	659600/3894	100%	0.066	0.10	16.03	16.50	1.114	0.073	22.3
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data(Separate 0mm 1RB) Sensor on DSI 4											
Left side	100	QPSK 1 271	654800/3822	100%	1.200	0.09	17.55	18.00	1.109	1.331	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 4											
Left side	100	QPSK 135 69	662000/3930	100%	1.420	0.04	17.49	18.00	1.125	1.597	22.3
Product specific 10g SAR Test data(Separate 1RB) Sensor off DSI 7											
Left side 12mm	100	QPSK 1 271	652400/3786	100%	0.439	0.09	24.03	24.50	1.114	0.489	22.3
Product specific 10g SAR Test data (Separate 50%RB) Sensor off DSI 7											
Left side 12mm	100	QPSK 135 69	659600/3894	100%	0.393	0.02	24.01	24.50	1.119	0.440	22.3
Ant 23 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)



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Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 137	652400/3786	100%	0.454	0.04	17.72	18.00	1.067	0.484	22.3
Left tilted	100	QPSK 1 137	652400/3786	100%	0.391	0.06	17.72	18.00	1.067	0.417	22.3
Right cheek	100	QPSK 1 137	652400/3786	100%	0.138	0.02	17.72	18.00	1.067	0.147	22.3
Right tilted	100	QPSK 1 137	652400/3786	100%	0.151	0.09	17.72	18.00	1.067	0.161	22.3
Left cheek	100	QPSK 1 137	657200/3858	100%	0.567	0.18	17.69	18.00	1.074	0.609	22.3
Left cheek	100	QPSK 1 1	654800/3822	100%	0.495	0.19	17.67	18.00	1.079	0.534	22.3
Left tilted	100	QPSK 1 137	657200/3858	100%	0.455	0.08	17.69	18.00	1.074	0.489	22.3
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	654800/3822	100%	0.529	0.07	17.65	18.00	1.084	0.573	22.3
Left tilted	100	QPSK 135 69	654800/3822	100%	0.373	0.03	17.65	18.00	1.084	0.404	22.3
Right cheek	100	QPSK 135 69	654800/3822	100%	0.145	0.07	17.65	18.00	1.084	0.157	22.3
Right tilted	100	QPSK 135 69	654800/3822	100%	0.138	0.06	17.65	18.00	1.084	0.150	22.3
Left cheek	100	QPSK 135 69	652400/3786	100%	0.532	0.10	17.64	18.00	1.086	0.578	22.3
Left tilted	100	QPSK 135 69	652400/3786	100%	0.473	0.06	17.64	18.00	1.086	0.514	22.3
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 137	652400/3786	100%	0.092	0.14	19.20	19.50	1.072	0.099	22.3
Back side	100	QPSK 1 137	652400/3786	100%	0.269	0.09	19.20	19.50	1.072	0.288	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	652400/3786	100%	0.091	0.03	19.13	19.50	1.089	0.100	22.3
Back side	100	QPSK 135 69	652400/3786	100%	0.219	-0.01	19.13	19.50	1.089	0.238	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 137	652400/3786	100%	0.121	0.09	17.72	18.00	1.067	0.129	22.3
Back side	100	QPSK 1 137	652400/3786	100%	0.279	0.03	17.72	18.00	1.067	0.298	22.3
Right side	100	QPSK 1 137	652400/3786	100%	0.274	0.08	17.72	18.00	1.067	0.292	22.3
Top side	100	QPSK 1 137	652400/3786	100%	0.111	0.07	17.72	18.00	1.067	0.118	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	654800/3822	100%	0.115	0.02	17.65	18.00	1.084	0.125	22.3
Back side	100	QPSK 135 69	654800/3822	100%	0.264	0.09	17.65	18.00	1.084	0.286	22.3
Right side	100	QPSK 135 69	654800/3822	100%	0.260	0.09	17.65	18.00	1.084	0.282	22.3
Top side	100	QPSK 135 69	654800/3822	100%	0.107	0.06	17.65	18.00	1.084	0.116	22.3
Ant 21 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 137	659600/3894	8.5%	0.340	0.10	16.31	17.20	0.104	0.035	22.3
Left tilted	100	QPSK 1 137	659600/3894	8.5%	0.384	0.08	16.31	17.20	0.104	0.040	22.3
Right cheek	100	QPSK 1 137	659600/3894	8.5%	0.314	-0.09	16.31	17.20	0.104	0.033	22.3
Right tilted	100	QPSK 1 137	659600/3894	8.5%	0.338	0.03	16.31	17.20	0.104	0.035	22.3
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	659600/3894	8.5%	0.345	0.06	16.33	17.20	0.104	0.036	22.3
Left tilted	100	QPSK 135 69	659600/3894	8.5%	0.341	0.07	16.33	17.20	0.104	0.035	22.3
Right cheek	100	QPSK 135 69	659600/3894	8.5%	0.323	0.06	16.33	17.20	0.104	0.034	22.3
Right tilted	100	QPSK 135 69	659600/3894	8.5%	0.369	0.04	16.33	17.20	0.104	0.038	22.3
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 137	659600/3894	8.5%	0.043	0.09	19.78	20.70	0.105	0.005	22.3
Back side	100	QPSK 1 137	659600/3894	8.5%	0.043	0.09	19.78	20.70	0.105	0.005	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	657200/3858	8.5%	0.077	0.00	19.81	20.70	0.104	0.008	22.3
Back side	100	QPSK 135 69	657200/3858	8.5%	0.058	0.00	19.81	20.70	0.104	0.006	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 137	657200/3858	8.5%	0.102	0.00	18.28	19.20	0.105	0.011	22.3
Back side	100	QPSK 1 137	657200/3858	8.5%	0.093	0.09	18.28	19.20	0.105	0.010	22.3
Left side	100	QPSK 1 137	657200/3858	8.5%	0.015	0.09	18.28	19.20	0.105	0.002	22.3
Right side	100	QPSK 1 137	657200/3858	8.5%	0.031	0.09	18.28	19.20	0.105	0.003	22.3
Top side	100	QPSK 1 137	657200/3858	8.5%	0.298	0.08	18.28	19.20	0.105	0.031	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	657200/3858	8.5%	0.096	0.09	18.31	19.20	0.104	0.010	22.3
Back side	100	QPSK 135 69	657200/3858	8.5%	0.084	0.09	18.31	19.20	0.104	0.009	22.3
Left side	100	QPSK 135 69	657200/3858	8.5%	0.019	0.09	18.31	19.20	0.104	0.002	22.3
Right side	100	QPSK 135 69	657200/3858	8.5%	0.028	0.01	18.31	19.20	0.104	0.003	22.3



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Top side	100	QPSK 135 69	657200/3858	8.5%	0.282	0.03	18.31	19.20	0.104	0.029	22.3
Ant 14 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 271	654800/3822	8.5%	0.132	-0.05	15.01	16.00	0.107	0.014	22.3
Left tilted	100	QPSK 1 271	654800/3822	8.5%	0.100	-0.02	15.01	16.00	0.107	0.011	22.3
Right cheek	100	QPSK 1 271	654800/3822	8.5%	0.391	-0.07	15.01	16.00	0.107	0.042	22.3
Right tilted	100	QPSK 1 271	654800/3822	8.5%	0.331	0.15	15.01	16.00	0.107	0.035	22.3
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	657200/3858	8.5%	0.122	0.06	14.99	16.00	0.107	0.013	22.3
Left tilted	100	QPSK 135 69	657200/3858	8.5%	0.111	0.05	14.99	16.00	0.107	0.012	22.3
Right cheek	100	QPSK 135 69	657200/3858	8.5%	0.347	0.05	14.99	16.00	0.107	0.037	22.3
Right tilted	100	QPSK 135 69	657200/3858	8.5%	0.304	0.07	14.99	16.00	0.107	0.033	22.3
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 271	662000/3930	8.5%	0.200	0.03	21.98	23.00	0.108	0.022	22.3
Back side	100	QPSK 1 271	662000/3930	8.5%	0.104	0.09	21.98	23.00	0.108	0.011	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	657200/3858	8.5%	0.110	0.06	21.96	23.00	0.108	0.012	22.3
Back side	100	QPSK 135 69	657200/3858	8.5%	0.084	0.00	21.96	23.00	0.108	0.009	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 271	654800/3822	8.5%	0.195	0.02	20.51	21.50	0.107	0.021	22.3
Back side	100	QPSK 1 271	654800/3822	8.5%	0.131	0.00	20.51	21.50	0.107	0.014	22.3
Left side	100	QPSK 1 271	654800/3822	8.5%	0.142	0.05	20.51	21.50	0.107	0.015	22.3
Top side	100	QPSK 1 271	654800/3822	8.5%	0.138	0.06	20.51	21.50	0.107	0.015	22.3
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	662000/3930	8.5%	0.264	0.09	20.48	21.50	0.108	0.028	22.3
Back side	100	QPSK 135 69	662000/3930	8.5%	0.136	0.00	20.48	21.50	0.108	0.015	22.3
Left side	100	QPSK 135 69	662000/3930	8.5%	0.157	0.05	20.48	21.50	0.108	0.017	22.3
Top side	100	QPSK 135 69	662000/3930	8.5%	0.174	0.06	20.48	21.50	0.108	0.019	22.3

Table 31: SAR of 5G NR n77 for Head and Body and Product specific 10g SAR.



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8.2.22 SAR Result of 5G NR n78

N78 (3450-3550) SAR Test Record											
Ant 13 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1_271	633334/3500	100%	0.234	0.02	17.33	18.20	1.222	0.286	22.2
Left tilted	100	QPSK 1_271	633334/3500	100%	0.233	0.06	17.33	18.20	1.222	0.285	22.2
Right cheek	100	QPSK 1_271	633334/3500	100%	0.548	-0.08	17.33	18.20	1.222	0.670	22.2
Right tilted	100	QPSK 1_271	633334/3500	100%	0.480	0.03	17.33	18.20	1.222	0.586	22.2
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135_69	633334/3500	100%	0.179	0.01	17.23	18.20	1.250	0.224	22.2
Left tilted	100	QPSK 135_69	633334/3500	100%	0.206	0.03	17.23	18.20	1.250	0.258	22.2
Right cheek	100	QPSK 135_69	633334/3500	100%	0.444	0.01	17.23	18.20	1.250	0.555	22.2
Right tilted	100	QPSK 135_69	633334/3500	100%	0.399	0.09	17.23	18.20	1.250	0.499	22.2
Body worn Test data(Separate 15mm 1RB) DSI 7											
Front side	100	QPSK 1_271	633334/3500	100%	0.204	-0.08	24.39	25.20	1.205	0.246	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.653	-0.02	24.39	25.20	1.205	0.787	22.2
Body worn Test data(Separate 15mm 50%RB) DSI 7											
Front side	100	QPSK 135_69	633334/3500	100%	0.275	0.09	24.46	25.20	1.186	0.326	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.747	0.02	24.46	25.20	1.186	0.886	22.2
Body worn Test data(Separate 15mm 100%RB) DSI 7											
Back side	100	QPSK 270_0	633334/3500	100%	0.651	-0.03	23.28	24.20	1.236	0.805	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1_271	633334/3500	100%	0.076	0.06	15.97	16.70	1.183	0.090	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.256	0.02	15.97	16.70	1.183	0.303	22.2
Left side	100	QPSK 1_271	633334/3500	100%	0.395	0.03	15.97	16.70	1.183	0.467	22.2
Top side	100	QPSK 1_271	633334/3500	100%	0.211	0.07	15.97	16.70	1.183	0.250	22.2
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135_69	633334/3500	100%	0.077	0.09	15.95	16.70	1.189	0.091	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.208	0.04	15.95	16.70	1.189	0.247	22.2
Left side	100	QPSK 135_69	633334/3500	100%	0.305	0.03	15.95	16.70	1.189	0.362	22.2
Top side	100	QPSK 135_69	633334/3500	100%	0.199	0.09	15.95	16.70	1.189	0.237	22.2
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data(Separate 0mm 1RB) Sensor on DSI 4											
Back side	100	QPSK 1_271	633334/3500	100%	1.160	0.09	17.33	18.20	1.222	1.417	22.2
Left side	100	QPSK 1_271	633334/3500	100%	1.110	0.02	17.33	18.20	1.222	1.356	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 4											
Back side	100	QPSK 135_69	633334/3500	100%	1.300	0.00	17.23	18.20	1.250	1.625	22.2
Left side	100	QPSK 135_69	633334/3500	100%	1.170	0.00	17.23	18.20	1.250	1.463	22.2
Product specific 10g SAR Test data(Separate 1RB) Sensor off DSI 7											
Back side 11mm	100	QPSK 1_271	633334/3500	100%	0.415	-0.01	24.39	25.20	1.205	0.500	22.2
Left side 12mm	100	QPSK 1_271	633334/3500	100%	0.425	0.09	24.39	25.20	1.205	0.512	22.2
Top side 0mm	100	QPSK 1_271	633334/3500	100%	1.830	0.08	24.39	25.20	1.205	2.205	22.2
Product specific 10g SAR Test data (Separate 50%RB) Sensor off DSI 7											
Back side 11mm	100	QPSK 135_69	633334/3500	100%	0.599	-0.16	24.46	25.20	1.186	0.710	22.2
Left side 12mm	100	QPSK 135_69	633334/3500	100%	0.628	0.02	24.46	25.20	1.186	0.745	22.2
Top side 0mm	100	QPSK 135_69	633334/3500	100%	2.410	0.01	24.46	25.20	1.186	2.858	22.2
Top side 0mm-repeated	100	QPSK 135_69	633334/3500	100%	2.350	0.06	24.46	25.20	1.186	2.787	22.2
Product specific 10g SAR Test data (Separate 100%RB) Sensor off DSI 7											
Top side 0mm	100	QPSK 270_0	633334/3500	100%	1.200	-0.04	23.28	24.20	1.236	1.483	22.2
Ant 23 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1_271	633334/3500	100%	0.335	0.07	17.37	18.00	1.156	0.387	22.2



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Left tilted	100	QPSK 1 271	633334/3500	100%	0.172	0.07	17.37	18.00	1.156	0.199	22.2
Right cheek	100	QPSK 1 271	633334/3500	100%	0.097	0.03	17.37	18.00	1.156	0.112	22.2
Right tilted	100	QPSK 1 271	633334/3500	100%	0.085	0.09	17.37	18.00	1.156	0.098	22.2
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	633334/3500	100%	0.251	0.09	17.18	18.00	1.208	0.303	22.2
Left tilted	100	QPSK 135 69	633334/3500	100%	0.156	0.03	17.18	18.00	1.208	0.188	22.2
Right cheek	100	QPSK 135 69	633334/3500	100%	0.100	0.04	17.18	18.00	1.208	0.121	22.2
Right tilted	100	QPSK 135 69	633334/3500	100%	0.060	0.02	17.18	18.00	1.208	0.072	22.2
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 271	633334/3500	100%	0.044	0.09	19.31	20.00	1.172	0.052	22.2
Back side	100	QPSK 1 271	633334/3500	100%	0.126	0.06	19.31	20.00	1.172	0.148	22.2
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	633334/3500	100%	0.044	0.17	19.16	20.00	1.213	0.053	22.2
Back side	100	QPSK 135 69	633334/3500	100%	0.114	0.03	19.16	20.00	1.213	0.138	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 271	633334/3500	100%	0.045	0.07	17.88	18.50	1.153	0.052	22.2
Back side	100	QPSK 1 271	633334/3500	100%	0.147	0.02	17.88	18.50	1.153	0.170	22.2
Right side	100	QPSK 1 271	633334/3500	100%	0.169	0.09	17.88	18.50	1.153	0.195	22.2
Top side	100	QPSK 1 271	633334/3500	100%	0.083	0.03	17.88	18.50	1.153	0.096	22.2
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	633334/3500	100%	0.045	-0.09	17.67	18.50	1.211	0.054	22.2
Back side	100	QPSK 135 69	633334/3500	100%	0.109	0.09	17.67	18.50	1.211	0.132	22.2
Right side	100	QPSK 135 69	633334/3500	100%	0.130	0.02	17.67	18.50	1.211	0.157	22.2
Top side	100	QPSK 135 69	633334/3500	100%	0.062	0.01	17.67	18.50	1.211	0.075	22.2
Ant 21 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 1	633334/3500	8.5%	0.255	-0.01	17.18	18.00	0.103	0.026	22.2
Left tilted	100	QPSK 1 1	633334/3500	8.5%	0.286	0.02	17.18	18.00	0.103	0.029	22.2
Right cheek	100	QPSK 1 1	633334/3500	8.5%	0.196	0.02	17.18	18.00	0.103	0.020	22.2
Right tilted	100	QPSK 1 1	633334/3500	8.5%	0.198	-0.19	17.18	18.00	0.103	0.020	22.2
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	633334/3500	8.5%	0.293	0.06	17.22	18.00	0.102	0.030	22.2
Left tilted	100	QPSK 135 69	633334/3500	8.5%	0.354	0.05	17.22	18.00	0.102	0.036	22.2
Right cheek	100	QPSK 135 69	633334/3500	8.5%	0.241	0.03	17.22	18.00	0.102	0.025	22.2
Right tilted	100	QPSK 135 69	633334/3500	8.5%	0.227	-0.03	17.22	18.00	0.102	0.023	22.2
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 1	633334/3500	8.5%	0.046	0.00	20.18	21.00	0.103	0.005	22.2
Back side	100	QPSK 1 1	633334/3500	8.5%	0.063	0.00	20.18	21.00	0.103	0.006	22.2
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	633334/3500	8.5%	0.055	0.00	20.24	21.00	0.101	0.006	22.2
Back side	100	QPSK 135 69	633334/3500	8.5%	0.053	0.00	20.24	21.00	0.101	0.005	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 1	633334/3500	8.5%	0.059	0.00	18.69	19.50	0.102	0.006	22.2
Back side	100	QPSK 1 1	633334/3500	8.5%	0.117	0.00	18.69	19.50	0.102	0.012	22.2
Left side	100	QPSK 1 1	633334/3500	8.5%	0.010	0.00	18.69	19.50	0.102	0.001	22.2
Right side	100	QPSK 1 1	633334/3500	8.5%	0.001	0.02	18.69	19.50	0.102	0.000	22.2
Top side	100	QPSK 1 1	633334/3500	8.5%	0.139	-0.04	18.69	19.50	0.102	0.014	22.2
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	633334/3500	8.5%	0.070	0.00	18.77	19.50	0.101	0.007	22.2
Back side	100	QPSK 135 69	633334/3500	8.5%	0.118	-0.03	18.77	19.50	0.101	0.012	22.2
Left side	100	QPSK 135 69	633334/3500	8.5%	0.013	0.00	18.77	19.50	0.101	0.001	22.2
Right side	100	QPSK 135 69	633334/3500	8.5%	0.001	0.01	18.77	19.50	0.101	0.000	22.2
Top side	100	QPSK 135 69	633334/3500	8.5%	0.210	0.03	18.77	19.50	0.101	0.021	22.2
Ant 14 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 1	633334/3500	8.5%	0.194	-0.01	14.47	15.70	0.113	0.022	22.2
Left tilted	100	QPSK 1 1	633334/3500	8.5%	0.226	-0.07	14.47	15.70	0.113	0.025	22.2



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Right cheek	100	QPSK 1 1	633334/3500	8.5%	0.596	0.05	14.47	15.70	0.113	0.067	22.2
Right tilted	100	QPSK 1 1	633334/3500	8.5%	0.581	0.03	14.47	15.70	0.113	0.066	22.2
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	633334/3500	8.5%	0.167	0.04	14.39	15.70	0.115	0.019	22.2
Left tilted	100	QPSK 135 69	633334/3500	8.5%	0.196	0.02	14.39	15.70	0.115	0.023	22.2
Right cheek	100	QPSK 135 69	633334/3500	8.5%	0.563	0.05	14.39	15.70	0.115	0.065	22.2
Right tilted	100	QPSK 135 69	633334/3500	8.5%	0.576	0.04	14.39	15.70	0.115	0.066	22.2
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 1	633334/3500	8.5%	0.218	0.09	21.23	22.70	0.119	0.026	22.2
Back side	100	QPSK 1 1	633334/3500	8.5%	0.280	-0.08	21.23	22.70	0.119	0.033	22.2
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	633334/3500	8.5%	0.198	0.02	21.28	22.70	0.118	0.023	22.2
Back side	100	QPSK 135 69	633334/3500	8.5%	0.311	-0.09	21.28	22.70	0.118	0.037	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 1	633334/3500	8.5%	0.399	0.06	20.25	21.70	0.119	0.047	22.2
Back side	100	QPSK 1 1	633334/3500	8.5%	0.414	0.09	20.25	21.70	0.119	0.049	22.2
Left side	100	QPSK 1 1	633334/3500	8.5%	0.181	0.02	20.25	21.70	0.119	0.021	22.2
Top side	100	QPSK 1 1	633334/3500	8.5%	0.541	0.04	20.25	21.70	0.119	0.064	22.2
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	633334/3500	8.5%	0.386	0.01	20.17	21.70	0.121	0.047	22.2
Back side	100	QPSK 135 69	633334/3500	8.5%	0.478	0.09	20.17	21.70	0.121	0.058	22.2
Left side	100	QPSK 135 69	633334/3500	8.5%	0.207	0.06	20.17	21.70	0.121	0.025	22.2
Top side	100	QPSK 135 69	633334/3500	8.5%	0.572	-0.02	20.17	21.70	0.121	0.069	22.2

Ant 13 (3700-3800) Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 137	650000/3750	100%	0.061	0.09	17.40	18.20	1.202	0.073	22.0
Left tilted	100	QPSK 1 137	650000/3750	100%	0.113	-0.02	17.40	18.20	1.202	0.136	22.0
Right cheek	100	QPSK 1 137	650000/3750	100%	0.265	0.05	17.40	18.20	1.202	0.319	22.0
Right tilted	100	QPSK 1 137	650000/3750	100%	0.218	0.10	17.40	18.20	1.202	0.262	22.0
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	650000/3750	100%	0.117	0.08	17.34	18.20	1.219	0.143	22.0
Left tilted	100	QPSK 135 69	650000/3750	100%	0.129	0.03	17.34	18.20	1.219	0.157	22.0
Right cheek	100	QPSK 135 69	650000/3750	100%	0.253	-0.06	17.34	18.20	1.219	0.308	22.0
Right tilted	100	QPSK 135 69	650000/3750	100%	0.327	0.08	17.34	18.20	1.219	0.399	22.0
Body worn Test data(Separate 15mm 1RB) DSI 7											
Front side	100	QPSK 1 137	650000/3750	100%	0.078	0.04	24.40	25.20	1.202	0.094	22.0
Back side	100	QPSK 1 137	650000/3750	100%	0.587	-0.09	24.40	25.20	1.202	0.706	22.0
Body worn Test data(Separate 15mm 50%RB) DSI 7											
Front side	100	QPSK 135 69	650000/3750	100%	0.114	0.01	24.32	25.20	1.225	0.140	22.0
Back side	100	QPSK 135 69	650000/3750	100%	0.383	-0.03	24.32	25.20	1.225	0.469	22.0
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 271	650000/3750	100%	0.044	0.04	15.99	16.70	1.178	0.052	22.0
Back side	100	QPSK 1 271	650000/3750	100%	0.092	0.05	15.99	16.70	1.178	0.108	22.0
Left side	100	QPSK 1 271	650000/3750	100%	0.137	0.06	15.99	16.70	1.178	0.161	22.0
Top side	100	QPSK 1 271	650000/3750	100%	0.087	0.07	15.99	16.70	1.178	0.102	22.0
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	650000/3750	100%	0.051	0.07	15.88	16.70	1.208	0.061	22.0
Back side	100	QPSK 135 69	650000/3750	100%	0.133	0.17	15.88	16.70	1.208	0.161	22.0
Left side	100	QPSK 135 69	650000/3750	100%	0.175	-0.02	15.88	16.70	1.208	0.211	22.0
Top side	100	QPSK 135 69	650000/3750	100%	0.118	0.05	15.88	16.70	1.208	0.143	22.0
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data(Separate 0mm 1RB) Sensor on DSI 4											
Left side	100	QPSK 1 137	650000/3750	100%	1.130	0.06	17.40	18.20	1.202	1.359	22.0
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 4											
Left side	100	QPSK 135 69	650000/3750	100%	1.190	0.01	17.34	18.20	1.219	1.451	22.0



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Product specific 10g SAR Test data(Separate 1RB) Sensor off DSI 7											
Left side 12mm	100	QPSK 1 271	650000/3750	100%	0.359	0.04	24.40	25.20	1.202	0.432	22.0
Product specific 10g SAR Test data (Separate 50%RB) Sensor off DSI 7											
Left side 12mm	100	QPSK 135 69	650000/3750	100%	0.364	0.01	24.32	25.20	1.225	0.446	22.0
Ant 23 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 271	650000/3750	100%	0.550	0.07	17.67	18.00	1.079	0.593	22.0
Left tilted	100	QPSK 1 271	650000/3750	100%	0.386	0.04	17.67	18.00	1.079	0.416	22.0
Right cheek	100	QPSK 1 271	650000/3750	100%	0.182	0.08	17.67	18.00	1.079	0.196	22.0
Right tilted	100	QPSK 1 271	650000/3750	100%	0.185	0.06	17.67	18.00	1.079	0.200	22.0
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	650000/3750	100%	0.486	0.02	17.59	18.00	1.099	0.534	22.0
Left tilted	100	QPSK 135 69	650000/3750	100%	0.395	0.05	17.59	18.00	1.099	0.434	22.0
Right cheek	100	QPSK 135 69	650000/3750	100%	0.181	0.08	17.59	18.00	1.099	0.199	22.0
Right tilted	100	QPSK 135 69	650000/3750	100%	0.176	0.06	17.59	18.00	1.099	0.193	22.0
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 271	650000/3750	100%	0.088	0.12	19.62	20.00	1.091	0.096	22.0
Back side	100	QPSK 1 271	650000/3750	100%	0.183	0.08	19.62	20.00	1.091	0.200	22.0
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	650000/3750	100%	0.074	0.06	19.54	20.00	1.112	0.083	22.0
Back side	100	QPSK 135 69	650000/3750	100%	0.142	0.11	19.54	20.00	1.112	0.158	22.0
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 271	650000/3750	100%	0.111	0.06	18.19	18.50	1.074	0.119	22.0
Back side	100	QPSK 1 271	650000/3750	100%	0.233	0.08	18.19	18.50	1.074	0.250	22.0
Right side	100	QPSK 1 271	650000/3750	100%	0.322	0.17	18.19	18.50	1.074	0.346	22.0
Top side	100	QPSK 1 271	650000/3750	100%	0.097	0.07	18.19	18.50	1.074	0.104	22.0
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	650000/3750	100%	0.095	0.08	18.11	18.50	1.094	0.104	22.0
Back side	100	QPSK 135 69	650000/3750	100%	0.190	0.08	18.11	18.50	1.094	0.208	22.0
Right side	100	QPSK 135 69	650000/3750	100%	0.211	0.07	18.11	18.50	1.094	0.231	22.0
Top side	100	QPSK 135 69	650000/3750	100%	0.085	0.01	18.11	18.50	1.094	0.093	22.0
Ant 21 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 271	650000/3750	8.5%	0.643	0.08	17.54	18.00	0.094	0.061	22.0
Left tilted	100	QPSK 1 271	650000/3750	8.5%	0.771	0.06	17.54	18.00	0.094	0.073	22.0
Right cheek	100	QPSK 1 271	650000/3750	8.5%	0.483	-0.15	17.54	18.00	0.094	0.046	22.0
Right tilted	100	QPSK 1 271	650000/3750	8.5%	0.569	0.05	17.54	18.00	0.094	0.054	22.0
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	650000/3750	8.5%	0.390	0.05	17.50	18.00	0.095	0.037	22.0
Left tilted	100	QPSK 135 69	650000/3750	8.5%	0.667	0.08	17.50	18.00	0.095	0.064	22.0
Right cheek	100	QPSK 135 69	650000/3750	8.5%	0.533	0.18	17.50	18.00	0.095	0.051	22.0
Right tilted	100	QPSK 135 69	650000/3750	8.5%	0.622	0.02	17.50	18.00	0.095	0.059	22.0
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 271	650000/3750	8.5%	0.118	0.00	20.51	21.00	0.095	0.011	22.0
Back side	100	QPSK 1 271	650000/3750	8.5%	0.092	0.09	20.51	21.00	0.095	0.009	22.0
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	650000/3750	8.5%	0.122	0.00	20.53	21.00	0.095	0.012	22.0
Back side	100	QPSK 135 69	650000/3750	8.5%	0.095	0.00	20.53	21.00	0.095	0.009	22.0
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 271	650000/3750	8.5%	0.171	0.09	19.05	19.50	0.094	0.016	22.0
Back side	100	QPSK 1 271	650000/3750	8.5%	0.152	0.09	19.05	19.50	0.094	0.014	22.0
Left side	100	QPSK 1 271	650000/3750	8.5%	0.020	0.09	19.05	19.50	0.094	0.002	22.0
Right side	100	QPSK 1 271	650000/3750	8.5%	0.031	0.17	19.05	19.50	0.094	0.003	22.0
Top side	100	QPSK 1 271	650000/3750	8.5%	0.424	0.09	19.05	19.50	0.094	0.040	22.0
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	650000/3750	8.5%	0.165	0.09	19.00	19.50	0.095	0.016	22.0
Back side	100	QPSK 135 69	650000/3750	8.5%	0.178	0.09	19.00	19.50	0.095	0.017	22.0



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Left side	100	QPSK 135 69	650000/3750	8.5%	0.011	0.09	19.00	19.50	0.095	0.001	22.0
Right side	100	QPSK 135 69	650000/3750	8.5%	0.038	0.08	19.00	19.50	0.095	0.004	22.0
Top side	100	QPSK 135 69	650000/3750	8.5%	0.432	0.07	19.00	19.50	0.095	0.041	22.0
Ant 14 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2											
Left cheek	100	QPSK 1 271	650000/3750	8.5%	0.119	0.09	14.85	15.70	0.103	0.012	22.0
Left tilted	100	QPSK 1 271	650000/3750	8.5%	0.126	0.02	14.85	15.70	0.103	0.013	22.0
Right cheek	100	QPSK 1 271	650000/3750	8.5%	0.292	0.13	14.85	15.70	0.103	0.030	22.0
Right tilted	100	QPSK 1 271	650000/3750	8.5%	0.270	0.15	14.85	15.70	0.103	0.028	22.0
Head Test Data(50%RB) DSI 2											
Left cheek	100	QPSK 135 69	650000/3750	8.5%	0.134	-0.05	14.86	15.70	0.103	0.014	22.0
Left tilted	100	QPSK 135 69	650000/3750	8.5%	0.136	0.05	14.86	15.70	0.103	0.014	22.0
Right cheek	100	QPSK 135 69	650000/3750	8.5%	0.356	0.06	14.86	15.70	0.103	0.037	22.0
Right tilted	100	QPSK 135 69	650000/3750	8.5%	0.268	0.09	14.86	15.70	0.103	0.028	22.0
Body worn Test data(Separate 15mm 1RB) DSI 4/7											
Front side	100	QPSK 1 271	650000/3750	8.5%	0.074	0.09	21.70	22.70	0.107	0.008	22.0
Back side	100	QPSK 1 271	650000/3750	8.5%	0.094	0.09	21.70	22.70	0.107	0.010	22.0
Body worn Test data(Separate 15mm 50%RB) DSI 4/7											
Front side	100	QPSK 135 69	650000/3750	8.5%	0.118	0.19	21.68	22.70	0.108	0.013	22.0
Back side	100	QPSK 135 69	650000/3750	8.5%	0.151	0.05	21.68	22.70	0.108	0.016	22.0
Hotspot Test data(Separate 10mm 1RB) DSI 6											
Front side	100	QPSK 1 271	650000/3750	8.5%	0.179	0.06	20.70	21.70	0.107	0.019	22.0
Back side	100	QPSK 1 271	650000/3750	8.5%	0.202	0.03	20.70	21.70	0.107	0.022	22.0
Left side	100	QPSK 1 271	650000/3750	8.5%	0.207	0.08	20.70	21.70	0.107	0.022	22.0
Top side	100	QPSK 1 271	650000/3750	8.5%	0.127	0.09	20.70	21.70	0.107	0.014	22.0
Hotspot Test data(Separate 10mm 50%RB) DSI 6											
Front side	100	QPSK 135 69	650000/3750	8.5%	0.172	-0.10	20.69	21.70	0.107	0.018	22.0
Back side	100	QPSK 135 69	650000/3750	8.5%	0.200	0.06	20.69	21.70	0.107	0.021	22.0
Left side	100	QPSK 135 69	650000/3750	8.5%	0.453	0.12	20.69	21.70	0.107	0.049	22.0
Top side	100	QPSK 135 69	650000/3750	8.5%	0.127	0.05	20.69	21.70	0.107	0.014	22.0

Table 32: SAR of 5G NR n78 for Head and Body and Product specific 10g SAR.

Test Position	Channel/Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Top side 0mm	633334/3500	2.41	2.35	1.03	N/A	N/A

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



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8.2.23 SAR Result of WIFI 2.4G

Ant22 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	802.11b	6/2437	99.88%	1.001	0.429	0.06	12.96	14.50	1.426	0.612	22.4
Left tilted	802.11b	6/2437	99.88%	1.001	0.376	-0.09	12.96	14.50	1.426	0.537	22.4
Right cheek	802.11b	6/2437	99.88%	1.001	0.190	0.14	12.96	14.50	1.426	0.271	22.4
Right tilted	802.11b	6/2437	99.88%	1.001	0.195	-0.03	12.96	14.50	1.426	0.278	22.4
Body worn Test data(Separate 15mm)											
Front side	802.11b	6/2437	99.88%	1.001	0.035	0.11	15.04	16.50	1.400	0.049	22.4
Back side	802.11b	6/2437	99.88%	1.001	0.050	0.10	15.04	16.50	1.400	0.070	22.4
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	99.88%	1.001	0.074	0.06	15.04	16.50	1.400	0.104	22.4
Back side	802.11b	6/2437	99.88%	1.001	0.108	-0.13	15.04	16.50	1.400	0.151	22.4
Right side	802.11b	6/2437	99.88%	1.001	0.045	0.02	15.04	16.50	1.400	0.063	22.4
Top side	802.11b	6/2437	99.88%	1.001	0.064	0.07	15.04	16.50	1.400	0.089	22.4
Ant24 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	802.11b	6/2437	99.88%	1.001	0.134	0.02	13.18	14.50	1.355	0.182	22.4
Left tilted	802.11b	6/2437	99.88%	1.001	0.030	0.05	13.18	14.50	1.355	0.041	22.4
Right cheek	802.11b	6/2437	99.88%	1.001	0.086	0.11	13.18	14.50	1.355	0.116	22.4
Right tilted	802.11b	6/2437	99.88%	1.001	0.001	-0.01	13.18	14.50	1.355	0.001	22.4
Body worn Test data(Separate 15mm)											
Front side	802.11b	6/2437	99.88%	1.001	0.014	0.03	15.12	16.50	1.374	0.019	22.4
Back side	802.11b	6/2437	99.88%	1.001	0.021	-0.10	15.12	16.50	1.374	0.028	22.4
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	99.88%	1.001	0.029	0.05	15.12	16.50	1.374	0.039	22.4
Back side	802.11b	6/2437	99.88%	1.001	0.038	0.06	15.12	16.50	1.374	0.052	22.4
Right side	802.11b	6/2437	99.88%	1.001	0.037	0.09	15.12	16.50	1.374	0.050	22.4
MIMO Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	802.11b	6/2437	99.88%	1.001	0.319	-0.05	16.08	17.50	1.386	0.443	22.4
Left tilted	802.11b	6/2437	99.88%	1.001	0.284	0.02	16.08	17.50	1.386	0.394	22.4
Right cheek	802.11b	6/2437	99.88%	1.001	0.108	0.14	16.08	17.50	1.386	0.150	22.4
Right tilted	802.11b	6/2437	99.88%	1.001	0.099	0.19	16.08	17.50	1.386	0.137	22.4
Body worn Test data(Separate 15mm)											
Front side	802.11b	6/2437	99.88%	1.001	0.033	-0.07	18.09	19.50	1.383	0.046	22.4
Back side	802.11b	6/2437	99.88%	1.001	0.054	-0.09	18.09	19.50	1.383	0.075	22.4
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	99.88%	1.001	0.072	-0.02	18.09	19.50	1.383	0.099	22.4
Back side	802.11b	6/2437	99.88%	1.001	0.108	-0.07	18.09	19.50	1.383	0.150	22.4
Right side	802.11b	6/2437	99.88%	1.001	0.065	0.09	18.09	19.50	1.383	0.089	22.4
Top side	802.11b	6/2437	99.88%	1.001	0.051	0.03	18.09	19.50	1.383	0.070	22.4

Table 33: SAR of WIFI 2.4G for Head and Body.

Note:

1) As the 802.11b highest reported SAR is smaller than 1.2 W/kg, and the tune-up of the other 802.11 modes is not higher than 802.11b, therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes is not required.



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8.2.24 SAR Result of WIFI 5G

Ant22 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data of U-NII-2A											
Left cheek	802.11ac VHT160	50/5250	99.82%	1.002	0.298	0.07	9.95	11.00	1.274	0.380	22.1
Left tilted	802.11ac VHT160	50/5250	99.82%	1.002	0.343	0.04	9.95	11.00	1.274	0.438	22.1
Right cheek	802.11ac VHT160	50/5250	99.82%	1.002	0.146	0.06	9.95	11.00	1.274	0.186	22.1
Right tilted	802.11ac VHT160	50/5250	99.82%	1.002	0.161	0.03	9.95	11.00	1.274	0.205	22.1
Head Test data of U-NII-2C											
Left cheek	802.11ac VHT80	138/5690	99.63%	1.004	0.397	0.06	10.33	11.00	1.167	0.465	22.4
Left tilted	802.11ac VHT80	138/5690	99.63%	1.004	0.382	0.09	10.33	11.00	1.167	0.447	22.4
Right cheek	802.11ac VHT80	138/5690	99.63%	1.004	0.183	0.03	10.33	11.00	1.167	0.214	22.4
Right tilted	802.11ac VHT80	138/5690	99.63%	1.004	0.190	0.02	10.33	11.00	1.167	0.223	22.4
Head Test data of U-NII-3											
Left cheek	802.11ac VHT80	155/5775	99.63%	1.004	0.052	0.10	10.58	11.00	1.102	0.057	22.3
Left tilted	802.11ac VHT80	155/5775	99.63%	1.004	0.057	0.11	10.58	11.00	1.102	0.063	22.3
Right cheek	802.11ac VHT80	155/5775	99.63%	1.004	0.028	0.04	10.58	11.00	1.102	0.031	22.3
Right tilted	802.11ac VHT80	155/5775	99.63%	1.004	0.045	-0.05	10.58	11.00	1.102	0.050	22.3
Body worn Test data of U-NII-2A(Separate 15mm)											
Front side	802.11a	52/5260	98.74%	1.013	0.083	0.00	15.23	16.50	1.340	0.112	22.1
Back side	802.11a	52/5260	98.74%	1.013	0.186	-0.07	15.23	16.50	1.340	0.252	22.1
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	144/5720	98.74%	1.013	0.069	0.01	15.17	16.00	1.211	0.085	22.3
Back side	802.11a	144/5720	98.74%	1.013	0.101	0.00	15.17	16.00	1.211	0.124	22.3
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	153/5765	98.74%	1.013	0.126	-0.11	17.46	18.00	1.132	0.145	22.3
Back side	802.11a	153/5765	98.74%	1.013	0.204	0.06	17.46	18.00	1.132	0.234	22.3
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	40/5200	98.74%	1.013	0.132	0.06	15.64	16.50	1.219	0.163	22.1
Back side	802.11a	40/5200	98.74%	1.013	0.372	0.11	15.64	16.50	1.219	0.459	22.1
Right side	802.11a	40/5200	98.74%	1.013	0.092	-0.05	15.64	16.50	1.219	0.113	22.1
Top side	802.11a	40/5200	98.74%	1.013	0.360	0.12	15.64	16.50	1.219	0.444	22.1
Hotspot Test data of U-NII-3(Separate 10mm)											
Front side	802.11a	153/5765	98.74%	1.013	0.223	0.05	17.46	18.00	1.132	0.256	22.3
Back side	802.11a	153/5765	98.74%	1.013	0.378	-0.05	17.46	18.00	1.132	0.434	22.3
Right side	802.11a	153/5765	98.74%	1.013	0.118	0.17	17.46	18.00	1.132	0.135	22.3
Top side	802.11a	153/5765	98.74%	1.013	0.570	-0.03	17.46	18.00	1.132	0.654	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	52/5260	98.74%	1.013	0.422	0.00	15.23	16.50	1.340	0.573	22.1
Back side	802.11a	52/5260	98.74%	1.013	0.376	0.08	15.23	16.50	1.340	0.510	22.1
Right side	802.11a	52/5260	98.74%	1.013	0.177	-0.05	15.23	16.50	1.340	0.240	22.1
Top side	802.11a	52/5260	98.74%	1.013	0.680	0.05	15.23	16.50	1.340	0.923	22.1
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	144/5720	98.74%	1.013	0.294	0.00	15.17	16.00	1.211	0.360	22.3
Back side	802.11a	144/5720	98.74%	1.013	0.203	-0.03	15.17	16.00	1.211	0.249	22.3
Right side	802.11a	144/5720	98.74%	1.013	0.114	-0.07	15.17	16.00	1.211	0.140	22.3
Top side	802.11a	144/5720	98.74%	1.013	0.678	-0.09	15.17	16.00	1.211	0.831	22.3
Ant24 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data of U-NII-2A											
Left cheek	802.11ac VHT160	50/5250	99.82%	1.002	0.033	0.00	10.62	11.00	1.091	0.036	22.1



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Left tilted	802.11ac VHT160	50/5250	99.82%	1.002	0.016	0.00	10.62	11.00	1.091	0.017	22.1
Right cheek	802.11ac VHT160	50/5250	99.82%	1.002	0.022	0.00	10.62	11.00	1.091	0.024	22.1
Right tilted	802.11ac VHT160	50/5250	99.82%	1.002	0.015	0.00	10.62	11.00	1.091	0.016	22.1
Head Test data of U-NII-2C											
Left cheek	802.11ac VHT80	138/5690	99.63%	1.004	0.071	0.09	10.66	11.00	1.081	0.077	22.4
Left tilted	802.11ac VHT80	138/5690	99.63%	1.004	0.040	0.04	10.66	11.00	1.081	0.043	22.4
Right cheek	802.11ac VHT80	138/5690	99.63%	1.004	0.040	0.08	10.66	11.00	1.081	0.043	22.4
Right tilted	802.11ac VHT80	138/5690	99.63%	1.004	0.022	-0.18	10.66	11.00	1.081	0.024	22.4
Head Test data of U-NII-3											
Left cheek	802.11ac VHT80	155/5775	99.63%	1.004	0.067	-0.05	10.93	11.00	1.016	0.068	22.3
Left tilted	802.11ac VHT80	155/5775	99.63%	1.004	0.046	0.00	10.93	11.00	1.016	0.047	22.3
Right cheek	802.11ac VHT80	155/5775	99.63%	1.004	0.039	0.00	10.93	11.00	1.016	0.039	22.3
Right tilted	802.11ac VHT80	155/5775	99.63%	1.004	0.033	0.00	10.93	11.00	1.016	0.034	22.3
Body worn Test data of U-NII-2A(Separate 15mm)											
Front side	802.11a	56/5280	98.74%	1.013	0.028	-0.05	15.84	16.50	1.164	0.033	22.1
Back side	802.11a	56/5280	98.74%	1.013	0.041	-0.05	15.84	16.50	1.164	0.048	22.1
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	144/5720	98.74%	1.013	0.037	-0.07	15.29	16.00	1.178	0.044	22.3
Back side	802.11a	144/5720	98.74%	1.013	0.055	0.05	15.29	16.00	1.178	0.065	22.3
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	161/5805	98.74%	1.013	0.064	0.01	17.58	18.00	1.102	0.071	22.3
Back side	802.11a	161/5805	98.74%	1.013	0.109	0.02	17.58	18.00	1.102	0.122	22.3
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	48/5240	98.74%	1.013	0.044	-0.06	15.93	16.50	1.140	0.051	22.1
Back side	802.11a	48/5240	98.74%	1.013	0.073	0.10	15.93	16.50	1.140	0.084	22.1
Right side	802.11a	48/5240	98.74%	1.013	0.136	-0.07	15.93	16.50	1.140	0.157	22.1
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	161/5805	98.74%	1.013	0.100	0.06	17.58	18.00	1.102	0.111	22.3
Back side	802.11a	161/5805	98.74%	1.013	0.166	0.08	17.58	18.00	1.102	0.185	22.3
Right side	802.11a	161/5805	98.74%	1.013	0.270	-0.16	17.58	18.00	1.102	0.301	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	56/5280	98.74%	1.013	0.118	0.00	15.84	16.50	1.164	0.139	22.1
Back side	802.11a	56/5280	98.74%	1.013	0.071	0.18	15.84	16.50	1.164	0.084	22.1
Right side	802.11a	56/5280	98.74%	1.013	0.407	-0.03	15.84	16.50	1.164	0.480	22.1
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	144/5720	98.74%	1.013	0.112	-0.03	15.29	16.00	1.178	0.134	22.3
Back side	802.11a	144/5720	98.74%	1.013	0.137	0.08	15.29	16.00	1.178	0.163	22.3
Right side	802.11a	144/5720	98.74%	1.013	0.431	-0.07	15.29	16.00	1.178	0.514	22.3
MIMO Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data of U-NII-2A											
Left cheek	802.11ac VHT160	50/5250	99.82%	1.002	0.278	-0.05	13.31	14.00	1.172	0.326	22.1
Left tilted	802.11ac VHT160	50/5250	99.82%	1.002	0.271	0.05	13.31	14.00	1.172	0.318	22.1
Right cheek	802.11ac VHT160	50/5250	99.82%	1.002	0.149	0.11	13.31	14.00	1.172	0.175	22.1
Right tilted	802.11ac VHT160	50/5250	99.82%	1.002	0.147	0.01	13.31	14.00	1.172	0.173	22.1
Head Test data of U-NII-2C											
Left cheek	802.11ac VHT80	138/5690	99.63%	1.004	0.333	-0.03	13.51	14.00	1.119	0.374	22.4
Left tilted	802.11ac VHT80	138/5690	99.63%	1.004	0.308	0.01	13.51	14.00	1.119	0.346	22.4
Right cheek	802.11ac VHT80	138/5690	99.63%	1.004	0.281	0.10	13.51	14.00	1.119	0.316	22.4
Right tilted	802.11ac VHT80	138/5690	99.63%	1.004	0.274	0.02	13.51	14.00	1.119	0.308	22.4
Head Test data of U-NII-3											
Left cheek	802.11ac VHT80	155/5775	99.63%	1.004	0.367	0.01	13.77	14.00	1.055	0.389	22.3
Left tilted	802.11ac VHT80	155/5775	99.63%	1.004	0.274	0.07	13.77	14.00	1.055	0.290	22.3
Right cheek	802.11ac VHT80	155/5775	99.63%	1.004	0.252	0.02	13.77	14.00	1.055	0.267	22.3
Right tilted	802.11ac VHT80	155/5775	99.63%	1.004	0.269	0.04	13.77	14.00	1.055	0.285	22.3
Body worn Test data of U-NII-2A (Separate 15mm)											



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Front side	802.11a	56/5280	98.74%	1.013	0.082	-0.08	18.51	19.50	1.255	0.104	22.1
Back side	802.11a	56/5280	98.74%	1.013	0.161	0.09	18.51	19.50	1.255	0.205	22.1
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	144/5720	98.74%	1.013	0.092	-0.09	18.24	19.00	1.191	0.111	22.3
Back side	802.11a	144/5720	98.74%	1.013	0.147	0.00	18.24	19.00	1.191	0.177	22.3
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	161/5805	98.74%	1.013	0.166	-0.04	20.49	21.00	1.124	0.189	22.3
Back side	802.11a	161/5805	98.74%	1.013	0.263	0.02	20.49	21.00	1.124	0.299	22.3
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	40/5200	98.74%	1.013	0.172	0.02	18.76	19.50	1.187	0.207	22.1
Back side	802.11a	40/5200	98.74%	1.013	0.424	0.08	18.76	19.50	1.187	0.510	22.1
Right side	802.11a	40/5200	98.74%	1.013	0.180	0.05	18.76	19.50	1.187	0.216	22.1
Top side	802.11a	40/5200	98.74%	1.013	0.406	-0.01	18.76	19.50	1.187	0.488	22.1
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	161/5805	98.74%	1.013	0.277	0.05	20.49	21.00	1.124	0.315	22.3
Back side	802.11a	161/5805	98.74%	1.013	0.516	0.06	20.49	21.00	1.124	0.588	22.3
Right side	802.11a	161/5805	98.74%	1.013	0.309	0.06	20.49	21.00	1.124	0.352	22.3
Top side	802.11a	161/5805	98.74%	1.013	0.656	0.01	20.49	21.00	1.124	0.747	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	56/5280	98.74%	1.013	0.419	0.01	18.51	19.50	1.255	0.532	22.1
Back side	802.11a	56/5280	98.74%	1.013	0.379	0.02	18.51	19.50	1.255	0.482	22.1
Right side	802.11a	56/5280	98.74%	1.013	0.478	-0.03	18.51	19.50	1.255	0.607	22.1
Top side	802.11a	56/5280	98.74%	1.013	0.633	0.02	18.51	19.50	1.255	0.804	22.1
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	144/5720	98.74%	1.013	0.360	0.04	18.24	19.00	1.191	0.434	22.3
Back side	802.11a	144/5720	98.74%	1.013	0.277	0.04	18.24	19.00	1.191	0.334	22.3
Right side	802.11a	144/5720	98.74%	1.013	0.455	-0.09	18.24	19.00	1.191	0.549	22.3
Top side	802.11a	144/5720	98.74%	1.013	0.742	0.02	18.24	19.00	1.191	0.895	22.3

Table 34: SAR of WIFI 5G for Head, Body and Product specific 10g SAR.

Note:

1) As the above highest 1g reported SAR is smaller than 1.2 W/kg, and the tune-up of the other 802.11 modes are not higher than the SAR test mode above, therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes is not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg, Product specific 10gSAR test for the other 802.11 modes is also not required.



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8.2.25 SAR Result of BT

Ant22 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	DH5	39/2441	76.81%	1.302	0.114	0.09	10.17	11.80	1.455	0.216	22.4
Left tilted	DH5	39/2441	76.81%	1.302	0.107	0.04	10.17	11.80	1.455	0.203	22.4
Right cheek	DH5	39/2441	76.81%	1.302	0.048	0.03	10.17	11.80	1.455	0.090	22.4
Right tilted	DH5	39/2441	76.81%	1.302	0.051	0.09	10.17	11.80	1.455	0.097	22.4
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	76.81%	1.302	0.007	-0.07	10.17	11.80	1.455	0.012	22.4
Back side	DH5	39/2441	76.81%	1.302	0.011	0.00	10.17	11.80	1.455	0.021	22.4
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.81%	1.302	0.015	-0.08	10.17	11.80	1.455	0.027	22.4
Back side	DH5	39/2441	76.81%	1.302	0.022	-0.09	10.17	11.80	1.455	0.042	22.4
Right side	DH5	39/2441	76.81%	1.302	0.012	0.01	10.17	11.80	1.455	0.022	22.4
Top side	DH5	39/2441	76.81%	1.302	0.016	0.05	10.17	11.80	1.455	0.030	22.4
Ant24 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	DH5	39/2441	76.81%	1.302	0.032	0.00	10.38	12.30	1.556	0.064	22.4
Left tilted	DH5	39/2441	76.81%	1.302	0.005	0.09	10.38	12.30	1.556	0.010	22.4
Right cheek	DH5	39/2441	76.81%	1.302	0.045	0.00	10.38	12.30	1.556	0.091	22.4
Right tilted	DH5	39/2441	76.81%	1.302	0.001	0.09	10.38	12.30	1.556	0.003	22.4
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	76.81%	1.302	0.005	-0.04	10.38	12.30	1.556	0.011	22.4
Back side	DH5	39/2441	76.81%	1.302	0.007	0.03	10.38	12.30	1.556	0.014	22.4
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.81%	1.302	0.011	-0.04	10.38	12.30	1.556	0.023	22.4
Back side	DH5	39/2441	76.81%	1.302	0.018	0.06	10.38	12.30	1.556	0.036	22.4
Right side	DH5	39/2441	76.81%	1.302	0.015	-0.02	10.38	12.30	1.556	0.031	22.4

Table 35: SAR of BT for Head and Body.



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

• Simultaneous Transmission Possibilities

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4GHz (Ant 22)	Yes	Yes	Yes	Yes
2	WWAN + WLAN 2.4GHz (Ant 24)	Yes	Yes	Yes	Yes
3	WWAN + WLAN 2.4GHz MIMO	Yes	Yes	Yes	Yes
4	WWAN + WLAN 5GHz (Ant 22)	Yes	Yes	Yes	Yes
5	WWAN + WLAN 5GHz (Ant 24)	Yes	Yes	Yes	Yes
6	WWAN + WLAN 5GHz MIMO	Yes	Yes	Yes	Yes
7	WWAN + BT (Ant 22)	Yes	Yes	Yes	Yes
8	WWAN + BT (Ant 24)	Yes	Yes	Yes	Yes
9	WWAN + WLAN 2.4GHz (Ant 22) + BT (Ant 24)	Yes	Yes	Yes	Yes
10	WWAN + WLAN 2.4GHz (Ant 24) + BT (Ant 22)	Yes	Yes	Yes	Yes
11	WWAN + WLAN 5GHz (Ant 22) + BT (Ant 22)	Yes	Yes	Yes	Yes
12	WWAN + WLAN 5GHz (Ant 24) + BT (Ant 22)	Yes	Yes	Yes	Yes
13	WWAN + WLAN 5GHz MIMO + BT (Ant 22)	Yes	Yes	Yes	Yes
14	WWAN + WLAN 5GHz (Ant 22) + BT (Ant 24)	Yes	Yes	Yes	Yes
15	WWAN + WLAN 5GHz (Ant 24) + BT (Ant 24)	Yes	Yes	Yes	Yes
16	WWAN + WLAN 5GHz MIMO + BT (Ant 24)	Yes	Yes	Yes	Yes
17	WLAN 2.4GHz (Ant 24) + BT (Ant 22)	Yes	Yes	Yes	Yes
18	WLAN 2.4GHz (Ant 22) + BT (Ant 24)	Yes	Yes	Yes	Yes
19	WLAN 5GHz (Ant 22) + BT (Ant 22)	Yes	Yes	Yes	Yes
20	WLAN 5GHz (Ant 24) + BT (Ant 22)	Yes	Yes	Yes	Yes
21	WLAN 5GHz MIMO + BT (Ant 22)	Yes	Yes	Yes	Yes
22	WLAN 5GHz (Ant 22) + BT (Ant 24)	Yes	Yes	Yes	Yes
23	WLAN 5GHz (Ant 24) + BT (Ant 24)	Yes	Yes	Yes	Yes
24	WLAN 5GHz MIMO + BT (Ant 24)	Yes	Yes	Yes	Yes
25	WWAN + WLAN 2.4GHz (Ant 22)+NFC	/	/	/	Yes
26	WWAN + WLAN 2.4GHz (Ant 24)+NFC	/	/	/	Yes
27	WWAN + WLAN 2.4GHz MIMO+NFC	/	/	/	Yes
28	WWAN + WLAN 5GHz (Ant 22)+NFC	/	/	/	Yes
29	WWAN + WLAN 5GHz (Ant 24)+NFC	/	/	/	Yes
30	WWAN + WLAN 5GHz MIMO+NFC	/	/	/	Yes
31	WWAN + BT (Ant 22)+NFC	/	/	/	Yes
32	WWAN + BT (Ant 24)+NFC	/	/	/	Yes
33	WWAN + WLAN 2.4GHz (Ant 22) + BT (Ant 24)+NFC	/	/	/	Yes
34	WWAN + WLAN 2.4GHz (Ant 24) + BT (Ant 22)+NFC	/	/	/	Yes
35	WWAN + WLAN 5GHz (Ant 22) + BT (Ant 22)+NFC	/	/	/	Yes
36	WWAN + WLAN 5GHz (Ant 24) + BT (Ant 22)+NFC	/	/	/	Yes
37	WWAN + WLAN 5GHz MIMO + BT (Ant 22)+NFC	/	/	/	Yes
38	WWAN + WLAN 5GHz (Ant 22) + BT (Ant 24)+NFC	/	/	/	Yes
39	WWAN + WLAN 5GHz (Ant 24) + BT (Ant 24)+NFC	/	/	/	Yes
40	WWAN + WLAN 5GHz MIMO + BT (Ant 24)+NFC	/	/	/	Yes
41	WLAN 2.4GHz (Ant 24) + BT (Ant 22)+NFC	/	/	/	Yes
42	WLAN 2.4GHz (Ant 22) + BT (Ant 24)+NFC	/	/	/	Yes
43	WLAN 5GHz (Ant 22) + BT (Ant 22)+NFC	/	/	/	Yes
44	WLAN 5GHz (Ant 24) + BT (Ant 22)+NFC	/	/	/	Yes
45	WLAN 5GHz MIMO + BT (Ant 22)+NFC	/	/	/	Yes



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46	WLAN 5GHz (Ant 22) + BT (Ant 24)+NFC	/	/	/	Yes
47	WLAN 5GHz (Ant 24) + BT (Ant 24)+NFC	/	/	/	Yes
48	WLAN 5GHz MIMO + BT (Ant 24)+NFC	/	/	/	Yes

Note:

- 1) The device does not support DTM function.
- 2) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 3) The NFC test data can be referred to NFC SAR test report (Report NO.:SEWM2305000166RG09).
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.



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8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)														
		Main Ant11	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24						
		1	2	3	4	5	6	7	8	9						
GSM850	Left cheek	0.439	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
	Left tilted	0.056	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
	Right cheek	0.268	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
WCDMA B5	Right tilted	0.052	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
	Left cheek	0.700	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
	Left tilted	0.090	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
CDMA BC0	Right cheek	0.305	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
	Right tilted	0.070	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
	Left cheek	0.605	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
LTE B12	Left tilted	0.073	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
	Right cheek	0.253	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
	Right tilted	0.070	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
LTE B13	Left cheek	0.268	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
	Left tilted	0.037	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
	Right cheek	0.112	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
LTE B26	Right tilted	0.035	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
	Left cheek	0.216	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
	Left tilted	0.030	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
N26	Right cheek	0.100	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
	Right tilted	0.027	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
	Left cheek	0.551	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
N26	Left tilted	0.076	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
	Right cheek	0.220	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
	Right tilted	0.066	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
N26	Left cheek	0.698	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
	Left tilted	0.087	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
	Right cheek	0.307	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
N26	Right tilted	0.062	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
	Summed SAR															
	1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
1.051	0.621	0.882	0.904	0.516	0.828	0.655	0.503	1.115	0.837	1.120	0.732	1.044	0.968	0.580	0.892	
0.593	0.097	0.450	0.503	0.103	0.402	0.259	0.066	0.603	0.300	0.706	0.306	0.605	0.513	0.113	0.412	
0.539	0.384	0.418	0.482	0.311	0.584	0.358	0.359	0.630	0.474	0.572	0.401	0.674	0.573	0.402	0.675	
0.330	0.053	0.189	0.275	0.086	0.360	0.149	0.055	0.333	0.150	0.372	0.183	0.457	0.278	0.089	0.363	
1.312	0.882	1.143	1.165	0.777	1.089	0.916	0.764	1.376	1.098	1.381	0.993	1.305	1.229	0.841	1.153	
0.627	0.131	0.484	0.537	0.137	0.436	0.293	0.100	0.637	0.334	0.740	0.340	0.639	0.547	0.147	0.446	
0.576	0.421	0.455	0.519	0.348	0.621	0.395	0.396	0.667	0.511	0.609	0.438	0.711	0.610	0.439	0.712	
0.348	0.071	0.207	0.293	0.104	0.378	0.167	0.073	0.351	0.168	0.390	0.201	0.475	0.296	0.107	0.381	
1.217	0.787	1.048	1.070	0.682	0.994	0.821	0.669	1.281	1.003	1.286	0.898	1.210	1.134	0.746	1.058	
0.610	0.114	0.467	0.520	0.120	0.419	0.276	0.083	0.620	0.317	0.723	0.323	0.622	0.530	0.130	0.429	
0.524	0.369	0.403	0.467	0.296	0.569	0.343	0.344	0.615	0.459	0.557	0.386	0.659	0.558	0.387	0.660	
0.348	0.071	0.207	0.293	0.104	0.378	0.167	0.073	0.351	0.168	0.390	0.201	0.475	0.296	0.107	0.381	
0.880	0.450	0.711	0.733	0.345	0.657	0.484	0.332	0.944	0.666	0.949	0.561	0.873	0.797	0.409	0.721	
0.574	0.078	0.431	0.484	0.084	0.383	0.240	0.047	0.584	0.281	0.687	0.287	0.586	0.494	0.094	0.393	
0.383	0.228	0.262	0.326	0.155	0.428	0.202	0.203	0.474	0.318	0.416	0.245	0.518	0.417	0.246	0.519	
0.313	0.036	0.172	0.258	0.069	0.343	0.132	0.038	0.316	0.133	0.355	0.166	0.440	0.261	0.072	0.346	
0.828	0.398	0.659	0.681	0.293	0.605	0.432	0.280	0.892	0.614	0.897	0.509	0.821	0.745	0.357	0.669	
0.567	0.071	0.424	0.477	0.077	0.376	0.233	0.040	0.577	0.274	0.680	0.280	0.579	0.487	0.087	0.386	
0.371	0.216	0.250	0.314	0.143	0.416	0.190	0.191	0.462	0.306	0.404	0.233	0.506	0.405	0.234	0.507	
0.305	0.028	0.164	0.250	0.061	0.335	0.124	0.030	0.308	0.125	0.347	0.158	0.432	0.253	0.064	0.338	
1.163	0.733	0.994	1.016	0.628	0.940	0.767	0.615	1.227	0.949	1.232	0.844	1.156	1.080	0.692	1.004	
0.613	0.117	0.470	0.523	0.123	0.422	0.279	0.086	0.623	0.320	0.726	0.326	0.625	0.533	0.133	0.432	
0.491	0.336	0.370	0.434	0.263	0.536	0.310	0.311	0.582	0.426	0.524	0.353	0.626	0.525	0.354	0.627	
0.344	0.067	0.203	0.289	0.100	0.374	0.163	0.069	0.347	0.164	0.386	0.197	0.471	0.292	0.103	0.377	
1.310	0.880	1.141	1.163	0.775	1.087	0.914	0.762	1.374	1.096	1.379	0.991	1.303	1.227	0.839	1.151	
0.624	0.128	0.481	0.534	0.134	0.433	0.290	0.097	0.634	0.331	0.737	0.337	0.636	0.544	0.144	0.443	
0.578	0.423	0.457	0.521	0.350	0.623	0.397	0.398	0.669	0.513	0.611	0.440	0.713	0.612	0.441	0.714	
0.340	0.063	0.199	0.285	0.096	0.370	0.159	0.065	0.343	0.160	0.382	0.193	0.467	0.288	0.099	0.373	



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Test position		SARmax (W/kg)													
		Main Ant12	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N7	Left cheek	0.155	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.101	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.525	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.204	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N38	Left cheek	0.304	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.152	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.740	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.346	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N41	Left cheek	0.177	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.131	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.708	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.259	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
NSA N66	Left cheek	0.091	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.049	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.419	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.111	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
ENDC LTE B7	Left cheek	0.165	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.100	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.516	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.210	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
Inter-band LTE B4	Left cheek	0.079	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.043	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.358	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.097	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.767	0.337	0.598	0.620	0.232	0.544	0.371	0.219	0.831	0.553	0.836	0.448	0.760	0.684	0.296	0.608
0.638	0.142	0.495	0.548	0.148	0.447	0.304	0.111	0.648	0.345	0.751	0.351	0.650	0.558	0.158	0.457
0.796	0.641	0.675	0.739	0.568	0.841	0.615	0.616	0.887	0.731	0.829	0.658	0.931	0.830	0.659	0.932
0.482	0.205	0.341	0.427	0.238	0.512	0.301	0.207	0.485	0.302	0.524	0.335	0.609	0.430	0.241	0.515
0.916	0.486	0.747	0.769	0.381	0.693	0.520	0.368	0.980	0.702	0.985	0.597	0.909	0.833	0.445	0.757
0.689	0.193	0.546	0.599	0.199	0.498	0.355	0.162	0.699	0.396	0.802	0.402	0.701	0.609	0.209	0.508
1.011	0.856	0.890	0.954	0.783	1.056	0.830	0.831	1.102	0.946	1.044	0.873	1.146	1.045	0.874	1.147
0.624	0.347	0.483	0.569	0.380	0.654	0.443	0.349	0.627	0.444	0.666	0.477	0.751	0.572	0.383	0.657
0.789	0.359	0.620	0.642	0.254	0.566	0.393	0.241	0.853	0.575	0.858	0.470	0.782	0.706	0.318	0.630
0.668	0.172	0.525	0.578	0.178	0.477	0.334	0.141	0.678	0.375	0.781	0.381	0.680	0.588	0.188	0.487
0.979	0.824	0.858	0.922	0.751	1.024	0.798	0.799	1.070	0.914	1.012	0.841	1.114	1.013	0.842	1.115
0.537	0.260	0.396	0.482	0.293	0.567	0.356	0.262	0.540	0.357	0.579	0.390	0.664	0.485	0.296	0.570
0.703	0.273	0.534	0.556	0.168	0.480	0.307	0.155	0.767	0.489	0.772	0.384	0.696	0.620	0.232	0.544
0.586	0.090	0.443	0.496	0.096	0.395	0.252	0.059	0.596	0.293	0.699	0.299	0.598	0.506	0.106	0.405
0.690	0.535	0.569	0.633	0.462	0.735	0.509	0.510	0.781	0.625	0.723	0.552	0.825	0.724	0.553	0.826
0.389	0.112	0.248	0.334	0.145	0.419	0.208	0.114	0.392	0.209	0.431	0.242	0.516	0.337	0.148	0.422
0.777	0.347	0.608	0.630	0.242	0.554	0.381	0.229	0.841	0.563	0.846	0.458	0.770	0.694	0.306	0.618
0.637	0.141	0.494	0.547	0.147	0.446	0.303	0.110	0.647	0.344	0.750	0.350	0.649	0.557	0.157	0.456
0.787	0.632	0.666	0.730	0.559	0.832	0.606	0.607	0.878	0.722	0.820	0.649	0.922	0.821	0.650	0.923
0.488	0.211	0.347	0.433	0.244	0.518	0.307	0.213	0.491	0.308	0.530	0.341	0.615	0.436	0.247	0.521
0.691	0.261	0.522	0.544	0.156	0.468	0.295	0.143	0.755	0.477	0.760	0.372	0.684	0.608	0.220	0.532
0.580	0.084	0.437	0.490	0.090	0.389	0.246	0.053	0.590	0.287	0.693	0.293	0.592	0.500	0.100	0.399
0.629	0.474	0.508	0.572	0.401	0.674	0.448	0.449	0.720	0.564	0.662	0.491	0.764	0.663	0.492	0.765
0.375	0.098	0.234	0.320	0.131	0.405	0.194	0.100	0.378	0.195	0.417	0.228	0.502	0.323	0.134	0.408



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Test position		SARmax (W/kg)													
		Main Ant13	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N77 (3450-3550)	Left cheek	0.207	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.222	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.592	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.535	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N77 (3700-3980)	Left cheek	0.113	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.122	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.387	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.308	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N78 (3450-3550)	Left cheek	0.286	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.285	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.670	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.586	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N78 (3700-3800)	Left cheek	0.143	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.157	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.319	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.399	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.819	0.389	0.650	0.672	0.284	0.596	0.423	0.271	0.883	0.605	0.888	0.500	0.812	0.736	0.348	0.660
0.759	0.263	0.616	0.669	0.269	0.568	0.425	0.232	0.769	0.466	0.872	0.472	0.771	0.679	0.279	0.578
0.863	0.708	0.742	0.806	0.635	0.908	0.682	0.683	0.954	0.798	0.896	0.725	0.998	0.897	0.726	0.999
0.813	0.536	0.672	0.758	0.569	0.843	0.632	0.538	0.816	0.633	0.855	0.666	0.940	0.761	0.572	0.846
0.725	0.295	0.556	0.578	0.190	0.502	0.329	0.177	0.789	0.511	0.794	0.406	0.718	0.642	0.254	0.566
0.659	0.163	0.516	0.569	0.169	0.468	0.325	0.132	0.669	0.366	0.772	0.372	0.671	0.579	0.179	0.478
0.658	0.503	0.537	0.601	0.430	0.703	0.477	0.478	0.749	0.593	0.691	0.520	0.793	0.692	0.521	0.794
0.586	0.309	0.445	0.531	0.342	0.616	0.405	0.311	0.589	0.406	0.628	0.439	0.713	0.534	0.345	0.619
0.898	0.468	0.729	0.751	0.363	0.675	0.502	0.350	0.962	0.684	0.967	0.579	0.891	0.815	0.427	0.739
0.822	0.326	0.679	0.732	0.332	0.631	0.488	0.295	0.832	0.529	0.935	0.535	0.834	0.742	0.342	0.641
0.941	0.786	0.820	0.884	0.713	0.986	0.760	0.761	1.032	0.876	0.974	0.803	1.076	0.975	0.804	1.077
0.864	0.587	0.723	0.809	0.620	0.894	0.683	0.589	0.867	0.684	0.906	0.717	0.991	0.812	0.623	0.897
0.755	0.325	0.586	0.608	0.220	0.532	0.359	0.207	0.819	0.541	0.824	0.436	0.748	0.672	0.284	0.596
0.694	0.198	0.551	0.604	0.204	0.503	0.360	0.167	0.704	0.401	0.807	0.407	0.706	0.614	0.214	0.513
0.590	0.435	0.469	0.533	0.362	0.635	0.409	0.410	0.681	0.525	0.623	0.452	0.725	0.624	0.453	0.726
0.677	0.400	0.536	0.622	0.433	0.707	0.496	0.402	0.680	0.497	0.719	0.530	0.804	0.625	0.436	0.710



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Test position		SARmax (W/kg)													
		Main Ant14	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N77 (3450-3550)	Left cheek	0.028	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.027	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.083	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.079	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N77 (3700-3980)	Left cheek	0.014	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.012	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.042	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.035	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N78 (3450-3550)	Left cheek	0.022	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.025	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.067	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.066	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N78 (3700-3800)	Left cheek	0.014	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.014	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.037	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.028	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.640	0.210	0.471	0.493	0.105	0.417	0.244	0.092	0.704	0.426	0.709	0.321	0.633	0.557	0.169	0.481
0.564	0.068	0.421	0.474	0.074	0.373	0.230	0.037	0.574	0.271	0.677	0.277	0.576	0.484	0.084	0.383
0.354	0.199	0.233	0.297	0.126	0.399	0.173	0.174	0.445	0.289	0.387	0.216	0.489	0.388	0.217	0.490
0.357	0.080	0.216	0.302	0.113	0.387	0.176	0.082	0.360	0.177	0.399	0.210	0.484	0.305	0.116	0.390
0.626	0.196	0.457	0.479	0.091	0.403	0.230	0.078	0.690	0.412	0.695	0.307	0.619	0.543	0.155	0.467
0.549	0.053	0.406	0.459	0.059	0.358	0.215	0.022	0.559	0.256	0.662	0.262	0.561	0.469	0.069	0.368
0.313	0.158	0.192	0.256	0.085	0.358	0.132	0.133	0.404	0.248	0.346	0.175	0.448	0.347	0.176	0.449
0.313	0.036	0.172	0.258	0.069	0.343	0.132	0.038	0.316	0.133	0.355	0.166	0.440	0.261	0.072	0.346
0.634	0.204	0.465	0.487	0.099	0.411	0.238	0.086	0.698	0.420	0.703	0.315	0.627	0.551	0.163	0.475
0.562	0.066	0.419	0.472	0.072	0.371	0.228	0.035	0.572	0.269	0.675	0.275	0.574	0.482	0.082	0.381
0.338	0.183	0.217	0.281	0.110	0.383	0.157	0.158	0.429	0.273	0.371	0.200	0.473	0.372	0.201	0.474
0.344	0.067	0.203	0.289	0.100	0.374	0.163	0.069	0.347	0.164	0.386	0.197	0.471	0.292	0.103	0.377
0.626	0.196	0.457	0.479	0.091	0.403	0.230	0.078	0.690	0.412	0.695	0.307	0.619	0.543	0.155	0.467
0.551	0.055	0.408	0.461	0.061	0.360	0.217	0.024	0.561	0.258	0.664	0.264	0.563	0.471	0.071	0.370
0.308	0.153	0.187	0.251	0.080	0.353	0.127	0.128	0.399	0.243	0.341	0.170	0.443	0.342	0.171	0.444
0.306	0.029	0.165	0.251	0.062	0.336	0.125	0.031	0.309	0.126	0.348	0.159	0.433	0.254	0.065	0.339



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Test position		SARmax (W/kg)													
		Main Ant15	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
LTE B41	Left cheek	0.297	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.349	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.657	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.406	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N7	Left cheek	0.309	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.308	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.644	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.466	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.909	0.479	0.740	0.762	0.374	0.686	0.513	0.361	0.973	0.695	0.978	0.590	0.902	0.826	0.438	0.750
0.886	0.390	0.743	0.796	0.396	0.695	0.552	0.359	0.896	0.593	0.999	0.599	0.898	0.806	0.406	0.705
0.928	0.773	0.807	0.871	0.700	0.973	0.747	0.748	1.019	0.863	0.961	0.790	1.063	0.962	0.791	1.064
0.684	0.407	0.543	0.629	0.440	0.714	0.503	0.409	0.687	0.504	0.726	0.537	0.811	0.632	0.443	0.717
0.921	0.491	0.752	0.774	0.386	0.698	0.525	0.373	0.985	0.707	0.990	0.602	0.914	0.838	0.450	0.762
0.845	0.349	0.702	0.755	0.355	0.654	0.511	0.318	0.855	0.552	0.958	0.558	0.857	0.765	0.365	0.664
0.915	0.760	0.794	0.858	0.687	0.960	0.734	0.735	1.006	0.850	0.948	0.777	1.050	0.949	0.778	1.051
0.744	0.467	0.603	0.689	0.500	0.774	0.563	0.469	0.747	0.564	0.786	0.597	0.871	0.692	0.503	0.777



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Test position		SARmax (W/kg)														
		Main Ant21	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24						
		1	2	3	4	5	6	7	8	9						
N77 (3450-3550)	Left cheek	0.018	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
	Left tilted	0.027	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
	Right cheek	0.019	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
	Right tilted	0.022	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
N77 (3700-3980)	Left cheek	0.036	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
	Left tilted	0.040	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
	Right cheek	0.034	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
	Right tilted	0.038	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
N78 (3450-3550)	Left cheek	0.030	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
	Left tilted	0.036	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
	Right cheek	0.025	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
	Right tilted	0.023	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
N78 (3700-3800)	Left cheek	0.061	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064						
	Left tilted	0.073	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010						
	Right cheek	0.051	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091						
	Right tilted	0.059	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003						
Summed SAR																
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9	
0.630	0.200	0.461	0.483	0.095	0.407	0.234	0.082	0.694	0.416	0.699	0.311	0.623	0.547	0.159	0.471	
0.564	0.068	0.421	0.474	0.074	0.373	0.230	0.037	0.574	0.271	0.677	0.277	0.576	0.484	0.084	0.383	
0.290	0.135	0.169	0.233	0.062	0.335	0.109	0.110	0.381	0.225	0.323	0.152	0.425	0.324	0.153	0.426	
0.300	0.023	0.159	0.245	0.056	0.330	0.119	0.025	0.303	0.120	0.342	0.153	0.427	0.248	0.059	0.333	
0.648	0.218	0.479	0.501	0.113	0.425	0.252	0.100	0.712	0.434	0.717	0.329	0.641	0.565	0.177	0.489	
0.577	0.081	0.434	0.487	0.087	0.386	0.243	0.050	0.587	0.284	0.690	0.290	0.589	0.497	0.097	0.396	
0.305	0.150	0.184	0.248	0.077	0.350	0.124	0.125	0.396	0.240	0.338	0.167	0.440	0.339	0.168	0.441	
0.316	0.039	0.175	0.261	0.072	0.346	0.135	0.041	0.319	0.136	0.358	0.169	0.443	0.264	0.075	0.349	
0.642	0.212	0.473	0.495	0.107	0.419	0.246	0.094	0.706	0.428	0.711	0.323	0.635	0.559	0.171	0.483	
0.573	0.077	0.430	0.483	0.083	0.382	0.239	0.046	0.583	0.280	0.686	0.286	0.585	0.493	0.093	0.392	
0.296	0.141	0.175	0.239	0.068	0.341	0.115	0.116	0.387	0.231	0.329	0.158	0.431	0.330	0.159	0.432	
0.301	0.024	0.160	0.246	0.057	0.331	0.120	0.026	0.304	0.121	0.343	0.154	0.428	0.249	0.060	0.334	
0.673	0.243	0.504	0.526	0.138	0.450	0.277	0.125	0.737	0.459	0.742	0.354	0.666	0.590	0.202	0.514	
0.610	0.114	0.467	0.520	0.120	0.419	0.276	0.083	0.620	0.317	0.723	0.323	0.622	0.530	0.130	0.429	
0.322	0.167	0.201	0.265	0.094	0.367	0.141	0.142	0.413	0.257	0.355	0.184	0.457	0.356	0.185	0.458	
0.337	0.060	0.196	0.282	0.093	0.367	0.156	0.062	0.340	0.157	0.379	0.190	0.464	0.285	0.096	0.370	



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Test position		SARmax (W/kg)													
		Main Ant23	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N38	Left cheek	0.646	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.215	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.193	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.071	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N41	Left cheek	0.708	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.119	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.116	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.041	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N77 (3450-3550)	Left cheek	0.458	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.268	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.106	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.097	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N77 (3700-3980)	Left cheek	0.609	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.514	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.157	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.161	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N78 (3450-3550)	Left cheek	0.387	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.199	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.121	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.098	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N78 (3700-3800)	Left cheek	0.593	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.434	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.199	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.200	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
1.258	0.828	1.089	1.111	0.723	1.035	0.862	0.710	1.322	1.044	1.327	0.939	1.251	1.175	0.787	1.099
0.752	0.256	0.609	0.662	0.262	0.561	0.418	0.225	0.762	0.459	0.865	0.465	0.764	0.672	0.272	0.571
0.464	0.309	0.343	0.407	0.236	0.509	0.283	0.284	0.555	0.399	0.497	0.326	0.599	0.498	0.327	0.600
0.349	0.072	0.208	0.294	0.105	0.379	0.168	0.074	0.352	0.169	0.391	0.202	0.476	0.297	0.108	0.382
1.320	0.890	1.151	1.173	0.785	1.097	0.924	0.772	1.384	1.106	1.389	1.001	1.313	1.237	0.849	1.161
0.656	0.160	0.513	0.566	0.166	0.465	0.322	0.129	0.666	0.363	0.769	0.369	0.668	0.576	0.176	0.475
0.387	0.232	0.266	0.330	0.159	0.432	0.206	0.207	0.478	0.322	0.420	0.249	0.522	0.421	0.250	0.523
0.319	0.042	0.178	0.264	0.075	0.349	0.138	0.044	0.322	0.139	0.361	0.172	0.446	0.267	0.078	0.352
1.070	0.640	0.901	0.923	0.535	0.847	0.674	0.522	1.134	0.856	1.139	0.751	1.063	0.987	0.599	0.911
0.805	0.309	0.662	0.715	0.315	0.614	0.471	0.278	0.815	0.512	0.918	0.518	0.817	0.725	0.325	0.624
0.377	0.222	0.256	0.320	0.149	0.422	0.196	0.197	0.468	0.312	0.410	0.239	0.512	0.411	0.240	0.513
0.375	0.098	0.234	0.320	0.131	0.405	0.194	0.100	0.378	0.195	0.417	0.228	0.502	0.323	0.134	0.408
1.221	0.791	1.052	1.074	0.686	0.998	0.825	0.673	1.285	1.007	1.290	0.902	1.214	1.138	0.750	1.062
1.051	0.555	0.908	0.961	0.561	0.860	0.717	0.524	1.061	0.758	1.164	0.764	1.063	0.971	0.571	0.870
0.428	0.273	0.307	0.371	0.200	0.473	0.247	0.248	0.519	0.363	0.461	0.290	0.563	0.462	0.291	0.564
0.439	0.162	0.298	0.384	0.195	0.469	0.258	0.164	0.442	0.259	0.481	0.292	0.566	0.387	0.198	0.472
0.999	0.569	0.830	0.852	0.464	0.776	0.603	0.451	1.063	0.785	1.068	0.680	0.992	0.916	0.528	0.840
0.736	0.240	0.593	0.646	0.246	0.545	0.402	0.209	0.746	0.443	0.849	0.449	0.748	0.656	0.256	0.555
0.392	0.237	0.271	0.335	0.164	0.437	0.211	0.212	0.483	0.327	0.425	0.254	0.527	0.426	0.255	0.528
0.376	0.099	0.235	0.321	0.132	0.406	0.195	0.101	0.379	0.196	0.418	0.229	0.503	0.324	0.135	0.409
1.205	0.775	1.036	1.058	0.670	0.982	0.809	0.657	1.269	0.991	1.274	0.886	1.198	1.122	0.734	1.046
0.971	0.475	0.828	0.881	0.481	0.780	0.637	0.444	0.981	0.678	1.084	0.684	0.983	0.891	0.491	0.790
0.470	0.315	0.349	0.413	0.242	0.515	0.289	0.290	0.561	0.405	0.503	0.332	0.605	0.504	0.333	0.606
0.478	0.201	0.337	0.423	0.234	0.508	0.297	0.203	0.481	0.298	0.520	0.331	0.605	0.426	0.237	0.511



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Test position		SARmax (W/kg)													
		Main Ant31	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
GSM1900	Left cheek	0.095	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.039	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.062	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
WCDMA B2	Right tilted	0.030	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
	Left cheek	0.203	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.110	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
WCDMA B4	Right cheek	0.137	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.169	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
	Left cheek	0.232	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
LTE B2	Left tilted	0.055	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.143	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.115	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
LTE B4	Left cheek	0.157	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.063	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.085	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
LTE B7	Right tilted	0.052	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
	Left cheek	0.053	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.064	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
LTE B41	Right cheek	0.120	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.128	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
	Left cheek	0.149	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
LTE B66	Left tilted	0.046	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.085	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.052	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N2	Left cheek	0.162	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.066	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.115	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
N66	Right tilted	0.120	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
	Left cheek	0.150	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.066	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
		Right cheek	0.112	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091				
		Right tilted	0.056	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003				
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.707	0.277	0.538	0.560	0.172	0.484	0.311	0.159	0.771	0.493	0.776	0.388	0.700	0.624	0.236	0.548
0.576	0.080	0.433	0.486	0.086	0.385	0.242	0.049	0.586	0.283	0.689	0.289	0.588	0.496	0.096	0.395
0.333	0.178	0.212	0.276	0.105	0.378	0.152	0.153	0.424	0.268	0.366	0.195	0.468	0.367	0.196	0.469
0.308	0.031	0.167	0.253	0.064	0.338	0.127	0.033	0.311	0.128	0.350	0.161	0.435	0.256	0.067	0.341
0.815	0.385	0.646	0.668	0.280	0.592	0.419	0.267	0.879	0.601	0.884	0.496	0.808	0.732	0.344	0.656
0.647	0.151	0.504	0.557	0.157	0.456	0.313	0.120	0.657	0.354	0.760	0.360	0.659	0.567	0.167	0.466
0.408	0.253	0.287	0.351	0.180	0.453	0.227	0.228	0.499	0.343	0.441	0.270	0.543	0.442	0.271	0.544
0.447	0.170	0.306	0.392	0.203	0.477	0.266	0.172	0.450	0.267	0.489	0.300	0.574	0.395	0.206	0.480
0.844	0.414	0.675	0.697	0.309	0.621	0.448	0.296	0.908	0.630	0.913	0.525	0.837	0.761	0.373	0.685
0.592	0.096	0.449	0.502	0.102	0.401	0.258	0.065	0.602	0.299	0.705	0.305	0.604	0.512	0.112	0.411
0.414	0.259	0.293	0.357	0.186	0.459	0.233	0.234	0.505	0.349	0.447	0.276	0.549	0.448	0.277	0.550
0.393	0.116	0.252	0.338	0.149	0.423	0.212	0.118	0.396	0.213	0.435	0.246	0.520	0.341	0.152	0.426
0.769	0.339	0.600	0.622	0.234	0.546	0.373	0.221	0.833	0.555	0.838	0.450	0.762	0.686	0.298	0.610
0.600	0.104	0.457	0.510	0.110	0.409	0.266	0.073	0.610	0.307	0.713	0.313	0.612	0.520	0.120	0.419
0.356	0.201	0.235	0.299	0.128	0.401	0.175	0.176	0.447	0.291	0.389	0.218	0.491	0.390	0.219	0.492
0.376	0.099	0.235	0.321	0.132	0.406	0.195	0.101	0.379	0.196	0.418	0.229	0.503	0.324	0.135	0.409
0.761	0.331	0.592	0.614	0.226	0.538	0.365	0.213	0.825	0.547	0.830	0.442	0.754	0.678	0.290	0.602
0.583	0.087	0.440	0.493	0.093	0.392	0.249	0.056	0.593	0.290	0.696	0.296	0.595	0.503	0.103	0.402
0.356	0.201	0.235	0.299	0.128	0.401	0.175	0.176	0.447	0.291	0.389	0.218	0.491	0.390	0.219	0.492
0.330	0.053	0.189	0.275	0.086	0.360	0.149	0.055	0.333	0.150	0.372	0.183	0.457	0.278	0.089	0.363
0.665	0.235	0.496	0.518	0.130	0.442	0.269	0.117	0.729	0.451	0.734	0.346	0.658	0.582	0.194	0.506
0.601	0.105	0.458	0.511	0.111	0.410	0.267	0.074	0.611	0.308	0.714	0.314	0.613	0.521	0.121	0.420
0.391	0.236	0.270	0.334	0.163	0.436	0.210	0.211	0.482	0.326	0.424	0.253	0.526	0.425	0.254	0.527
0.406	0.129	0.265	0.351	0.162	0.436	0.225	0.131	0.409	0.226	0.448	0.259	0.533	0.354	0.165	0.439
0.637	0.207	0.468	0.490	0.102	0.414	0.241	0.089	0.701	0.423	0.706	0.318	0.630	0.554	0.166	0.478
0.564	0.068	0.421	0.474	0.074	0.373	0.230	0.037	0.574	0.271	0.677	0.277	0.576	0.484	0.084	0.383
0.333	0.178	0.212	0.276	0.105	0.378	0.152	0.153	0.424	0.268	0.366	0.195	0.468	0.367	0.196	0.469
0.376	0.099	0.235	0.321	0.132	0.406	0.195	0.101	0.379	0.196	0.418	0.229	0.503	0.324	0.135	0.409
0.768	0.338	0.599	0.621	0.233	0.545	0.372	0.220	0.832	0.554	0.837	0.449	0.761	0.685	0.297	0.609
0.589	0.093	0.446	0.499	0.099	0.398	0.255	0.062	0.599	0.296	0.702	0.302	0.601	0.509	0.109	0.408
0.360	0.205	0.239	0.303	0.132	0.405	0.179	0.180	0.451	0.295	0.393	0.222	0.495	0.394	0.223	0.496
0.330	0.053	0.189	0.275	0.086	0.360	0.149	0.055	0.333	0.150	0.372	0.183	0.457	0.278	0.089	0.363
0.774	0.344	0.605	0.627	0.239	0.551	0.378	0.226	0.838	0.560	0.843	0.455	0.767	0.691	0.303	0.615
0.603	0.107	0.460	0.513	0.113	0.412	0.269	0.076	0.613	0.310	0.716	0.316	0.615	0.523	0.123	0.422
0.386	0.231	0.285	0.329	0.158	0.431	0.205	0.206	0.477	0.321	0.419	0.248	0.521	0.420	0.249	0.522
0.398	0.121	0.257	0.343	0.154	0.428	0.217	0.123	0.401	0.218	0.440	0.251	0.525	0.346	0.157	0.431
0.762	0.332	0.593	0.615	0.227	0.539	0.366	0.214	0.826	0.548	0.831	0.443	0.755	0.679	0.291	0.603
0.603	0.107	0.460	0.513	0.113	0.412	0.269	0.076	0.613	0.310	0.716	0.316	0.615	0.523	0.123	0.422
0.383	0.228	0.262	0.326	0.155	0.428	0.202	0.203	0.474	0.318	0.416	0.245	0.518	0.417	0.246	0.519
0.334	0.057	0.193	0.279	0.090	0.364	0.153	0.059	0.337	0.154	0.376	0.187	0.461	0.282	0.093	0.367



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Test position		SARmax (W/kg)													
		Main Ant41	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
GSM850	Left cheek	0.170	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.092	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.184	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.090	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
WCDMA B5	Left cheek	0.216	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.117	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.234	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.106	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
CDMA BC0	Left cheek	0.175	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.089	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.182	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.083	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
LTE B12	Left cheek	0.141	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.063	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.131	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.066	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
LTE B13	Left cheek	0.111	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.053	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.099	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.051	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
LTE B26	Left cheek	0.176	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.083	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.175	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.085	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
N26	Left cheek	0.163	0.612	0.182	0.443	0.465	0.077	0.389	0.216	0.064					
	Left tilted	0.092	0.537	0.041	0.394	0.447	0.047	0.346	0.203	0.010					
	Right cheek	0.127	0.271	0.116	0.150	0.214	0.043	0.316	0.090	0.091					
	Right tilted	0.057	0.278	0.001	0.137	0.223	0.034	0.308	0.097	0.003					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.782	0.352	0.613	0.635	0.247	0.559	0.386	0.234	0.846	0.568	0.851	0.463	0.775	0.699	0.311	0.623
0.629	0.133	0.486	0.539	0.139	0.438	0.295	0.102	0.639	0.336	0.742	0.342	0.641	0.549	0.149	0.448
0.455	0.300	0.334	0.398	0.227	0.500	0.274	0.275	0.546	0.390	0.488	0.317	0.590	0.489	0.318	0.591
0.368	0.091	0.227	0.313	0.124	0.398	0.187	0.093	0.371	0.188	0.410	0.221	0.495	0.316	0.127	0.401
0.828	0.398	0.659	0.681	0.293	0.605	0.432	0.280	0.892	0.614	0.897	0.509	0.821	0.745	0.357	0.669
0.654	0.158	0.511	0.564	0.164	0.463	0.320	0.127	0.664	0.361	0.767	0.367	0.666	0.574	0.174	0.473
0.505	0.350	0.384	0.448	0.277	0.550	0.324	0.325	0.596	0.440	0.538	0.367	0.640	0.539	0.368	0.641
0.384	0.107	0.243	0.329	0.140	0.414	0.203	0.109	0.387	0.204	0.426	0.237	0.511	0.332	0.143	0.417
0.787	0.357	0.618	0.640	0.252	0.564	0.391	0.239	0.851	0.573	0.856	0.468	0.780	0.704	0.316	0.628
0.626	0.130	0.483	0.536	0.136	0.435	0.292	0.099	0.636	0.333	0.739	0.339	0.638	0.546	0.146	0.445
0.453	0.298	0.332	0.396	0.225	0.498	0.272	0.273	0.544	0.388	0.486	0.315	0.588	0.487	0.316	0.589
0.361	0.084	0.220	0.306	0.117	0.391	0.180	0.086	0.364	0.181	0.403	0.214	0.488	0.309	0.120	0.394
0.753	0.323	0.584	0.606	0.218	0.530	0.357	0.205	0.817	0.539	0.822	0.434	0.746	0.670	0.282	0.594
0.600	0.104	0.457	0.510	0.110	0.409	0.266	0.073	0.610	0.307	0.713	0.313	0.612	0.520	0.120	0.419
0.402	0.247	0.281	0.345	0.174	0.447	0.221	0.222	0.493	0.337	0.435	0.264	0.537	0.436	0.265	0.538
0.344	0.067	0.203	0.289	0.100	0.374	0.163	0.069	0.347	0.164	0.386	0.197	0.471	0.292	0.103	0.377
0.723	0.293	0.554	0.576	0.188	0.500	0.327	0.175	0.787	0.509	0.792	0.404	0.716	0.640	0.252	0.564
0.590	0.094	0.447	0.500	0.100	0.399	0.256	0.063	0.600	0.297	0.703	0.303	0.602	0.510	0.110	0.409
0.370	0.215	0.249	0.313	0.142	0.415	0.189	0.190	0.461	0.305	0.403	0.232	0.505	0.404	0.233	0.506
0.329	0.052	0.188	0.274	0.085	0.359	0.148	0.054	0.332	0.149	0.371	0.182	0.456	0.277	0.088	0.362
0.788	0.358	0.619	0.641	0.253	0.565	0.392	0.240	0.852	0.574	0.857	0.469	0.781	0.705	0.317	0.629
0.620	0.124	0.477	0.530	0.130	0.429	0.286	0.093	0.630	0.327	0.733	0.333	0.632	0.540	0.140	0.439
0.446	0.291	0.325	0.389	0.218	0.491	0.265	0.266	0.537	0.381	0.479	0.308	0.581	0.480	0.309	0.582
0.363	0.086	0.222	0.308	0.119	0.393	0.182	0.088	0.366	0.183	0.405	0.216	0.490	0.311	0.122	0.396
0.775	0.345	0.606	0.628	0.240	0.552	0.379	0.227	0.839	0.561	0.844	0.456	0.768	0.692	0.304	0.616
0.629	0.133	0.486	0.539	0.139	0.438	0.295	0.102	0.639	0.336	0.742	0.342	0.641	0.549	0.149	0.448
0.398	0.243	0.277	0.341	0.170	0.443	0.217	0.218	0.489	0.333	0.431	0.260	0.533	0.432	0.261	0.534
0.335	0.058	0.194	0.280	0.091	0.365	0.154	0.060	0.338	0.155	0.377	0.188	0.462	0.283	0.094	0.368



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Body-worn:

Test position		SARmax (W/kg)													
		Main Ant11	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
GSM850	Front side	0.129	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.169	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
WCDMA B5	Front side	0.220	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.328	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
CDMA BC0	Front side	0.176	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.256	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B12	Front side	0.082	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.134	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B13	Front side	0.072	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.100	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B26	Front side	0.179	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.254	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N26	Front side	0.198	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.269	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.178	0.148	0.175	0.274	0.200	0.318	0.141	0.140	0.189	0.160	0.286	0.212	0.330	0.285	0.211	0.329
0.239	0.197	0.244	0.421	0.291	0.468	0.190	0.183	0.253	0.218	0.442	0.312	0.489	0.435	0.305	0.482
0.269	0.239	0.266	0.365	0.291	0.409	0.232	0.231	0.280	0.251	0.377	0.303	0.421	0.376	0.302	0.420
0.398	0.356	0.403	0.580	0.450	0.627	0.349	0.342	0.412	0.377	0.601	0.471	0.648	0.594	0.464	0.641
0.225	0.195	0.222	0.321	0.247	0.365	0.188	0.187	0.236	0.207	0.333	0.259	0.377	0.332	0.258	0.376
0.326	0.284	0.331	0.508	0.378	0.555	0.277	0.270	0.340	0.305	0.529	0.399	0.576	0.522	0.392	0.569
0.131	0.101	0.128	0.227	0.153	0.271	0.094	0.093	0.142	0.113	0.239	0.165	0.283	0.238	0.164	0.282
0.204	0.162	0.209	0.386	0.256	0.433	0.155	0.148	0.218	0.183	0.407	0.277	0.454	0.400	0.270	0.447
0.121	0.091	0.118	0.217	0.143	0.261	0.084	0.083	0.132	0.103	0.229	0.155	0.273	0.228	0.154	0.272
0.170	0.128	0.175	0.352	0.222	0.399	0.121	0.114	0.184	0.149	0.373	0.243	0.420	0.366	0.236	0.413
0.228	0.198	0.225	0.324	0.250	0.368	0.191	0.190	0.239	0.210	0.336	0.262	0.380	0.335	0.261	0.379
0.324	0.282	0.329	0.506	0.376	0.553	0.275	0.268	0.338	0.303	0.527	0.397	0.574	0.520	0.390	0.567
0.247	0.217	0.244	0.343	0.269	0.387	0.210	0.209	0.258	0.229	0.355	0.281	0.399	0.354	0.280	0.398
0.339	0.297	0.344	0.521	0.391	0.568	0.290	0.283	0.353	0.318	0.542	0.412	0.589	0.535	0.405	0.582



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Test position		SARmax (W/kg)													
		Main Ant12	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N7	Front side	0.118	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.241	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N38	Front side	0.223	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.418	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N41	Front side	0.186	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.298	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
NSA N66	Front side	0.028	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.063	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
ENDC LTE B7	Front side	0.121	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.241	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
Inter-band LTE B4	Front side	0.025	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.054	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.167	0.137	0.164	0.263	0.189	0.307	0.130	0.129	0.178	0.149	0.275	0.201	0.319	0.274	0.200	0.318
0.311	0.269	0.316	0.493	0.363	0.540	0.262	0.255	0.325	0.290	0.514	0.384	0.561	0.507	0.377	0.554
0.272	0.242	0.269	0.368	0.294	0.412	0.235	0.234	0.283	0.254	0.380	0.306	0.424	0.379	0.305	0.423
0.488	0.446	0.493	0.670	0.540	0.717	0.439	0.432	0.502	0.467	0.691	0.561	0.738	0.684	0.554	0.731
0.235	0.205	0.232	0.331	0.257	0.375	0.198	0.197	0.246	0.217	0.343	0.269	0.387	0.342	0.268	0.386
0.368	0.326	0.373	0.550	0.420	0.597	0.319	0.312	0.382	0.347	0.571	0.441	0.618	0.564	0.434	0.611
0.077	0.047	0.074	0.173	0.099	0.217	0.040	0.039	0.088	0.059	0.185	0.111	0.229	0.184	0.110	0.228
0.133	0.091	0.138	0.315	0.185	0.362	0.084	0.077	0.147	0.112	0.336	0.206	0.383	0.329	0.199	0.376
0.170	0.140	0.167	0.266	0.192	0.310	0.133	0.132	0.181	0.152	0.278	0.204	0.322	0.277	0.203	0.321
0.311	0.269	0.316	0.493	0.363	0.540	0.262	0.255	0.325	0.290	0.514	0.384	0.561	0.507	0.377	0.554
0.074	0.044	0.071	0.170	0.096	0.214	0.037	0.036	0.085	0.056	0.182	0.108	0.226	0.181	0.107	0.225
0.124	0.082	0.129	0.306	0.176	0.353	0.075	0.068	0.138	0.103	0.327	0.197	0.374	0.320	0.190	0.367



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Test position		SARmax (W/kg)													
		Main Ant13	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N77 (3450-3550)	Front side	0.202	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.523	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N77 (3700-3980)	Front side	0.123	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.465	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N78 (3450-3550)	Front side	0.326	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.886	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N78 (3700-3800)	Front side	0.140	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.706	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.251	0.221	0.248	0.347	0.273	0.391	0.214	0.213	0.262	0.233	0.359	0.285	0.403	0.358	0.284	0.402
0.593	0.551	0.598	0.775	0.645	0.822	0.544	0.537	0.607	0.572	0.796	0.666	0.843	0.789	0.659	0.836
0.172	0.142	0.169	0.268	0.194	0.312	0.135	0.134	0.183	0.154	0.280	0.206	0.324	0.279	0.205	0.323
0.535	0.493	0.540	0.717	0.587	0.764	0.486	0.479	0.549	0.514	0.738	0.608	0.785	0.731	0.601	0.778
0.375	0.345	0.372	0.471	0.397	0.515	0.338	0.337	0.386	0.357	0.483	0.409	0.527	0.482	0.408	0.526
0.956	0.914	0.961	1.138	1.008	1.185	0.907	0.900	0.970	0.935	1.159	1.029	1.206	1.152	1.022	1.199
0.189	0.159	0.186	0.285	0.211	0.329	0.152	0.151	0.200	0.171	0.297	0.223	0.341	0.296	0.222	0.340
0.776	0.734	0.781	0.958	0.828	1.005	0.727	0.720	0.790	0.755	0.979	0.849	1.026	0.972	0.842	1.019

Test position		SARmax (W/kg)													
		Main Ant14	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N77 (3450-3550)	Front side	0.032	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.043	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N77 (3700-3980)	Front side	0.022	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.011	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N78 (3450-3550)	Front side	0.026	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.037	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N78 (3700-3800)	Front side	0.013	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.016	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.081	0.051	0.078	0.177	0.103	0.221	0.044	0.043	0.092	0.063	0.189	0.115	0.233	0.188	0.114	0.232
0.113	0.071	0.118	0.295	0.165	0.342	0.064	0.057	0.127	0.092	0.316	0.186	0.363	0.309	0.179	0.356
0.071	0.041	0.068	0.167	0.093	0.211	0.034	0.033	0.082	0.053	0.179	0.105	0.223	0.178	0.104	0.222
0.081	0.039	0.086	0.263	0.133	0.310	0.032	0.025	0.095	0.060	0.284	0.154	0.331	0.277	0.147	0.324
0.075	0.045	0.072	0.171	0.097	0.215	0.038	0.037	0.086	0.057	0.183	0.109	0.227	0.182	0.108	0.226
0.107	0.065	0.112	0.289	0.159	0.336	0.058	0.051	0.121	0.086	0.310	0.180	0.357	0.303	0.173	0.350
0.062	0.032	0.059	0.158	0.084	0.202	0.025	0.024	0.073	0.044	0.170	0.096	0.214	0.169	0.095	0.213
0.086	0.044	0.091	0.268	0.138	0.315	0.037	0.030	0.100	0.065	0.289	0.159	0.336	0.282	0.152	0.329



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Test position		SARmax (W/kg)													
		Main Ant15	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
GSM1900	Front side	0.130	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.181	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
WCDMA B2	Front side	0.172	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.230	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
WCDMA B4	Front side	0.220	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.311	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B2	Front side	0.207	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.244	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B4	Front side	0.246	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.369	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B7	Front side	0.246	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.253	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B41	Front side	0.209	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.177	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B66	Front side	0.273	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.404	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N2	Front side	0.159	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.218	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N7	Front side	0.224	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.231	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N66	Front side	0.181	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.373	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.179	0.149	0.176	0.275	0.201	0.319	0.142	0.141	0.190	0.161	0.287	0.213	0.331	0.286	0.212	0.330
0.251	0.209	0.256	0.433	0.303	0.480	0.202	0.195	0.265	0.230	0.454	0.324	0.501	0.447	0.317	0.494
0.221	0.191	0.218	0.317	0.243	0.361	0.184	0.183	0.232	0.203	0.329	0.255	0.373	0.328	0.254	0.372
0.300	0.258	0.305	0.482	0.352	0.529	0.251	0.244	0.314	0.279	0.503	0.373	0.550	0.496	0.366	0.543
0.269	0.239	0.266	0.365	0.291	0.409	0.232	0.231	0.280	0.251	0.377	0.303	0.421	0.376	0.302	0.420
0.381	0.339	0.386	0.563	0.433	0.610	0.332	0.325	0.395	0.360	0.584	0.454	0.631	0.577	0.447	0.624
0.256	0.226	0.253	0.352	0.278	0.396	0.219	0.218	0.267	0.238	0.364	0.290	0.408	0.363	0.289	0.407
0.314	0.272	0.319	0.496	0.366	0.543	0.265	0.258	0.328	0.293	0.517	0.387	0.564	0.510	0.380	0.557
0.295	0.265	0.292	0.391	0.317	0.435	0.258	0.257	0.306	0.277	0.403	0.329	0.447	0.402	0.328	0.446
0.439	0.397	0.444	0.621	0.491	0.668	0.390	0.383	0.453	0.418	0.642	0.512	0.689	0.635	0.505	0.682
0.295	0.265	0.292	0.391	0.317	0.435	0.258	0.257	0.306	0.277	0.403	0.329	0.447	0.402	0.328	0.446
0.323	0.281	0.328	0.505	0.375	0.552	0.274	0.267	0.337	0.302	0.526	0.396	0.573	0.519	0.389	0.566
0.258	0.228	0.255	0.354	0.280	0.398	0.221	0.220	0.269	0.240	0.366	0.292	0.410	0.365	0.291	0.409
0.247	0.205	0.252	0.429	0.299	0.476	0.198	0.191	0.261	0.226	0.450	0.320	0.497	0.443	0.313	0.490
0.322	0.292	0.319	0.418	0.344	0.462	0.285	0.284	0.333	0.304	0.430	0.356	0.474	0.429	0.355	0.473
0.474	0.432	0.479	0.656	0.526	0.703	0.425	0.418	0.488	0.453	0.677	0.547	0.724	0.670	0.540	0.717
0.208	0.178	0.205	0.304	0.230	0.348	0.171	0.170	0.219	0.190	0.316	0.242	0.360	0.315	0.241	0.359
0.288	0.246	0.293	0.470	0.340	0.517	0.239	0.232	0.302	0.267	0.491	0.361	0.538	0.484	0.354	0.531
0.273	0.243	0.270	0.369	0.295	0.413	0.236	0.235	0.284	0.255	0.381	0.307	0.425	0.380	0.306	0.424
0.301	0.259	0.306	0.483	0.353	0.530	0.252	0.245	0.315	0.280	0.504	0.374	0.551	0.497	0.367	0.544
0.230	0.200	0.227	0.326	0.252	0.370	0.193	0.192	0.241	0.212	0.338	0.264	0.382	0.337	0.263	0.381
0.443	0.401	0.448	0.625	0.495	0.672	0.394	0.387	0.457	0.422	0.646	0.516	0.693	0.639	0.509	0.686



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Shenzhen Branch

Report No.: ZEWM2304000550RG02

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Test position		SARmax (W/kg)													
		Main Ant21	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N77 (3450-3550)	Front side	0.005	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.006	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N77 (3700-3980)	Front side	0.008	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.006	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N78 (3450-3550)	Front side	0.006	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.006	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N78 (3700-3800)	Front side	0.012	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.009	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.054	0.024	0.051	0.150	0.076	0.194	0.017	0.016	0.065	0.036	0.162	0.088	0.206	0.161	0.087	0.205
0.076	0.034	0.081	0.258	0.128	0.305	0.027	0.020	0.090	0.055	0.279	0.149	0.326	0.272	0.142	0.319
0.057	0.027	0.054	0.153	0.079	0.197	0.020	0.019	0.068	0.039	0.165	0.091	0.209	0.164	0.090	0.208
0.076	0.034	0.081	0.258	0.128	0.305	0.027	0.020	0.090	0.055	0.279	0.149	0.326	0.272	0.142	0.319
0.055	0.025	0.052	0.151	0.077	0.195	0.018	0.017	0.066	0.037	0.163	0.089	0.207	0.162	0.088	0.206
0.076	0.034	0.081	0.258	0.128	0.305	0.027	0.020	0.090	0.055	0.279	0.149	0.326	0.272	0.142	0.319
0.061	0.031	0.058	0.157	0.083	0.201	0.024	0.023	0.072	0.043	0.169	0.095	0.213	0.168	0.094	0.212
0.079	0.037	0.084	0.261	0.131	0.308	0.030	0.023	0.093	0.058	0.282	0.152	0.329	0.275	0.145	0.322

Test position		SARmax (W/kg)													
		Main Ant23	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N38	Front side	0.085	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.127	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N41	Front side	0.061	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.099	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N77 (3450-3550)	Front side	0.034	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.088	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N77 (3700-3980)	Front side	0.100	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.288	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N78 (3450-3550)	Front side	0.053	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.148	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N78 (3700-3800)	Front side	0.096	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.200	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.134	0.104	0.131	0.230	0.156	0.274	0.097	0.096	0.145	0.116	0.242	0.168	0.286	0.241	0.167	0.285
0.197	0.155	0.202	0.379	0.249	0.426	0.148	0.141	0.211	0.176	0.400	0.270	0.447	0.393	0.263	0.440
0.110	0.080	0.107	0.206	0.132	0.250	0.073	0.072	0.121	0.092	0.218	0.144	0.262	0.217	0.143	0.261
0.169	0.127	0.174	0.351	0.221	0.398	0.120	0.113	0.183	0.148	0.372	0.242	0.419	0.365	0.235	0.412
0.083	0.053	0.080	0.179	0.105	0.223	0.046	0.045	0.094	0.065	0.191	0.117	0.235	0.190	0.116	0.234
0.158	0.116	0.163	0.340	0.210	0.387	0.109	0.102	0.172	0.137	0.361	0.231	0.408	0.354	0.224	0.401
0.149	0.119	0.146	0.245	0.171	0.289	0.112	0.111	0.160	0.131	0.257	0.183	0.301	0.256	0.182	0.300
0.358	0.316	0.363	0.540	0.410	0.587	0.309	0.302	0.372	0.337	0.561	0.431	0.608	0.554	0.424	0.601
0.102	0.072	0.099	0.198	0.124	0.242	0.065	0.064	0.113	0.084	0.210	0.136	0.254	0.209	0.135	0.253
0.218	0.176	0.223	0.400	0.270	0.447	0.169	0.162	0.232	0.197	0.421	0.291	0.468	0.414	0.284	0.461
0.145	0.115	0.142	0.241	0.167	0.285	0.108	0.107	0.156	0.127	0.253	0.179	0.297	0.252	0.178	0.296
0.270	0.228	0.275	0.452	0.322	0.499	0.221	0.214	0.284	0.249	0.473	0.343	0.520	0.466	0.336	0.513



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Test position		SARmax (W/kg)													
		Main Ant31	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
GSM1900	Front side	0.263	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.327	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
WCDMA B2	Front side	0.204	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.268	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
WCDMA B4	Front side	0.357	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.423	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B2	Front side	0.243	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.261	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B4	Front side	0.367	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.458	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B7	Front side	0.082	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.138	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B41	Front side	0.082	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.188	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B66	Front side	0.258	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.337	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N2	Front side	0.202	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.259	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N66	Front side	0.339	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.449	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.312	0.282	0.309	0.408	0.334	0.452	0.275	0.274	0.323	0.294	0.420	0.346	0.464	0.419	0.345	0.463
0.397	0.355	0.402	0.579	0.449	0.626	0.348	0.341	0.411	0.376	0.600	0.470	0.647	0.593	0.463	0.640
0.253	0.223	0.250	0.349	0.275	0.393	0.216	0.215	0.264	0.235	0.361	0.287	0.405	0.360	0.286	0.404
0.338	0.296	0.343	0.520	0.390	0.567	0.289	0.282	0.352	0.317	0.541	0.411	0.588	0.534	0.404	0.581
0.406	0.376	0.403	0.502	0.428	0.546	0.369	0.368	0.417	0.388	0.514	0.440	0.558	0.513	0.439	0.557
0.493	0.451	0.498	0.675	0.545	0.722	0.444	0.437	0.507	0.472	0.696	0.566	0.743	0.689	0.559	0.736
0.292	0.262	0.289	0.388	0.314	0.432	0.255	0.254	0.303	0.274	0.400	0.326	0.444	0.399	0.325	0.443
0.331	0.289	0.336	0.513	0.383	0.560	0.282	0.275	0.345	0.310	0.534	0.404	0.581	0.527	0.397	0.574
0.416	0.386	0.413	0.512	0.438	0.556	0.379	0.378	0.427	0.398	0.524	0.450	0.568	0.523	0.449	0.567
0.528	0.486	0.533	0.710	0.580	0.757	0.479	0.472	0.542	0.507	0.731	0.601	0.778	0.724	0.594	0.771
0.131	0.101	0.128	0.227	0.153	0.271	0.094	0.093	0.142	0.113	0.239	0.165	0.283	0.238	0.164	0.282
0.208	0.166	0.213	0.390	0.260	0.437	0.159	0.152	0.222	0.187	0.411	0.281	0.458	0.404	0.274	0.451
0.131	0.101	0.128	0.227	0.153	0.271	0.094	0.093	0.142	0.113	0.239	0.165	0.283	0.238	0.164	0.282
0.258	0.216	0.263	0.440	0.310	0.487	0.209	0.202	0.272	0.237	0.461	0.331	0.508	0.454	0.324	0.501
0.307	0.277	0.304	0.403	0.329	0.447	0.270	0.269	0.318	0.289	0.415	0.341	0.459	0.414	0.340	0.458
0.407	0.365	0.412	0.589	0.459	0.636	0.358	0.351	0.421	0.386	0.610	0.480	0.657	0.603	0.473	0.650
0.251	0.221	0.248	0.347	0.273	0.391	0.214	0.213	0.262	0.233	0.359	0.285	0.403	0.358	0.284	0.402
0.329	0.287	0.334	0.511	0.381	0.558	0.280	0.273	0.343	0.308	0.532	0.402	0.579	0.525	0.395	0.572
0.388	0.358	0.385	0.484	0.410	0.528	0.351	0.350	0.399	0.370	0.496	0.422	0.540	0.495	0.421	0.539
0.519	0.477	0.524	0.701	0.571	0.748	0.470	0.463	0.533	0.498	0.722	0.592	0.769	0.715	0.585	0.762



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Test position		SARmax (W/kg)													
		Main Ant41	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
GSM850	Front side	0.185	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.220	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
WCDMA B5	Front side	0.207	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.302	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
CDMA BC0	Front side	0.168	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.236	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B12	Front side	0.179	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.165	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B13	Front side	0.133	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.147	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
LTE B26	Front side	0.175	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.237	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
N26	Front side	0.197	0.049	0.019	0.046	0.145	0.071	0.189	0.012	0.011					
	Back side	0.275	0.070	0.028	0.075	0.252	0.122	0.299	0.021	0.014					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.234	0.204	0.231	0.330	0.256	0.374	0.197	0.196	0.245	0.216	0.342	0.268	0.386	0.341	0.267	0.385
0.290	0.248	0.295	0.472	0.342	0.519	0.241	0.234	0.304	0.269	0.493	0.363	0.540	0.486	0.356	0.533
0.256	0.226	0.253	0.352	0.278	0.396	0.219	0.218	0.267	0.238	0.364	0.290	0.408	0.363	0.289	0.407
0.372	0.330	0.377	0.554	0.424	0.601	0.323	0.316	0.386	0.351	0.575	0.445	0.622	0.568	0.438	0.615
0.217	0.187	0.214	0.313	0.239	0.357	0.180	0.179	0.228	0.199	0.325	0.251	0.369	0.324	0.250	0.368
0.306	0.264	0.311	0.488	0.358	0.535	0.257	0.250	0.320	0.285	0.509	0.379	0.556	0.502	0.372	0.549
0.228	0.198	0.225	0.324	0.250	0.368	0.191	0.190	0.239	0.210	0.336	0.262	0.380	0.335	0.261	0.379
0.235	0.193	0.240	0.417	0.287	0.464	0.186	0.179	0.249	0.214	0.438	0.308	0.485	0.431	0.301	0.478
0.182	0.152	0.179	0.278	0.204	0.322	0.145	0.144	0.193	0.164	0.290	0.216	0.334	0.289	0.215	0.333
0.217	0.175	0.222	0.399	0.269	0.446	0.168	0.161	0.231	0.196	0.420	0.290	0.467	0.413	0.283	0.460
0.224	0.194	0.221	0.320	0.246	0.364	0.187	0.186	0.235	0.206	0.332	0.258	0.376	0.331	0.257	0.375
0.307	0.265	0.312	0.489	0.359	0.536	0.258	0.251	0.321	0.286	0.510	0.380	0.557	0.503	0.373	0.550
0.246	0.216	0.243	0.342	0.268	0.386	0.209	0.208	0.257	0.228	0.354	0.280	0.398	0.353	0.279	0.397
0.345	0.303	0.350	0.527	0.397	0.574	0.296	0.289	0.359	0.324	0.548	0.418	0.595	0.541	0.411	0.588



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Shenzhen Branch

Report No.: ZEWM2304000550RG02

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Hotspot:

Test position		SARmax (W/kg)													
		Main Ant11	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
GSM850	Front side	0.212	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.315	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.458	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
WCDMA B5	Front side	0.335	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.524	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.765	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
CDMA BC0	Front side	0.265	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.406	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.649	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
LTE B12	Front side	0.129	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.234	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.370	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
LTE B13	Front side	0.097	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.177	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.262	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
LTE B26	Front side	0.286	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.452	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.623	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
N26	Front side	0.292	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.436	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.635	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.316	0.251	0.311	0.468	0.323	0.527	0.239	0.235	0.339	0.278	0.495	0.350	0.554	0.491	0.346	0.550
0.466	0.367	0.465	0.774	0.500	0.903	0.357	0.351	0.502	0.409	0.816	0.542	0.945	0.810	0.536	0.939
0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.439	0.374	0.434	0.591	0.446	0.650	0.362	0.358	0.462	0.401	0.618	0.473	0.677	0.614	0.469	0.673
0.675	0.576	0.674	0.983	0.709	1.112	0.566	0.560	0.711	0.618	1.025	0.751	1.154	1.019	0.745	1.148
0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.369	0.304	0.364	0.521	0.376	0.580	0.292	0.288	0.392	0.331	0.548	0.403	0.607	0.544	0.399	0.603
0.557	0.458	0.556	0.865	0.591	0.994	0.448	0.442	0.593	0.500	0.907	0.633	1.036	0.901	0.627	1.030
0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649	0.649
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383



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0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.233	0.168	0.228	0.385	0.240	0.444	0.156	0.152	0.256	0.195	0.412	0.267	0.471	0.408	0.263	0.467
0.385	0.286	0.384	0.693	0.419	0.822	0.276	0.270	0.421	0.328	0.735	0.461	0.864	0.729	0.455	0.858
0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.201	0.136	0.196	0.353	0.208	0.412	0.124	0.120	0.224	0.163	0.380	0.235	0.439	0.376	0.231	0.435
0.328	0.229	0.327	0.636	0.362	0.765	0.219	0.213	0.364	0.271	0.678	0.404	0.807	0.672	0.398	0.801
0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.390	0.325	0.385	0.542	0.397	0.601	0.313	0.309	0.413	0.352	0.569	0.424	0.628	0.565	0.420	0.624
0.603	0.504	0.602	0.911	0.637	1.040	0.494	0.488	0.639	0.546	0.953	0.679	1.082	0.947	0.673	1.076
0.623	0.623	0.623	0.623	0.623	0.623	0.623	0.623	0.623	0.623	0.623	0.623	0.623	0.623	0.623	0.623
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.396	0.331	0.391	0.548	0.403	0.607	0.319	0.315	0.419	0.358	0.575	0.430	0.634	0.571	0.426	0.630
0.587	0.488	0.586	0.895	0.621	1.024	0.478	0.472	0.623	0.530	0.937	0.663	1.066	0.931	0.657	1.060
0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635	0.635
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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Test position		SARmax (W/kg)													
		Main Ant12	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N7	Front side	0.109	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.219	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.206	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.038	0.089	/	0.070	0.654	/	0.747	0.030	/					
N38	Bottom side	/	/	/	/	/	/	/	/	/					
	Front side	0.154	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.338	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.320	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
N41	Top side	0.037	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
	Front side	0.115	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.249	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.240	/	/	/	/	/	/	/	/					
NSA N66	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.027	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
	Front side	0.057	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.151	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
ENDC LTE B7	Left side	0.160	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.064	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
	Front side	0.167	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
Inter-band LTE B4	Back side	0.378	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.349	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.018	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.213	0.148	0.208	0.365	0.220	0.424	0.136	0.132	0.236	0.175	0.392	0.247	0.451	0.388	0.243	0.447
0.370	0.271	0.369	0.678	0.404	0.807	0.261	0.255	0.406	0.313	0.720	0.446	0.849	0.714	0.440	0.843
0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.127	0.038	0.108	0.692	0.038	0.785	0.068	0.038	0.127	0.068	0.722	0.068	0.815	0.692	0.038	0.785
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.258	0.193	0.253	0.410	0.265	0.469	0.181	0.177	0.281	0.220	0.437	0.292	0.496	0.433	0.288	0.492
0.489	0.390	0.488	0.797	0.523	0.926	0.380	0.374	0.525	0.432	0.839	0.565	0.968	0.833	0.559	0.962
0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.126	0.037	0.107	0.691	0.037	0.784	0.067	0.037	0.126	0.067	0.721	0.067	0.814	0.691	0.037	0.784
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0.219	0.154	0.214	0.371	0.226	0.430	0.142	0.138	0.242	0.181	0.398	0.253	0.457	0.394	0.249	0.453
0.400	0.301	0.399	0.708	0.434	0.837	0.291	0.285	0.436	0.343	0.750	0.476	0.879	0.744	0.470	0.873
0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.116	0.027	0.097	0.681	0.027	0.774	0.057	0.027	0.116	0.057	0.711	0.057	0.804	0.681	0.027	0.774
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.161	0.096	0.156	0.313	0.168	0.372	0.084	0.080	0.184	0.123	0.340	0.195	0.399	0.336	0.191	0.395
0.302	0.203	0.301	0.610	0.336	0.739	0.193	0.187	0.338	0.245	0.652	0.378	0.781	0.646	0.372	0.775
0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.113	0.024	0.094	0.678	0.024	0.771	0.054	0.024	0.113	0.054	0.708	0.054	0.801	0.678	0.024	0.771
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.271	0.206	0.266	0.423	0.278	0.482	0.194	0.190	0.294	0.233	0.450	0.305	0.509	0.446	0.301	0.505
0.529	0.430	0.528	0.837	0.563	0.966	0.420	0.414	0.565	0.472	0.879	0.605	1.008	0.873	0.599	1.002
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	0.349	0.349
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.153	0.064	0.134	0.718	0.064	0.811	0.094	0.064	0.153	0.094	0.748	0.094	0.841	0.718	0.064	0.811
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.156	0.091	0.151	0.308	0.163	0.367	0.079	0.075	0.179	0.118	0.335	0.190	0.394	0.331	0.186	0.390
0.285	0.186	0.284	0.593	0.319	0.722	0.176	0.170	0.321	0.228	0.635	0.361	0.764	0.629	0.355	0.758
0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.107	0.018	0.088	0.672	0.018	0.765	0.048	0.018	0.107	0.048	0.702	0.048	0.795	0.672	0.018	0.765
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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Test position		SARmax (W/kg)													
		Main Ant13	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N77 (3450-3550)	Front side	0.056	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.162	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.280	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.170	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
N77 (3700-3980)	Front side	0.035	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.151	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.233	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.089	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
N78 (3450-3550)	Front side	0.091	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.303	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.467	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.250	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
N78 (3700-3800)	Front side	0.061	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.161	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.211	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.143	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.160	0.095	0.155	0.312	0.167	0.371	0.083	0.079	0.183	0.122	0.339	0.194	0.398	0.335	0.190	0.394
0.313	0.214	0.312	0.621	0.347	0.750	0.204	0.198	0.349	0.256	0.663	0.389	0.792	0.657	0.383	0.786
0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.259	0.170	0.240	0.824	0.170	0.917	0.200	0.170	0.259	0.200	0.854	0.200	0.947	0.824	0.170	0.917
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.139	0.074	0.134	0.291	0.146	0.350	0.062	0.058	0.162	0.101	0.318	0.173	0.377	0.314	0.169	0.373
0.302	0.203	0.301	0.610	0.336	0.739	0.193	0.187	0.338	0.245	0.652	0.378	0.781	0.646	0.372	0.775
0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.178	0.089	0.159	0.743	0.089	0.836	0.119	0.089	0.178	0.119	0.773	0.119	0.866	0.743	0.089	0.836
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.195	0.130	0.190	0.347	0.202	0.406	0.118	0.114	0.218	0.157	0.374	0.229	0.433	0.370	0.225	0.429
0.454	0.355	0.453	0.762	0.488	0.891	0.345	0.339	0.490	0.397	0.804	0.530	0.933	0.798	0.524	0.927
0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.339	0.250	0.320	0.904	0.250	0.997	0.280	0.250	0.339	0.280	0.934	0.280	1.027	0.904	0.250	0.997
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.165	0.100	0.160	0.317	0.172	0.376	0.088	0.084	0.188	0.127	0.344	0.199	0.403	0.340	0.195	0.399
0.312	0.213	0.311	0.620	0.346	0.749	0.203	0.197	0.348	0.255	0.662	0.388	0.791	0.656	0.382	0.785
0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.232	0.143	0.213	0.797	0.143	0.890	0.173	0.143	0.232	0.173	0.827	0.173	0.920	0.797	0.143	0.890
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Test position		SARmax (W/kg)													
		Main Ant14	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N77 (3450-3550)	Front side	0.043	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.045	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.024	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.069	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
N77 (3700-3980)	Front side	0.028	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.015	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.017	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.019	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
N78 (3450-3550)	Front side	0.047	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.058	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.025	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.069	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
N78 (3700-3800)	Front side	0.019	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.022	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.049	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.014	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.147	0.082	0.142	0.299	0.154	0.358	0.070	0.066	0.170	0.109	0.326	0.181	0.385	0.322	0.177	0.381
0.196	0.097	0.195	0.504	0.230	0.633	0.087	0.081	0.232	0.139	0.546	0.272	0.675	0.540	0.266	0.669
0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.158	0.069	0.139	0.723	0.069	0.816	0.099	0.069	0.158	0.099	0.753	0.099	0.846	0.723	0.069	0.816
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.132	0.067	0.127	0.284	0.139	0.343	0.055	0.051	0.155	0.094	0.311	0.166	0.370	0.307	0.162	0.366
0.166	0.067	0.165	0.474	0.200	0.603	0.057	0.051	0.202	0.109	0.516	0.242	0.645	0.510	0.236	0.639
0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.108	0.019	0.089	0.673	0.019	0.766	0.049	0.019	0.108	0.049	0.703	0.049	0.796	0.673	0.019	0.766
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.151	0.086	0.146	0.303	0.158	0.362	0.074	0.070	0.174	0.113	0.330	0.185	0.389	0.326	0.181	0.385
0.209	0.110	0.208	0.517	0.243	0.646	0.100	0.094	0.245	0.152	0.559	0.285	0.688	0.553	0.279	0.682
0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.158	0.069	0.139	0.723	0.069	0.816	0.099	0.069	0.158	0.099	0.753	0.099	0.846	0.723	0.069	0.816
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.123	0.058	0.118	0.275	0.130	0.334	0.046	0.042	0.146	0.085	0.302	0.157	0.361	0.298	0.153	0.357
0.173	0.074	0.172	0.481	0.207	0.610	0.064	0.058	0.209	0.116	0.523	0.249	0.652	0.517	0.243	0.646
0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.103	0.014	0.084	0.668	0.014	0.761	0.044	0.014	0.103	0.044	0.698	0.044	0.791	0.668	0.014	0.761
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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Test position		SARmax (W/kg)								
		Main Ant15	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24
		1	2	3	4	5	6	7	8	9
GSM1900	Front side	0.293	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.395	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	0.160	/	/	/	/	/	/	/	/
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	0.516	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	/	/	/	/	/	/	/	/	/
WCDMA B2	Front side	0.244	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.325	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	0.107	/	/	/	/	/	/	/	/
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	0.437	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	/	/	/	/	/	/	/	/	/
WCDMA B4	Front side	0.288	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.386	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	0.123	/	/	/	/	/	/	/	/
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	0.436	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	/	/	/	/	/	/	/	/	/
LTE B2	Front side	0.247	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.279	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	0.110	/	/	/	/	/	/	/	/
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	0.417	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	/	/	/	/	/	/	/	/	/
LTE B4	Front side	0.324	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.488	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	0.111	/	/	/	/	/	/	/	/
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	0.563	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	/	/	/	/	/	/	/	/	/
LTE B7	Front side	0.271	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.314	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	0.161	/	/	/	/	/	/	/	/
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	0.361	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	/	/	/	/	/	/	/	/	/
LTE B41	Front side	0.263	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.348	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	0.145	/	/	/	/	/	/	/	/
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	0.335	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	/	/	/	/	/	/	/	/	/
LTE B66	Front side	0.283	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.420	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	0.095	/	/	/	/	/	/	/	/
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	0.491	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	/	/	/	/	/	/	/	/	/
N2	Front side	0.215	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.326	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036



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	Left side	0.110	/	/	/	/	/	/	/	/	/	/	/	/	
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.390	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	
N7	Front side	0.299	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.346	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.181	/	/	/	/	/	/	/	/	/	/	/	/	
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.357	0.089	/	0.070	0.654	/	0.747	0.030	/					
N66	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Front side	0.295	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.448	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.118	/	/	/	/	/	/	/	/	/	/	/	/	
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.415	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.397	0.332	0.392	0.549	0.404	0.608	0.320	0.316	0.420	0.359	0.576	0.431	0.635	0.572	0.427	0.631
0.546	0.447	0.545	0.854	0.580	0.983	0.437	0.431	0.582	0.489	0.896	0.622	1.025	0.890	0.616	1.019
0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.605	0.516	0.586	1.170	0.516	1.263	0.546	0.516	0.605	0.546	1.200	0.546	1.293	1.170	0.516	1.263
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.348	0.283	0.343	0.500	0.355	0.559	0.271	0.267	0.371	0.310	0.527	0.382	0.586	0.523	0.378	0.582
0.476	0.377	0.475	0.784	0.510	0.913	0.367	0.361	0.512	0.419	0.826	0.552	0.955	0.820	0.546	0.949
0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.526	0.437	0.507	1.091	0.437	1.184	0.467	0.437	0.526	0.467	1.121	0.467	1.214	1.091	0.437	1.184
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.392	0.327	0.387	0.544	0.399	0.603	0.315	0.311	0.415	0.354	0.571	0.426	0.630	0.567	0.422	0.626
0.537	0.438	0.536	0.845	0.571	0.974	0.428	0.422	0.573	0.480	0.887	0.613	1.016	0.881	0.607	1.010
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	0.123	0.123
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.525	0.436	0.506	1.090	0.436	1.183	0.466	0.436	0.525	0.466	1.120	0.466	1.213	1.090	0.436	1.183
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.351	0.286	0.346	0.503	0.358	0.562	0.274	0.270	0.374	0.313	0.530	0.385	0.589	0.526	0.381	0.585
0.430	0.331	0.429	0.738	0.464	0.867	0.321	0.315	0.466	0.373	0.780	0.506	0.909	0.774	0.500	0.903
0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.506	0.417	0.487	1.071	0.417	1.164	0.447	0.417	0.506	0.447	1.101	0.447	1.194	1.071	0.417	1.164
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.428	0.363	0.423	0.580	0.435	0.639	0.351	0.347	0.451	0.390	0.607	0.462	0.666	0.603	0.458	0.662
0.639	0.540	0.638	0.947	0.673	1.076	0.530	0.524	0.675	0.582	0.989	0.715	1.118	0.983	0.709	1.112
0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.652	0.563	0.633	1.217	0.563	1.310	0.593	0.563	0.652	0.593	1.247	0.593	1.340	1.217	0.563	1.310
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.375	0.310	0.370	0.527	0.382	0.586	0.298	0.294	0.398	0.337	0.554	0.409	0.613	0.550	0.405	0.609
0.465	0.366	0.464	0.773	0.499	0.902	0.356	0.350	0.501	0.408	0.815	0.541	0.944	0.809	0.535	0.938
0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.450	0.361	0.431	1.015	0.361	1.108	0.391	0.361	0.450	0.391	1.045	0.391	1.138	1.015	0.361	1.108
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.367	0.302	0.362	0.519	0.374	0.578	0.290	0.286	0.390	0.329	0.546	0.401	0.605	0.542	0.397	0.601
0.499	0.400	0.498	0.807	0.533	0.936	0.390	0.384	0.535	0.442	0.849	0.575	0.978	0.843	0.569	0.972



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0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.424	0.335	0.405	0.989	0.335	1.082	0.365	0.335	0.424	0.365	1.019	0.365	1.112	0.989	0.335	1.082
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.387	0.322	0.382	0.539	0.394	0.598	0.310	0.306	0.410	0.349	0.566	0.421	0.625	0.562	0.417	0.621
0.571	0.472	0.570	0.879	0.605	1.008	0.462	0.456	0.607	0.514	0.921	0.647	1.050	0.915	0.641	1.044
0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.580	0.491	0.561	1.145	0.491	1.238	0.521	0.491	0.580	0.521	1.175	0.521	1.268	1.145	0.491	1.238
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.319	0.254	0.314	0.471	0.326	0.530	0.242	0.238	0.342	0.281	0.498	0.353	0.557	0.494	0.349	0.553
0.477	0.378	0.476	0.785	0.511	0.914	0.368	0.362	0.513	0.420	0.827	0.553	0.956	0.821	0.547	0.950
0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.479	0.390	0.460	1.044	0.390	1.137	0.420	0.390	0.479	0.420	1.074	0.420	1.167	1.044	0.390	1.137
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.403	0.338	0.398	0.555	0.410	0.614	0.326	0.322	0.426	0.365	0.582	0.437	0.641	0.578	0.433	0.637
0.497	0.398	0.496	0.805	0.531	0.934	0.388	0.382	0.533	0.440	0.847	0.573	0.976	0.841	0.567	0.970
0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.446	0.357	0.427	1.011	0.357	1.104	0.387	0.357	0.446	0.387	1.041	0.387	1.134	1.011	0.357	1.104
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.399	0.334	0.394	0.551	0.406	0.610	0.322	0.318	0.422	0.361	0.578	0.433	0.637	0.574	0.429	0.633
0.599	0.500	0.598	0.907	0.633	1.036	0.490	0.484	0.635	0.542	0.949	0.675	1.078	0.943	0.669	1.072
0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.504	0.415	0.485	1.069	0.415	1.162	0.445	0.415	0.504	0.445	1.099	0.445	1.192	1.069	0.415	1.162
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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Test position		SARmax (W/kg)													
		Main Ant21	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N77 (3450-3550)	Front side	0.043	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.045	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.024	/	/	/	/	/	/	/	/					
	Right side	0.000	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.069	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
N77 (3700-3980)	Front side	0.028	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.015	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.017	/	/	/	/	/	/	/	/					
	Right side	0.003	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.031	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
N78 (3450-3550)	Front side	0.047	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.058	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.025	/	/	/	/	/	/	/	/					
	Right side	0.000	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.069	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
N78 (3700-3800)	Front side	0.019	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.022	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.049	/	/	/	/	/	/	/	/					
	Right side	0.004	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.041	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.147	0.082	0.142	0.299	0.154	0.358	0.070	0.066	0.170	0.109	0.326	0.181	0.385	0.322	0.177	0.381
0.196	0.097	0.195	0.504	0.230	0.633	0.087	0.081	0.232	0.139	0.546	0.272	0.675	0.540	0.266	0.669
0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.158	0.069	0.139	0.723	0.069	0.816	0.099	0.069	0.158	0.099	0.753	0.099	0.846	0.723	0.069	0.816
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.132	0.067	0.127	0.284	0.139	0.343	0.055	0.051	0.155	0.094	0.311	0.166	0.370	0.307	0.162	0.366
0.166	0.067	0.165	0.474	0.200	0.603	0.057	0.051	0.202	0.109	0.516	0.242	0.645	0.510	0.236	0.639
0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
0.066	0.053	0.092	0.138	0.304	0.355	0.025	0.034	0.097	0.075	0.160	0.326	0.377	0.169	0.335	0.386
0.120	0.031	0.101	0.685	0.031	0.778	0.061	0.031	0.120	0.061	0.715	0.061	0.808	0.685	0.031	0.778
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.151	0.086	0.146	0.303	0.158	0.362	0.074	0.070	0.174	0.113	0.330	0.185	0.389	0.326	0.181	0.385
0.209	0.110	0.208	0.517	0.243	0.646	0.100	0.094	0.245	0.152	0.559	0.285	0.688	0.553	0.279	0.682
0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.158	0.069	0.139	0.723	0.069	0.816	0.099	0.069	0.158	0.099	0.753	0.099	0.846	0.723	0.069	0.816
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.123	0.058	0.118	0.275	0.130	0.334	0.046	0.042	0.146	0.085	0.302	0.157	0.361	0.298	0.153	0.357
0.173	0.074	0.172	0.481	0.207	0.610	0.064	0.058	0.209	0.116	0.523	0.249	0.652	0.517	0.243	0.646
0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
0.067	0.054	0.093	0.139	0.305	0.356	0.026	0.035	0.098	0.076	0.161	0.327	0.378	0.170	0.336	0.387
0.130	0.041	0.111	0.695	0.041	0.788	0.071	0.041	0.130	0.071	0.725	0.071	0.818	0.695	0.041	0.788
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Test position		SARmax (W/kg)													
		Main Ant23	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
N38	Front side	0.110	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.187	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	/	/	/	/	/	/	/	/	/					
	Right side	0.231	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.047	0.089	/	0.070	0.654	/	0.747	0.030	/					
N41	Bottom side	/	/	/	/	/	/	/	/	/					
	Front side	0.105	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.162	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	/	/	/	/	/	/	/	/	/					
	Right side	0.225	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
N77 (3450-3550)	Top side	0.037	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
	Front side	0.078	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.221	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	/	/	/	/	/	/	/	/	/					
N77 (3700-3980)	Right side	0.301	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.057	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
	Front side	0.129	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.298	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
N78 (3450-3550)	Left side	/	/	/	/	/	/	/	/	/					
	Right side	0.195	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.096	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
	Front side	0.054	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
N78 (3700-3800)	Back side	0.170	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	/	/	/	/	/	/	/	/	/					
	Right side	0.346	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	0.104	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	/	/	/	/	/	/	/	/	/					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.214	0.149	0.209	0.366	0.221	0.425	0.137	0.133	0.237	0.176	0.393	0.248	0.452	0.389	0.244	0.448
0.338	0.239	0.337	0.646	0.372	0.775	0.229	0.223	0.374	0.281	0.688	0.414	0.817	0.682	0.408	0.811
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.294	0.281	0.320	0.366	0.532	0.583	0.253	0.262	0.325	0.303	0.388	0.554	0.605	0.397	0.563	0.614
0.136	0.047	0.117	0.701	0.047	0.794	0.077	0.047	0.136	0.077	0.731	0.077	0.824	0.701	0.047	0.794
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.209	0.144	0.204	0.361	0.216	0.420	0.132	0.128	0.232	0.171	0.388	0.243	0.447	0.384	0.239	0.443
0.313	0.214	0.312	0.621	0.347	0.750	0.204	0.198	0.349	0.256	0.663	0.389	0.792	0.657	0.383	0.786
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.288	0.275	0.314	0.360	0.526	0.577	0.247	0.256	0.319	0.297	0.382	0.548	0.599	0.391	0.557	0.608
0.126	0.037	0.107	0.691	0.037	0.784	0.067	0.037	0.126	0.067	0.721	0.067	0.814	0.691	0.037	0.784
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.182	0.117	0.177	0.334	0.189	0.393	0.105	0.101	0.205	0.144	0.361	0.216	0.420	0.357	0.212	0.416



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0.372	0.273	0.371	0.680	0.406	0.809	0.263	0.257	0.408	0.315	0.722	0.448	0.851	0.716	0.442	0.845
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.364	0.351	0.390	0.436	0.602	0.653	0.323	0.332	0.395	0.373	0.458	0.624	0.675	0.467	0.633	0.684
0.146	0.057	0.127	0.711	0.057	0.804	0.087	0.057	0.146	0.087	0.741	0.087	0.834	0.711	0.057	0.804
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.233	0.168	0.228	0.385	0.240	0.444	0.156	0.152	0.256	0.195	0.412	0.267	0.471	0.408	0.263	0.467
0.449	0.350	0.448	0.757	0.483	0.886	0.340	0.334	0.485	0.392	0.799	0.525	0.928	0.793	0.519	0.922
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.355	0.342	0.381	0.427	0.593	0.644	0.314	0.323	0.386	0.364	0.449	0.615	0.666	0.458	0.624	0.675
0.207	0.118	0.188	0.772	0.118	0.865	0.148	0.118	0.207	0.148	0.802	0.148	0.895	0.772	0.118	0.865
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.158	0.093	0.153	0.310	0.165	0.369	0.081	0.077	0.181	0.120	0.337	0.192	0.396	0.333	0.188	0.392
0.321	0.222	0.320	0.629	0.355	0.758	0.212	0.206	0.357	0.264	0.671	0.397	0.800	0.665	0.391	0.794
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.258	0.245	0.284	0.330	0.496	0.547	0.217	0.226	0.289	0.267	0.352	0.518	0.569	0.361	0.527	0.578
0.185	0.096	0.166	0.750	0.096	0.843	0.126	0.096	0.185	0.126	0.780	0.126	0.873	0.750	0.096	0.843
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.223	0.158	0.218	0.375	0.230	0.434	0.146	0.142	0.246	0.185	0.402	0.257	0.461	0.398	0.253	0.457
0.401	0.302	0.400	0.709	0.435	0.838	0.292	0.286	0.437	0.344	0.751	0.477	0.880	0.745	0.471	0.874
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.409	0.396	0.435	0.481	0.647	0.698	0.368	0.377	0.440	0.418	0.503	0.669	0.720	0.512	0.678	0.729
0.193	0.104	0.174	0.758	0.104	0.851	0.134	0.104	0.193	0.134	0.788	0.134	0.881	0.758	0.104	0.851
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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Test position		SARmax (W/kg)								
		Main Ant31	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24
		1	2	3	4	5	6	7	8	9
GSM1900	Front side	0.323	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.433	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	/	/	/	/	/	/	/	/	/
	Right side	0.077	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	0.286	/	/	/	/	/	/	/	/
WCDMA B2	Front side	0.301	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.370	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	/	/	/	/	/	/	/	/	/
	Right side	0.100	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	0.398	/	/	/	/	/	/	/	/
WCDMA B4	Front side	0.253	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.352	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	/	/	/	/	/	/	/	/	/
	Right side	0.087	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	0.432	/	/	/	/	/	/	/	/
LTE B2	Front side	0.233	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.353	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	/	/	/	/	/	/	/	/	/
	Right side	0.086	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	0.425	/	/	/	/	/	/	/	/
LTE B4	Front side	0.279	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.377	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	/	/	/	/	/	/	/	/	/
	Right side	0.070	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	0.457	/	/	/	/	/	/	/	/
LTE B7	Front side	0.117	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.282	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	/	/	/	/	/	/	/	/	/
	Right side	0.059	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	0.184	/	/	/	/	/	/	/	/
LTE B41	Front side	0.103	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.256	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	/	/	/	/	/	/	/	/	/
	Right side	0.053	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/
	Bottom side	0.163	/	/	/	/	/	/	/	/
LTE B66	Front side	0.274	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023
	Back side	0.370	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036
	Left side	/	/	/	/	/	/	/	/	/
	Right side	0.069	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031



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Report No.: ZEWM2304000550RG02

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	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	0.433	/	/	/	/	/	/	/	/					
N2	Front side	0.226	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.323	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	/	/	/	/	/	/	/	/	/					
	Right side	0.097	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	0.345	/	/	/	/	/	/	/	/					
N66	Front side	0.338	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.407	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	/	/	/	/	/	/	/	/	/					
	Right side	0.090	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	0.514	/	/	/	/	/	/	/	/					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.427	0.362	0.422	0.579	0.434	0.638	0.350	0.346	0.450	0.389	0.606	0.461	0.665	0.602	0.457	0.661
0.584	0.485	0.583	0.892	0.618	1.021	0.475	0.469	0.620	0.527	0.934	0.660	1.063	0.928	0.654	1.057
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.140	0.127	0.166	0.212	0.378	0.429	0.099	0.108	0.171	0.149	0.234	0.400	0.451	0.243	0.409	0.460
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286
0.405	0.340	0.400	0.557	0.412	0.616	0.328	0.324	0.428	0.367	0.584	0.439	0.643	0.580	0.435	0.639
0.521	0.422	0.520	0.829	0.555	0.958	0.412	0.406	0.557	0.464	0.871	0.597	1.000	0.865	0.591	0.994
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.163	0.150	0.189	0.235	0.401	0.452	0.122	0.131	0.194	0.172	0.257	0.423	0.474	0.266	0.432	0.483
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398	0.398
0.357	0.292	0.352	0.509	0.364	0.568	0.280	0.276	0.380	0.319	0.536	0.391	0.595	0.532	0.387	0.591
0.503	0.404	0.502	0.811	0.537	0.940	0.394	0.388	0.539	0.446	0.853	0.579	0.982	0.847	0.573	0.976
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.150	0.137	0.176	0.222	0.388	0.439	0.109	0.118	0.181	0.159	0.244	0.410	0.461	0.253	0.419	0.470
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432
0.337	0.272	0.332	0.489	0.344	0.548	0.260	0.256	0.360	0.299	0.516	0.371	0.575	0.512	0.367	0.571
0.504	0.405	0.503	0.812	0.538	0.941	0.395	0.389	0.540	0.447	0.854	0.580	0.983	0.848	0.574	0.977
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.149	0.136	0.175	0.221	0.387	0.438	0.108	0.117	0.180	0.158	0.243	0.409	0.460	0.252	0.418	0.469
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425	0.425
0.383	0.318	0.378	0.535	0.390	0.594	0.306	0.302	0.406	0.345	0.562	0.417	0.621	0.558	0.413	0.617
0.528	0.429	0.527	0.836	0.562	0.965	0.419	0.413	0.564	0.471	0.878	0.604	1.007	0.872	0.598	1.001
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.133	0.120	0.159	0.205	0.371	0.422	0.092	0.101	0.164	0.142	0.227	0.393	0.444	0.236	0.402	0.453
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
0.221	0.156	0.216	0.373	0.228	0.432	0.144	0.140	0.244	0.183	0.400	0.255	0.459	0.396	0.251	0.455
0.433	0.334	0.432	0.741	0.467	0.870	0.324	0.318	0.469	0.376	0.783	0.509	0.912	0.777	0.503	0.906
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.122	0.109	0.148	0.194	0.360	0.411	0.081	0.090	0.153	0.131	0.216	0.382	0.433	0.225	0.391	0.442
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184
0.207	0.142	0.202	0.359	0.214	0.418	0.130	0.126	0.230	0.169	0.386	0.241	0.445	0.382	0.237	0.441
0.407	0.308	0.406	0.715	0.441	0.844	0.298	0.292	0.443	0.350	0.757	0.483	0.886	0.751	0.477	0.880



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/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.116	0.103	0.142	0.188	0.354	0.405	0.075	0.084	0.147	0.125	0.210	0.376	0.427	0.219	0.385	0.436
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163	0.163
0.378	0.313	0.373	0.530	0.385	0.589	0.301	0.297	0.401	0.340	0.557	0.412	0.616	0.553	0.408	0.612
0.521	0.422	0.520	0.829	0.555	0.958	0.412	0.406	0.557	0.464	0.871	0.597	1.000	0.865	0.591	0.994
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.132	0.119	0.158	0.204	0.370	0.421	0.091	0.100	0.163	0.141	0.226	0.392	0.443	0.235	0.401	0.452
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433	0.433
0.330	0.265	0.325	0.482	0.337	0.541	0.253	0.249	0.353	0.292	0.509	0.364	0.568	0.505	0.360	0.564
0.474	0.375	0.473	0.782	0.508	0.911	0.365	0.359	0.510	0.417	0.824	0.550	0.953	0.818	0.544	0.947
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.160	0.147	0.186	0.232	0.398	0.449	0.119	0.128	0.191	0.169	0.254	0.420	0.471	0.263	0.429	0.480
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345
0.442	0.377	0.437	0.594	0.449	0.653	0.365	0.361	0.465	0.404	0.621	0.476	0.680	0.617	0.472	0.676
0.558	0.459	0.557	0.866	0.592	0.995	0.449	0.443	0.594	0.501	0.908	0.634	1.037	0.902	0.628	1.031
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
0.153	0.140	0.179	0.225	0.391	0.442	0.112	0.121	0.184	0.162	0.247	0.413	0.464	0.256	0.422	0.473
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514



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Test position		SARmax (W/kg)													
		Main Ant41	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24					
		1	2	3	4	5	6	7	8	9					
GSM850	Front side	0.264	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.386	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.166	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	0.186	/	/	/	/	/	/	/	/					
WCDMA B5	Front side	0.186	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.500	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.207	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	0.264	/	/	/	/	/	/	/	/					
CDMA BC0	Front side	0.242	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.412	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.128	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	0.220	/	/	/	/	/	/	/	/					
LTE B12	Front side	0.169	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.216	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.307	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	0.104	/	/	/	/	/	/	/	/					
LTE B13	Front side	0.150	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.255	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.149	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	0.127	/	/	/	/	/	/	/	/					
LTE B26	Front side	0.256	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.435	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.139	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	0.219	/	/	/	/	/	/	/	/					
N26	Front side	0.245	0.104	0.039	0.099	0.256	0.111	0.315	0.027	0.023					
	Back side	0.388	0.151	0.052	0.150	0.459	0.185	0.588	0.042	0.036					
	Left side	0.159	/	/	/	/	/	/	/	/					
	Right side	/	0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031					
	Top side	/	0.089	/	0.070	0.654	/	0.747	0.030	/					
	Bottom side	0.192	/	/	/	/	/	/	/	/					
Summed SAR															
1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+2+9	1+3+8	1+5+8	1+6+8	1+7+8	1+5+9	1+6+9	1+7+9
0.368	0.303	0.363	0.520	0.375	0.579	0.291	0.287	0.391	0.330	0.547	0.402	0.606	0.543	0.398	0.602
0.537	0.438	0.536	0.845	0.571	0.974	0.428	0.422	0.573	0.480	0.887	0.613	1.016	0.881	0.607	1.010
0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
0.290	0.225	0.285	0.442	0.297	0.501	0.213	0.209	0.313	0.252	0.469	0.324	0.528	0.465	0.320	0.524



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0.651	0.552	0.650	0.959	0.685	1.088	0.542	0.536	0.687	0.594	1.001	0.727	1.130	0.995	0.721	1.124
0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264
0.346	0.281	0.341	0.498	0.353	0.557	0.269	0.265	0.369	0.308	0.525	0.380	0.584	0.521	0.376	0.580
0.563	0.464	0.562	0.871	0.597	1.000	0.454	0.448	0.599	0.506	0.913	0.639	1.042	0.907	0.633	1.036
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	0.128	0.128
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
0.273	0.208	0.268	0.425	0.280	0.484	0.196	0.192	0.296	0.235	0.452	0.307	0.511	0.448	0.303	0.507
0.367	0.268	0.366	0.675	0.401	0.804	0.258	0.252	0.403	0.310	0.717	0.443	0.846	0.711	0.437	0.840
0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
0.254	0.189	0.249	0.406	0.261	0.465	0.177	0.173	0.277	0.216	0.433	0.288	0.492	0.429	0.284	0.488
0.406	0.307	0.405	0.714	0.440	0.843	0.297	0.291	0.442	0.349	0.756	0.482	0.885	0.750	0.476	0.879
0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127
0.360	0.295	0.355	0.512	0.367	0.571	0.283	0.279	0.383	0.322	0.539	0.394	0.598	0.535	0.390	0.594
0.586	0.487	0.585	0.894	0.620	1.023	0.477	0.471	0.622	0.529	0.936	0.662	1.065	0.930	0.656	1.059
0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219
0.349	0.284	0.344	0.501	0.356	0.560	0.272	0.268	0.372	0.311	0.528	0.383	0.587	0.524	0.379	0.583
0.539	0.440	0.538	0.847	0.573	0.976	0.430	0.424	0.575	0.482	0.889	0.615	1.018	0.883	0.609	1.012
0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159
0.063	0.050	0.089	0.135	0.301	0.352	0.022	0.031	0.094	0.072	0.157	0.323	0.374	0.166	0.332	0.383
0.089	/	0.070	0.654	/	0.747	0.030	/	0.089	0.030	0.684	0.030	0.777	0.654	/	0.747
0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192



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Product specific 10g SAR:

Test position		SARmax (W/kg)													
		Main Ant13	WiFi 2.4G Ant22	WiFi 2.4G Ant24	WiFi 2.4G MIMO	WiFi 5G Ant22	WiFi 5G Ant24	WiFi 5G MIMO	BT Ant22	BT Ant24	NFC				
		1	2	3	4	5	6	7	8	9	10				
N77 (3450-3550)	Front side	/	/	/	/	0.573	0.139	0.532	/	/	0.001				
	Back side	/	/	/	/	0.510	0.163	0.482	/	/	0.024				
	Left side	2.526	/	/	/	/	/	/	/	/	0.001				
	Right side	/	/	/	/	0.240	0.514	0.607	/	/	0.001				
	Top side	/	/	/	/	0.923	/	0.895	/	/	0.001				
	Bottom side	/	/	/	/	/	/	/	/	/	0.001				
N77 (3700-3980)	Front side	/	/	/	/	0.573	0.139	0.532	/	/	0.001				
	Back side	/	/	/	/	0.510	0.163	0.482	/	/	0.024				
	Left side	1.597	/	/	/	/	/	/	/	/	0.001				
	Right side	/	/	/	/	0.240	0.514	0.607	/	/	0.001				
	Top side	/	/	/	/	0.923	/	0.895	/	/	0.001				
	Bottom side	/	/	/	/	/	/	/	/	/	0.001				
N78 (3450-3550)	Front side	/	/	/	/	0.573	0.139	0.532	/	/	0.001				
	Back side	1.625	/	/	/	0.510	0.163	0.482	/	/	0.024				
	Left side	1.463	/	/	/	/	/	/	/	/	0.001				
	Right side	/	/	/	/	0.240	0.514	0.607	/	/	0.001				
	Top side	2.858	/	/	/	0.923	/	0.895	/	/	0.001				
	Bottom side	/	/	/	/	/	/	/	/	/	0.001				
N78 (3700-3800)	Front side	/	/	/	/	0.573	0.139	0.532	/	/	0.001				
	Back side	/	/	/	/	0.510	0.163	0.482	/	/	0.024				
	Left side	1.451	/	/	/	/	/	/	/	/	0.001				
	Right side	/	/	/	/	0.240	0.514	0.607	/	/	0.001				
	Top side	/	/	/	/	0.923	/	0.895	/	/	0.001				
	Bottom side	/	/	/	/	/	/	/	/	/	0.001				
Summed SAR															
1+2+10	1+3+10	1+4+10	1+5+10	1+6+10	1+7+10	1+8+10	1+9+10	1+2+9+10	1+3+8+10	1+5+8+10	1+6+8+10	1+7+8+10	1+5+9+10	1+6+9+10	1+7+9+10
0.001	0.001	0.001	0.574	0.140	0.533	0.001	0.001	0.001	0.001	0.574	0.140	0.533	0.574	0.140	0.533
0.024	0.024	0.024	0.534	0.187	0.506	0.024	0.024	0.024	0.024	0.534	0.187	0.506	0.534	0.187	0.506
2.527	2.527	2.527	2.527	2.527	2.527	2.527	2.527	2.527	2.527	2.527	2.527	2.527	2.527	2.527	2.527
0.001	0.001	0.001	0.241	0.515	0.608	0.001	0.001	0.001	0.001	0.241	0.515	0.608	0.241	0.515	0.608
0.001	0.001	0.001	0.924	0.001	0.896	0.001	0.001	0.001	0.001	0.924	0.001	0.896	0.924	0.001	0.896
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.001	0.574	0.140	0.533	0.001	0.001	0.001	0.001	0.574	0.140	0.533	0.574	0.140	0.533
0.024	0.024	0.024	0.534	0.187	0.506	0.024	0.024	0.024	0.024	0.534	0.187	0.506	0.534	0.187	0.506
1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598	1.598
0.001	0.001	0.001	0.241	0.515	0.608	0.001	0.001	0.001	0.001	0.241	0.515	0.608	0.241	0.515	0.608
0.001	0.001	0.001	0.924	0.001	0.896	0.001	0.001	0.001	0.001	0.924	0.001	0.896	0.924	0.001	0.896
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.001	0.574	0.140	0.533	0.001	0.001	0.001	0.001	0.574	0.140	0.533	0.574	0.140	0.533
1.649	1.649	1.649	2.159	1.812	2.131	1.649	1.649	1.649	1.649	2.159	1.812	2.131	2.159	1.812	2.131
1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464
0.001	0.001	0.001	0.241	0.515	0.608	0.001	0.001	0.001	0.001	0.241	0.515	0.608	0.241	0.515	0.608
2.859	2.859	2.859	3.782	2.859	3.754	2.859	2.859	2.859	2.859	3.782	2.859	3.754	3.782	2.859	3.754
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.001	0.574	0.140	0.533	0.001	0.001	0.001	0.001	0.574	0.140	0.533	0.574	0.140	0.533
0.024	0.024	0.024	0.534	0.187	0.506	0.024	0.024	0.024	0.024	0.534	0.187	0.506	0.534	0.187	0.506
1.452	1.452	1.452	1.452	1.452	1.452	1.452	1.452	1.452	1.452	1.452	1.452	1.452	1.452	1.452	1.452
0.001	0.001	0.001	0.241	0.515	0.608	0.001	0.001	0.001	0.001	0.241	0.515	0.608	0.241	0.515	0.608
0.001	0.001	0.001	0.924	0.001	0.896	0.001	0.001	0.001	0.001	0.924	0.001	0.896	0.924	0.001	0.896
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001



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9 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)				
Hardware Reference						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 2	1640	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 3	2031	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 4	1913	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 6	1481	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1267	2022/12/10	2023/12/09
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	702	2022/11/09	2023/11/08
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	896	2023/03/17	2024/03/16
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1663	2023/03/27	2024/03/26
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	3789	2022/09/30	2023/09/29
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	ES3DV3	3137	2022/09/16	2023/09/15
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	7620	2022/11/20	2023/11/19
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	3793	2022/09/30	2023/09/29
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	7735	2022/08/09	2023/08/08
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D750V3	1160	2022/06/06	2025/06/05
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	4d105	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	1149	2022/06/17	2025/06/16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1900V2	5d028	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	733	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2600V2	1125	2022/06/14	2025/06/13
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3500V2	1082	2022/09/19	2025/09/18
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3700V2	1046	2022/09/15	2025/09/14
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3900V2	1026	2022/09/16	2025/09/15
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D5GHzV2	1165	2022/11/01	2025/10/31
<input checked="" type="checkbox"/>	Dielectric parameter probes	SPEAG	DAKS-3.5	0005	2022/07/05	2023/07/04
<input checked="" type="checkbox"/>	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0140913	2022/08/29	2023/08/28
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8820C	6201616273	2023/02/16	2024/02/15
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8820C	6201381734	2023/05/25	2024/05/24
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8820C	6201074424	2022/11/18	2023/11/17
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	Agilent	N5171B	MY53050736	2023/02/16	2024/02/15
<input checked="" type="checkbox"/>	Preamplifier	Mini-Circuits	ZHL-42W	15542	NCR	NCR
<input checked="" type="checkbox"/>	Preamplifier	Compliance	AMP28-3W	073501433	NCR	NCR



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		Directions Systems Inc.				
<input checked="" type="checkbox"/>	Power Meter	Agilent	E4416A	GB41292095	2023/02/16	2024/02/15
<input checked="" type="checkbox"/>	Power Sensor	Agilent	8481H	MY41091234	2023/02/16	2024/02/15
<input checked="" type="checkbox"/>	Power Sensor	R&S	NRP-Z92	100025	2023/02/16	2024/02/15
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	MingGao	T809	NA	2022/06/07	2023/06/06
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	KIMTOKA	KIMTOKA	NA	2023/02/17	2024/02/16
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	ZGL2020120550471	2022/07/06	2023/07/05
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	ZGL2020120550472	2022/07/06	2023/07/05

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



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10 Calibration certificate

Please see the Appendix C

11 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---



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