

PCTEST

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SAR EVALUATION REPORT

Applicant Name: Samsung Electronics Co., Ltd. 129, Samsung-ro, Maetan dong, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea Date of Testing: 08/14/2021 - 09/19/2021 Test Site/Location: PCTEST Lab, Columbia, MD, USA Document Serial No.: 1M2108160097-01.A3L (Rev 1)

FCC ID: A3LSMF711B1

APPLICANT: SAMSUNG ELECTRONICS CO., LTD.

DUT Type: Portable Handset
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: SM-F711B

Equipment			SAR				
Class	Class Band & Mode	Tx Frequency	1g Head (W/kg)	1g Body- Worn(W/kg)	1g Hotspot (W/kg)	10g Phablet (W/kg)	
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.17	0.28	0.57	N/A	
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.27	0.76	1.96	
PCE	UMTS 850	826.40 - 846.60 MHz	0.24	0.40	0.81	N/A	
PCE	UMTS 1750	1712.4 - 1752.6 MHz	< 0.1	0.57	0.68	2.49	
PCE	UMTS 1900	1852.4 - 1907.6 MHz	< 0.1	0.54	0.51	2.82	
PCE	LTE Band 12	699.7 - 715.3 MHz	0.20	0.26	0.80	N/A	
PCE	LTE Band 17	706.5 - 713.5 MHz	N/A	N/A	N/A	N/A	
PCE	LTE Band 13	779.5 - 784.5 MHz	0.12	0.20	0.49	N/A	
PCE	LTE Band 26 (Cell)	814.7 - 848.3 MHz	0.17	0.34	0.72	N/A	
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	N/A	N/A	N/A	N/A	
PCE	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.10	0.67	0.66	2.43	
PCE	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A	
PCE	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	< 0.1	0.58	0.66	2.23	
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A	N/A	N/A	N/A	
PCE	LTE Band 41	2498.5 - 2687.5 MHz	0.14	0.19	0.62	1.23	
PCE	NR Band n5 (Cell)	826.5 - 846.5 MHz	0.24	0.38	0.68	N/A	
PCE	NR Band n66 (AWS)	1712.5 - 1777.5 MHz	0.10	0.73	0.60	2.59	
DTS	2.4 GHz WLAN	2412 - 2472 MHz	0.31	< 0.1	0.49	N/A	
NII	U-NII-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A	
NII	U-NII-2A	5260 - 5320 MHz	< 0.1	< 0.1	N/A	0.43	
NII	U-NII-2C	5500 - 5720 MHz	< 0.1	< 0.1	N/A	0.57	
NII	U-NII-3	5745 - 5825 MHz	< 0.1	< 0.1	0.33	N/A	
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.33	< 0.1	0.26	N/A	
Simultaneous	SAR per KDB 690783 D01v	01r03:	1.01	1.27	1.59	3.91	

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.8 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.









The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: SARTICK@MWFAI.INFO.

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1.1 Device Overview

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Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz

1.2 Power Reduction for SAR

This device utilizes a power reduction mechanism for some wireless modes and bands for SAR compliance under portable hotspot conditions and under some conditions when the device is being used in close proximity to the user's hand. All hotspot SAR evaluations for this device were performed at the maximum allowed output power when hotspot is enabled. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in phablet use conditions. Detailed descriptions of the power reduction mechanism are included in the operational description.

This device used an independent fixed level power reduction mechanism for WLAN when 5G NR is active and also for WLAN/BT during all voice or VoIP held to ear scenarios. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

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Nominal and Maximum Output Power Specifications 1.3

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.

2G/3G/4G/5G Output Power 1.3.1

GSM/GPRS/EDGE 850										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)			Data - Burst Average 8-PSK (in dBm)				
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Max	Max allowed power	33.0	33.0	32.0	30.0	27.5	27.5	26.0	24.0	23.0
IVIdX	Nominal	32.0	32.0	31.0	29.0	26.5	26.5	25.0	23.0	22.0
Hotspot Mode Active	Max allowed power	N/A	31.5	30.5	28.5	26.0	27.5	26.0	24.0	23.0
Hotspot Mode Active	Nominal	N/A	30.5	29.5	27.5	25.0	26.5	25.0	23.0	22.0
			GSM/G	GPRS/EDGE	1900					
Power Level		Voice (in dBm)	Data	a - Burst Avera	ge GMSK (in d	Bm)	Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Max	Max allowed power	30.5	30.5	29.5	27.5	25.5	26.5	25.5	23.5	22.5
IVIdX	Nominal	29.5	29.5	28.5	26.5	24.5	25.5	24.5	22.5	21.5
Hotspot Mode Active	Max allowed power	N/A	24.5	24.0	22.5	21.0	24.0	23.5	22.0	20.5
notspot widde Active	Nominal	N/A	23.5	23.0	21.5	20.0	23.0	22.5	21.0	19.5
Proximity Sensor and/or	Max allowed power	28.5	28.5	27.5	25.5	23.5	26.5	25.5	23.5	22.5
Earjack Mode Active	Nominal	27.5	27.5	26.5	24.5	22.5	25.5	24.5	22.5	21.5

	UMTS Bar	nd 5 (850 M	Hz)				
		Modulated Average Output Power (in dBm)					
Power Level		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8		
Max	Max allowed power	25.5	24.5	24.5	24.5		
IVIGX	Nominal	24.5	23.5	23.5	23.5		
Hotspot Mode Active	Max allowed power	24.0	23.0	23.0	23.0		
riotspot wode Active	Nominal	23.0	22.0	22.0	22.0		
UMTS Band 4 (1750 MHz)							
	Мо	odulated Avera (in d	•	ver			
Power Level		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8		
Max	Max allowed power	24.0	23.0	23.0	23.0		
IVIGA	Nominal	23.0	22.0	22.0	22.0		
Hotspot Mode Active	Max allowed power	17.5	16.5	16.5	16.5		
riotspot wode Active	Nominal	16.5	15.5	15.5	15.5		
Proximity Sensor and/or	Max allowed power	21.0	20.0	20.0	20.0		
Earjack Mode Active	Nominal	20.0	19.0	19.0	19.0		
	UMTS Band 2 (19	900 MHz)					
		Мо	dulated Avera (in d	•	wer		
Power Level		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8		
Max	Max allowed power	24.0	23.0	23.0	23.0		
IVIdX	Nominal	23.0	22.0	22.0	22.0		
Hotspot Mode Active	Max allowed power	16.5	15.5	15.5	15.5		
Hotspot Wode Active	Nominal	15.5	14.5	14.5	14.5		
Proximity Sensor and/or	Max allowed power	22.0	21.0	21.0	21.0		
Earjack Mode Active	Nominal	21.0	20.0	20.0	20.0		

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		Modulated	Average Output Powe	er (in dBm)
Mode / Band		Max	Hotspot Mode Active	Proximity Sensor and/or Earjack Mode Active
LTE FDD Band 12	Max allowed power	25.0	23.5	25.0
LIE FUU Ballu 12	Nominal	24.0	22.5	24.0
LTE FDD Band 17	Max allowed power	25.0	23.5	25.0
	Nominal	24.0	22.5	24.0
LTE FDD Band 13	Max allowed power	25.0	23.5	25.0
LIE FDD Ballu 13	Nominal	24.0	22.5	24.0
LTE FDD Band 5	Max allowed power	25.0	23.5	25.0
	Nominal	24.0	22.5	24.0
LTE FDD Band 26	Max allowed power	25.0	23.5	25.0
LIE FUU Ballu 20	Nominal	24.0	22.5	24.0
LTE FDD Band 4	Max allowed power	24.0	17.0	21.0
LIE FDD Ballu 4	Nominal	23.0	16.0	20.0
LTE FDD Band 66	Max allowed power	24.0	17.0	21.0
LIE FUU Ballu 00	Nominal	23.0	16.0	20.0
LTE FDD Band 2	Max allowed power	24.0	17.0	21.0
LIE FDD Ballu Z	Nominal	23.0	16.0	20.0
LTE FDD Band 25	Max allowed power	24.0	17.0	21.0
LIE FUU Ballu 25	Nominal	23.0	16.0	20.0
LTE TDD Dand 41 (DC2)	Max allowed power	25.0	19.5	23.5
LTE TDD Band 41 (PC3)	Nominal	24.0	18.5	22.5
LTE TDD Band 41 (PC2)	Max allowed power	27.5	19.5	23.5
LIE IDD Ballu 41 (PC2)	Nominal	26.5	18.5	22.5

		Modulated Average Output Power (in dBm)				
Mode / Band		Max	Hotspot Mode	Proximity Sensor and/or		
		IVIdX	Active	Earjack Mode Active		
NR FDD Band n5	Max allowed power	25.0	23.5	25.0		
	Nominal	24.0	22.5	24.0		
NR FDD Band n66	Max allowed power	24.0	16.5	21.0		
	Nominal	23.0	15.5	20.0		

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1.3.2 2.4 GHz Maximum Bluetooth and SISO/MIMO WLAN **Output Power**

Note: Targets for 802.11ax RU operations can be found in Appendix I

				e. raige						I1 (in dBm)									
					SIS	so													
Mode	Band Antenna 1/2											MII	МО						
		b g					n			b (CDD+ST	BC)	g (CDD + STI	BC)	n (CDD+STBC,	SDM)	ax (SU) (CDD+STBC,			
	mum / al Power	Max	Nom.																
2.4 GHz WIFI	2.45 GHz	19.0	18.0	18.0	17.0	18.0	17.0	18.0	17.0	22.0	21.0	21.0	20.0	21.0	20.0	21.0	20.0		
VVIFI		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 9.0 ch. 13: 3.0	8.0 2.0								

(Upper tolerance: Target + 1.0 dB)

Mode		Single Antenna				
Wiode		Antenna 1	Antenna 2			
Bluetooth	Maximum	16.0	17.0			
(in dBm)	Nominal	15.0	16.0			
Bluetooth EDR	Maximum	13.5	14.5			
(in dBm)	Nominal	12.5	13.5			
Bluetooth LE 2Mbps	Maximum	6.	0			
(in dBm)	Nominal	5.	0			
Bluetooth LE 1Mbps, 125/500 kbps	Maximum	6.0				
(in dBm)	Nominal	5.0				

(Upper tolerance: Target + 1.0 dB)

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1.3.3 2.4 GHz Reduced Bluetooth and WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix I

The below table is applicable in the following conditions:

- Simultaneous conditions with 5 GHz WLAN
- Simultaneous conditions with 5G NR

								IEEE	802.11	(in dBm)							
		SISO															
Mode	Band			,	Antenn	a 1/2							N	IIMO			
		b		g	n			ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU (CDD+STBC	
	mum / al Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
WIFI		ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 9.0 ch. 13: 3.0		ch. 12: 9.0 ch. 13: 3.0	8.0 2.0	ch. 12: 9.0 ch. 13: 3.0		ch. 12: 9.0 ch. 13: 3.0	8.0 2.0

(Upper tolerance: Target + 1.0 dB)

The below table is applicable in the following conditions:

RCV Active

RCV active during simultaneous conditions with 5G NR and/or 5 GHz WLAN

								IEEE 8	302.11 (i	in dBm)							
					SIS	0											
Mode	Band				a 1/2			МІМО									
		b		g		n		ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD+STBC	SDM)	ax (SU (CDD+STBC,	,
-	mum / al Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz	2.45 GHz	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
WIFI		ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 9.0 ch. 13: 3.0		ch. 12: 9.0 ch. 13: 3.0		ch. 12: 9.0 ch. 13: 3.0		ch. 12: 9.0 ch. 13: 3.0	8.0 2.0

(Upper tolerance: Target + 1.0 dB)

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The below table is applicable to the following conditions:

Simultaneous conditions with 5G NR

Mode		Single A	Antenna
Wode		Antenna 1	Antenna 2
Bluetooth	Maximum	1-	4
(in dBm)	Nominal	13	.0
Bluetooth EDR	Maximum	13.5	14.0
(in dBm)	Nominal	12.5	13.0
Bluetooth LE 2Mbps	Maximum	6.	0
(in dBm)	Nominal	5.	0
Bluetooth LE 1Mbps, 125/500 kbps	Maximum	6.	0
(in dBm)	Nominal	5.	0

(Upper tolerance: Target + 1.0 dB)

The below table is applicable I the following conditions:

RCV Active

Mode		Single A	Antenna
Wiode		Antenna 1	Antenna 2
Bluetooth	Maximum	10	.0
(in dBm)	Nominal	9.	0
Bluetooth EDR	Maximum	10	.0
(in dBm)	Nominal	9.	.0
Bluetooth LE 2Mbps	Maximum	6.	0
(in dBm)	Nominal	5.	0
Bluetooth LE 1Mbps, 125/500 kbps	Maximum	6.	0
(in dBm)	Nominal	0	

(Upper tolerance: Target + 1.0 dB)

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5 GHz Maximum SISO/MIMO WLAN Output Power 1.3.4

Note: Targets for 802.11ax RU operations can be found in Appendix I

								IEE		I1 (in dBm)							
Mada	David				S	SISO							MII	MO			
Mode	Band				Ante	nna 1/2							IVIII	VIO			
		а		n		ac		ax (SU))	a (CDD + ST	BC)	n (CDD+STBC,	SDM)	ac (CDD+STBC,	SDM)	ax (SU) (CDD+STBC,	
	/ Nominal wer	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
	5200 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
		ch. 36: 16.5	15.5	ch. 36: 15.5	14.5	ch. 36: 15.5	14.5	ch. 36: 15.5	14.5	ch. 36: 19.5	18.5	ch. 36: 18.5	17.5	ch. 36: 18.5	17.5	ch. 36: 18.5	17.5
5 GHz WIFI	5300 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
(20MHz				ch. 64: 17.0	16.0	ch. 64: 17.0	16.0	ch. 64: 17.0	16.0			ch. 64: 20.0	19.0	ch. 64: 20.0	19.0	ch. 64: 20.0	19.0
`BW)	5500 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
				ch. 100: 17.0	16.0	ch. 100: 17.0	16.0	ch. 100: 17.0	16.0			ch. 100: 20.0	19.0	ch. 100: 20.0	19.0	ch. 100: 20.0	19.0
	5800 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
	5200 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
	0200 1111 12			ch. 38: 14.0	13.0	ch. 38: 14.0	13.0	ch. 38: 14.0	13.0			ch. 38: 17.0	16.0	ch. 38: 17.0	16.0	ch. 38: 17.0	16.0
5 GHz	5300 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
WIFI (40MHz	0000 1111 12			ch. 62: 15.0	14.0	ch. 62: 15.0	14.0	ch. 62: 15.0	14.0			ch. 62: 18.0	17.0	ch. 62: 18.0	17.0	ch. 62: 18.0	17.0
BW)	5500 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
				ch. 102: 15.5	14.5	ch. 102: 15.5	14.5	ch. 102: 15.5	14.5			ch. 102: 18.5	17.5	ch. 102: 18.5	17.5	ch. 102: 18.5	17.5
	5800 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
	5200 MHz					12.5	11.5	12.5	11.5					15.5	14.5	15.5	14.5
5 GHz WIFI	5300 MHz					13.0	12.0	13.0	12.0					16.0	15.0	16.0	15.0
(80MHz BW)	5500 MHz					16.0	15.0	16.0 ch. 106: 15.0	15.0					19.0	18.0	19.0 ch. 106: 18.0	18.0
	5800 MHz					ch. 106: 15.0 16.0	15.0	16.0	14.0					ch. 106: 18.0 19.0	17.0	19.0	17.0

(Upper tolerance: Target + 1.0 dB)

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5 GHz Reduced SISO/MIMO WLAN Output Power 1.3.5

Note: Targets for 802.11ax RU operations can be found in Appendix I

The below table is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN
- Simultaneous conditions with 5G NR

				aitions w				IEEE	802.11	1 (in dBm)							
Mode	Band				SI	so							MII	MO			
ivioue	Danu				Anter	na 1/2							IVIII	VIO			
		а		n		ac		ax (SU)	a (CDD + STE	3C)	n (CDD+STBC,	SDM)	ac (CDD+STBC,	SDM)	ax (SU) (CDD+STBC,	
	/ Nominal wer	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
	5200 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
5 GHz WIFI	5300 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
(20MHz BW)	5500 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	5800 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	5200 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
5 GHz				ch. 38: 14.0	13.0	ch. 38: 14.0	13.0	ch. 38: 14.0	13.0			ch. 38: 17.0	16.0	ch. 38: 17.0	16.0	ch. 38: 17.0	16.0
WIFI (40MHz	5300 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
BW)	5500 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
	5800 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
	5200 MHz					12.5	11.5	12.5	11.5					15.5	14.5	15.5	14.5
5 GHz WIFI	5300 MHz					13.0	12.0	13.0	12.0					16.0	15.0	16.0	15.0
(80MHz BW)	5500 MHz					15.0	14.0	15.0	14.0					18.0	17.0	18.0	17.0
	5800 MHz					15.0	14.0	15.0	14.0					18.0	17.0	18.0	17.0

(Upper tolerance: Target + 1.0 dB)

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The below table is applicable in the following conditions:

- **RCV** Active
- RCV active during simultaneous conditions with 2.4 GHz WLAN
- RCV active during simultaneous conditions with 5G NR

		IEEE 802.11 (in dBm)															
Mode	Band				SIS	SO				MIMO							
iviode	Danu				Anten	na 1/2							MINAIC				
		а		n		ac		ax (SU)		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
	/ Nominal wer	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
	5200 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI	5300 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
(20MHz BW)	5500 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5800 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5200 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI	5300 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
(40MHz BW)	5500 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	5800 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	5200 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
5 GHz WIFI	5300 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
(80MHz BW)	5500 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	5800 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0

(Upper tolerance: Target + 1.0 dB)

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1.4 DUT Antenna Locations

A diagram showing the location of the device antennas for both open and closed configurations can be found in Appendix E. When the device is open, the overall dimensions of this device are $> 9 \times 5$ cm. Since the diagonal dimension of this device when open is > 160 mm and < 200 mm, it is considered a "phablet." and operates similar to a traditional portable handset. In the closed configuration, only a simple display/interaction of notifications occurs and overall dimensions are $< 9 \times 5$ cm. Therefore, when the device is closed, the only testing considered is for body-worn and hotspot.

Table 1-1
Device Edges/Sides for SAR Testing Open

Device Edges/Sides for SAK Testing Open									
Mode	Back	Front	Тор	Bottom	Right	Left			
GPRS 850	Yes	Yes	No	Yes	Yes	Yes			
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes			
UMTS 850	Yes	Yes	No	Yes	Yes	Yes			
UMTS 1750	Yes	Yes	No	Yes	Yes	Yes			
UMTS 1900	Yes	Yes	No	Yes	Yes	Yes			
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes			
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes			
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	Yes			
LTE Band 66 (AWS)	Yes	Yes	No	Yes	Yes	Yes			
LTE Band 25 (PCS)	Yes	Yes	No	Yes	Yes	Yes			
LTE Band 41	Yes	Yes	No	Yes	No	Yes			
NR Band n5 (Cell)	Yes	Yes	No	Yes	Yes	Yes			
NR Band n66 (AWS)	Yes	Yes	No	Yes	Yes	Yes			
2.4 GHz WLAN Ant 2	Yes	Yes	Yes	No	No	Yes			
2.4 GHz WLAN MIMO	Yes	Yes	Yes	No	Yes	Yes			
5 GHz WLAN Ant 1	Yes	Yes	Yes	No	Yes	No			
5 GHz WLAN MIMO	Yes	Yes	Yes	No	Yes	Yes			
Bluetooth Ant 1	Yes	Yes	Yes	No	Yes	No			
Bluetooth Ant 2	Yes	Yes	Yes	No	No	Yes			

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Table 1-2
Device Edges/Sides for SAR Testing Closed

Mode	Back	Front	Тор	Bottom	Right	Left
GPRS 850	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850	Yes	Yes	No	Yes	Yes	Yes
UMTS 1750	Yes	Yes	No	Yes	Yes	Yes
UMTS 1900	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 25 (PCS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 41	Yes	Yes	No	Yes	No	Yes
NR Band n5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS)	Yes	Yes	No	Yes	Yes	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	No	Yes	No	Yes
2.4 GHz WLAN MIMO	Yes	Yes	No	Yes	Yes	Yes
5 GHz WLAN Ant 1	Yes	Yes	No	Yes	Yes	No
5 GHz WLAN MIMO	Yes	Yes	No	Yes	Yes	Yes
Bluetooth Ant 1	Yes	Yes	No	Yes	Yes	No
Bluetooth Ant 2	Yes	Yes	No	Yes	No	Yes

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III and FCC KDB Publication 648474 D04v01r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, U-NII-1, U-NII-2A, U-NII-2C operations are disabled.

1.5 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in Appendix E.

1.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

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Table 1-3 **Simultaneous Transmission Scenarios**

No. 1 2						
	Capable Transmit Configuration	Head	Body-Worn	Wireless	Phablet	Notes
			Accessory	Router		
2	GSM voice + 2.4 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
2	GSM voice + 5 GHz WLAN Ant 1	Yes	Yes	N/A	Yes	<u> </u>
	GSM voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
4	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
5	GSM voice + 2.4 GHz Weak Willion + 3 GHz Weak Willion GSM voice + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
6	GSM voice + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
7	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
8	GSM voice + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
9	GSM voice + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
10	GSM voice + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
11	GSM voice + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
12	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
12	WLAN Ant 1	163	163	IN/A	163	bidetootii retiieriiig is toiisidered
	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz					
13	WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
14	UMTS + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
15	UMTS + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	
16	UMTS + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
17	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
18	UMTS + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
19	UMTS + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
20	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^	Yes	Yes^	Yes	
						^ Bluetooth Tethering is considered
21	UMTS + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
22	UMTS + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
23	UMTS + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
24	UMTS + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
24		162	162	162	162	processori remening is considered
25	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
	1					
26	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN	v- ·	, , , , , , , , , , , , , , , , , , ,	v		A Division of Technologies 11
26	MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
27	LTE + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
			Yes			
28	LTE + 5 GHz WLAN Ant 1	Yes		Yes	Yes	
29	LTE + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
30	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	<u> </u>
31	LTE + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
32	LTE + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
33	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
34	LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
35	LTE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
36	LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
37	LTE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
	ETE 1 EI4 OTE DIGEOGRAPHICE 1 3 OTE WENT WINNO	103	103	103	103	Bidetootii retiieriig is toilsidered
38	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
						· ·
39	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
33	ETE + 2.4 GHZ BIGECOOCH AND T + 2.4 GHZ WEAR AND Z + 3 GHZ WEAR WINNO	163	163	163	163	bidetootii retiieriiig is toiisidered
40	LTE + NR	Yes	Yes	N/A	Yes	
41	LTE + NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
42	LTE + NR + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	
43	LTE + NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
44	LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
45	LTE + NR + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
	LTE + NR + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
46		103		Yes^	Yes	
46	TT - ND - 3 4 CU- DI	WA			res	^ Bluetooth Tethering is considered
47	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^	Yes			
_	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^	Yes Yes	Yes^	Yes	^ Bluetooth Tethering is considered
47					Yes Yes	^ Bluetooth Tethering is considered ^ Bluetooth Tethering is considered
47 48	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 LTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^ Yes^	Yes Yes	Yes^ Yes^	Yes	^ Bluetooth Tethering is considered
47 48 49 50	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 LTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 LTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^ Yes^ Yes^	Yes Yes Yes	Yes^ Yes^ Yes^	Yes Yes	^ Bluetooth Tethering is considered ^ Bluetooth Tethering is considered
47 48 49	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 LTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 LTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO LTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^ Yes^	Yes Yes	Yes^ Yes^	Yes	^ Bluetooth Tethering is considered
47 48 49 50	ITE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 ITE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 ITE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO ITE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO ITE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MAT 2 + 5 GHz WLAN ANT 2 + 5 GHZ	Yes^ Yes^ Yes^	Yes Yes Yes	Yes^ Yes^ Yes^	Yes Yes	^ Bluetooth Tethering is considered ^ Bluetooth Tethering is considered
47 48 49 50 51	TTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 TTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 TTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO TTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO TTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	Yes^ Yes^ Yes^ Yes^	Yes Yes Yes Yes	Yes^ Yes^ Yes^ Yes^	Yes Yes Yes	A Bluetooth Tethering is considered A Bluetooth Tethering is considered A Bluetooth Tethering is considered
47 48 49 50 51 52	ITE + NR + 2-4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 ITE + NR + 2-2 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 ITE + NR + 2-4 GHz Bluetooth Ant 1 + 5 GHz WLAN NMMO ITE + NR + 2-4 GHz Bluetooth Ant 2 + 5 GHz WLAN NMMO ITE + NR + 2-4 GHz Bluetooth Ant 2 + 5 GHz WLAN MMO ITE + NR + 2-4 GHz Bluetooth Ant 2 + 2 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1 ITE + NR + 2-4 GHz Bluetooth Ant 1 + 2-4 GHz WLAN Ant 2 + 5 GHz WLAN	Yes^ Yes^ Yes^ Yes^ Yes^	Yes Yes Yes Yes	Yes^ Yes^ Yes^ Yes^ Yes^	Yes Yes Yes Yes	A Bluetooth Tethering is considered
47 48 49 50 51	TTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 TTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 TTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO TTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO TTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	Yes^ Yes^ Yes^ Yes^	Yes Yes Yes Yes	Yes^ Yes^ Yes^ Yes^	Yes Yes Yes	A Bluetooth Tethering is considered A Bluetooth Tethering is considered A Bluetooth Tethering is considered
47 48 49 50 51 52	ITE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 ITE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 ITE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO ITE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO ITE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1 ITE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1 MIMO	Yes^ Yes^ Yes^ Yes^ Yes^	Yes Yes Yes Yes Yes Yes Yes	Yes^ Yes^ Yes^ Yes^ Yes^	Yes Yes Yes Yes Yes Yes	A Bluetooth Tethering is considered
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- 1. 2.4 GHz WLAN and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
- 2. All licensed modes share the same antenna path and cannot transmit simultaneously.
- 3. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
- 4. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or bodyworn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
- 5. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII2A, and U-NII2C were not evaluated for wireless router conditions.
- 6. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. 2.4 GHz WLAN antenna can transmit independently or together when operating with MIMO.
- 7. This device supports VoWIFI.
- 8. This device supports Bluetooth Tethering.
- 9. This device supports VoLTE.
- LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.

1.7 Miscellaneous SAR Test Considerations

When on the device dimensions when closed, hotspot SAR in the closed configuration was performed at 5mm per KDB Publication 941225 D06v02r01.

(A) WIFI/BT

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A & U-NII-2C WIFI, only 2.4 GHz WLAN, 2.4 GHz Bluetooth and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports IEEE 802.11ax with the following features:

- a) Up to 80 MHz Bandwidth only for 5 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 2 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

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1 PCTEST REV 21.4 N 09/11/2019 This device supports channel 1-13 for 2.4 GHZ WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, default channels for SAR testing are determined per FCC KDB 248227 D01v02r02.

(B) Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The downlink carrier aggregation exclusion analysis can be found in Appendix H.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

This device supports LTE capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE Band falls completely within an LTE band with a larger transmission frequency range, both LTE bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 14)

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

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1.8 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D04v01r03 (Phablet Procedures)
- FCC KDB Publication 616217 D04v01r02 (Proximity Sensor)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax, Dynamic Antenna Tuning)

1.9 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 11.

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		LTE Information				
Form Factor			Portable Handset			
requency Range of each LTE transmission band			E Band 12 (699.7 - 715.3 M E Band 17 (706.5 - 713.5 M			
			E Band 13 (779.5 - 784.5 N			
		LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)					
			nd 66 (AWS) (1710.7 - 177			
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)					
			and 25 (PCS) (1850.7 - 191			
			and 2 (PCS) (1850.7 - 1909 Band 41 (2498.5 - 2687.5			
hannel Bandwidths			12: 1.4 MHz, 3 MHz, 5 MI			
Tallio Balandio			TE Band 17: 5 MHz, 10 M			
			TE Band 13: 5 MHz, 10 M			
			II): 1.4 MHz, 3 MHz, 5 MHz			
			(Cell): 1.4 MHz, 3 MHz, 5 1.4 MHz, 3 MHz, 5 MHz, 10			
			4 MHz, 3 MHz, 5 MHz, 10			
			.4 MHz, 3 MHz, 5 MHz, 10			
			4 MHz, 3 MHz, 5 MHz, 10			
hannel Numbers and Frequencies (MHz)	Low	Low-Mid	41: 5 MHz, 10 MHz, 15 M Mid	Mid-High	High	
TE Band 12: 1.4 MHz		(23017)	707.5 (23095)		(23173)	
TE Band 12: 3 MHz		(23025)	707.5 (23095)		(23165)	
E Band 12: 5 MHz		(23035)	707.5 (23095)		(23155)	
TE Band 12: 10 MHz		(23060)	707.5 (23095)		23130)	
TE Band 17: 5 MHz		(23755)	710 (23790)		(23825)	
TE Band 17: 10 MHz		(23780)	710 (23790)		23800)	
TE Band 13: 5 MHz		(23205)	782 (23230)		(23255)	
TE Band 13: 10 MHz		VA	782 (23230)		I/A	
TE Band 26 (Cell): 1.4 MHz TE Band 26 (Cell): 3 MHz		(26697)	831.5 (26865)	848.3 (27033)		
TE Band 26 (Cell): 5 MHz		(26705) (26715)	831.5 (26865) 831.5 (26865)	847.5 (27025) 846.5 (27015)		
TE Band 26 (Cell): 10 MHz		(26740)	831.5 (26865)	846.5 (27015) 844 (26990)		
TE Band 26 (Cell): 15 MHz		(26765)	831.5 (26865)	841.5 (26965)		
E Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)	848.3 (20643)		
TE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)		
TE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)		(20625)	
TE Band 5 (Cell): 10 MHz		(20450)	836.5 (20525)		20600)	
TE Band 66 (AWS): 1.4 MHz TE Band 66 (AWS): 3 MHz		(131979)	1745 (132322)	1779.3 (132665) 1778.5 (132657)		
TE Band 66 (AWS): 5 MHz		(131987)	1745 (132322) 1745 (132322)	1777.5 (132647)		
TE Band 66 (AWS): 10 MHz		(131997) (132022)	1745 (132322)	1775 (132622)		
TE Band 66 (AWS): 15 MHz		(132047)	1745 (132322)	1772.5 (132597)		
TE Band 66 (AWS): 20 MHz		(132072)	1745 (132322)	1770 (132572)		
TE Band 4 (AWS): 1.4 MHz	1710.7	7 (19957)	1732.5 (20175)	1754.3 (20393)		
TE Band 4 (AWS): 3 MHz	1711.5	(19965)	1732.5 (20175)	1753.5 (20385)		
E Band 4 (AWS): 5 MHz	1712.5	5 (19975)	1732.5 (20175)	1752.5	(20375)	
TE Band 4 (AWS): 10 MHz		(20000)	1732.5 (20175)		(20350)	
IE Band 4 (AWS): 15 MHz IE Band 4 (AWS): 20 MHz		(20025)	1732.5 (20175)	1747.5 (20325) 1745 (20300)		
TE Band 45 (PCS): 1.4 MHz		(20050) 7 (26047)	1732.5 (20175) 1882.5 (26365)		(26683)	
TE Band 25 (PCS): 3 MHz		5 (26055)	1882.5 (26365)		(26675)	
TE Band 25 (PCS): 5 MHz		5 (26065)	1882.5 (26365)		(26665)	
E Band 25 (PCS): 10 MHz		(26090)	1882.5 (26365)		(26640)	
TE Band 25 (PCS): 15 MHz		(26115)	1882.5 (26365)	1907.5	(26615)	
E Band 25 (PCS): 20 MHz		(26140)	1882.5 (26365)		(26590)	
TE Band 2 (PCS): 1.4 MHz		(18607)	1880 (18900)		(19193)	
IE Band 2 (PCS): 3 MHz IE Band 2 (PCS): 5 MHz		(18615)	1880 (18900)		(19185)	
TE Band 2 (PCS): 5 MHz		5 (18625) (18650)	1880 (18900) 1880 (18900)		(19175) (19150)	
TE Band 2 (PCS): 15 MHz		(18675)	1880 (18900)		(19125)	
TE Band 2 (PCS): 20 MHz		(18700)	1880 (18900)		(19100)	
E Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)	
E Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)	
E Band 41: 15 MHz E Band 41: 20 MHz	2506 (39750) 2506 (39750)	2549.5 (40185) 2549.5 (40185)	2593 (40620) 2593 (40620)	2636.5 (41055) 2636.5 (41055)	2680 (41490) 2680 (41490)	
E Band 41: 20 MHz Category	2300 (39/30)		2593 (40620) DL UE Cat 20, UL UE Cat		2000 (41490)	
odulations Supported in UL	<u> </u>		SK, 16QAM, 64QAM, 256			
E MPR Permanently implemented per 3GPP TS 36.101						
ection 6.2.3~6.2.5? (manufacturer attestation to be			YES			
ovided) MPR (Additional MPR) disabled for SAR Testing?			YES			
E Carrier Aggregation Possible Combinations	1					
	Th	ne technical description in	cludes all the possible car	rier aggregation combination	ons	
TE Additional Information	as shown in Appendix	H. All uplink communicati	GPP Release 15. It suppo ons are identical to the Rel 5 Features are not support	ease 8 Specifications. Up	link communications	

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	NR Information							
Form Factor		Portable Handset						
Frequency Range of each LTE transmission band		NR Band n5 (Cell) (826.5 - 846.5 MHz)						
		NR Band n66 (AWS) (1712.5 - 1777.5 MHz)						
Channel Bandwidths		NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz						
	N	R Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MI	-tz					
Channel Numbers and Frequencies (MHz)								
NR Band n5 (Cell): 5 MHz	826.5 (165300)	836.5 (167300)	846.5 (169300)					
NR Band n5 (Cell): 10 MHz	829 (165800)	836.5 (167300)	844 (168800)					
NR Band n5 (Cell): 15 MHz	831.5 (166300)	836.5 (167300)	841.5 (168300)					
NR Band n5 (Cell): 20 MHz	834 (166800)	836.5 (167300)	839 (167800)					
NR Band n66 (AWS): 5 MHz	1712.5 (342500)	1745 (349000)	1777.5 (355500)					
NR Band n66 (AWS): 10 MHz	1715 (343000)	1745 (349000)	1775 (355000)					
NR Band n66 (AWS): 15 MHz	1717.5 (343500)	1745 (349000)	1772.5 (354500)					
NR Band n66 (AWS): 20 MHz	1720 (344000)	1745 (349000)	1770 (354000)					
SCS for NR Band n5/n66		15 kHz						
Modulations Supported in UL	DFT	DFT-s-OFDM: 11/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM						
A-MPR (Additional MPR) disabled for SAR Testing?		YES						
EN-DC Carrier Aggregation Possible Combinations	The technical of	The technical description includes all the possible carrier aggregation combinations						
LTE Anchor Bands for NR Band n5 (Cell)		LTE Band 66/2						
LTE Anchor Bands for NR Band n66 (AWS)		LTE Band 5/12						

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3

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1 SAR Mathematical Equation

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

 σ = conductivity of the tissue-simulating material (S/m) ρ = mass density of the tissue-simulating material (kg/m³)

E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

- The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.
- 2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.

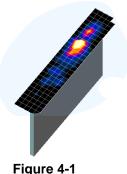


Figure 4-1 Sample SAR Area Scan

- 3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

	Maximum Area Scan	Maximum Zoom Scan	icsolution (min)		Minimum Zoom Scan	
Frequency	Resolution (mm) (Δx _{area} , Δy _{area})	Resolution (mm) (Δx _{200m} , Δy _{200m})	Uniform Grid	Graded Grid		Volume (mm) (x,y,z)
	alca yarcay	1 200117	Δz _{zoom} (n)	Δz _{zoom} (1)*	Δz _{zoom} (n>1)*	, ,,, ,
≤ 2 GHz	≤ 15	≤8	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤5	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤5	≤4	≤3	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤4	≤3	≤2.5	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤2	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥22

^{*}Also compliant to IEEE 1528-2013 Table 6

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5.1 EAR REFERENCE POINT

Figure 5-2 shows the front, back and side views of the SAM Twin Phantom. The point "M" is the reference point for the center of the mouth, "LE" is the left ear reference point (ERP), and "RE" is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 5-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 5-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

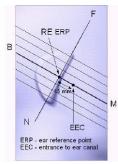


Figure 5-1 Close-Up Side view of ERP

5.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the "vertical centerline" on the front of the device aligned to the "ear reference point" (See Figure 5-3). The acoustic output was than located at the same level as the center of the ear reference point. The test device was positioned so that the "vertical centerline" was bisecting the front surface of the handset at its top and bottom edges, positioning the "ear reference point" on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 5-2 Front, back and side view of SAM Twin Phantom

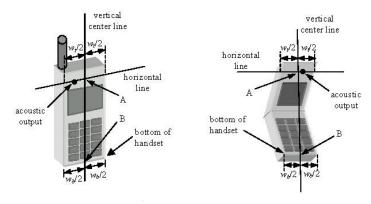


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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TEST CONFIGURATION POSITIONS

Device Holder 6.1

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\varepsilon = 3$ and loss tangent $\delta = 0.02$.

6.2 **Positioning for Cheek**

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.



Figure 6-1 Front, Side and Top View of Cheek Position

- The handset was translated towards the phantom along the line passing through RE & LE until the 2. handset touches the pinna.
- 3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
- The phone was then rotated around the vertical centerline until the phone (horizontal line) was 4. symmetrical was respect to the line NF.
- 5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 6-2).

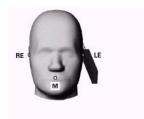
6.3 Positioning for Ear / 15° Tilt

hereof, please contact INFO@PCTEST.COM.

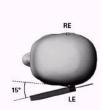
With the test device aligned in the "Cheek Position":

- 1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15degrees.
- The phone was then rotated around the horizontal line by 15 degrees. 2.
- While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 6-2).

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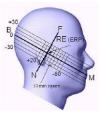


Figure 6-3
Side view w/ relevant markings

Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position

6.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones. Per IEEE 1528-2013, a rotated SAM phantom is necessary to allow probe access to such regions. Both SAM heads of the TwinSAM-Chin20 are rotated 20 degrees around the NF line. Each head can be removed from the table for emptying and cleaning.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR location identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

6.5 Body-Worn Accessory 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 (see Figure 6-4). Per FCC KDB Publication 648474 D04v01r03, 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 D01v06 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



Figure 6-4
Sample Body-Worn Diagram

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

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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.

6.6 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions; i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01v06 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D01v06, Cell phones (handsets) are not normally designed to be used on extremities or operated in extremity only exposure conditions. The maximum output power levels of handsets generally do not require extremity SAR testing to show compliance. Therefore, extremity SAR was not evaluated for this device.

6.7 Wireless Router Configurations

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 D06v02r01 where SAR test considerations for handsets (L x W \geq 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. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

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6.8 Phablet Configurations

For smart phones with a display diagonal dimension > 150 mm or an overall diagonal dimension > 160 mm 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 phablets procedures outlined in KDB Publication 648474 D04v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna <=25 mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR > 1.2 W/kg.

6.9 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a nonreduced output power level. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions. Sensor triggering distance summary data is included in Appendix G.

The sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the sensor entirely covers the antennas.

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7 RF EXPOSURE LIMITS

7.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

7.2 Controlled Environment

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). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 7-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

	MAN EXPOSURE LIMITS	en e
	UNCONTROLLED ENVIRONMENT	CONTROLLED ENVIRONMENT
	General Population (W/kg) or (mW/g)	Occupational (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

- 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.
- 2. The Spatial Average value of the SAR averaged over the whole body.
- 3. 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.

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FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

8.1 **Measured and Reported SAR**

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. The highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

3G SAR Test Reduction Procedure 8.2

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied. SAR measurements are additionally required for the secondary mode.

8.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 "3G SAR Measurement Procedures."

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a "point SAR" at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

8.4 **SAR Measurement Conditions for UMTS**

8.4.1 **Output Power Verification**

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all "1s" or 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, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

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8.4.2 Head SAR Measurements

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.

8.4.3 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all "1s". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n 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 DPDCH_n, for the highest reported SAR configuration in 12.2 kbps RMC.

8.4.4 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

8.4.5 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Subtest 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

8.4.6 SAR Measurement Conditions for 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 secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

8.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

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8.5.1 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.

8.5.2 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.

8.5.3 A-MPR

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

8.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.</p>

8.5.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

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8.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

8.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

8.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

8.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 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, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is

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tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

8.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.5 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the 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 position 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 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.6 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

8.6.7 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band. SAR is measured using the configuration(s) with the

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1 PCTEST REV 21.4 N 09/11/2015 largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 8.6.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.9 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is <1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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9.1 GSM Conducted Powers

Table 9-1
Maximum Conducted Power

Maximum Conducted Fower										
Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)			EDGE Data (8-PSK)				
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
	128	32.29	32.70	31.49	29.38	27.32	26.63	25.02	23.01	22.20
GSM 850	190	32.23	31.96	31.53	29.49	27.38	26.53	25.27	23.31	22.32
	251	32.22	32.20	30.91	29.07	27.18	26.80	24.92	22.91	21.85
GSM 1900	512	29.89	29.57	28.77	26.63	25.19	25.85	24.39	22.21	21.14
	661	29.62	29.39	28.93	26.95	25.20	25.83	24.47	22.71	21.58
	810	29.55	29.54	28.27	26.78	24.76	25.88	24.33	22.34	21.33

Calculated Maximum Frame-Averaged Output Power										
		Voice		GPRS/EDGE Data (GMSK)			EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
	128	23.09	23.50	25.30	24.95	24.14	17.43	18.83	18.58	19.02
GSM 850	190	23.03	22.76	25.34	25.06	24.20	17.33	19.08	18.88	19.14
	251	23.02	23.00	24.72	24.64	24.00	17.60	18.73	18.48	18.67
	512	20.69	20.37	22.58	22.20	22.01	16.65	18.20	17.78	17.96
GSM 1900	661	20.42	20.19	22.74	22.52	22.02	16.63	18.28	18.28	18.40
	810	20.35	20.34	22.08	22.35	21.58	16.68	18.14	17.91	18.15

GSM 850	Frame	22.80	22.80	24.81	24.57	23.32	17.30	18.81	18.57	18.82
GSM 1900	Avg.Targets:	20.30	20.30	22.31	22.07	21.32	16.30	18.31	18.07	18.32

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Table 9-2 Reduced Conducted Powers- Hotspot Mode Active

Reduced Conducted Powers- notspot Mode Active										
Maximum Burst-Averaged Output Power										
				DGE Data NSK)		EDGE Data (8-PSK)				
Band	Channel	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot	
	128	30.22	29.54	27.35	25.56	26.63	25.02	23.01	22.20	
GSM 850	190	30.30	29.69	27.55	25.71	26.53	25.27	23.31	22.32	
	251	29.71	29.01	27.38	25.25	26.80	24.92	22.91	21.85	
GSM 1900	512	23.06	22.55	21.85	20.14	22.71	22.02	20.90	19.32	
	661	22.90	22.59	21.84	20.12	22.53	21.92	20.70	19.08	
	810	23.33	22.63	21.90	20.36	22.92	22.25	21.03	19.44	

Calculated Maximum Frame-Averaged Output Power										
			GPRS/EL (GN	DGE Data NSK)		EDGE Data (8-PSK)				
Band	Channel	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot	
	128	21.02	23.35	22.92	22.38	17.43	18.83	18.58	19.02	
GSM 850	190	21.10	23.50	23.12	22.53	17.33	19.08	18.88	19.14	
	251	20.51	22.82	22.95	22.07	17.60	18.73	18.48	18.67	
	512	13.86	16.36	17.42	16.96	13.51	15.83	16.47	16.14	
GSM 1900	661	13.70	16.40	17.41	16.94	13.33	15.73	16.27	15.90	
	810	14.13	16.44	17.47	17.18	13.72	16.06	16.60	16.26	
GSM 850	Frame	21.30	23.31	23.07	21.82	17.30	18.81	18.57	18.82	
GSM 1900	Avg.Targets:	14.30	16.81	17.07	16.82	13.80	16.31	16.57	16.32	

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Table 9-3
Reduced Conducted Powers- Grip Sensor or Earjack Mode Active

- 1104	Reduced Conducted Towers Crip Censor of Edijack Mode Active									
Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data EDGE Data (GMSK) (8-PSK)							
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
	512	27.64	27.96	25.61	24.81	22.41	25.85	24.39	22.21	21.14
GSM 1900	661	28.17	27.32	26.12	24.91	22.80	25.83	24.47	22.71	21.58
	810	27.48	27.39	26.05	24.85	22.38	25.88	24.33	22.34	21.33

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
	512	18.44	18.76	19.42	20.38	19.23	16.65	18.20	17.78	17.96
GSM 1900	661	18.97	18.12	19.93	20.48	19.62	16.63	18.28	18.28	18.40
	810	18.28	18.19	19.86	20.42	19.20	16.68	18.14	17.91	18.15
GSM 1900	Frame Avg.Targets:	18.30	18.30	20.31	20.07	19.32	16.30	18.31	18.07	18.32

Note:

- 1. Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2. GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
- 3. EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

GSM Class: B
GPRS Multislot class: 33 (Max 4 Tx uplink slots)
EDGE Multislot class: 33 (Max 4 Tx uplink slots)
DTM Multislot Class: N/A



Figure 9-1
Power Measurement Setup

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9.2 **UMTS Conducted Powers**

Table 9-4 **Maximum Conducted Power**

3GPP Release	Release Mode Subtest		Cellular Band [dBm]		AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]	
Version		Oublest	4132	4183	4233	1312	1412	1513	9262	9400	9538	mi K [ab]
99	WCDMA	12.2 kbps RMC	24.71	24.81	24.71	23.42	23.16	23.25	23.90	23.75	23.64	-
99	WCDMA	12.2 kbps AMR	24.78	24.89	24.75	23.40	23.15	23.21	23.96	23.81	23.68	-
6		Subtest 1	23.44	23.55	23.52	22.14	21.87	21.84	22.55	22.37	22.32	0
6	HSDPA	Subtest 2	23.46	23.51	23.53	22.11	21.91	21.86	22.34	22.48	22.35	0
6	HODEA	Subtest 3	22.96	23.03	23.07	21.67	21.38	21.30	22.04	21.94	21.82	0.5
6		Subtest 4	22.96	23.03	23.05	21.66	21.32	21.30	22.06	21.90	21.84	0.5
6		Subtest 1	23.12	23.20	23.10	21.82	21.58	21.51	22.23	22.12	22.00	0
6		Subtest 2	21.11	21.24	21.06	19.75	19.50	19.44	20.14	20.02	19.99	2
6	HSUPA	Subtest 3	22.11	22.22	22.06	20.77	20.52	20.45	21.19	21.05	20.93	1
6		Subtest 4	21.12	21.21	21.07	19.74	19.52	19.47	20.19	20.08	19.94	2
6		Subtest 5	23.15	23.26	23.12	21.83	21.59	21.51	22.21	22.09	22.00	0
8		Subtest 1	23.26	23.25	23.09	21.67	21.59	21.59	22.28	22.12	22.01	0
8	DC-HSDPA	Subtest 2	23.25	23.20	23.05	21.81	21.57	21.55	22.25	22.06	22.06	0
8	DO-HODPA	Subtest 3	22.77	22.72	22.64	21.30	21.15	21.02	21.83	21.60	21.62	0.5
8		Subtest 4	22.74	22.73	22.61	21.32	21.06	21.04	21.75	21.63	21.53	0.5

Table 9-5 **Reduced Conducted Powers- Hotspot Mode Active**

Mode	3GPP 34.121 Subtest	Cellu	lar Band [dBm]	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR
	Sublest	4132	4183	4233	1312	1412	1513	9262	9400	9538	[dB]
WCDMA	12.2 kbps RMC	22.69	22.71	22.81	16.39	16.22	16.05	15.70	15.65	15.68	-
VVCDIVIA	12.2 kbps AMR	22.70	22.75	22.71	16.35	16.21	16.00	15.65	15.64	15.65	-
	Subtest 1	21.65	21.75	21.65	15.66	15.37	15.31	14.80	14.59	15.00	0
HSDPA	Subtest 2	21.68	21.86	21.69	15.65	15.33	15.32	14.77	14.54	14.99	0
TIODEA	Subtest 3	21.18	21.33	21.18	15.15	14.84	14.80	14.27	14.00	14.48	0.5
	Subtest 4	21.22	21.32	21.15	15.16	14.84	14.77	14.35	14.06	14.53	0.5
	Subtest 1	21.65	21.71	21.61	15.64	15.30	15.27	14.81	14.55	14.97	0
	Subtest 2	19.61	19.73	19.57	13.64	13.31	13.25	12.83	12.48	12.84	2
HSUPA	Subtest 3	20.65	20.70	20.58	14.61	14.31	14.27	13.82	13.48	13.88	1
	Subtest 4	19.66	19.72	19.60	13.63	13.31	13.27	12.83	12.43	12.92	2
	Subtest 5	21.83	21.89	21.75	15.64	15.30	15.26	14.82	14.41	14.97	0
	Subtest 1	21.63	21.66	21.62	15.65	15.30	15.28	14.90	14.50	15.06	0
DC-HSDPA	Subtest 2	21.64	21.78	21.59	15.64	15.32	15.26	14.89	14.44	15.01	0
DO-1 ISDFA	Subtest 3	21.18	21.29	21.10	15.14	14.82	14.75	14.36	14.00	14.58	0.5
	Subtest 4	21.16	21.31	21.13	15.13	14.81	14.76	14.36	14.01	14.58	0.5

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Table 9-6
Reduced Conducted Powers- Grip Sensor or Earjack Mode Active

3GPP Release	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
Version		Oublest	1312	1412	1513	9262	9400	9538	Mi K [ab]
99	WCDMA	12.2 kbps RMC	20.39	20.26	20.17	21.92	21.78	21.64	-
99	VVCDIVIA	12.2 kbps AMR	20.37	20.16	20.13	21.94	21.81	21.69	-
6		Subtest 1	18.83	18.61	18.52	20.27	20.14	19.94	0
6	HSDPA	Subtest 2	18.88	18.59	18.54	20.24	20.24	20.05	0
6	ПОДРА	Subtest 3	18.34	18.06	17.97	19.72	19.62	19.52	0.5
6		Subtest 4	18.27	18.04	18.02	19.70	19.54	19.43	0.5
6		Subtest 1	18.78	18.50	18.47	20.22	20.07	20.01	0
6		Subtest 2	16.75	16.53	16.46	18.15	18.05	17.95	2
6	HSUPA	Subtest 3	17.78	17.52	17.47	19.17	19.05	18.97	1
6		Subtest 4	16.73	16.52	16.45	18.20	18.04	17.99	2
6		Subtest 5	19.18	18.88	18.67	20.41	20.20	20.07	0
8		Subtest 1	18.86	18.60	18.54	20.26	20.13	20.03	0
8	DC HSDDV	Subtest 2	18.87	18.86	18.53	20.25	20.13	20.08	0
8	DC-HSDPA	Subtest 3	18.41	18.10	18.06	19.77	19.63	19.57	0.5
8		Subtest 4	18.33	18.07	18.00	19.67	19.56	19.45	0.5

DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA

It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2 dB more than specified by 3GPP, but also as low as 0 dB according to the chipset implementation in this model.



Figure 9-2
Power Measurement Setup

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9.3 LTE Conducted Powers

Note: Per FCC KDB Publication 941225 D05v02r05, LTE SAR for the lower bandwidths was not required for testing since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg. Lower bandwidth conducted powers for all LTE bands can be found in Appendix F.

9.3.1 LTE Band 12

Table 9-7
LTE Band 12 Maximum Conducted Powers - 10 MHz Bandwidth

		TO 12 Maxim	LTE Band 12	70 TO IMILE BUILDING	
			10 MHz Bandwidth		
			Mid Channel		
Modulation	RB Size	RB Offset	23095 (707.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power	00 [02]	
			[dBm]		
	1	0	24.55		0
	1	25	24.45	0	0
	1	49	24.42		0
QPSK	25	0	23.63		1
	25	12	23.67	0-1	1
	25	25	23.70		1
	50	0	23.62		1
	1	0	23.69		1
	1	25	23.64	0-1	1
	1	49	23.57		1
16QAM	25	0	22.70		2
	25	12	22.72	0-2	2
	25	25	22.74		2
	50	0	22.70		2
	1	0	22.86		2
	1	25	23.00	0-2	2
	1	49	22.80		2
64QAM	25	0	21.73		3
	25	12	21.77	0.0	3
	25	25	21.78	0-3	3
	50	0	21.69		3
	1	0	19.27		5
	1	25	19.60		5
	1	49	19.38		5
256QAM	25	0	19.67	0-5	5
	25	12	19.73		5
	25	25	19.75		5
	50	0	19.61		5
L TE David		la a di Calda da			ala Dankon D. Lilian

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-8 LTE Band 12 Reduced Conducted Powers - Hotspot Mode Active - 10 MHz Bandwidth

		234 2311440	LTE Band 12	t Wode Active - 10 Wi	
			10 MHz Bandwidth		
			Mid Channel		
Modulation	RB Size	RB Offset	23095 (707.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power	, 3011 [db]	
			[dBm]		
	1	0	22.25		0
	1	25	22.31	0	0
	1	49	22.20		0
QPSK	25	0	22.24	0-1	0
	25	12	22.37		0
	25	25	22.26		0
	50	0	22.23		0
	1	0	22.73		0
	1	25	22.69	0-1	0
	1	49	22.64		0
16QAM	25	0	21.75	0-2	0.5
	25	12	21.80		0.5
	25	25	21.77		0.5
	50	0	21.71		0.5
	1	0	22.00		0.5
	1	25	21.95	0-2	0.5
	1	49	21.82		0.5
64QAM	25	0	20.83		1.5
	25	12	20.82		1.5
	25	25	20.94	0-3	1.5
	50	0	20.80		1.5
	1	0	18.70		3.5
	1	25	18.92		3.5
	1	49	18.76		3.5
256QAM	25	0	18.77	0-5	3.5
	25	12	18.72		3.5
	25	25	18.88		3.5
	50	0	18.81		3.5
	1	ı			

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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9.3.2 LTE Band 13

Table 9-9 LTE Band 13 Maximum Conducted Powers - 10 MHz Bandwidth

			LTE Band 13 10 MHz Bandwidth	773 - TO MILE Ballawi	
			Mid Channel		
Modulation	RB Size	RB Offset	23230 (782.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]	551.7 [42]	
	1	0	24.44		0
	1	25	24.64	0	0
	1	49	24.48		0
QPSK	25	0	23.52		1
	25	12	23.56	0-1	1
	25	25	23.62	— U-1	1
	50	0	23.55		1
	1	0	23.69		1
	1	25	23.95	0-1	1
	1	49	23.95		1
16QAM	25	0	22.55		2
	25	12	22.62	0-2	2
	25	25	22.69		2
	50	0	22.56		2
	1	0	21.98		2
	1	25	22.35	0-2	2
	1	49	22.40		2
64QAM	25	0	20.95		3
	25	12	21.17	0-3	3
	25	25	21.50	0-3	3
	50	0	21.04		3
	1	0	19.37		5
	1	25	19.77		5
	1	49	19.52		5
256QAM	25	0	19.49	0-5	5
	25	12	19.56		5
	25	25	19.49		5
	50	0	19.56		5

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Table 9-10 LTE Band 13 Reduced Conducted Powers - Hotspot Mode Active - 10 MHz Bandwidth

			LTE Band 13 10 MHz Bandwidth		
			Mid Channel		
Modulation	RB Size	RB Offset	23230 (782.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]	00.1 [00]	
	1	0	22.52		0
	1	25	22.57	0	0
	1	49	22.60		0
QPSK	25	0	22.61		0
	25	12	22.64	0.4	0
	25	25	22.61	0-1	0
	50	0	22.59		0
	1	0	23.04		0
	1	25	23.09	0-1	0
	1	49	23.18		0
16QAM	25	0	22.12	0-2	0.5
	25	12	22.19		0.5
	25	25	22.20		0.5
	50	0	22.09		0.5
	1	0	22.21		0.5
	1	25	22.25		0.5
	1	49	22.44		0.5
64QAM	25	0	21.19		1.5
	25	12	21.12	0.0	1.5
	25	25	21.11	0-3	1.5
	50	0	21.09		1.5
	1	0	18.90		3.5
	1	25	19.19		3.5
	1	49	19.10		3.5
256QAM	25	0	18.97	0-5	3.5
	25	12	19.03		3.5
	25	25	19.09		3.5
	50	0	19.03		3.5

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9.3.3 LTE Band 26

Table 9-11
LTE Band 26 (Cell) Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 26 (Cell) Maximum Conducted Powers - 15 MHz Bandwidth LTE Band 26 (Cell) 15 MHz Bandwidth							
			Mid Channel				
Modulation	RB Size	RB Offset	26865 (831.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]		
	1	0	24.21		0		
	1	36	24.26	0	0		
	1	74	24.11		0		
QPSK	36	0	23.21		1		
	36	18	23.30	0.4	1		
	36	37	23.32	0-1	1		
	75	0	23.24		1		
	1	0	23.82		1		
	1	36	23.89	0-1	1		
	1	74	23.61		1		
16QAM	36	0	22.16		2		
	36	18	22.30	0-2	2		
	36	37	22.30	0-2	2		
	75	0	22.26		2		
	1	0	22.50		2		
	1	36	22.50	0-2	2		
	1	74	22.51		2		
64QAM	36	0	21.30		3		
	36	18	21.35	0-3	3		
	36	37	21.34	0-5	3		
	75	0	21.25		3		
	1	0	19.62		5		
	1	36	19.45		5		
	1	74	19.27		5		
256QAM	36	0	19.24	0-5	5		
[36	18	19.33		5		
[36	37	19.32		5		
	75	0	19.30		5		

Note: LTE Band 26 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-12
LTE Band 26 (Cell) Reduced Conducted Powers - Hotspot Mode Active - 15 MHz Bandwidth

			LTE Band 26 (Cell) 15 MHz Bandwidth				
Modulation	RB Size	ze RB Offset Mid Channel 26865 MP (831.5 MHz) Conducted Power [dBm]		RB Size RB Offset 26865 (831.5 MHz) Conducted Power		MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	22.28		0		
	1	36	22.23	0	0		
	1	74	22.29		0		
QPSK	36	0	22.20		0		
	36	18	22.31	0-1	0		
	36	37	22.24	U-1	0		
	75	0	22.25		0		
	1	0	22.72		0		
	1	36	22.66	0-1	0		
	1	74	22.68		0		
16QAM	36	0	21.80		0.5		
	36	18	21.83	0-2	0.5		
	36	37	21.85	0-2	0.5		
	75	0	21.70		0.5		
	1	0	22.01		0.5		
	1	36	21.90	0-2	0.5		
	1	74	21.95		0.5		
64QAM	36	0	20.80		1.5		
	36	18	20.93	0-3	1.5		
	36	37	20.90	0-3	1.5		
	75	0	20.81		1.5		
	1	0	18.66		3.5		
	1	36	18.89		3.5		
	1	74	18.82		3.5		
256QAM	36	0	18.73	0-5	3.5		
	36	18	18.82		3.5		
	36	37	18.74		3.5		
	75	0	18.76		3.5		

Note: LTE Band 26 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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9.3.4 LTE Band 66

Table 9-13 LTE Band 66 (AWS) Maximum Conducted Powers - 20 MHz Bandwidth

			(71110) maximu	LTE Band 66 (AWS)		ii iz Bailuwiutii	
				20 MHz Bandwidth			
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			(Conducted Power [dBm	1]		
	1	0	22.57	22.40	22.76		0
	1	50	22.68	22.49	22.67	0	0
	1	99	22.46	22.52	22.77		0
QPSK	50	0	21.87	21.64	21.87		1
	50	25	21.83	21.71	21.90	0-1	1
	50	50	21.66	21.61	21.91	0-1	1
	100	0	21.76	21.67	21.86		1
	1	0	22.30	21.96	22.44	0-1	1
	1	50	22.46	22.15	22.51		1
	1	99	22.18	22.05	22.54		1
16QAM	50	0	21.01	20.79	20.85	0-2	2
	50	25	20.97	20.82	20.98		2
	50	50	20.87	20.75	21.00		2
	100	0	20.90	20.75	20.87		2
	1	0	21.06	21.13	21.04		2
	1	50	21.27	21.33	21.15	0-2	2
	1	99	20.96	21.20	21.20		2
64QAM	50	0	20.06	19.79	19.94		3
	50	25	19.99	19.83	20.04	0-3	3
	50	50	19.91	19.73	20.02	0-3	3
	100	0	19.90	19.73	19.92		3
	1	0	17.95	17.64	17.58		5
	1	50	18.04	17.82	17.99		5
	1	99	17.78	17.72	17.78		5
256QAM	50	0	17.88	17.78	17.92	0-5	5
	50	25	17.96	17.83	18.01		5
	50	50	17.84	17.74	18.01		5
	100	0	17.87	17.75	17.93		5

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Table 9-14 LTE Band 66 (AWS) Reduced Conducted Powers - Hotspot Mode Active - 20 MHz Bandwidth

LTE Band 66 (AWS) Reduced Conducted Powers - Hotspot Mode Active - 20 Min2 Bandwidth LTE Band 66 AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			(onducted Power[dBm	1]		
	1	0	15.23	15.15	15.38		0
	1	50	15.61	15.28	15.53	0	0
	1	99	15.24	15.14	15.59	Ī	0
QPSK	50	0	15.72	15.35	15.53		0
	50	25	15.82	15.40	15.74	0-1	0
	50	50	15.62	15.36	15.68	U-1	0
	100	0	15.60	15.33	15.50	1	0
	1	0	15.58	15.20	15.65	0-1	0
	1	50	15.51	15.41	15.46		0
	1	99	15.55	15.39	15.44		0
16QAM	50	0	15.61	15.37	15.55		0
	50	25	15.84	15.47	15.73	0-2	0
	50	50	15.57	15.36	15.65		0
	100	0	15.53	15.39	15.56		0
	1	0	15.66	15.33	15.60		0
	1	50	16.00	15.15	15.87	0-2	0
	1	99	15.59	15.31	15.94	Ī	0
64QAM	50	0	15.77	15.39	15.60		0
	50	25	15.71	15.41	15.71	0-3	0
	50	50	15.57	15.51	15.71	0-3	0
	100	0	15.55	15.46	15.50]	0
	1	0	15.49	15.19	15.30		0
	1	50	15.32	15.35	15.66]	0
	1	99	15.16	15.27	15.53] [0
256QAM	50	0	15.73	15.38	15.55	0-5	0
	50	25	15.81	15.50	15.66]	0
	50	50	15.54	15.36	15.62	†	0
	100	0	15.62	15.40	15.57	†	0

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Table 9-15 LTE Band 66 (AWS) Reduced Conducted Powers - Grip Sensor and/or Earjack Mode Active - 20 MHz
Bandwidth

				LTE Band 66 (AWS) 20 MHz Bandwidth			
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			C	Conducted Power [dBm	1]		
	1	0	19.85	19.66	20.27		0
	1	50	20.13	19.95	20.24	0	0
	1	99	19.88	19.96	20.26		0
QPSK	50	0	20.24	20.06	20.27		0
	50	25	20.22	20.09	20.41	0-1	0
	50	50	20.14	20.12	20.38	0-1	0
	100	0	20.12	20.05	20.25		0
	1	0	20.12	20.28	20.55		0
	1	50	20.23	20.50	20.71	0-1	0
	1	99	20.10	20.33	20.77		0
16QAM	50	0	20.27	20.15	20.27		0
	50	25	20.22	20.25	20.50	0-2	0
	50	50	20.10	20.18	20.35		0
	100	0	20.17	20.10	20.33	1	0
	1	0	20.17	20.08	20.44		0
	1	50	20.40	20.28	20.55	0-2	0
	1	99	20.20	20.24	20.53]	0
64QAM	50	0	20.27	20.12	20.34		0
	50	25	20.25	20.19	20.48	0-3	0
	50	50	20.13	20.13	20.43	0-3	0
	100	0	20.23	20.14	20.32	1	0
	1	0	18.10	17.93	18.11		2
	1	50	18.25	18.09	18.44]	2
	1	99	18.35	18.14	18.27		2
256QAM	50	0	18.23	18.10	18.33	0-5	2
	50	25	18.14	18.11	18.40	1	2
	50	50	18.11	18.20	18.42	1	2
	100	0	18.18	18.15	18.27	1	2

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9.3.5 LTE Band 25

Table 9-16 LTE Band 25 (PCS) Maximum Conducted Powers - 20 MHz Bandwidth

			/ (1 CC) maxim	LTE Band 25 (PCS)			
				20 MHz Bandwidth			
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	26140	26365	26590	MPR Allowed per	MDD (JD)
Modulation	RD SIZE	RB Offset	(1860.0 MHz)	(1882.5 MHz)	(1905.0 MHz)	3GPP [dB]	MPR [dB]
			(Conducted Power [dBm	1		
	1	0	23.74	23.55	23.48		0
	1	50	23.73	23.57	23.45	0	0
	1	99	23.70	23.48	23.47		0
QPSK	50	0	22.81	22.60	22.51		1
	50	25	22.71	22.48	22.48	0-1	1
	50	50	22.69	22.61	22.50	0-1	1
	100	0	22.64	22.55	22.45		1
	1	0	23.00	22.89	22.84		1
	1	50	22.96	22.95	22.85	0-1	1
	1	99	22.98	22.94	22.85		1
16QAM	50	0	21.82	21.65	21.44		2
	50	25	21.83	21.68	21.46	0-2	2
	50	50	21.77	21.63	21.50		2
	100	0	21.71	21.58	21.42		2
	1	0	22.00	21.85	21.61		2
	1	50	21.82	21.86	21.71	0-2	2
	1	99	21.88	21.88	21.70		2
64QAM	50	0	20.86	20.70	20.50		3
	50	25	20.84	20.67	20.51	0-3	3
	50	50	20.78	20.68	20.56	0-3	3
	100	0	20.74	20.62	20.53		3
	1	0	18.78	18.35	18.15		5
	1	50	18.62	18.64	18.50		5
	1	99	18.65	18.60	18.44		5
256QAM	50	0	18.69	18.57	18.49	0-5	5
	50	25	18.70	18.66	18.42		5
	50	50	18.69	18.63	18.54		5
	100	0	18.75	18.56	18.44]	5

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Table 9-17
LTE Band 25 (PCS) Reduced Conducted Powers - Hotspot Mode Active - 20 MHz Bandwidth

<u> </u>	E Band 2	5 (PCS) R	eaucea Conauc	ted Powers - Ho	otspot wode Ac	tive - 20 MHZ Ba	nawiath
				LTE Band 25 (PCS) 20 MHz Bandwidth			
			Low Channel 26140	Mid Channel 26365	High Channel 26590	MPR Allowed per	
Modulation	RB Size	RB Offset	(1860.0 MHz)	(1882.5 MHz)	(1905.0 MHz)	3GPP [dB]	MPR [dB]
				Conducted Power [dBm			
	1	0	16.51	16.20	16.45		0
	1	50	16.30	16.22	16.63	0	0
	1	99	16.30	16.50	16.65		0
QPSK	50	0	16.54	16.32	16.65		0
	50	25	16.56	16.35	16.85	0-1	0
	50	50	16.46	16.45	16.90	0-1	0
	100	0	16.30	16.30	16.62		0
	1	0	16.67	16.38	16.95		0
	1	50	16.53	16.46	16.67	0-1	0
	1	99	16.76	16.62	16.62		0
16QAM	50	0	16.56	16.37	16.68		0
	50	25	16.58	16.43	16.91	0-2	0
	50	50	16.49	16.48	16.91	0-2	0
	100	0	16.36	16.27	16.54		0
	1	0	16.87	16.41	16.71		0
	1	50	16.43	16.57	16.92	0-2	0
	1	99	16.58	16.73	16.96		0
64QAM	50	0	16.51	16.39	16.74		0
	50	25	16.55	16.41	16.70	0-3	0
	50	50	16.52	16.55	16.88	0-3	0
	100	0	16.37	16.37	16.61		0
	1	0	16.13	15.98	16.15		0
	1	50	16.56	16.39	16.56		0
	1	99	16.12	16.37	16.65		0
256QAM	50	0	16.40	16.15	16.44	0-5	0
	50	25	16.61	16.38	16.71		0
	50	50	16.29	16.41	16.75		0
	100	0	16.29	16.32	16.77		0

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Table 9-18 LTE Band 25 (PCS) Reduced Conducted Powers - Grip Sensor and/or Earjack Mode Active - 20 MHz
Bandwidth

				LTE Band 25 (PCS)			
				20 MHz Bandwidth	111 1 01 1		
Modulation	RB Size	RB Offset	26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz) Conducted Power [dBm	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
	4	0	20.23		20.07		0
	1	0 50	20.23	20.22	20.07	0	0
	1	99	20.14	20.15	20.06	. "	0
QPSK	50	0	20.13	20.17	20.09		0
QPSK	50	25	20.42	20.28	20.06	-	0
	50	50	20.42	20.28	20.07	0-1	0
	100	0	20.22	20.23	20.02	-	0
	1	0	20.70	20.51	20.60		0
	1	50	20.72	20.49	20.58	0-1	0
	1	99	20.71	20.49	20.57	•	0
16QAM	50	0	20.50	20.13	20.03		0
	50	25	20.47	20.19	20.06		0
	50	50	20.40	20.15	20.12	0-2	0
	100	0	20.35	20.15	20.01		0
	1	0	20.70	20.40	20.38		0
	1	50	20.73	20.45	20.39	0-2	0
	1	99	20.69	20.33	20.38		0
64QAM	50	0	20.55	20.25	20.15		0
	50	25	20.44	20.25	20.13	1	0
	50	50	20.33	20.24	20.18	0-3	0
	100	0	20.21	20.16	20.17	1	0
	1	0	18.20	18.22	18.00		2
	1	50	18.45	18.25	17.88	1	2
	1	99	18.16	18.19	17.92	1	2
256QAM	50	0	18.30	18.22	18.04	0-5	2
	50	25	18.31	18.23	18.01		2
	50	50	18.30	18.22	18.08		2
	100	0	18.30	18.20	18.11		2

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9.3.6 LTE Band 41

Table 9-19
LTE Band 41 PC3 Maximum Conducted Powers - 20 MHz Bandwidth

		LIL Dai	14 -11 00 1	viaxiiiiuiii C	LTE Band 41	1 011013 - 20	, will iz Dall	amidui	
				20	MHz Bandwidth				
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel		
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
				Cor	nducted Power [di	Bm]			
	1	0	23.80	23.87	23.55	23.76	23.60		0
	1	50	23.78	23.83	24.02	24.01	24.06	0	0
	1	99	23.77	23.87	23.75	23.64	24.04		0
QPSK	50	0	22.75	22.83	22.87	22.93	22.92		1
	50	25	22.96	22.98	22.93	22.99	23.10	0-1	1
	50	50	22.89	22.85	23.00	22.95	23.17	0-1	1
	100	0	22.86	22.87	22.90	22.92	23.03		1
	1	0	23.33	22.98	22.89	23.08	22.70		1
	1	50	23.28	23.00	23.23	23.33	23.16	0-1	1
	1	99	23.29	22.99	23.05	22.89	23.12	1	1
16QAM	50	0	21.79	21.85	21.85	21.91	21.96		2
	50	25	21.97	22.01	21.95	21.96	22.11	0-2	2
	50	50	21.91	21.86	21.99	21.92	22.20		2
	100	0	21.88	21.88	21.87	21.89	22.00	1	2
	1	0	21.45	21.88	21.80	21.93	21.60		2
	1	50	21.45	21.90	22.19	22.25	22.11	0-2	2
	1	99	21.48	21.88	21.93	21.85	22.05	1	2
64QAM	50	0	20.78	20.91	20.89	20.95	20.98		3
	50	25	20.97	21.05	21.00	21.02	21.18		3
	50	50	20.91	20.93	21.00	20.96	21.22	0-3	3
	100	0	20.89	20.92	20.91	20.90	21.09	1	3
	1	0	18.43	19.09	18.79	18.90	19.16		5
	1	50	18.83	19.37	19.14	19.20	19.51	1	5
	1	99	18.55	19.04	18.88	18.74	19.55	1	5
256QAM	50	0	18.78	18.84	18.87	18.96	18.99	0-5	5
	50	25	18.97	19.01	18.99	19.02	19.16		5
	50	50	18.94	18.89	18.98	18.96	19.22		5
	100	0	18.90	18.88	18.88	18.93	19.04	1	5

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Table 9-20
LTE Band 41 PC3 Reduced Conducted Powers - Hotspot Mode Active - 20 MHz Bandwidth

				20	LTE Band 41 MHz Bandwidth				
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel		
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
				Cor					
	1	0	18.70	18.47	17.88	18.23	18.01		0
	1	50	18.55	18.37	18.14	18.29	18.38	0	0
	1	99	18.53	18.32	17.85	17.83	18.34		0
QPSK	50	0	18.60	18.36	18.12	18.36	18.26		0
	50	25	18.69	18.46	18.36	18.39	18.39	0-1	0
	50	50	18.53	18.25	18.22	18.31	18.48	0-1	0
	100	0	18.64	18.33	18.20	18.28	18.36] [0
	1	0	18.48	18.40	17.86	18.24	18.02		0
	1	50	18.33	18.31	18.50	18.31	18.35	0-1	0
	1	99	18.25	18.24	17.88	17.81	18.32	1 i	0
16QAM	50	0	18.38	18.29	18.16	18.40	18.28		0
	50	25	18.49	18.49	18.37	18.39	18.45	0-2	0
	50	50	18.30	18.30	18.24	18.27	18.53		0
l	100	0	18.39	18.40	18.24	18.31	18.34	1 [0
	1	0	18.45	18.19	17.62	17.94	17.73		0
	1	50	18.32	18.19	17.99	18.11	18.15	0-2	0
	1	99	18.23	18.07	17.63	17.61	18.14	1 [0
64QAM	50	0	18.37	18.41	18.16	18.41	18.32		0
	50	25	18.48	18.47	18.44	18.40	18.51	1 ,, [0
	50	50	18.31	18.33	18.28	18.29	18.58	0-3	0
l	100	0	18.41	18.37	18.21	18.28	18.36	1	0
	1	0	18.25	18.00	17.80	18.09	17.90		0
l	1	50	18.56	18.28	18.11	18.23	18.34] [0
l	1	99	18.08	17.80	17.85	17.77	18.25	0-5	0
256QAM	50	0	18.42	18.43	18.24	18.51	18.36		0
İ	50	25	18.53	18.58	18.39	18.47	18.55		0
İ	50	50	18.33	18.38	18.38	18.35	18.61		0
	100	0	18.39	18.36	18.24	18.31	18.41	1 [0

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Table 9-21
LTE Band 41 PC3 Reduced Conducted Powers - Grip Sensor and/or Earjack Mode Active - 20 MHz
Bandwidth

				<u>D</u>	andwidth						
				20	LTE Band 41 MHz Bandwidth						
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel				
Modulation	RB Size	RB Offset	RB Offset	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]								
	1	0	22.37	22.35	22.12	22.25	22.07		0		
	1	50	22.37	22.34	22.47	22.56	22.57	0	0		
	1	99	22.35	22.35	22.20	22.18	22.48		0		
QPSK	50	0	22.28	22.34	22.42	22.51	22.47		0		
	50	25	22.44	22.49	22.54	22.57	22.63	0-1	0		
	50	50	22.42	22.36	22.55	22.51	22.69	0-1	0		
	100	0	22.40	22.40	22.45	22.50	22.53		0		
	1	0	22.72	22.88	22.28	22.05	22.56		0		
	1	50	22.72	22.86	22.61	22.28	22.97	0-1	0		
	1	99	22.74	22.87	22.35	22.00	22.94		0		
16QAM	50	0	21.77	21.83	21.96	21.89	21.92		0.5		
	50	25	21.95	22.00	22.09	21.94	22.06	0-2	0.5		
	50	50	21.90	21.87	22.09	21.87	22.18		0.5		
	100	0	21.89	21.90	21.96	21.88	22.02		0.5		
	1	0	22.10	21.48	21.65	21.94	21.47		0.5		
	1	50	22.14	21.54	22.06	22.22	21.73	0-2	0.5		
	1	99	22.11	21.53	21.79	21.81	21.64		0.5		
64QAM	50	0	20.83	20.85	21.04	20.94	20.97		1.5		
	50	25	20.98	21.00	21.15	20.99	21.14	0-3	1.5		
	50	50	20.95	20.89	21.16	20.92	21.23	0-3	1.5		
	100	0	20.89	20.92	21.05	20.88	21.10		1.5		
	1	0	18.67	18.47	19.21	18.84	19.06		3.5		
	1	50	19.06	18.88	19.58	19.16	19.05		3.5		
	1	99	18.78	18.46	19.35	18.71	18.95		3.5		
256QAM	50	0	18.77	18.84	18.98	18.94	18.96	0-5	3.5		
	50	25	18.99	19.00	19.09	18.99	19.11		3.5		
	50	50	18.90	18.91	19.10	18.91	19.18		3.5		
	100	0	18.89	18.93	18.98	18.90	19.03	Ī	3.5		

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Table 9-22 LTE Band 41 PC2 Maximum Conducted Powers - 20 MHz Bandwidth

ETE Band 411 02 Maximum Conducted 1 Owers - 20 Minz Bandwidth										
					LTE Band 41					
20 MHz Bandwidth										
			Low Channel	Low-Mid Channel	Mid Channel	Mid Channel Mid-High Channel	High Channel			
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]	
				Co	nducted Power [dE	Bm]				
	1	0	26.32	26.33	26.16	26.09	26.06		0	
	1	50	26.35	26.31	26.40	26.39	26.42	0	0	
	1	99	26.33	26.33	26.18	25.98	26.38		0	
QPSK	50	0	25.24	25.28	25.42	25.45	25.42		1	
	50	25	25.43	25.45	25.51	25.49	25.59	0-1	1	
	50	50	25.36	25.33	25.50	25.44	25.67	7 0-1	1	
	100	0	25.35	25.36	25.41	25.40	25.51		1	

Table 9-23 LTE Band 41 PC2 Reduced Conducted Powers - Hotspot Mode Active - 20 MHz Bandwidth

	LTE Band 41 20 MHz Bandwidth									
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel			
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]	
				Co	nducted Power [dE	Bm]				
	1	0	18.81	18.35	17.87	17.90	17.95		0	
	1	50	18.72	18.39	18.17	18.17	18.35	0	0	
	1	99	18.65	18.37	17.76	17.72	18.28		0	
QPSK	50	0	18.70	18.37	18.13	18.21	18.18		0	
	50	25	18.81	18.55	18.28	18.25	18.42	0-1	0	
	50	50	18.65	18.37	18.22	18.21	18.47	0-1	0	
	100	0	18.68	18.42	18.19	18.20	18.32		0	

Table 9-24 LTE Band 41 PC2 Reduced Conducted Powers - Grip Sensor and/or Earjack Mode Active - 20 MHz Bandwidth

	LTE Band 41 20 MHz Bandwidth										
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel				
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]		
				Co	nducted Power [dB	sm]					
	1	0	22.35	22.27	22.15	22.23	21.93		0		
	1	50	22.32	22.25	22.47	22.44	22.49	0	0		
	1	99	22.31	22.28	22.18	22.05	22.37		0		
QPSK	50	0	22.26	22.31	22.38	22.42	22.41		0		
	50	25	22.45	22.47	22.48	22.49	22.56	0-1	0		
	50	50	22.38	22.34	22.49	22.42	22.63	0-1	0		
	100	0	22.37	22.39	22.42	22.38	22.49		0		



Figure 9-3 **Power Measurement Setup**

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9.4 NR Conducted Powers

Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in appendix F.

9.4.1 NR Band n5

Table 9-25
NR Band n5 Maximum Conducted Powers - 20 MHz Bandwidth

		NR Band			
		20 MHz Ban		1	
			Channel		
Modulation	RB Size	RB Offset	167300 (836.5 MHz)	MPR Allowed per 3GPP	MPR [dB]
			Conducted Power [dBm]	[dB]	
	1	1	23.59		0.0
	1	53	23.72	0	0.0
DFT-s-OFDM π/2 BPSK	1	104	23.66		0.0
	50	0	23.67	0-0.5	0.5
	50	28	23.65	0	0.0
	50	56	23.60	0-0.5	0.5
	100	0	23.63	0-0.5	0.5
	1	1	23.59		0.0
	1	53	23.69	0	0.0
DET - OFDM	1	104	23.64		0.0
DFT-s-OFDM QPSK	50	0	23.10	0-1	1.0
QI SIX	50	28	23.61	0	0.0
	50	56	23.08	0-1	1.0
	100	0	23.09	U-1	1.0
DFT-s-OFDM 16QAM	1	1	23.39	0-1	1.0
CP-OFDM QPSK	1	1	22.95	0-1.5	1.5

Note: NR Band n5 at 20 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-26 NR Band n5 Reduced Conducted Powers - Hotspot Mode Active - 20 MHz Bandwidth

		NR Band 20 MHz Ban			
		20 1111 2 2 111	Channel		
Modulation	RB Size	RB Offset	167300 (836.5 MHz)	MPR Allowed per 3GPP	MPR [dB]
			Conducted Power [dBm]	[dB]	
	1	1	22.61		0.0
DFT-s-OFDM π/2 BPSK	1	53	22.66	0	0.0
	1	104	22.65		0.0
	50	0	22.66	0-0.5	0.0
M 2 DI SK	50	28	22.69	0	0.0
	50	56	22.68	0-0.5	0.0
	100	0	22.73	0-0.5	0.0
	1	1	22.61		0.0
	1	53	22.94	0	0.0
DET - OFDM	1	104	22.62		0.0
DFT-s-OFDM QPSK	50	0	22.74	0-1	0.0
QI OIX	50	28	22.92	0	0.0
	50	56	22.60	0-1	0.0
	100	0	22.73	U- I	0.0
DFT-s-OFDM 16QAM	1	1	23.04	0-1	0.0
CP-OFDM QPSK	1	1	22.56	0-1.5	0.0

Note: NR Band n5 at 20 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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9.4.1 NR Band n66

Table 9-27
NR Band n66 Maximum Conducted Powers - 20 MHz Bandwidth

	THE BUILT	a 1100 Maxiii	NR Band		THE DUTING	ac	
			20 MHz Ban	Channel			
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)	MPR Allowed per 3GPP	MPR [dB]
		in Sinest	Con	ducted Power [di	Bm]	[dB]	
DFT-s-OFDM	1	1	23.25	23.23	23.28		0.0
	1	53	23.35	23.05	23.16	0	0.0
	1	104	23.41	23.08	23.31		0.0
$\pi/2$ BPSK	50	0	22.67	22.62	22.79	0-0.5	0.5
M/2 DI SIC	50	28	23.21	23.13	23.23	0	0.0
	50	56	22.74	22.60	22.84	0-0.5	0.5
	100	0	22.80	22.58	22.78		0.5
	1	1	22.74	23.30	22.96		0.0
	1	53	23.20	23.20	23.32	0	0.0
DET - OFDM	1	104	23.39	23.05	22.57	7	0.0
DFT-s-OFDM QPSK	50	0	22.00	22.20	22.15	0-1	1.0
QI OIL	50	28	23.28	23.16	23.27	0	0.0
	50	56	22.00	22.19	21.90	0-1	1.0
	100	0	22.28	22.15	22.11		1.0
DFT-s-OFDM 16QAM	1	1	21.61	22.26	21.90	0-1	1.0
CP-OFDM QPSK	1	1	21.20	21.95	21.26	0-1.5	1.5

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Table 9-28
NR Band n66 Reduced Conducted Powers - Hotspot Mode Active - 20 MHz Bandwidth

			NR Band 20 MHz Ban				
				Channel			
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)	MPR Allowed per 3GPP	MPR [dB]
			Con	Conducted Power [dBm]			
	1	1	16.03	15.84	15.85	0	0.0
	1	53	15.82	15.60	16.05		0.0
DET - OEDM	1	104	15.76	15.80	15.77	7 [0.0
DFT-s-OFDM π/2 BPSK	50	0	15.95	15.74	15.88	0-0.5	0.0
M 2 DFSK	50	28	15.93	15.68	15.96	0	0.0
	50	56	15.82	15.67	15.94	0-0.5	0.0
	100	0	15.79	15.67	15.81		0.0
	1	1	15.88	15.76	15.99		0.0
	1	53	15.84	15.61	15.95	0	0.0
DFT-s-OFDM	1	104	15.77	15.72	16.00	7 [0.0
QPSK	50	0	15.92	15.72	15.83	0-1	0.0
QI OIL	50	28	15.91	15.64	15.98	0	0.0
	50	56	15.83	15.66	15.97	0-1	0.0
	100	0	15.84	15.69	15.82	0-1	0.0
DFT-s-OFDM 16QAM	1	1	16.08	15.77	15.90	0-1	0.0
CP-OFDM QPSK	1	1	15.86	15.72	15.61	0-1.5	0.0

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Table 9-29
NR Band n66 Reduced Conducted Powers - Grip Sensor and/or Earjack Mode Active - 20 MHz Bandwidth

<u> </u>			NR Band 20 MHz Ban				
				Channel			
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)	MPR Allowed per 3GPP	MPR [dB]
			Cor	[dB]			
	1	1	20.75	20.49	20.71		0.0
	1	53	20.60	20.37	20.66	0	0.0
DET - OFDIA	1	104	20.66	20.45	20.80		0.0
DFT-s-OFDM π/2 BPSK	50	0	20.67	20.45	20.79	0-0.5	0.0
WZ BFSK	50	28	20.62	20.40	20.67	0	0.0
	50	56	20.70	20.34	20.77	0.05	0.0
	100	0	20.68	20.44	20.74	0-0.5	0.0
	1	1	20.77	20.54	20.78		0.0
	1	53	20.64	20.38	20.69	0	0.0
DET - OFDM	1	104	20.63	20.41	20.81		0.0
DFT-s-OFDM QPSK	50	0	20.67	20.42	20.72	0-1	0.0
QI SIX	50	28	20.67	20.36	20.73	0	0.0
	50	56	20.66	20.34	20.71	0-1	0.0
	100	0	20.67	20.38	20.69	7 0-1	0.0
DFT-s-OFDM 16QAM	1	1	20.68	20.52	20.57	0-1	0.0
CP-OFDM QPSK	1	1	20.54	20.38	20.41	0-1.5	0.0

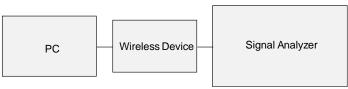


Figure 9-4
Power Measurement Setup

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WLAN Conducted Powers 9.5

Table 9-30 2.4 GHz WLAN Maximum Average RF Power - Ant 2

2.4GHz Conducted Power [dBm]						
Freq [MHz]	Channel	802.11b	802.11g	802.11n	802.11ax	
		Average	Average	Average	802.11ax Average 17.50 17.33 17.34	
2412	1	18.84	17.60	17.41	17.50	
2437	6	18.69	17.40	17.21	17.33	
2462	11	18.74	17.44	17.30	17.34	

Table 9-31 2.4 GHz WLAN Maximum Average RF Power - MIMO

2.4GHz 802.11b Conducted Power [dBm]						
Freq [MHz]	Channel	ANT1	ANT2	MIMO		
2412	1	18.60	18.55	21.59		
2437	6	18.89	18.86	21.89		
2462	11	18.56	18.82	21.70		

Table 9-32 5 GHz WLAN Maximum Average RF Power - Ant 1

	5GHz (20MHz) Conducted Power [dBm]						
		IEEE Transmission Mode					
Freq [MHz]	Channel	802.11a	802.11n	802.11ac	802.11ax		
		Average	Average	Average	Average		
5180	36	15.56	14.93	14.91	14.88		
5200	40	17.72	17.17	17.13	17.25		
5220	44	17.98	17.32	17.29	17.36		
5240	48	17.70	17.42	17.37	17.51		
5260	52	17.98	17.30	17.26	17.32		
5280	56	17.82	17.23	17.20	17.23		
5300	60	17.74	17.08	17.05	17.12		
5320	64	17.91	16.49	16.49	16.13		
5500	100	17.71	16.44	16.41	16.42		
5600	120	17.85	17.43	17.42	17.47		
5620	124	17.84	17.53	17.49	17.54		
5720	144	17.86	17.91	17.89	17.95		
5745	149	17.71	17.92	17.89	17.94		
5785	157	17.58	17.69	17.68	17.73		
5825	165	17.80	17.37	17.36	17.40		

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Table 9-33 5 GHz WLAN Maximum Average RF Power – MIMO

5GH	5GHz (20MHz) 802.11n Conducted Power [dBm]					
Freq [MHz]	Channel	ANT1	ANT2	MIMO		
5180	36	14.46	14.33	17.41		
5200	40	17.65	17.70	20.69		
5220	44	17.93	17.99	20.97		
5240	48	17.98	17.88	20.94		
5260	52	17.91	17.89	20.91		
5280	56	17.71	17.68	20.71		
5300	60	17.63	17.82	20.74		
5320	64	16.10	15.90	19.01		
5500	100	16.50	16.78	19.65		
5520	104	17.21	17.81	20.53		
5600	120	17.77	17.99	20.89		
5620	124	17.77	17.83	20.81		
5720	144	17.79	17.67	20.74		
5745	149	17.64	17.59	20.63		
5785	157	17.90	17.99	20.96		
5825	165	17.69	17.93	20.82		

Table 9-34
2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active or RCV active During
Conditions with 5 GHz WLAN and/or with 5G NR – Ant 2

2.4GHz Conducted Power [dBm]						
		IEEE Transmission Mode				
Freq [MHz]	Channel	802.11b	802.11g	802.11n	802.11ax	
		Average	Average	Average	802.11ax Average 12.34 12.37 12.36	
2412	1	12.76	12.47	12.26	12.34	
2437	6	12.72	12.50	12.32	12.37	
2462	11	12.73	12.41	12.24	12.36	

Table 9-35
2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active or RCV active During
Conditions with 5 GHz WLAN and/or with 5G NR (FR1) – MIMO

2.4GHz 802.11n Conducted Power [dBm]						
Freq [MHz]	Channel	ANT1	ANT2	MIMO		
2412	1	12.69	12.61	15.66		
2437	6	12.65	12.55	15.61		
2462	11	12.82	12.89	15.87		

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Table 9-36
5 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During
Conditions with 2.4 GHz WLAN and/or 5G NR – Ant 1

5GHz (80MHz) Conducted Power [dBm]						
		IEEE Transmission Mod				
Freq [MHz]	Channel	802.11ac	802.11ax			
		Average				
5210	42	10.55	10.43			
5290	58	10.75	10.71			
5530	106	10.73	10.11			
5610	122	10.82	10.40			
5690	138	10.66	10.69			
5775	155	10.81	10.79			

Table 9-37
5 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During
Conditions with 2.4 GHz WLAN and/or 5G NR – MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]						
Freq [MHz]	Channel	ANT1	ANT2	MIMO		
5210	42	10.69	10.60	13.66		
5290	58	10.88	10.98	13.94		
5530	106	10.80	10.97	13.90		
5610	122	10.89	10.98	13.95		
5690	138	10.73	10.77	13.76		
5775	155	10.85	10.78	13.83		

Table 9-38
2.4 GHz WLAN Reduced Average RF Power during Conditions with 5GHz WLAN and/or with 5G NR Ant 2

7 =						
2.4GHz Conducted Power [dBm]						
			ission Mode			
Freq [MHz]	Channel	802.11b	802.11g	802.11n	802.11ax	
		Average	Average	Average	Average	
2412	1	14.74	14.68	14.53	14.62	
2437	6	14.55	14.47	14.28	14.27	
2462	11	14.65	14.50	14.28	14.39	

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Table 9-39 2.4 GHz WLAN Reduced Average RF Power during Conditions with 5GHz WLAN and/or with 5G NR – MIMO

2.4GHz 802.11n Conducted Power [dBm]						
Freq [MHz] Channel ANT1 ANT2 MIMC						
2412	1	14.86	14.07	17.49		
2437	6	14.73	13.92	17.35		
2462	11	14.98	13.84	17.46		

Table 9-40 5 GHz WLAN Reduced Average RF Power during Conditions with 2.4 GHz WLAN and/or with 5G NR -Ant 1

5GHz (40MHz) Conducted Power [dBm]							
		IEEE Transmission Mode					
Freq [MHz]	Channel	802.11n 802.11ac		802.11ax			
		Average	Average	Average			
5190	38	13.82	13.82	13.88			
5230	46	14.67	14.49	14.62			
5270	54	14.65	14.98	14.62			
5310	62	14.60	14.95	14.57			

5GHz (80MHz) Conducted Power [dBm]						
		IEEE Transmission Mode				
Freq [MHz]	Channel	802.11ac	802.11ax			
		Average	Average			
5530	106	14.68	14.62			
5610	122	14.50	14.48			
5690	138	14.31	14.30			
5775	155	14.28	14.25			

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Table 9-41
5 GHz WLAN Reduced Average RF Power during Conditions with 2.4 GHz WLAN and/or with 5G NR – MIMO

5GHz (40MHz) 802.11n Conducted Power [dBm]						
Freq [MHz]	eq [MHz] Channel ANT1		ANT2	MIMO		
5190	38	13.90	13.47	16.70		
5230	46	14.57	14.66	17.63		
5270	54	14.52	14.68	17.61		
5310	62	14.98	14.65	17.83		
5GHz (80MHz) 802.11ac Conducted Power [dBm]						
5GH	z (80MHz) 802	2.11ac Conduc	cted Power [c	IBm]		
5GHz Freq [MHz]	z (80MHz) 802 Channel	ANT1	cted Power [c	IBm] MIMO		
	,		_	_		
Freq [MHz]	Channel	ANT1	ANT2	MIMO		
Freq [MHz] 5530	Channel 106	ANT1 14.47	ANT2 14.17	MIMO 17.33		

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

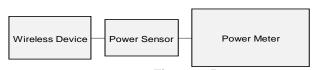


Figure 9-5
Power Measurement Setup

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9.6 **Bluetooth Conducted Powers**

Table 9-42 Bluetooth Antenna 1 Maximum Average RF Power

	Bluetooth Antenna i Maximum Average Ki i ower							
Frequency	Data Rate	Mod.	Power	Channel	•	nducted wer		
[MHz]	[Mbps]	iiiou.	Scheme	No.	[dBm]	[mW]		
2402	1.0	GFSK	ePA	0	14.92	31.046		
2441	1.0	GFSK	ePA	39	15.55	35.892		
2480	1.0	GFSK	ePA	78	14.75	29.854		
2402	2.0	π/4-DQPSK	ePA	0	12.73	18.750		
2441	2.0	π/4-DQPSK	ePA	39	13.38	21.777		
2480	2.0	π/4-DQPSK	ePA	78	12.56	18.030		
2402	3.0	8DPSK	ePA	0	12.75	18.836		
2441	3.0	8DPSK	ePA	39	13.36	21.677		
2480	3.0	8DPSK	ePA	78	12.73	18.750		

Table 9-43 Bluetooth Antenna 2 Maximum Average RF Power

Frequency	Data Rate	Mod.	Power	Channel	_	nducted wer
[MHz]	[Mbps]	WOU.	Scheme		[dBm]	[mW]
2402	1.0	GFSK	ePA	0	15.26	33.574
2441	1.0	GFSK	ePA	39	16.55	45.186
2480	1.0	GFSK	ePA	78	16.60	45.709
2402	2.0	π/4-DQPSK	ePA	0	13.13	20.559
2441	2.0	π/4-DQPSK	ePA	39	14.15	26.002
2480	2.0	π/4-DQPSK	ePA	78	13.28	21.281
2402	3.0	8DPSK	ePA	0	13.06	20.230
2441	3.0	8DPSK	ePA	39	13.48	22.284
2480	3.0	8DPSK	ePA	78	14.48	28.054

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Table 9-44 Bluetooth Antenna 1 BT Reduced 5G NR Active

Frequen	Data Rate	Mod.	Power	Channel	Avg Cor Pov	nducted wer
cy [MHz]	[Mbps]	WOG.	Scheme	Scheme No.	[dBm]	[mW]
2402	1.0	GFSK	ePA	0	12.41	17.398
2441	1.0	GFSK	ePA	39	13.11	20.446
2480	1.0	GFSK	ePA	78	12.33	17.104

Table 9-45 Bluetooth Antenna 2 BT Reduced 5G NR Active

Frequen	Data Rate	Mod.	Power	Channel	Avg Cor Pov	
cy [MHz]	[Mbps]	WOU.	Scheme No.	[dBm]	[mW]	
2402	1.0	GFSK	ePA	0	12.96	19.751
2441	1.0	GFSK	ePA	39	13.25	21.120
2480	1.0	GFSK	ePA	78	13.67	23.259

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Table 9-46 Bluetooth Antenna 1 BT Reduced RCV Active Conducted Power

Frequen	Data Rate	Mod.	Power Channel Power Power			
cy [MHz]	[Mbps]	WOU.	Scheme	No.	[dBm]	[mW]
2402	1.0	GFSK	GFSK ePA 0 7.50		5.628	
2441	1.0	GFSK ePA 39 8.43		6.966		
2480	1.0	GFSK	K ePA 78 7.62		5.778	

Table 9-47 Bluetooth Antenna 2 BT Reduced RCV Active Conducted Power

Frequen	Data Rate	Mod.	Power Channel		Avg Cor Pov	
cy [MHz]	[Mbps]	Wiod:	Scheme	No.	[dBm]	[mW]
2402	1.0	GFSK	ePA	0	7.85	6.098
2441	1.0	GFSK	ePA	39	8.99	7.931
2480	1.0	GFSK	ePA	78	9.44	8.785

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Keysight Spectrum Analyzer - Swept SA - - X SENSE:INT ALIGN AUTO 07:12:09 PM Apr 28, 2021 Frequency TRACE 1 2 3 4 5 6

TYPE WWWWWW
DET P NNNNN #Avg Type: RMS Trig: Video PNO: Fast → Atten: 36 dB IFGain:Low **Auto Tune** ΔMkr3 3.750 ms 0.04 dB 10 dB/div Log**√** Ref 25.00 dBm <u>⟨</u>⟩1 63Δ1 <<u></u>
<a>2∆
1 **Center Freq** 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz Center 2.441000000 GHz **CF Step** Res BW 8 MHz #VBW 50 MHz Sweep 10.00 ms (1001 pts) 8.000000 MHz Man <u>Auto</u> FUNCTION | FUNCTION WIDTH 3.730 ms 2.880 ms (Δ) 3.750 ms (Δ) 0.18 dB 0.04 dB **Freq Offset** 0 Hz **Scale Type** 10

Figure 9-6 **Bluetooth Antenna 1 Transmission Plot**

Equation 9-1 Bluetooth Antenna 1 Duty Cycle Calculation

STATUS

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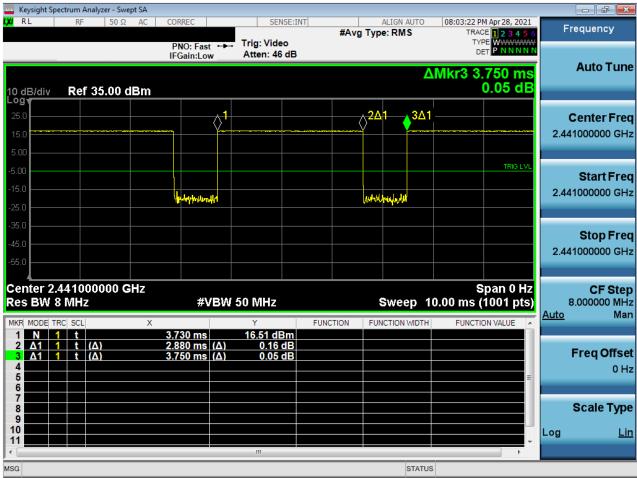
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$$Duty \ Cycle = \frac{Pulse \ Width}{Period} * 100\% = \frac{2.88ms}{3.75ms} * 100\% = 76.8\%$$

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Figure 9-7
Bluetooth Antenna 2 Transmission Plot



Equation 9-2 Bluetooth Antenna 2 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period}*100\% = \frac{2.88ms}{3.75ms}*100\% = 76.8\%$$

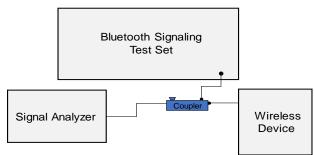


Figure 9-8
Power Measurement Setup

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10 SYSTEM VERIFICATION

10.1 **Tissue Verification**

Table 10-1 Measured Head Tissue Properties (1 of 2)

Measured nead Tissue Properties (1 of 2)									
Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
			680	0.870	40.375	0.888	42.305	-2.03%	-4.56%
			695	0.875	40.325	0.889	42.227	-1.57%	-4.50%
			700	0.876	40.310	0.889	42.201	-1.46%	-4.48%
			710	0.880	40.282	0.890	42.149	-1.12%	-4.43%
09/07/2021	750 Head	21.2	725	0.885	40.247	0.891	42.071	-0.67%	-4.34%
			750	0.894	40.187	0.894	41.942	0.00%	-4.18%
			770	0.901	40.125	0.895	41.838	0.67%	-4.09%
			785	0.906	40.074	0.896	41.760	1.12%	-4.04%
			800	0.911	40.026	0.897	41.682	1.56%	-3.97%
			815	0.875	41.370	0.898	41.594	-2.56%	-0.54%
09/01/2021	835 Head	22.7	820	0.880	41.309	0.899	41.578	-2.11%	-0.65%
09/01/2021	oss neau	22.7	835	0.896	41.128	0.900	41.500	-0.44%	-0.90%
			850	0.911	40.945	0.916	41.500	-0.55%	-1.34%
	835 Head		815	0.932	40.087	0.898	41.594	3.79%	-3.62%
09/04/2021		21.0	820	0.934	40.067	0.899	41.578	3.89%	-3.63%
09/04/2021			835	0.939	40.012	0.900	41.500	4.33%	-3.59%
			850	0.945	39.958	0.916	41.500	3.17%	-3.72%
	1750 Head	40.0	1710	1.337	39.088	1.348	40.142	-0.82%	-2.63%
			1720	1.344	39.072	1.354	40.126	-0.74%	-2.63%
08/31/2021			1745	1.361	39.037	1.368	40.087	-0.51%	-2.62%
06/31/2021		19.0	1750	1.363	39.029	1.371	40.079	-0.58%	-2.62%
			1770	1.375	38.993	1.383	40.047	-0.58%	-2.63%
			1790	1.387	38.956	1.394	40.016	-0.50%	-2.65%
			1850	1.393	39.500	1.400	40.000	-0.50%	-1.25%
			1860	1.404	39.453	1.400	40.000	0.29%	-1.37%
08/22/2021	1900 Head	22.1	1880	1.425	39.367	1.400	40.000	1.79%	-1.58%
06/22/2021	1900 Head	22.1	1900	1.446	39.284	1.400	40.000	3.29%	-1.79%
			1905	1.452	39.263	1.400	40.000	3.71%	-1.84%
			1910	1.457	39.240	1.400	40.000	4.07%	-1.90%
			1850	1.386	39.131	1.400	40.000	-1.00%	-2.17%
			1860	1.397	39.087	1.400	40.000	-0.21%	-2.28%
00/40/2024	1000 Hood	22.7	1880	1.418	39.005	1.400	40.000	1.29%	-2.49%
09/19/2021	1900 Head	22.7	1900	1.440	38.927	1.400	40.000	2.86%	-2.68%
			1905	1.445	38.906	1.400	40.000	3.21%	-2.74%
			1910	1.450	38.885	1.400	40.000	3.57%	-2.79%

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Table 10-2 Measured Head Tissue Properties (2 of 2)

		issue Properties (2 of 2)							
Calibrated for		Tissue Temp	Measured	Measured	Measured	TARGET	TARGET		
Tests	Tissue Type	During	Frequency	Conductivity,	Dielectric	Conductivity,	Dielectric	% dev σ	% dev ε
Performed on:		Calibration (°C)	(MHz)	σ (S/m)	Constant, ε	σ (S/m)	Constant, ε		
			2400	1.827	38.690	1.756	39.289	4.04%	-1.52%
08/16/2021	2450 Head	23.9	2450	1.865	38.616	1.800	39.200	3.61%	-1.49%
			2480	1.886	38.578	1.833	39.162	2.89%	-1.49%
			2400	1.804	38.140	1.756	39.289	2.73%	-2.92%
			2450	1.842	38.026	1.800	39.200	2.33%	-2.99%
			2480	1.867	38.020	1.833	39.162	1.85%	-2.92%
			2500	1.881	37.996	1.855	39.136	1.40%	-2.91%
			2510	1.887	37.972	1.866	39.123	1.13%	-2.94%
08/26/2021	2450 Head	21.9	2535	1.904	37.897	1.893	39.092	0.58%	-3.06%
			2550	1.917	37.864	1.909	39.073	0.42%	-3.09%
			2560	1.927	37.847	1.920	39.060	0.36%	-3.11%
			2600	1.961	37.824	1.964	39.009	-0.15%	-3.04%
			2650	1.993	37.694	2.018	38.945	-1.24%	-3.21%
			2680	2.021	37.642	2.051	38.907	-1.46%	-3.25%
			2700	2.037	37.636	2.073	38.882	-1.74%	-3.20%
			5180	4.478	34.731	4.635	36.009	-3.39%	-3.55%
			5190	4.489	34.718	4.645	35.998	-3.36%	-3.56%
			5200	4.497	34.699	4.655	35.986	-3.39%	-3.58%
			5210	4.505	34.680	4.666	35.975	-3.45%	-3.60%
			5220	4.515	34.664	4.676	35.963	-3.44%	-3.61%
			5240	4.539	34.619	4.696	35.940	-3.34%	-3.68%
			5250	4.550	34.589	4.706	35.929	-3.31%	-3.73%
			5260	4.561	34.564	4.717	35.917	-3.31%	-3.77%
			5270	4.574	34.552	4.727	35.906	-3.24%	-3.77%
			5280	4.586	34.545	4.737	35.894	-3.19%	-3.76%
			5290 5300	4.597	34.535	4.748 4.758	35.883 35.871	-3.18%	-3.76%
			5310	4.607 4.618	34.533 34.523	4.768	35.860	-3.17% -3.15%	-3.73% -3.73%
			5320	4.630	34.510	4.778	35.849	-3.10%	-3.74%
			5500	4.832	34.229	4.778	35.643	-2.64%	-3.74%
			5510	4.845	34.229	4.903	35.632	-2.57%	-3.97%
			5520	4.859	34.216	4.983	35.620	-2.49%	-3.97%
			5530	4.874	34.192	4.994	35.609	-2.40%	-3.98%
			5540	4.886	34.177	5.004	35.597	-2.36%	-3.99%
			5550	4.897	34.158	5.014	35.586	-2.33%	-4.01%
			5560	4.908	34.148	5.024	35.574	-2.31%	-4.01%
08/24/2021	5200-5800 Head	21.4	5580	4.931	34.117	5.045	35.551	-2.26%	-4.03%
			5600	4.952	34.075	5.065	35.529	-2.23%	-4.09%
			5610	4.964	34.058	5.076	35.518	-2.21%	-4.11%
			5620	4.975	34.043	5.086	35.506	-2.18%	-4.12%
			5640	4.995	34.017	5.106	35.483	-2.17%	-4.13%
			5660	5.018	33.991	5.127	35.460	-2.13%	-4.14%
			5670	5.030	33.978	5.137	35.449	-2.08%	-4.15%
			5680	5.040	33.969	5.147	35.437	-2.08%	-4.14%
			5690	5.050	33.952	5.158	35.426	-2.09%	-4.16%
			5700	5.061	33.929	5.168	35.414	-2.07%	-4.19%
			5710	5.072	33.907	5.178	35.403	-2.05%	-4.23%
			5720	5.083	33.889	5.188	35.391	-2.02%	-4.24%
			5745	5.110	33.854	5.214	35.363	-1.99%	-4.27%
			5750	5.115	33.847	5.219	35.357	-1.99%	-4.27%
			5755	5.121	33.840	5.224	35.351	-1.97%	-4.27%
			5765	5.130	33.824	5.234	35.340	-1.99%	-4.29%
			5775	5.138	33.806	5.245	35.329	-2.04%	-4.31%
			5785	5.146	33.788	5.255	35.317	-2.07%	-4.33%
			5795	5.156	33.766	5.265	35.305	-2.07%	-4.36%
			5805	5.165	33.751	5.275	35.294	-2.09%	-4.37%
			วซบว						

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Table 10-3 Measured Body Tissue Properties (1 of 3)

Measured Body Tissue Properties (1 of 3)									
Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
			680	0.953	53.187	0.958	55.804	-0.52%	-4.69%
			695	0.958	53.137	0.959	55.745	-0.10%	-4.68%
			700	0.960	53.124	0.959	55.726	0.10%	-4.67%
			710	0.963	53.100	0.960	55.687	0.31%	-4.65%
08/20/2021	750 Body	21.7	725	0.968	53.071	0.961	55.629	0.73%	-4.60%
			750	0.978	53.026	0.964	55.531	1.45%	-4.51%
			770	0.985	52.980	0.965	55.453	2.07%	-4.46%
			785	0.991	52.935	0.966	55.395	2.59%	-4.44%
			800	0.996	52.894	0.967	55.336	3.00%	-4.41%
			680	0.945	53.885	0.958	55.804	-1.36%	-3.44%
			695	0.950	53.846	0.959	55.745	-0.94%	-3.41%
			700	0.952	53.833	0.959	55.726	-0.73%	-3.40%
			710	0.956	53.807	0.960	55.687	-0.42%	-3.38%
08/23/2021	750 Body	21.8	725	0.962	53.769	0.961	55.629	0.10%	-3.34%
			750	0.971	53.715	0.964	55.531	0.73%	-3.27%
			770	0.978	53.664	0.965	55.453	1.35%	-3.23%
			785	0.984	53.620	0.966	55.395	1.86%	-3.20%
			800	0.989	53.582	0.967	55.336	2.28%	-3.17%
			680	0.937	53.847	0.958	55.804	-2.19%	-3.51%
		21.7	695	0.940	53.848	0.959	55.745	-1.98%	-3.40%
			700	0.941	53.843	0.959	55.726	-1.88%	-3.38%
			710	0.944	53.821	0.960	55.687	-1.67%	-3.35%
08/30/2021	750 Body		725	0.950	53.753	0.961	55.629	-1.14%	-3.37%
			750	0.963	53.623	0.964	55.531	-0.10%	-3.44%
			770	0.971	53.577	0.965	55.453	0.62%	-3.38%
			785	0.976	53.572	0.966	55.395	1.04%	-3.29%
			800	0.979	53.579	0.967	55.336	1.24%	-3.18%
			815	0.922	53.136	0.968	55.271	-4.75%	-3.86%
08/23/2021	835 Body	22.4	820	0.927	53.093	0.969	55.258	-4.33%	-3.92%
06/23/2021	633 Bouy	22.4	835	0.943	52.956	0.970	55.200	-2.78%	-4.07%
			850	0.959	52.805	0.988	55.154	-2.94%	-4.26%
			815	0.922	53.430	0.968	55.271	-4.75%	-3.33%
08/25/2021	835 Body	22.6	820	0.927	53.386	0.969	55.258	-4.33%	-3.39%
00/20/2021	oss bouy	22.0	835	0.943	53.258	0.970	55.200	-2.78%	-3.52%
			850	0.959	53.119	0.988	55.154	-2.94%	-3.69%
			815	0.922	53.745	0.968	55.271	-4.75%	-2.76%
08/27/2021	835 Body	21.9	820	0.927	53.700	0.969	55.258	-4.33%	-2.82%
00/21/2021	oss budy	21.5	835	0.943	53.569	0.970	55.200	-2.78%	-2.95%
			850	0.959	53.432	0.988	55.154	-2.94%	-3.12%
			815	0.923	53.438	0.968	55.271	-4.65%	-3.32%
08/31/2021	835 Body	22.0	820	0.928	53.394	0.969	55.258	-4.23%	-3.37%
00/31/2021	oss bouy	22.8	835	0.943	53.266	0.970	55.200	-2.78%	-3.50%
			850	0.959	53.134	0.988	55.154	-2.94%	-3.66%

FCC ID: A3LSMF711B1	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Do ao 70 of 400
1M2108160097-01.A3L (Rev 1)	08/14/2021 - 09/19/2021	Portable Handset	Page 72 of 192

Table 10-4 Measured Body Tissue Properties (2 of 3)

Calibration Tassis Tassi			WEasureu	Dody i	13346 1 1	oper iles	(2 01 3)			
1750 Body 1750 Body 1435 1436 1436 1436 1435 1436	Tests	Tissue Type	During	Frequency	Conductivity,	Dielectric	Conductivity,	Dielectric	% dev σ	% dev ε
0819/2021 1750 Body 23.6										
1750 1.488 51.121 1.488 53.452 2.02* 4.33* 1770 1.480 51.044 1.501 53.379 1.476 4.37* 1770 1.480 51.044 1.501 53.379 1.476 4.37* 1710 1.444 51.482 1.483 53.57 1.736 3.89* 1720 1.485 51.428 1.489 53.511 0.09* 3.89* 1720 1.485 51.428 1.489 53.511 0.09* 3.89* 1720 1.486 51.324 1.488 53.452 0.00* 3.89* 1720 1.486 51.324 1.488 53.452 0.00* 3.99* 1720 1.481 51.328 1.485 53.452 0.00* 3.99* 1720 1.511 51.200 1.501 53.379 0.06* 3.99* 1720 1.511 51.200 1.501 53.379 0.06* 3.99* 1720 1.511 51.200 1.511 53.356 1.12* 1720 1.520 51.433 1.485 53.577 1.27* 4.28* 1720 1.482 51.334 1.485 53.577 1.27* 4.28* 1720 1.482 51.233 1.486 53.57* 1.27* 4.28* 1720 1.482 51.233 1.486 53.57* 1.27* 4.28* 1720 1.520 51.133 1.485 53.452 2.00* 4.28* 1720 1.520 51.133 1.485 53.452 2.00* 4.28* 1720 1.520 51.133 1.485 53.452 2.00* 4.28* 1720 1.520 51.133 1.485 53.452 2.00* 4.28* 1720 1.520 51.133 1.485 53.452 2.00* 4.28* 1720 1.520 51.133 1.485 53.452 2.00* 4.28* 1720 1.530 51.134 1.488 53.452 2.00* 4.28* 1720 1.530 51.134 1.485 53.452 2.00* 4.28* 1720 1.570 1.506 51.124 1.488 53.452 2.00* 4.28* 1720 1.570 1.580 51.124 1.488 53.452 2.00* 4.28* 1720 1.570 1.580 51.124 1.488 53.452 2.00* 4.28* 1720 1.570 1.580 51.124 1.488 53.452 2.00* 4.28* 1720 1.570 1.580 51.024 1.485 53.577 1.77* 1.520 1.530 1.540 1.485 53.577 1.77* 1.520 1.530 1.540 1.485 53.577 1.78* 1.720 1.569 51.024 1.485 53.577 1.78* 1.720 1.580 51.024 1.485 53.452 3.00* 3.00* 1.720 1.580 51.024 1.485 53.305 3.0** 1.720 1.580 51.501 1.500 53.300 0.										
1750	08/19/2021	1750 Body	23.6							
1790 1.502 50.963 1.514 53.366 -0.796 4.436 -0.796 4.436 -0.796 4.436 -0.796 -0.796 -0.796		,								
08/27/2021 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.4 1750 Body 22.5 1750 Body 22.5 1750 Body 22.5 1750 Body 22.5 1750 Body 22.5 1750 Body 22.5 1750 Body 22.5 1750 Body 22.5 1750 Body 22.5 1750 Body 22.5 1750 Body 22.5 1750 Body 22.4 1750 Body										
1750 Body 22.4 1750 Body 22.4 1760 1465 51.462 51.343 1.468 53.445 53.4										
09/07/2021 1750 Body 2.2.4										
08/29/2021 1750 Body 22.4 1750 1.488 51.324 1.488 51.324 0.00% 3.99% 1.99% 1.790 1.531 7.50 51.5										
1770	08/27/2021	1750 Body	22.4							
1790										
08/29/2021 1750 Body 20.9										
1720										
1750 Body 1750 Body 1750 1500 51,142 1.485 53,445 2.29% 4.37% 1770 1.548 51,124 1.488 53,326 2.29% 4.37% 1770 1.548 51,046 1.501 53,370 3.15% 4.37% 1770 1.548 51,046 1.501 53,370 3.15% 4.37% 1770 1.548 51,046 1.501 53,370 3.15% 4.37% 1770 1.484 52,120 1.548 53,348 53,328 3.70% 2.25% 4.22% 1.548 52,120 1.548 53,348 53,328 1.37% 2.25% 1.22% 1.489 53,511 1.70% 2.26% 1.528 52,005 1.488 53,432 2.69% 2.67% 1.570 1.528 52,005 1.488 53,432 2.69% 2.67% 1.570 1.528 52,005 1.488 53,432 2.69% 2.67% 1.570 1.570 1.589 1.519 1.510 53,379 3.20% 2.27% 1.570 1.571 51,838 1.514 53,326 3.76% 2.27% 1.570 1.571 51,838 1.514 53,326 3.27% 2.27% 3.20% 1.571 51,838 1.514 53,326 3.27% 2.27% 3.20% 3.27% 3.20% 3.27% 3.20% 3.27% 3.20% 3.27% 3.20% 3.27% 3.20% 3.20% 3.27% 3.20%										
1750 Body										
1770	08/29/2021	1750 Body	20.9							
08/07/2021 1750 Body 21.4 1770 1.550 80.800 1.514 83.326 3.70% 4.42% 1750 1.483 85.160 1.483 85.357 1.27% 2.260% 2.60% 1770 1.543 85.2160 1.488 53.451 1.70% 2.260% 1770 1.588 55.205 1.485 53.445 2.260% 2.260% 1770 1.588 55.205 1.485 53.445 2.260% 2.260% 1.770 1.589 51.919 1.501 53.379 3.20% 2.27% 1780 1.571 51.838 1.514 53.36 3.70% 2.27% 1790 1.571 51.838 1.514 53.36 3.70% 2.27% 1770 1.589 51.919 1.501 53.379 3.20% 2.27% 1770 1.580 51.894 1.1601 53.379 3.20% 2.27% 1770 1.580 51.894 1.1601 53.379 3.20% 2.27% 1770 1.580 51.894 1.1601 53.379 3.40% 2.360% 1770 1.580 51.894 1.1601 53.379 4.40% 3.360% 1770 1.580 51.894 1.1601 53.379 4.40% 3.360% 1770 1.580 51.894 1.1601 53.379 4.40% 3.37% 1.501 53.379 4.40% 3.37% 1.501 53.379 4.40% 3.37% 1.501 53.379 4.40% 3.37% 1.500 53.300 1.20% 3.366% 1.500 51.451 1.501 53.379 4.40% 3.37% 1.800 51.801 51.565 51.451 1.501 53.379 4.40% 3.37% 1.800 51.565 51.451 1.500 53.300 0.39% 3.45% 1.800 51.565 51.451 1.500 53.300 0.39% 3.45% 1.800 51.565 51.451 1.500 53.300 0.39% 3.45% 1.800 51.565 51.451 1.500 53.300 0.39% 3.45% 1.800 51.565 51.364 1.500 53.300 0.39% 3.45% 1.800 51.365 51.364 1.500 53.300 0.39% 3.400% 1.500 51.368 51.364 1.500 53.300 0.47% 3.45% 1.800 51.565 51.264 1.500 53.300 0.47% 3.45% 1.800 51.565 51.264 1.500 53.300 0.47% 3.45% 1.800 51.565 51.264 1.500 53.300 0.47% 3.45% 1.800 51.565 51.264 1.500 53.300 0.47% 3.45% 1.800 51.565 51.264 1.500 53.300 0.47% 3.45% 1.800 51.565 51.264 1.500 53.300 0.47% 3.45% 1.800 51.565 51.264 1.500 53.300 0.400 3.45% 3.450 51.800 51.560 51.364 1.500 53.300 0.400 3.45% 3.450 51.800 51.560 51.364 1.500 53.300 0.400 3.45% 3.450 51.800 51.560 51.364 1.500 53.300 0.400 3.45% 3.450 51.800 51.560 51.360 51.560 51.360 0.300 0.400 3.45% 3.450 51.560 51.360 51.560 51.560 51.360 0.300 0.400 3.45% 3.450 51.560										
09/05/2021										
09/07/2021										
99/05/2021 1750 Body 21.4 1750 1.528 52.005 1.488 53.432 2.69% 2.67% 1770 1.549 51.919 1.501 53.378 3.20% 2.27% 1790 1.571 51.838 1.514 53.326 3.20% 2.27% 1790 1.571 51.838 1.514 53.326 3.20% 2.27% 1790 1.571 51.838 1.514 1.469 53.511 2.79% 3.20% 2.32% 1.40 1.488 51.624 1.469 53.511 2.79% 3.20% 3.20% 3.20% 3.20% 3.27% 3.20						-				
08/27/2021 1900 Body 23.2 1800 1.528 52.005 1.488 53.342 2.69% 2.27% 1790 1.584 51.919 1.501 53.379 3.20% 2.27% 1790 1.571 51.838 1.514 53.326 3.76% 2.27% 3.60% 1720 1.510 51.584 1.463 53.53.57 2.39% 3.26% 3.25% 3.25% 1720 1.510 51.584 1.469 53.511 2.79% 3.260% 1700 1.510 51.584 1.469 53.511 2.79% 3.260% 1700 1.510 1.530 51.584 1.469 53.511 2.79% 3.260% 1700 1.510 1.530 51.584 1.469 53.511 2.79% 3.260% 1700 1.510 1.530 51.584 1.469 53.511 2.79% 3.260% 1700 1.550 1.546 51.470 1.488 53.345 3.75% 3.260% 1700 1.550 1.554 51.499 1.485 53.445 3.57% 3.260% 1700 1.550 1.554 51.491 1.501 53.379 4.40% 3.27% 1700 1.5567 51.391 1.501 53.379 4.40% 3.27% 1700 1.5567 51.391 1.501 53.379 4.40% 3.27% 1700 1.5569 51.321 1.514 53.326 4.95% 3.278% 3.278% 1800 1.537 51.411 1.520 53.300 0.39% 3.24% 1800 1.537 51.411 1.520 53.300 1.263% 3.264 59.50% 1.250 1.520 53.300 2.263% 3.265% 1.520 1.520 53.300 2.263% 3.265% 1.520 53.300 3.265% 3.265% 1.520 53.300 3.265% 3.265% 1.520 53.300 4.47% 3.28% 1.520 53.300 4.47% 3.28% 1.520 53.300 4.47% 3.28% 1.520 53.300 4.47% 3.28% 1.520 53.300 4.47% 3.28% 1.520 53.300 4.47% 3.28% 1.520 53.300 4.47% 3.28% 1.520 53.300 4.265% 3.275% 4.4115 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.265% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4.445% 4.425% 1.520 53.300 4	00/05/0004	.=== 5		1745	1.523	52.025	1.485			
09/07/2021	09/05/2021	1/50 Body	21.4	1750	1.528	52.005	1.488	53.432	2.69%	-2.67%
08/07/2021				1770	1.549	51.919	1.501	53.379	3.20%	-2.74%
08/07/2021				1790	1.571	51.838	1.514	53.326	3.76%	-2.79%
99/07/2021 1750 Body 21.4				1710	1.498	51.624	1.463	53.537	2.39%	-3.57%
98/07/2021 1750 Body 21.4 1750 1.544 51.470 1.488 53.432 3.76% 3.67% 1770 1.569 51.391 1.501 53.337 4.40% 3.72% 1790 1.589 51.312 1.514 53.326 4.69% 3.72% 1850 1.526 51.451 1.520 53.300 0.39% 3.47% 1860 1.537 51.411 1.520 53.300 1.12% 3.66% 1900 1.583 51.276 1.520 53.300 2.63% 3.68% 1900 1.583 51.276 1.520 53.300 4.47% 3.85% 1900 1.583 51.276 1.520 53.300 4.47% 3.85% 1910 1.584 51.250 1.520 53.300 4.47% 3.85% 1910 1.586 51.185 1.520 53.300 3.39% 3.30% 1860 1.536 51.185 1.520 53.300 3.47% 3.68% 3.85% 1910 1.594 51.250 1.520 53.300 3.39% 3.30% 1860 1.536 51.185 1.520 53.300 2.63% 3.30% 1860 1.536 51.185 1.520 53.300 4.47% 3.85% 1860 1.536 51.185 1.520 53.300 3.47% 4.47% 3.85% 1860 1.536 51.185 1.520 53.300 3.39% 3.30% 1860 1.536 51.185 1.520 53.300 3.39% 4.47% 4.27% 1860 1.536 51.185 1.520 53.300 4.47% 4.27% 1910 1.581 51.040 1.520 53.300 4.47% 4.27% 1910 1.581 51.040 1.520 53.300 4.47% 4.27% 1910 1.583 51.010 1.520 53.300 4.47% 4.27% 1910 1.583 51.010 1.520 53.300 4.47% 4.27% 1910 1.593 51.010 1.520 53.300 4.47% 4.27% 1910 1.593 51.010 1.520 53.300 4.47% 4.27% 1910 1.593 51.010 1.520 53.300 2.00% 4.47% 1900 1.577 50.702 1.520 53.300 2.00% 4.47% 1900 1.577 50.702 1.520 53.300 2.00% 4.47% 1900 1.577 50.702 1.520 53.300 2.00% 4.47% 1900 1.581 50.0767 1.520 53.300 3.27% 4.48% 1900 1.577 50.702 1.520 53.300 3.26% 4.27% 1910 1.528 51.644 1.520 53.300 4.66% 2.75% 1910 1.528 51.644 1.520 53.300 1.36% 2.75% 1910 1.528 51.644 1.520 53.300 1.36% 2.75% 1910 1.528 51.644 1.520 53.300 1.36% 2.26% 1900 1.577 50.702 1.520 53.300 1.36% 2.26% 1900 1.577 50.702 1.520 53.300 1.36% 2.25% 1900 1.577 50.702 1.520 53.300 1.36% 2.25% 1900 1.520 50.66% 1.520 53.300 1.36% 2.25% 1900 1.520 50.66% 1.520 53.300 1.36% 2.25% 1900 1.520 50.66% 1.520 53.300 1.36% 2.25% 1900 1.520 50.66% 1.520 53.300 1.36% 2.25% 1900 1.520 50.66% 1.520 53.300 1.00% 2.28% 1900 1.520 50.66% 1.520 53.300 1.00% 2.28% 1900 1.520 50.66% 1.520 53.300 1.00% 2.28% 1900 1.520 50.66% 1.520 53.300 1.00% 2.28% 1900 1.520 50.66% 1.520 53.300 1.00% 2.28% 1900 1.520 50.66% 1.				1720	1.510	51.584	1.469	53.511	2.79%	-3.60%
1750 1.584 51.470 1.488 53.432 3.76% 3.37% 3.75% 3.27% 1790 1.587 51.312 1.514 53.326 4.09% 3.72% 3.78% 3.27% 3.	00/07/2021	1750 Pody	21.4	1745	1.538	51.489	1.485	53.445	3.57%	-3.66%
08/25/2021 1900 Body 23.2 1850 1.526 51.312 1.514 53.326 4.95% 2.378% 1.369% 1.526 51.3512 51.520 53.300 0.33% 1.37% 1.354% 1.520 53.300 1.12% 1.354% 1.354% 1.520 53.300 1.12% 1.354% 1.354% 1.520 53.300 1.12% 1.354% 1.354% 1.520 53.300 1.12% 1.354% 1.354% 1.520 53.300 1.12% 1.354% 1.354% 1.520 53.300 1.12% 1.354% 1.354% 1.520 53.300 1.12% 1.354% 1.352% 1.520 53.300 1.12% 1.354% 1.352% 1.520 53.300 1.12% 1.354% 1.352% 1.352% 1.520 53.300 1.12% 1.354% 1.352% 1.352% 1.520 53.300 1.05% 1.358% 1.520 53.300 1.05% 1.358% 1.520 53.300 1.05% 1.358% 1.520 53.300 1.05% 1.358% 1.520 53.300 1.05% 1.354% 1.352% 1.520 53.300 1.05% 1.354% 1.352% 1	09/07/2021	1730 Body	21.4	1750	1.544	51.470	1.488	53.432	3.76%	-3.67%
08/25/2021 1900 Body 23.2 1880 1.526 51.451 1.520 53.300 0.39% -3.47% -3.64%				1770	1.567	51.391	1.501	53.379	4.40%	-3.72%
08/25/2021 1900 Body 23.2 1900 Body 23.2 1900 Body 23.2 1900 Body 23.2 1900 Body 23.3 1880 1.580 51.338 1.520 53.300 1.12% 3.68% 1900 1.583 51.276 1.520 53.300 1.44% 3.30% 1905 1.588 51.264 1.520 53.300 1.47% 3.30% 1905 1.588 51.264 1.520 53.300 1.47% 3.82% 1900 1.594 51.250 1.520 53.300 1.47% 3.82% 1800 1.526 51.222 1.520 53.300 1.05% 3.93% 3.30% 1860 1.536 51.185 1.520 53.300 1.05% 3.97% 1860 1.536 51.185 1.520 53.300 1.05% 3.97% 1860 1.536 51.185 1.520 53.300 1.05% 3.97% 1900 1.581 51.040 1.520 53.300 1.05% 4.47% 4.24% 1905 1.587 51.026 1.520 53.300 1.05% 4.47% 4.24% 1905 1.587 51.026 1.520 53.300 1.05% 4.47% 4.24% 1905 1.587 51.026 1.520 53.300 1.05% 4.47% 4.22% 1905 1.587 51.026 1.520 53.300 1.05% 4.47% 4.22% 1905 1.587 51.026 1.520 53.300 1.05% 4.47% 4.22% 1905 1.587 51.026 1.520 53.300 0.66% 4.67% 1910 1.593 51.010 1.520 53.300 0.66% 4.67% 1910 1.593 51.010 1.520 53.300 0.66% 4.67% 1910 1.593 51.010 1.520 53.300 0.66% 4.67% 1860 1.520 53.300 0.66% 4.47% 4.48% 1860 1.520 50.836 1.520 53.300 0.66% 4.46% 4.85% 1860 1.520 50.836 1.520 53.300 0.66% 4.46% 4.85% 1860 1.572 50.717 1.520 53.300 0.66% 4.48%				1790	1.589	51.312	1.514	53.326	4.95%	-3.78%
1900 Body 1,560 51,338 1,520 53,300 2,63% -3,68% 1,900 1,583 51,276 1,520 53,300 4,14% -3,869% 1,900 1,583 51,264 1,520 53,300 4,14% -3,869% 1,900 1,581 51,264 1,520 53,300 4,47% -3,829% 1,900 1,525 51,222 1,520 53,300 4,87% -3,859% 1,520 51,300 1,53				1850				53.300	0.39%	
1900 Body 23.2 1900 1.583 51.276 1.520 53.300 4.14% -3.80% 1905 1.588 51.264 1.520 53.300 4.47% -3.82% 1850 1.525 51.222 1.520 53.300 0.33% -3.90% 1860 1.536 51.185 1.520 53.300 0.33% -3.90% 1860 1.536 51.185 1.520 53.300 0.33% -3.90% 1860 1.536 51.185 1.520 53.300 0.257% -4.17% 1.540 1.52										
08/27/2021 1900 Body 23.3 1900 1.583 51.276 1.520 53.300 4.47% -3.82% 1.520 1.530 53.300 4.47% -3.82% 1.520 1.520 53.300 4.87% -3.85% 1.520 1.520 53.300 1.487% -3.85% 1.520 1.520 53.300 1.05% -3.97% 1.520 1.520 53.300 1.05% -3.97% 1.520 1.520 53.300 1.05% -3.97% 1.520 1.520 53.300 1.05% -3.97% 1.520 1.520 53.300 1.05% -3.97% 1.520 1.520 53.300 1.05% -3.97% 1.520 1.520 53.300 1.05% -3.97% 1.520 1.520 53.300 1.05% -3.97% 1.520	08/25/2021	1900 Body	23.2							
08/27/2021 1900 Body 23.3										
08/27/2021 1900 Body 23.3										
08/27/2021										
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1900 1.520 52.069 1.520 53.300 0.00% -2.31% 1905 1.525 52.064 1.520 53.300 0.03% -2.34% 1910 1.530 52.040 1.520 53.300 0.66% -2.36% 1850 1.514 52.112 1.520 53.300 0.66% -2.36% 1860 1.524 52.072 1.520 53.300 0.26% -2.23% 1880 1.546 52.000 1.520 53.300 0.26% -2.30% 1900 1.569 51.951 1.520 53.300 3.22% -2.53% 1905 1.575 51.941 1.520 53.300 3.62% -2.55%	00/09/2024	1000 Pode	22.0	1880	1.498	52.123	1.520	53.300	-1.45%	-2.21%
1910 1.530 52.040 1.520 53.300 0.66% -2.36% 1850 1.514 52.112 1.520 53.300 -0.39% -2.23% 1860 1.524 52.072 1.520 53.300 0.26% -2.30% 1880 1.546 52.000 1.520 53.300 0.26% -2.30% 1900 1.569 51.951 1.520 53.300 3.22% -2.53% 1905 1.575 51.941 1.520 53.300 3.62% -2.55%	09/08/2021	1900 Body	23.0	1900	1.520	52.069	1.520	53.300	0.00%	-2.31%
1850 1.514 52.112 1.520 53.300 -0.39% -2.23% 1860 1.524 52.072 1.520 53.300 0.26% -2.30% 1880 1.546 52.000 1.520 53.300 0.26% -2.30% 1900 1.569 51.951 1.520 53.300 3.22% -2.53% 1905 1.575 51.941 1.520 53.300 3.62% -2.55%				1905	1.525	52.054	1.520	53.300	0.33%	-2.34%
09/13/2021 1900 Body 23.2 1860 1.524 52.072 1.520 53.300 0.26% -2.30% 1880 1.546 52.000 1.520 53.300 1.71% -2.44% 1900 1.569 51.951 1.520 53.300 3.22% -2.53% 1905 1.575 51.941 1.520 53.300 3.62% -2.55%				1910	1.530	52.040	1.520	53.300	0.66%	-2.36%
09/13/2021 1900 Body 23.2 1880 1.546 52.000 1.520 53.300 1.71% -2.44% 1900 1.569 51.951 1.520 53.300 3.22% -2.53% 1905 1.575 51.941 1.520 53.300 3.62% -2.55%				1850	1.514	52.112	1.520	53.300	-0.39%	-2.23%
1900 Body 23.2 1900 1.569 51.951 1.520 53.300 3.22% -2.53% 1905 1.575 51.941 1.520 53.300 3.62% -2.55%				1860	1.524	52.072	1.520	53.300	0.26%	-2.30%
1900 1.569 51.951 1.520 53.300 3.22% -2.53% 1905 1.575 51.941 1.520 53.300 3.62% -2.55%	09/13/2021	1900 Rody	23.2	1880	1.546	52.000	1.520	53.300	1.71%	-2.44%
	00/10/2021	1000 Dody	20.2							
1910 1.580 51.932 1.520 53.300 3.95% -2.57%						51.941	1.520	53.300	3.62%	-2.55%
				1910	1.580	51.932	1.520	53.300	3.95%	-2.57%

FCC ID: A3LSMF711B1	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 72 of 402
1M2108160097-01.A3L (Rev 1)	08/14/2021 - 09/19/2021	Portable Handset	Page 73 of 192

Table 10-5 Measured Body Tissue Properties (3 of 3)

		asured B	ouy ii	33ue r	i opei ue	<u> </u>			
Calibrated for Tests	Tissue Type	Tissue Temp During	Measured Frequency	Measured Conductivity,	Measured Dielectric	TARGET Conductivity,	TARGET Dielectric	% dev σ	% dev a
Performed on:		Calibration (°C)	(MHz)	σ (S/m)	Constant, ε	σ (S/m)	Constant, ε		
08/19/2021	2450 Body	24.9	2400 2450	1.980 2.023	51.398 51.334	1.902 1.950	52.767 52.700	4.10% 3.74%	-2.59% -2.59%
06/19/2021	2450 Body	24.9	2480	2.023	51.334	1.993	52.700	2.76%	-2.59%
			2400	1.958	51.056	1.902	52.767	2.94%	-3.24%
08/22/2021	2450 Body	21.8	2450	2.004	50.990	1.950	52.700	2.77%	-3.24%
			2480	2.031	50.958	1.993	52.662	1.91%	-3.24%
			2400	1.920	51.959	1.902	52.767	0.95%	-1.53%
			2450	1.989	51.779	1.950	52.700	2.00%	-1.75%
			2480 2500	2.030 2.058	51.675 51.600	1.993 2.021	52.662 52.636	1.86%	-1.87% -1.97%
			2510	2.072	51.561	2.021	52.623	1.82%	-2.02%
			2535	2.109	51.461	2.071	52.592	1.83%	-2.15%
08/23/2021	2450 Body	21.8	2550	2.131	51.404	2.092	52.573	1.86%	-2.22%
			2560	2.146	51.370	2.106	52.560	1.90%	-2.26%
			2600	2.202	51.224	2.163	52.509	1.80%	-2.45%
			2650	2.273	51.025	2.234	52.445	1.75%	-2.71%
			2680 2700	2.316 2.344	50.915 50.838	2.277	52.407 52.382	1.71%	-2.85% -2.95%
			2400	1.877	54.931	1.902	52.767	-1.31%	4.10%
			2450	1.946	54.757	1.950	52.700	-0.21%	3.90%
			2480	1.987	54.651	1.993	52.662	-0.30%	3.78%
			2500	2.014	54.586	2.021	52.636	-0.35%	3.70%
			2510	2.028	54.551	2.035	52.623	-0.34%	3.66%
08/27/2021	2450 Body	24.5	2535	2.063	54.456	2.071	52.592	-0.39%	3.54%
00/2//2021	2100 200)	21.0	2550	2.084	54.399	2.092	52.573	-0.38%	3.47%
			2560	2.099	54.363	2.106	52.560	-0.33%	3.43%
			2600	2.152	54.238	2.163	52.509	-0.51%	3.29%
			2650	2.221	54.041	2.234	52.445	-0.58%	3.04%
			2680	2.266	53.934	2.277	52.407	-0.48% -0.52%	2.91%
			2700 5180	2.293 5.271	53.875 47.995	2.305 5.276	52.382 49.041	-0.09%	2.85% -2.139
			5190	5.284	47.985	5.288	49.041	-0.09%	-2.139
			5200	5.297	47.962	5.299	49.014	-0.04%	-2.15%
			5210	5.307	47.928	5.311	49.001	-0.08%	-2.19%
			5220	5.322	47.891	5.323	48.987	-0.02%	-2.24%
			5240	5.357	47.846	5.346	48.960	0.21%	-2.28%
			5250	5.372	47.831	5.358	48.947	0.26%	-2.28%
			5260	5.382	47.812	5.369	48.933	0.24%	-2.29%
			5270	5.397	47.797	5.381	48.919	0.30%	-2.29%
			5280	5.414	47.786	5.393	48.906	0.39%	-2.29%
			5290	5.429	47.788	5.404	48.892	0.46%	-2.26%
			5300	5.444	47.787	5.416	48.879	0.52%	-2.23%
			5310	5.461	47.781	5.428	48.865	0.61%	-2.229
			5320 5500	5.476	47.769 47.472	5.439 5.650	48.851 48.607	0.68%	-2.219 -2.349
			5510	5.738 5.756	47.472	5.661	48.594	1.68%	-2.347
			5520	5.775	47.458	5.673	48.580	1.80%	-2.319
			5530	5.790	47.448	5.685	48.566	1.85%	-2.30%
			5540	5.804	47.434	5.696	48.553	1.90%	-2.30%
			5550	5.816	47.420	5.708	48.539	1.89%	-2.319
			5560	5.828	47.408	5.720	48.526	1.89%	-2.30%
08/14/2021	5200-5800 Body	24.5	5580	5.855	47.363	5.743	48.499	1.95%	-2.34%
			5600	5.883	47.315	5.766	48.471	2.03%	-2.38%
			5610	5.898	47.300	5.778	48.458	2.08%	-2.39%
			5620	5.915	47.283	5.790	48.444	2.16%	-2.40%
			5640	5.945	47.253	5.813	48.417	2.27%	-2.409
			5660	5.970	47.233	5.837	48.390	2.28%	-2.39%
			5670 5680	5.980 5.991	47.224 47.203	5.848	48.376 48.363	2.26%	-2.389
			5690	6.004	47.203 47.175	5.860	48.363 48.349	2.24%	-2.409 -2.439
			5700	6.004	47.175	5.872 5.883	48.349	2.25%	-2.439
		1	5710	6.029	47.143	5.895	48.322	2.24%	-2.477
			5710	6.029	47.117	5.907	48.309	2.32%	-2.497
			5745	6.082	47.033	5.936	48.275	2.46%	-2.579
		1	5750	6.089	47.025	5.942	48.268	2.47%	-2.589
			5755	6.096	47.019	5.947	48.261	2.51%	-2.579
			5765	6.110	47.010	5.959	48.248	2.53%	-2.579
		1	5775	6.120	47.000	5.971	48.234	2.50%	-2.569
			5785	6.129	46.989	5.982	48.220	2.46%	-2.559
		1	5795	6.139	46.970	5.994	48.207	2.42%	-2.579
		1	5800	6.144	46.957	6.000	48.200	2.40%	-2.58%
		1	5805 5825	6.149 6.170	46.945 46.857	6.006	48.193	2.38%	-2.59% -2.72%
						6.029	48.166		

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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10.2 Test System Verification

Prior to SAR assessment, the system is verified to ±10% of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix D.

> **Table 10-6** System Verification Results - 1q

				•	Jy Ji Cili	VOIIII	Julion	Nesuit	o ig			
						•	m Verificat T & MEASU					
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR1g (W/kg)	1W Target SAR1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation1g (%)
Α	750	HEAD	09/07/2021	22.6	21.6	0.20	1161	7406	1.70	8.03	8.500	5.85%
E	835	HEAD	09/01/2021	23.0	22.7	0.20	4d132	7571	2.07	9.66	10.350	7.14%
E	835	HEAD	09/04/2021	22.5	21.0	0.20	4d132	7571	2.07	9.66	10.350	7.14%
Α	1750	HEAD	08/31/2021	24.3	20.9	0.10	1150	7406	3.80	36.50	38.000	4.11%
В	1900	HEAD	08/22/2021	24.3	22.1	0.10	5d080	7660	4.11	39.80	41.100	3.27%
Α	1900	HEAD	09/19/2021	22.9	22.7	0.10	5d080	7406	4.27	39.80	42.700	7.29%
В	2450	HEAD	08/16/2021	24.0	22.5	0.10	981	7660	5.11	52.30	51.100	-2.29%
В	2450	HEAD	08/26/2021	24.0	21.9	0.10	797	7660	5.06	52.40	50.600	-3.44%
В	2600	HEAD	08/26/2021	24.0	21.9	0.10	1064	7660	5.71	58.10	57.100	-1.72%
K	5250	HEAD	08/24/2021	22.4	21.4	0.05	1057	7538	3.92	79.70	78.400	-1.63%
K	5600	HEAD	08/24/2021	22.4	21.4	0.05	1057	7538	4.09	83.80	81.800	-2.39%
K	5750	HEAD	08/24/2021	22.4	21.4	0.05	1057	7538	4.19	80.10	83.800	4.62%
G	750	BODY	08/20/2021	23.4	21.7	0.20	1003	7357	1.80	8.61	9.000	4.53%
E	750	BODY	08/23/2021	20.5	21.8	0.20	1161	7571	1.81	8.43	9.050	7.35%
E	750	BODY	08/30/2021	23.5	21.7	0.20	1161	7571	1.78	8.43	8.900	5.58%
Н	835	BODY	08/23/2021	22.5	21.7	0.20	4d133	7409	1.99	9.75	9.950	2.05%
Н	835	BODY	08/25/2021	23.4	22.5	0.20	4d133	7409	2.00	9.75	10.000	2.56%
Н	835	BODY	08/27/2021	23.5	22.2	0.20	4d133	7409	1.95	9.75	9.750	0.00%
Н	835	BODY	08/31/2021	23.2	22.6	0.20	4d133	7409	1.90	9.75	9.500	-2.56%
D	1750	BODY	08/19/2021	23.0	23.7	0.10	1148	3589	3.56	36.30	35.600	-1.93%
G	1750	BODY	08/27/2021	22.0	22.4	0.10	1148	7357	3.86	36.30	38.600	6.34%
G	1750	BODY	09/05/2021	21.7	21.4	0.10	1150	7357	3.90	36.60	39.000	6.56%
G	1750	BODY	09/07/2021	23.3	21.4	0.10	1150	7357	4.02	36.60	40.200	9.84%
Р	1900	BODY	08/25/2021	21.6	21.3	0.10	5d149	7410	4.25	39.40	42.500	7.87%
Р	1900	BODY	08/27/2021	21.6	21.5	0.10	5d148	7410	4.17	39.10	41.700	6.65%
Р	1900	BODY	09/08/2021	24.3	23.0	0.10	5d148	7410	4.02	39.10	40.200	2.81%
Р	1900	BODY	09/13/2021	21.3	21.4	0.10	5d148	7410	4.17	39.10	41.700	6.65%
J	2450	BODY	08/19/2021	21.5	22.9	0.10	981	7526	5.02	50.10	50.200	0.20%
J	2450	BODY	08/22/2021	21.5	21.8	0.10	981	7526	4.91	50.10	49.100	-2.00%
J	2450	BODY	08/23/2021	21.5	21.8	0.10	981	7526	4.99	50.10	49.900	-0.40%
L	2450	BODY	08/27/2021	23.1	23.6	0.10	981	7539	5.07	50.10	50.700	1.20%
J	2600	BODY	08/23/2021	21.5	21.8	0.10	1004	7526	5.47	55.40	54.700	-1.26%
L	2600	BODY	08/27/2021	23.1	23.6	0.10	1004	7539	5.28	55.40	52.800	-4.69%
J	5250	BODY	08/14/2021	21.1	22.5	0.05	1191	7526	3.45	74.60	69.000	-7.51%
J	5600	BODY	08/14/2021	21.1	22.5	0.05	1191	7526	3.76	78.10	75.200	-3.71%
J	5750	BODY	08/14/2021	21.1	22.5	0.05	1191	7526	3.48	74.90	69.600	-7.08%

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Table 10-7 System Verification Results – 10g

System Verification TARGET & MEASURED Liquid Amb. Deviation10g SAR Tissue Measured 1W Target 1W Normalized Source Date Probe SN Frequency Temp. Temp. Power System SN SAR10g (W/kg) SAR10g (W/kg) SAR10g (W/kg) (%) Type (MHz) (C) (C) (W) 1750 BODY 08/29/2021 1150 2.010 19.40 20.100 3.61% 7357 G 20.9 0.10 22.6 G 1750 BODY 09/05/2021 21.7 21.4 0.10 1150 7357 2.060 19.40 20.600 6.19% BODY 08/25/2021 21.6 21.3 0.10 5d149 7410 2.170 21.700 4.83% Р 1900 20.70 Р 1900 BODY 08/30/2021 21.2 21.3 0.10 5d148 7410 2.020 20.50 20.200 -1.46% 1900 BODY 09/03/2021 24.0 23.5 0.10 5d149 7409 2.190 20.70 21.900 5.80% Н 2450 **BODY** 08/23/2021 21.5 21.8 0.10 981 7526 2.280 23.70 22.800 -3.80% **BODY** 08/23/2021 21.5 21.8 0.10 1004 7526 2.390 24.80 23.900 -3.63% 2600 J 5250 BODY 08/14/2021 21.1 22.5 0.05 1191 7526 0.986 21.00 19.720 -6.10% 5600 BODY 08/14/2021 21.1 22.5 0.05 1191 7526 1.060 21.70 21.200 -2.30% 5750 **BODY** 08/14/2021 21.1 22.5 0.05 1191 7526 0.992 20.80 19.840 -4.62%

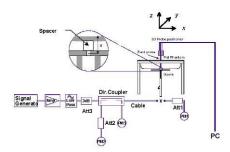


Figure 10-1
System Verification Setup Diagram



Figure 10-2
System Verification Setup Photo

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11 SAR DATA SUMMARY

11.1 Standalone Head SAR Data

Table 11-1 GSM 850 Head SAR - Open

					00111	000 11	ouu c	<u> </u>	po						
					МЕ	ASURE	REMENT RESULTS								
FREQUE	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	# of Time	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Position	Number	Slots	, -,	(W/kg)	Factor	(W/kg)	
824.20	128	GSM 850	-0.03	Right	Cheek	2634M	1	1:8.3	0.141	1.178	0.166	A1			
824.20	824.20 128 GSM850 GSM 33.0 32.29 -0.0						Right	Tilt	2634M	1	1:8.3	0.081	1.178	0.095	
824.20	128	GSM 850	GSM	33.0	32.29	0.04	Left	Cheek	2634M	1	1:8.3	0.126	1.178	0.148	
824.20	128	GSM 850	GSM	33.0	32.29	-0.05	Left	Tilt	2634M	1	1:8.3	0.079	1.178	0.093	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT										H	ead			
			Spatial Peak				1.6 W/kg (mW/g)								
	Uncontrolled Exposure/General Population										averaged	over 1 gram			

Table 11-2 GMS 1900 Head SAR - Open

							Opo.								
					МЕ	ASURE	REMENT RESULTS								
FREQUE	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	# of Time	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.	····ouo	5511155	Power [dBm]	Power [dBm]	Drift [dB]	0.40	Position	Number	Slots	Daily Gyolo	(W/kg)	Factor	(W/kg)	
1850.20	.20 512 GSM 1900 GSM 30.5 29.89							Cheek	1629M	1	1:8.3	0.022	1.151	0.025	
1850.20	1850.20 512 GSM 1900 GSM 30.5 29.89 -0.07					-0.07	Right	Tilt	1629M	1	1:8.3	0.014	1.151	0.016	
1850.20	512	GSM 1900	GSM	30.5	29.89	0.11	Left	Cheek	1629M	1	1:8.3	0.045	1.151	0.052	A2
1850.20	512	GSM 1900	GSM	30.5	29.89	-0.16	Left	Tilt	1629M	1	1:8.3	0.012	1.151	0.014	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT										He	ead		·-	
			Spatial Peak				1.6 W/kg (mW/g)								
	Uncontrolled Exposure/General Population											over 1 gram			

Table 11-3 UMTS 850 Head SAR - Open

					CIVITO		1044 €	,, ,, ,	Opon						
					МІ	EASURE	MENT F	T RESULTS							
FREQUI	ENCY	Mode	Service	Maximum Allowed	Conducted	Tune	Power	Side	Test	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	State	Drift [dB]		Position	Number	, -,	(W/kg)	Factor	(W/kg)	
836.60	4183	UMTS 850	RMC	25.5	24.81	5	0.00	Right	Cheek	1272M	1:1	0.202	1.172	0.237	A3
836.60	836.60 4183 UMTS 850 RMC 25.5 24.81 5 -								Tilt	1272M	1:1	0.116	1.172	0.136	
836.60	4183	UMTS 850	RMC	25.5	24.81	5	-0.05	Left	Cheek	1272M	1:1	0.171	1.172	0.200	
836.60	4183	UMTS 850	RMC	25.5	24.81	5	-0.02	Left	Tilt	1272M	1:1	0.111	1.172	0.130	
		ANSI / IE						Head							
			Spatial I	Peak							1.6	W/kg (mW/g	1)		
		Uncontroll		averaged over 1 gram											

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Table 11-4 UMTS 1750 Head SAR - Open

					UNITS	1730	i icaa	UAIX	Opci	<u>. </u>					
					М	EASURE	MENT F	FRESULTS							
FREQUE	ENCY	Mode	Service	Maximum Allowed	Conducted	Tune	Power	Side	Test	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.	mode	5511155	Power [dBm]	Power [dBm]	State	Drift [dB]	0.40	Position	Number	Daily Gyolo	(W/kg)	Factor	(W/kg)	
1712.40	1312	UMTS 1750	RMC	24.0	23.42	0	-0.01	Right	Cheek	1272M	1:1	0.062	1.143	0.071	
1712.40	1312	UMTS 1750	RMC	24.0	23.42	0	-0.05	Right	Tilt	1272M	1:1	0.036	1.143	0.041	
1712.40	1312	UMTS 1750	RMC	24.0	23.42	0	-0.09	Left	Cheek	1272M	1:1	0.074	1.143	0.085	A4
1712.40	1312	UMTS 1750	RMC	24.0	23.42	0	0.18	Left	Tilt	1272M	1:1	0.033	1.143	0.038	
		ANSI / IE	EE C95.1 199	2 - SAFETY	LIMIT							Head			
			Spatial F	Peak				1.6 W/kg (mW/g)							
		Uncontroll	ed Exposure	General Pop	ulation			averaged over 1 gram							

Table 11-5 UMTS 1900 Head SAR - Open

					OWITO			<u> </u>	<u> </u>	<u> </u>					
					MI	EASURE	MENT F	RESUL	rs						
FREQUE	NCY	Mode	Service	Maximum Allowed	Conducted	Tune	Power	Side	Test	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	State	Drift [dB]		Position	Number	.,,,,,	(W/kg)	Factor	(W/kg)	
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	0.19	Right	Cheek	1629M	1:1	0.051	1.023	0.052	
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	0.19	Right	Tilt	1629M	1:1	0.034	1.023	0.035	
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	0.01	Left	Cheek	1629M	1:1	0.088	1.023	0.090	A5
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	0.12	Left	Tilt	1629M	1:1	0.037	1.023	0.038	
		ANSI / IE	EE C95.1 199	2 - SAFETY	LIMIT							Head			
			Spatial F	Peak							1.6	W/kg (mW/g)		
		Uncontroll	ed Exposure	General Pop	ulation						avera	ged over 1 gr	am		

Table 11-6 LTE Band 12 Head SAR - Open

												· OP	<u> </u>							
								ME	ASUREN	IENT R	ESULTS	;								
F	REQUENCY	Y	Mode	Bandwidth	Maximum Allowed	Conducted	Tune	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	State	Drift [dB]			Position				Number		(W/kg)	Factor	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	25.0	24.55	0	-0.15	0	Right	Cheek	QPSK	1	0	1271M	1:1	0.166	1.109	0.184	
707.50	23095	Mid	LTE Band 12	10	24.0	23.70	0	0.07	1	Right	Cheek	QPSK	25	25	1271M	1:1	0.133	1.072	0.143	
707.50	23095	Mid	LTE Band 12	10	25.0	24.55	0	0.06	0	Right	Tilt	QPSK	1	0	1271M	1:1	0.082	1.109	0.091	
707.50	23095	Mid	LTE Band 12	0.09	1	Right	Tilt	QPSK	25	25	1271M	1:1	0.067	1.072	0.072					
707.50	23095	Mid	LTE Band 12	10	25.0	24.55	0	-0.01	0	Left	Cheek	QPSK	1	0	1271M	1:1	0.183	1.109	0.203	A6
707.50	23095	Mid	LTE Band 12	10	24.0	23.70	0	-0.05	1	Left	Cheek	QPSK	25	25	1271M	1:1	0.134	1.072	0.144	
707.50	23095	Mid	LTE Band 12	10	25.0	24.55	0	-0.15	0	Left	Tilt	QPSK	1	0	1271M	1:1	0.088	1.109	0.098	
707.50	23095	Mid	LTE Band 12	10	24.0	23.70	0	-0.03	1	Left	Tilt	QPSK	25	25	1271M	1:1	0.067	1.072	0.072	
		ANSI /	IEEE C95.1 1992	- SAFETY	LIMIT										He	ad				
			Spatial Pe	ak											1.6 W/kg	(mW/g)				
		Uncontr	olled Exposure/G	eneral Pop	ulation									a	veraged o	ver 1 gram				

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Table 11-7 LTE Band 13 Head SAR - Open

												. Ор								
								ME	ASUREM	IENT R	ESULTS	;								
FF	REQUENCY	,	Mode	Bandwidth	Maximum Allowed	Conducted	Tune	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	State	Drift [dB]			Position				Number		(W/kg)	Factor	(W/kg)	
782.00	23230	Mid	LTE Band 13	10	25.0	24.64	27	0.03	0	Right	Cheek	QPSK	1	25	1262M	1:1	0.111	1.086	0.121	A7
782.00	23230	Mid	LTE Band 13	10	24.0	23.62	27	-0.09	1	Right	Cheek	QPSK	25	25	1262M	1:1	0.092	1.091	0.100	
782.00	23230	Mid	LTE Band 13	10	25.0	24.64	27	-0.10	0	Right	Tilt	QPSK	1	25	1262M	1:1	0.050	1.086	0.054	
782.00 23230 Mid LTE Band 13 10 24.0 23.62 27 -0.0										Right	Tilt	QPSK	25	25	1262M	1:1	0.040	1.091	0.044	
782.00	23230	Mid	LTE Band 13	10	25.0	24.64	27	0.04	0	Left	Cheek	QPSK	1	25	1262M	1:1	0.104	1.086	0.113	
782.00	23230	Mid	LTE Band 13	10	24.0	23.62	27	0.01	1	Left	Cheek	QPSK	25	25	1262M	1:1	0.067	1.091	0.073	
782.00	23230	Mid	LTE Band 13	10	25.0	24.64	27	0.06	0	Left	Tilt	QPSK	1	25	1262M	1:1	0.046	1.086	0.050	
782.00	23230	Mid	LTE Band 13	10	24.0	23.62	27	0.13	1	Left	Tilt	QPSK	25	25	1262M	1:1	0.038	1.091	0.041	
		ANSI /	IEEE C95.1 1992	- SAFETY	LIMIT										Head					
			Spatial Pe												W/kg (mV					
		Uncontro	olled Exposure/G	eneral Pop	ulation									avera	iged over 1	gram				

Table 11-8 LTE Band 26 (Cell) Head SAR - Open

							. <u>Du</u>	<u>.u _u</u>	100.	<u>., </u>	,uu c	ירוי -	Opc	<u> </u>						
								ME	ASUREN	IENT R	ESULTS	;								
F	REQUENCY	Y	Mode	Bandwidth	Maximum Allowed	Conducted	Tune	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	State	Drift [dB]	()		Position				Number	, .,	(W/kg)	Factor	(W/kg)	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.0	24.26	5	-0.03	0	Right	Cheek	QPSK	1	36	1629M	1:1	0.147	1.186	0.174	A8
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.32	5	0.03	1	Right	Cheek	QPSK	36	37	1629M	1:1	0.116	1.169	0.136	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.0	24.26	0	0.00	0	Right	Tilt	QPSK	1	36	1629M	1:1	0.086	1.186	0.102	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0.00	1	Right	Tilt	QPSK	36	37	1629M	1:1	0.042	1.169	0.049				
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.0	24.26	27	-0.01	0	Left	Cheek	QPSK	1	36	1629M	1:1	0.138	1.186	0.164	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.32	27	-0.02	1	Left	Cheek	QPSK	36	37	1629M	1:1	0.100	1.169	0.117	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.0	24.26	0	-0.06	0	Left	Tilt	QPSK	1	36	1629M	1:1	0.088	1.186	0.104	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.32	0	-0.09	1	Left	Tilt	QPSK	36	37	1629M	1:1	0.064	1.169	0.075	
		ANSI /	IEEE C95.1 1992		LIMIT										He					
			Spatial Pe												1.6 W/kg					
		Uncontr	olled Exposure/G	eneral Pop	ulation									a	averaged o	ver 1 gram				

Table 11-9 LTE Band 66 (AWS) Head SAR - Open

								u 00	(/////	<u> </u>	ouu .	<i>37</i> (1 (Opt	···						
								ME	ASUREN	ENT R	ESULTS									
FF	REQUENCY	,	Mode	Bandwidth	Maximum Allowed	Conducted	Tune	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	State	Drift [dB]			Position				Number	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(W/kg)	Factor	(W/kg)	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	22.77	13	-0.08	0	Right	Cheek	QPSK	1	99	1271M	1:1	0.077	1.327	0.102	A9
1770.00	132572	High	LTE Band 66 (AWS)	20	23.0	21.91	13	-0.06	1	Right	Cheek	QPSK	50	50	1271M	1:1	0.063	1.285	0.081	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	22.77	13	0.20	0	Right	Tilt	QPSK	1	99	1271M	1:1	0.028	1.327	0.037	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.0	21.91	13	-0.02	1	Right	Tilt	QPSK	50	50	1271M	1:1	0.025	1.285	0.032	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	22.77	13	0.14	0	Left	Cheek	QPSK	1	99	1271M	1:1	0.052	1.327	0.069	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.0	21.91	13	0.07	1	Left	Cheek	QPSK	50	50	1271M	1:1	0.044	1.285	0.057	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	22.77	13	-0.01	0	Left	Tilt	QPSK	1	99	1271M	1:1	0.022	1.327	0.029	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.0	21.91	13	0.12	1	Left	Tilt	QPSK	50	50	1271M	1:1	0.020	1.285	0.026	
		ANSI/	IEEE C95.1 1992	- SAFETY	LIMIT										Hea	ad				
			Spatial Pe	ak											1.6 W/kg	(mW/g)				
		Uncontro	olled Exposure/G	eneral Pop	ulation									a	veraged ov	ver 1 gram				

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Table 11-10 LTE Band 25 (PCS) Head SAR - Open

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								ME	ASUREN	IENT R	ESULTS	;								
FR	REQUENCY	ſ	Mode	Bandwidth	Maximum Allowed	Conducted	Tune	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	State	Drift [dB]			Position				Number		(W/kg)	Factor	(W/kg)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.74	13	0.20	0	Right	Cheek	QPSK	1	0	1629M	1:1	0.059	1.062	0.063	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.0	22.81	13	-0.03	1	Right	Cheek	QPSK	50	0	1629M	1:1	0.051	1.045	0.053	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.74	13	0.06	0	Right	Tilt	QPSK	1	0	1629M	1:1	0.025	1.062	0.027	
1860.00	26140	Low	LTE Band 25 (PCS)	0.00	1	Right	Tilt	QPSK	50	0	1629M	1:1	0.024	1.045	0.025					
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.74	13	-0.18	0	Left	Cheek	QPSK	1	0	1629M	1:1	0.062	1.062	0.066	A10
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.0	22.81	13	0.03	1	Left	Cheek	QPSK	50	0	1629M	1:1	0.055	1.045	0.057	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.74	13	0.18	0	Left	Tilt	QPSK	1	0	1629M	1:1	0.026	1.062	0.028	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.0	22.81	13	0.00	1	Left	Tilt	QPSK	50	0	1629M	1:1	0.023	1.045	0.024	
		ANSI /	IEEE C95.1 1992	- SAFETY	LIMIT										He	ad				
			Spatial Pe	ak											1.6 W/kg	(mW/g)				
		Uncontro	olled Exposure/G	eneral Pop	ulation									a	veraged o	ver 1 gram				

Table 11-11 LTE Band 41 Head SAR - Open

												, , , , , , , , , , , , , , , , , , , 								
							ME	ASURE	MENT R	ESULT	S									
Power Class	FI	REQUENC	Y	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
	MHz	(h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	()		Position				Number	, .,	(W/kg)	Factor	(W/kg)	
Power Class 3	2680.00	41490	High	LTE Band 41	20	25.0	24.06	0.19	0	Right	Cheek	QPSK	1	50	1255M	1:1.58	0.040	1.242	0.050	
Power Class 3	2680.00	41490	High	LTE Band 41	20	24.0	23.17	0.10	1	Right	Cheek	QPSK	50	50	1255M	1:1.58	0.032	1.211	0.039	
Power Class 3	2680.00	41490	High	LTE Band 41	20	25.0	24.06	0.18	0	Right	Tilt	QPSK	1	50	1255M	1:1.58	0.028	1.242	0.035	
Power Class 3	2680.00	41490	High	LTE Band 41	1	Right	Tilt	QPSK	50	50	1255M	1:1.58	0.027	1.211	0.033					
Power Class 3	2680.00	41490	High	LTE Band 41	20	25.0	24.06	-0.12	0	Left	Cheek	QPSK	1	50	1255M	1:1.58	0.088	1.242	0.109	
Power Class 3	2680.00	41490	High	LTE Band 41	20	24.0	23.17	0.05	1	Left	Cheek	QPSK	50	50	1255M	1:1.58	0.071	1.211	0.086	
Power Class 2	2680.00	41490	High	LTE Band 41	20	27.5	26.42	0.00	0	Left	Cheek	QPSK	1	50	1255M	1:2.31	0.107	1.282	0.137	A11
Power Class 3	2680.00	41490	High	LTE Band 41	20	25.0	24.06	0.16	0	Left	Tilt	QPSK	1	50	1255M	1:1.58	0.023	1.242	0.029	
Power Class 3	2680.00	41490	High	LTE Band 41	20	24.0	23.17	0.17	1	Left	Tilt	QPSK	50	50	1255M	1:1.58	0.019	1.211	0.023	
		A	NSI / IEEI	E C95.1 1992 - S	AFETY LIMI	Т									Hea	ad				
				Spatial Peak											1.6 W/kg	(mW/g)				
	Spatial Peak Uncontrolled Exposure/General Population														averaged ov	ver 1 gram				

Table 11-12 NR Band n5 Head SAR - Open

									M	IEASURI	EMENT R	ESULTS									
FR	EQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot#
MHz	Ch.			[MHZ]	Power [dBm]	Power [dBm]	Dritt (dB)			Position	State					Number	Cycle	(W/kg)	Factor	(W/kg)	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.0	23.69	-0.03	0	Right	Cheek	5	DFT-S-OFDM	QPSK	1	53	1629M	1:1	0.175	1.352	0.237	A12
836.50	167300	Mid	NR Band n5 (Cell)	20	25.0	23.61	-0.02	0	Right	Cheek	5	DFT-S-OFDM	QPSK	50	28	1629M	1:1	0.169	1.377	0.233	
836.50	167300	Mid	NR Band n5 (Cell)	20	23.5	22.95	0.01	1.5	Right	Cheek	5	CP-OFDM	QPSK	1	1	1629M	1:1	0.127	1.135	0.144	
836.50										Tilt	0	DFT-S-OFDM	QPSK	1	53	1629M	1:1	0.100	1.352	0.135	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.0	23.61	-0.07	0	Right	Tilt	0	DFT-S-OFDM	QPSK	50	28	1629M	1:1	0.091	1.377	0.125	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.0	23.69	-0.04	0	Left	Cheek	27	DFT-S-OFDM	QPSK	1	53	1629M	1:1	0.140	1.352	0.189	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.0	23.61	0.01	0	Left	Cheek	27	DFT-S-OFDM	QPSK	50	28	1629M	1:1	0.127	1.377	0.175	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.0	23.69	-0.11	0	Left	Tilt	0	DFT-S-OFDM	QPSK	1	53	1629M	1:1	0.087	1.352	0.118	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.0	23.61	-0.03	0	Left	Tilt	0	DFT-S-OFDM	QPSK	50	28	1629M	1:1	0.082	1.377	0.113	
			ANSI / IEEE C95.		ETY LIMIT									He							
				atial Peak										1.6 W/kg							
		Uı	ncontrolled Expo	sure/Genera	I Population									averaged o	ver 1 gram						

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Table 11-13 NR Band n66 Head SAR - Open

										MEASU	REMENT	RESULTS	<u> </u>								
FR	EQUENC	r	Mode	Bandwidth	Maximum Allowed	Conducted	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	υτιπ (αΒ)			Position	State					Number	Cycle	(W/kg)	Factor	(W/kg)	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.39	-0.11	0	Right	Cheek	13	DFT-S-OFDM	QPSK	1	104	1271M	1:1	0.076	1.151	0.087	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.28	-0.04	0	Right	Cheek	13	DFT-S-OFDM	QPSK	50	28	1271M	1:1	0.081	1.180	0.096	A13
1745.00	(AWS)								Right	Cheek	13	CP-OFDM	QPSK	1	1	1271M	1:1	0.056	1.135	0.064	
1720.00	00 344000 Low (AWS) 20 24.0 23.39 0.08							0	Right	Tilt	13	DFT-S-OFDM	QPSK	1	104	1271M	1:1	0.042	1.151	0.048	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.28	-0.06	0	Right	Tilt	13	DFT-S-OFDM	QPSK	50	28	1271M	1:1	0.046	1.180	0.054	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.39	0.04	0	Left	Cheek	13	DFT-S-OFDM	QPSK	1	104	1271M	1:1	0.074	1.151	0.085	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.28	-0.02	0	Left	Cheek	13	DFT-S-OFDM	QPSK	50	28	1271M	1:1	0.070	1.180	0.083	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.39	0.12	0	Left	Tilt	13	DFT-S-OFDM	QPSK	1	104	1271M	1:1	0.049	1.151	0.056	
1720.00	NR Band n66 (AWS) 20 24.0 23.28 0.04								Left	Tilt	13	DFT-S-OFDM	QPSK	50	28	1271M	1:1	0.042	1.180	0.050	
			ANSI / IEEE (C95.1 1992 -	SAFETY LIN	/IT								H	lead						
				Spatial Pea											kg (mW/g)						
			Uncontrolled E	xposure/Ge	eneral Popula	ation								averaged	over 1 grai	m					

Table 11-14 DTS Head SAR - Open

							D 1 v	<u> </u>	uu O	∠ı / - ,	opc.	•							
								MEASU	JREMEN	T RESUL	TS								
FREQUE	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Side	Test	Antenna	Device Serial	Data Rate	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Position	Config.	Number	(Mbps)	(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2412	1	802.11b	DSSS	22	13.0	12.76	-0.03	Right	Cheek	2	1271M	1	99.9	0.327	0.288	1.057	1.001	0.305	
2412	1	802.11b	DSSS	22	13.0	12.76	-0.03	Right	Tilt	2	1271M	1	99.9	0.251	-	1.057	1.001	-	
2412	1	802.11b	DSSS	22	13.0	12.76	0.00	Left	Cheek	2	1271M	1	99.9	0.069	-	1.057	1.001	-	
2412	1	802.11b	DSSS	22	13.0	12.76	0.00	Left	Tilt	2	1271M	1	99.9	0.066	-	1.057	1.001	-	
		ANSI / I	EEE C95.1 19	92 - SAFET	Y LIMIT									Head					
			Spatial	Peak									1	.6 W/kg (mV	V/g)				
		Uncontro	lled Exposure	/General P	opulation								av	eraged over 1	gram				

Table 11-15 DTS MIMO Head SAR - Open

								ME	EASURE	MENT	RESULT	s									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1) [dBm]	Maximum Allowed	Conducted Power (Ant 2)	Power	Side	Test	Antenna	Device Serial	Data Rate	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	Power (Ant 2) [dBm]	[dBm]	Drift [dB]		Position	Config.	Number	(Mbps)	(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2462	11	802.11n	0.10	Right	Cheek	MIMO	1271M	13	99.7	0.354	-	1.042	1.003	-							
2462	11	802.11n	0.00	Right	Tilt	MIMO	1271M	13	99.7	0.404	0.298	1.042	1.003	0.311	A14						
2462	11	802.11n	OFDM	20	13.0	12.82	13.0	12.89	-0.11	Left	Cheek	MIMO	1271M	13	99.7	0.209	-	1.042	1.003	-	
2462	11	802.11n	OFDM	20	13.0	12.82	13.0	12.89	-0.12	Left	Tilt	MIMO	1271M	13	99.7	0.183	-	1.042	1.003	-	
			ANSI / IE	EEE C95.1 1	1992 - SAFET	YLIMIT										Head					
				Spatia	al Peak										•	1.6 W/kg (mV	V/g)				
			Uncontrol	led Exposu	re/General P	opulation									av	eraged over 1	gram				

Note: To achieve the 16.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 13.0 dBm.

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Table 11-16 NII SISO Head SAR - Open

							111 01	<u> </u>	icau	SAR	<u>- O</u>	7011							
								MEASU	JREMEN	T RESUL	TS								
FREQUI	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Side	Test	Antenna	Device Serial	Data Rate	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Position	Config.	Number	(Mbps)	(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5290	58	802.11ac	OFDM	80	11.0	10.75	0.05	Right	Cheek	1	1271M	29.3	99.7	0.068	-	1.059	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.75	-0.13	Right	Tilt	1	1271M	29.3	99.7	0.057	-	1.059	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.75	0.10	Left	Cheek	1	1271M	29.3	99.7	0.085	0.057	1.059	1.003	0.061	
5290	58	802.11ac	OFDM	80	11.0	10.75	0.03	Left	Tilt	1	1271M	29.3	99.7	0.084	-	1.059	1.003	-	
5610	122	802.11ac	OFDM	80	11.0	10.82	0.05	Right	Cheek	1	1271M	29.3	99.7	0.068	-	1.042	1.003	-	
5610	122	802.11ac	OFDM	80	10.82	0.01	Right	Tilt	1	1271M	29.3	99.7	0.066	-	1.042	1.003	-		
5610	122	802.11ac	OFDM	80	11.0	10.82	-0.09	Left	Cheek	1	1271M	29.3	99.7	0.110	-	1.042	1.003	-	
5610	122	802.11ac	OFDM	80	11.0	10.82	-0.12	Left	Tilt	1	1271M	29.3	99.7	0.123	0.073	1.042	1.003	0.076	
5775	155	802.11ac	OFDM	80	11.0	10.81	-0.18	Right	Cheek	1	1271M	29.3	99.7	0.051	-	1.045	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.81	0.14	Right	Tilt	1	1271M	29.3	99.7	0.037	-	1.045	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.81	0.19	Left	Cheek	1	1271M	29.3	99.7	0.055	0.038	1.045	1.003	0.040	
5775	155	802.11ac	OFDM	80	11.0	10.81	0.13	Left	Tilt	1	1271M	29.3	99.7	0.047		1.045	1.003	-	
			EEE C95.1 19 Spatial Iled Exposure	Peak										Head I.6 W/kg (mV eraged over 1	-				

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Table 11-17 NII MIMO Head SAR - Open

									•		•,	υp	•								
								ME	EASURE	MENT	RESULT	S									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed	Conducted Power (Ant 2)	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial	Data Rate	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	[dBm]	[dBm]	υτιπ (αΒ)		Position	Config.	Number	(Mbps)	(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5290	58	802.11ac	OFDM	80	11.0	10.88	11.0	10.98	0.04	Right	Cheek	MIMO	1255M	58.5	99.7	0.143	0.116	1.028	1.003	0.120	
5290	58	802.11ac	OFDM	80	11.0	10.88	11.0	10.98	-0.05	Right	Tilt	MIMO	1255M	58.5	99.7	0.076		1.028	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.88	11.0	10.98	-0.17	Left	Cheek	MIMO	1255M	58.5	99.7	0.070		1.028	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.88	11.0	10.98	0.00	Left	Tilt	MIMO	1255M	58.5	99.7	0.069	-	1.028	1.003	-	
5610	122	802.11ac	OFDM	80	11.0	10.89	11.0	10.98	-0.12	Right	Cheek	MIMO	1255M	58.5	99.7	0.226	0.186	1.026	1.003	0.191	A15
5610	122	802.11ac	OFDM	80	11.0	10.89	11.0	10.98	0.10	Right	Tilt	MIMO	1255M	58.5	99.7	0.137	-	1.026	1.003	-	
5610	122	802.11ac	OFDM	80	11.0	10.89	11.0	10.98	0.14	Left	Cheek	MIMO	1255M	58.5	99.7	0.084	-	1.026	1.003	-	
5610	122	802.11ac	OFDM	80	11.0	10.89	11.0	10.98	-0.11	Left	Tilt	MIMO	1255M	58.5	99.7	0.088	-	1.026	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.78	0.09	Right	Cheek	MIMO	1255M	58.5	99.7	0.201	0.168	1.052	1.003	0.177	
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.78	0.06	Right	Tilt	MIMO	1255M	58.5	99.7	0.133	-	1.052	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.78	-0.14	Left	Cheek	MIMO	1255M	58.5	99.7	0.064	-	1.052	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.78	-0.20	Left	Tilt	MIMO	1255M	58.5	99.7	0.057		1.052	1.003	-	
			ANSI / IE	EE C95.1 1	992 - SAFET	YLIMIT										Head					
					al Peak											1.6 W/kg (mV	-				
			Uncontrol	led Exposu	re/General P	opulation									av	eraged over 1	gram				

Note: To achieve the 14.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 11.0 dBm.

> **Table 11-18 DSS Head SAR - Open**

						N	/IEASU	REMENT	RESUL	TS							
FREQUI	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Antenna	Device Serial	Data Rate	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.	iii dad	5617.65	Power [dBm]	Power [dBm]	Drift [dB]	0.00	Position	Config.	Number	(Mbps)	(%)	(W/kg)	Power)	Cycle)	(W/kg)	1.101.2
2441.00	39	Bluetooth	FHSS	10.0	8.43	0.03	Right	Cheek	1	2634M	1	76.80	0.060	1.435	1.302	0.112	
2441.00	39	Bluetooth	FHSS	10.0	8.43	-0.03	Right	Tilt	1	2634M	1	76.80	0.045	1.435	1.302	0.084	
2441.00	39	Bluetooth	FHSS	10.0	8.43	0.05	Left	Cheek	1	2634M	1	76.80	0.091	1.435	1.302	0.170	
2441.00	39	Bluetooth	FHSS	10.0	8.43	0.08	Left	Tilt	1	2634M	1	76.80	0.077	1.435	1.302	0.144	
2480.00	78	Bluetooth	FHSS	10.0	9.44	-0.01	Right	Cheek	2	2634M	1	76.80	0.223	1.138	1.302	0.330	A16
2480.00	78	Bluetooth	FHSS	10.0	9.44	-0.15	Right	Tilt	2	2634M	1	76.80	0.135	1.138	1.302	0.200	
2480.00	78	Bluetooth	FHSS	10.0	9.44	-0.11	Left	Cheek	2	2634M	1	76.80	0.030	1.138	1.302	0.044	
2480.00	78	Bluetooth	FHSS	10.0	9.44	0.07	Left	Tilt	2	2634M	1	76.80	0.033	1.138	1.302	0.049	
		ANSI / IEEE C		AFETY LIMIT	Г								ead				
			Spatial Peak										g (mW/g)				
		Uncontrolled E	xposure/Gen	eral Populati	on							averaged	over 1 gram				

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11.2 Standalone Open Body-Worn SAR Data

Table 11-19 GSM/UMTS Body-Worn SAR Data

									701110								
						MI	EASURE	MENT	RESULTS	3							
FREQUE	ENCY	Mode	Service	Maximum Allowed	Conducted	Tune State	Power Drift [dB]	Spacing	Cover Type	Device Serial	# of Time	Duty Cycle	Side	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	State	υτιπ (αΒ)			Number	Siots			(W/kg)	Factor	(W/kg)	
824.20	128	GSM 850	GSM	33.0	32.29	N/A	-0.04	15 mm	Open	1272M	1	1:8.3	back	0.121	1.178	0.143	
824.20	128	GSM 850	GSM	33.0	32.29	N/A	0.04	15 mm	Closed	1629M	1	1:8.3	back	0.236	1.178	0.278	A17
1850.20	512	GSM 1900	GSM	30.5	29.89	N/A	-0.06	15 mm	Open	1262M	1	1:8.3	back	0.235	1.151	0.270	A19
1850.20	512	GSM 1900	GSM	30.5	29.89	N/A	-0.07	15 mm	Closed	1262M	1	1:8.3	back	0.103	1.151	0.119	
836.60	4183	UMTS 850	RMC	25.5	24.81	80	0.00	15 mm	Open	1255M	N/A	1:1	back	0.191	1.172	0.224	
836.60	4183	UMTS 850	RMC	25.5	24.81	80	0.02	15 mm	Closed	1274M	N/A	1:1	back	0.345	1.172	0.404	A21
1712.40	1312	UMTS 1750	RMC	24.0	23.42	2	0.07	15 mm	Open	2635M	N/A	1:1	back	0.494	1.143	0.565	A23
1712.40	1312	UMTS 1750	RMC	24.0	23.42	2	-0.13	15 mm	Closed	2635M	N/A	1:1	back	0.212	1.143	0.242	
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	0.02	15 mm	Open	1262M	N/A	1:1	back	0.528	1.023	0.540	A25
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	0.02	15 mm	Closed	1629M	N/A	1:1	back	0.230	1.023	0.235	
		ANSI / IE	EE C95.1 199	2 - SAFETY	LIMIT		•						Body				
			Spatial F	Peak								1.6 \	N/kg (m	W/g)			
		Uncontrol	ed Exposure	General Pop	ulation							averag	jed over	1 gram			

Table 11-20 LTE Body-Worn SAR

MHz	EQUENCY	,								EMENT	LOOL.	_									
	C			Bandwidth		Maximum	Conducted	Tune	Power	**************************************	Device		DD 0'	nn o#		0:1:		SAR (1g)	Scaling	Reported SAR (1g)	Plot#
707.50		h.	Mode	[MHz]	Cover Type	Allowed Power [dBm]	Power [dBm]	State	Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Factor	(W/kg)	Plot #
707.50	23095	Mid	LTE Band 12	10	Open	25.0	24.55	0	0.00	0	1271M	QPSK	1	0	15 mm	back	1:1	0.191	1.109	0.212	
707.50	23095	Mid	LTE Band 12	10	Open	24.0	23.70	0	0.01	1	1271M	QPSK	25	25	15 mm	back	1:1	0.134	1.072	0.144	
707.50	23095	Mid	LTE Band 12	10	Closed	25.0	24.55	0	0.02	0	1271M	QPSK	1	0	15 mm	back	1:1	0.234	1.109	0.260	A27
707.50	23095	Mid	LTE Band 12	10	Closed	24.0	23.70	0	-0.01	1	1271M	QPSK	25	25	15 mm	back	1:1	0.185	1.072	0.198	
782.00	23230	Mid	LTE Band 13	10	Open	25.0	24.64	27	-0.05	0	1271M	QPSK	1	25	15 mm	back	1:1	0.184	1.086	0.200	A29
782.00	23230	Mid	LTE Band 13	10	Open	24.0	23.62	27	0.03	1	1271M	QPSK	25	25	15 mm	back	1:1	0.165	1.091	0.180	
782.00	23230	Mid	LTE Band 13	10	Closed	25.0	24.64	27	-0.11	0	1271M	QPSK	1	25	15 mm	back	1:1	0.178	1.086	0.193	
782.00	23230	Mid	LTE Band 13	10	Closed	24.0	23.62	27	0.03	1	1271M	QPSK	25	25	15 mm	back	1:1	0.157	1.091	0.171	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	25.0	24.26	0	-0.05	0	1272M	QPSK	1	36	15 mm	back	1:1	0.185	1.186	0.219	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	24.0	23.32	0	-0.06	1	1272M	QPSK	36	37	15 mm	back	1:1	0.149	1.169	0.174	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	25.0	24.26	2	-0.01	0	1629M	QPSK	1	36	15 mm	back	1:1	0.283	1.186	0.336	A31
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	24.0	23.32	2	-0.02	1	1629M	QPSK	36	37	15 mm	back	1:1	0.216	1.169	0.253	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	24.0	22.68	18	-0.05	0	1271M	QPSK	1	50	15 mm	back	1:1	0.479	1.355	0.649	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	Open	24.0	22.52	18	-0.01	0	1271M	QPSK	1	99	15 mm	back	1:1	0.474	1.406	0.666	
1770.00	132572	High	LTE Band 66 (AWS)	20	Open	24.0	22.77	59	-0.01	0	1271M	QPSK	1	99	15 mm	back	1:1	0.492	1.327	0.653	A33
1770.00	132572	High	LTE Band 66 (AWS)	20	Open	23.0	21.91	59	-0.03	1	1271M	QPSK	50	50	15 mm	back	1:1	0.402	1.285	0.517	
1770.00	132572	High	LTE Band 66 (AWS)	20	Closed	24.0	22.77	60	0.06	0	1271M	QPSK	1	99	15 mm	back	1:1	0.266	1.327	0.353	
1770.00	132572	High	LTE Band 66 (AWS)	20	Closed	23.0	21.91	60	0.07	1	1271M	QPSK	50	50	15 mm	back	1:1	0.214	1.285	0.275	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Open	24.0	23.74	61	-0.05	0	1262M	QPSK	1	0	15 mm	back	1:1	0.542	1.062	0.576	A35
1860.00	26140	Low	LTE Band 25 (PCS)	20	Open	23.0	22.81	61	-0.01	1	1262M	QPSK	50	0	15 mm	back	1:1	0.445	1.045	0.465	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Closed	24.0	23.74	61	-0.05	0	1262M	QPSK	1	0	15 mm	back	1:1	0.224	1.062	0.238	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Closed	23.0	22.81	61	0.02	1	1262M	QPSK	50	0	15 mm	back	1:1	0.173	1.045	0.181	
			ANS			SAFETY LIMI	т									Во	•				
			U		patial Peak	: neral Populat										-	ı (mW/g) ver 1 gram				

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Table 11-21 LTE Band 41 Body-Worn SAR

								MEASUF													
Power Class	FI	REQUENC	r	Mode	Bandwidth	Cover Type	Maximum Allowed	Conducted	Power	MPR [dB]	Device Serial	Modulation	RR Size	RB Offset	Snacing	Side	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
	MHz	(th.		[MHz]		Power [dBm]	Power [dBm]	Drift [dB]		Number						, _,	(W/kg)	Factor	(W/kg)	
Power Class 3											2634M	QPSK	1	50	15 mm	back	1:1.58	0.137	1.242	0.170	
Power Class 3											2634M	QPSK	50	50	15 mm	back	1:1.58	0.109	1.211	0.132	
Power Class 2											2634M	QPSK	1	50	15 mm	back	1:2.31	0.148	1.282	0.190	A37
Power Class 3	2680.00	41490	High	LTE Band 41	20	Closed	25.0	24.06	-0.10	0	2634M	QPSK	1	50	15 mm	back	1:1.58	0.099	1.242	0.123	
Power Class 3												QPSK	50	50	15 mm	back	1:1.58	0.078	1.211	0.094	
		-	NSI / IEE	E C95.1 1992 - S	AFETY LIM	П										Body					
				Spatial Peak											1.6 V	//kg (m\	N/g)				
		Un	controlle	d Exposure/Gene	eral Popular	tion									average	ed over 1	1 gram				

Table 11-22 NR Body-Worn SAR

										MEASUR		RESULTS										
F	REQUENCY		Mode	Bandwidth	Cover Type	Maximum Allowed	Conducted	Power	MPR [dB]	Antenna	Serial	Waveform	Modulation	RR Size	RB Offset	Snacing	Side	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	Ch	L.		[MHz]		Power [dBm]	Power [dBm]	Drift [dB]	()	State	Number							Cycle	(W/kg)	Factor	(W/kg)	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	25.0	23.69	0.04	0	0	1272M	DFT-S-OFDM	QPSK	1	53	15 mm	back	1:1	0.206	1.352	0.279	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	25.0	23.61	-0.12	0	0	1272M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.192	1.377	0.264	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	23.5	22.95	-0.03	1.5	0	1272M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.128	1.135	0.145	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	25.0	23.69	0.08	0	2	1272M	DFT-S-OFDM	QPSK	1	53	15 mm	back	1:1	0.284	1.352	0.384	A39
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	25.0	23.61	0.03	0	2	1272M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.277	1.377	0.381	
836.50										2	1272M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.223	1.135	0.253	
1720.00	344000	Low	NR Band n66 (AWS)	20	Open	24.0	23.39	0.04	0	18	2635M	DFT-S-OFDM	QPSK	1	104	15 mm	back	1:1	0.615	1.151	0.708	
1745.00	349000	Mid	NR Band n66 (AWS)	20	Open	24.0	23.30	0.02	0	18	2635M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.624	1.175	0.733	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	24.0	23.32	0.04	0	59	2635M	DFT-S-OFDM	QPSK	1	53	15 mm	back	1:1	0.625	1.169	0.731	A41
1720.00	344000	Low	NR Band n66 (AWS)	20	Open	24.0	23.28	-0.04	0	59	2635M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.586	1.180	0.691	
1745.00	349000	Mid	NR Band n66 (AWS)	20	Open	22.5	21.95	0.07	1.5	59	2635M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.426	1.135	0.484	
1720.00	344000	Low	NR Band n66 (AWS)	20	Closed	24.0	23.39	0.16	0	60	2635M	DFT-S-OFDM	QPSK	1	104	15 mm	back	1:1	0.124	1.151	0.143	
1720.00	344000	Low	NR Band n66 (AWS)	20	Closed	24.0	23.28	0.05	0	60	2635M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.133	1.180	0.157	
1745.00	349000	Mid	NR Band n66 (AWS)	20	Closed	22.5	60	2635M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.121	1.135	0.137				
			AN		95.1 1992 - Spatial Pea						1	Boo .6 W/kg	•									
			Unce			eneral Popul	ation							eraged ov		n						

Table 11-23 DTS Body-Worn SISO SAR - Open

								ME	ASUREM	ENT RES	ULTS									
FREQUI	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Cover Type	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.		Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2412	1	802.11b	DSSS	22	19.0	18.84	-0.07	15 mm	2	Open	1262M	1	back	99.9	0.072	0.057	1.038	1.001	0.059	
		ANSI / II	EEE C95.1 19	92 - SAFET	Y LIMIT										Body					
			Spatial												/kg (mW/g)					
		Uncontro	lled Exposure	General P	opulation									average	d over 1 gran	n				

Table 11-24 DTS Body-Worn SISO SAR - Closed

								<i>~</i> , ·	• • • • •	<u> </u>	<u> </u>	•		<u> </u>						
								ME	ASUREM	ENT RES	ULTS									
FREC	UENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Cover Type	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Config.		Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2412	1	802.11b	DSSS	22	19.0	18.84	-0.12	15 mm	2	Closed	1274M	1	back	99.9	0.020	0.015	1.038	1.001	0.016	
		ANSI / II	EEE C95.1 19	92 - SAFET	YLIMIT										Body					
			Spatial	Peak										1.6 W	/kg (mW/g)					
		Uncontro	lled Exposure	General P	opulation									average	d over 1 gran	n				

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Table 11-25 DTS MIMO Body-Worn SAR - Open

								ME	ASURE	MENT F	RESULTS	3	Ī								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	Power (Ant 2) [dBm]	[dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	0.11	15 mm	MIMO	1262M	1	back	99.9	0.271	0.223	1.033	1.001	0.231	A43
			ANSI / IE	EE C95.1	1992 - SAFET	YLIMIT										Body					
				Spatia	al Peak											1.6 W/kg (m	W/g)				
			Uncontrol	led Exposu	re/General P	opulation									a	veraged over	1 gram				

Note: To achieve the 22 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 19.0 dBm.

Table 11-26 DTS MIMO Body-Worn SAR - Closed

								ME	ASURE	MENT F	RESULTS	;									
FREG	UENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	Power (Ant 2) [dBm]	[dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	-0.15	15 mm	MIMO	1274M	1	back	99.9	0.128	0.100	1.033	1.001	0.103	
			ANSI / IE	EE C95.1 1	1992 - SAFET	YLIMIT			•							Body					
				Spatia	al Peak											1.6 W/kg (m)	W/g)				
			Uncontroll	ed Exposu	re/General P	opulation									a	veraged over	1 gram				

Note: To achieve the 22 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 19.0 dBm.

Table 11-27 NII SISO Body-Worn SAR - Open

							ı	MEASU	REMENT	RESUL	.TS								
FREQU	ENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed	Conducted Power [dBm]	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			Drift (aB)		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)				
5260	52	802.11a	OFDM	20	18.0	17.98	-0.21	15 mm	1	1274M	6	back	98.9	0.028	0.016	1.005	1.011	0.016	
5720	144	802.11a	OFDM	-0.18	15 mm	1	1274M	6	back	98.9	0.065	0.047	1.033	1.011	0.049				
5825	165	802.11a	OFDM	20	18.0	17.80	-0.15	15 mm	1	1274M	6	back	98.9	0.063	0.042	1.047	1.011	0.044	
		ANSI / I	EEE C95.1 19	92 - SAFET	YLIMIT									Body					
			Spatial	Peak										1.6 W/kg (m\	N/g)				
		Uncontro	lled Exposure	e/General P	opulation								a١	eraged over	l gram				

Table 11-28 NII SISO Body-Worn SAR - Closed

						INII 2	130 [souy	/-VVOI	11 3	1	CIO	sea						
							ı	MEASU	REMENT	RESUL	_TS								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5260	52	802.11a	OFDM	20	18.0	17.98	-0.12	15 mm	1	1274M	6	back	98.9	0.000	0.000	1.005	1.011	0.000	
5720	144	802.11a	OFDM	20	18.0	17.86	-0.13	15 mm	1	1274M	6	back	98.9	0.004	0.000	1.033	1.011	0.000	
5825	165	802.11a	OFDM	20	18.0	17.80	-0.12	15 mm	1	1274M	6	back	98.9	0.000	0.000	1.047	1.011	0.000	
		ANSI / I	EEE C95.1 19	92 - SAFET	Y LIMIT									Body					
			Spatial	Peak										1.6 W/kg (m\	N/g)				
		Uncontro	lled Exposure	e/General P	opulation								a۱	eraged over 1	gram				

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Table 11-29 NII MIMO Body-Worn SAR - Open

								ME	ASURE	MENT F	RESULTS	;									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	Power (Ant 2) [dBm]	[dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5260	52	802.11n	OFDM	20	18.0	17.91	18.0	17.89	-0.13	15 mm	MIMO	1274M	13	back	99.7	0.113	0.072	1.026	1.003	0.074	
5600	120	802.11n	OFDM	20	18.0	17.77	18.0	17.99	0.07	15 mm	MIMO	1274M	13	back	99.7	0.113	0.077	1.054	1.003	0.081	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	-0.14	15 mm	MIMO	1274M	13	back	99.7	0.117	0.080	1.023	1.003	0.082	A45
			ANSI / IE	EE C95.1 1	1992 - SAFET	Y LIMIT										Body					
				Spatia	al Peak											1.6 W/kg (m	W/g)				
			Uncontrol	led Exposu	re/General F	opulation									av	eraged over	1 gram				

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 18.0 dBm.

Table 11-30 NII MIMO Body-Worn SAR - Closed

								ME	ASURE	MENT F	RESULTS	;									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	[dBm]	[dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5260	52	802.11n	OFDM	20	18.0	17.91	18.0	17.89	0.06	15 mm	MIMO	1262M	13	back	99.7	0.017	0.008	1.026	1.003	0.008	
5600	120	802.11n	OFDM	20	18.0	17.77	18.0	17.99	0.16	15 mm	MIMO	1262M	13	back	99.7	0.004	0.002	1.054	1.003	0.002	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	0.19	15 mm	MIMO	1262M	13	back	99.7	0.017	0.000	1.023	1.003	0.000	
			ANSI / IE	EE C95.1 1	992 - SAFET	Y LIMIT										Body					
				Spatia	al Peak											1.6 W/kg (m	N/g)				
			Uncontrol	led Exposu	re/General P	opulation									av	eraged over	1 gram				

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 18.0 dBm.

Table 11-31 DSS Body-Worn SAR - Open

					L	, J J	ouy-	VVOIII	אותט	- Op	CII						
						M	IEASUF	REMENT	RESUL	TS							
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]	., 5	Config.	Number	(Mbps)		(%)	(W/kg)	Power)	Cycle)	(W/kg)	
2441	39	Bluetooth	FHSS	16.0	15.55	-0.14	15 mm	1	1262M	1	back	76.8	0.036	1.109	1.302	0.052	A47
2480	78	Bluetooth	FHSS	17.0	16.60	0.21	15 mm	2	1262M	1	back	76.80	0.030	1.096	1.302	0.043	
		ANSI / IEEE C	C95.1 1992 - S	SAFETY LIMIT	Γ							Ī	Body				
			Spatial Peak									1.6 W/	kg (mW/g)				
		Uncontrolled E	xposure/Gen	eral Populati	ion							averaged	d over 1 gram	1			

Table 11-32
DSS Body-Worn SAR - Closed

					υ.	33 DI	Juy-v	WOITI 3	JAK	- CIO	seu						
						N	IEASUF	REMENT	RESUL	TS							
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	(W/kg)	Power)	Cycle)	(W/kg)	
2441	39	Bluetooth	FHSS	16.0	15.55	0.16	15 mm	1	1262M	1	back	76.8	0.010	1.109	1.302	0.014	
2480	78	Bluetooth	FHSS	17.0	16.60	-0.12	15 mm	2	1262M	1	back	76.80	0.003	1.096	1.302	0.004	
		ANSI / IEEE (C95.1 1992 - S	SAFETY LIMIT								E	Body				
			Spatial Peak									1.6 W/	kg (mW/g)				
		Uncontrolled F	xposure/Gen	eral Populati	on							average	l over 1 gran	n			

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11.3 Standalone Open Hotspot SAR Data

Table 11-33 GPRS/UMTS Hotspot SAR Data

					<u> </u>	IXO/				RESULT			utu					
Math	FREQUE	FNCY			Maximum										SAR (1a)	Г	Reported SAR	
March 196			Mode	Service	Allowed			Power Drift [dB]	Spacing	Cover Type	Serial		Duty Cycle	Side		Scaling Factor		Plot#
March 196			GSM 850	GPRS	28.5	27.55	N/A	-0.14	10 mm	Open	1272M	3	1:2.76	back		1.245		
March 196	836.60	190	GSM 850	GPRS	28.5	27.55		-0.09	10 mm		1272M	3	1:2.76	front	0.167	1.245	0.208	
March Marc	836.60	190	GSM 850	GPRS	28.5	27.55		-0.13	10 mm		1272M	3	1:2.76	bottom	0.100	1.245	0.125	
March 150	836.60	190	GSM 850	GPRS	28.5	27.55	N/A	0.00	10 mm		1272M	3	1:2.76	right	0.163	1.245	0.203	
March 160	836.60	190	GSM 850	GPRS	28.5	27.55	N/A	-0.10	10 mm		1272M	3	1:2.76		0.034	1,245	0.042	
March 160		_						_		-								A18
March 196								_										
March 190																		
Berlin 150																		
1908 810 CGM 1900										-				_				
1908 80	_	_																
1908									-									
100.00 101																		
100.00 810								_	_									
1800									_	-								
1000.0 810 GM1100 GPRS 22.5 21.00 NA 4.15 5 mm Cloud 20594 3 1.278 foot 6.146 1.146 0.170 1903.0 512 GM1100 GPRS 22.5 21.85 NA 4.13 5 mm Cloud 20594 3 1.278 foot 6.600 6.000 1.511 0.720 1900.0 661 CM1 0504190 GPRS 22.5 21.00 NA 4.13 5 mm Cloud 20594 3 1.278 foot 6.600 6.000 1.511 0.720 1900.0 661 CM1 0504190 GPRS 22.5 21.00 NA 4.13 5 mm Cloud 20594 3 1.278 foot 6.604 1.146 0.702 1900.0 661 CM1 0504190 GPRS 22.5 21.00 NA 4.13 5 mm Cloud 20594 3 1.278 foot 6.604 1.146 0.702 1900.0 661 0.0014100 GPRS 22.5 21.00 NA 4.13 5 mm Cloud 20594 3 1.278 foot 6.604 1.146 0.702 1900.0 661 0.0014100 GPRS 22.5 21.00 NA 4.103 5 mm Cloud 20594 3 1.278 foot 6.604 1.146 0.702 1900.0 661 0.0014100 GPRS 22.5 21.00 NA 4.10 5 mm Cloud 20594 NA 1.1 back 0.271 1.101 0.306 1900 GPRS 22.5 21.00 NA 4.101 0.0014 1900.0 661 0.0014 1900 GPRS 22.5 21.00 NA 4.10 1900 GPRS 22.5 21									_	-								
150,00 517 COSH 1900 CPRS 22.5 21.65 NA -0.13 Smm Closed 26.584 3 12.76 bottom Co.60 1.161 0.730																		
1800.00 661 COSH 1900 COPPS 22.5 21.84 NA -0.13 S. mm Closed 28.58M 3 12.76 bottom CoSH 5 1.164 C. 775 1908.00 810 COSH 1900 COPPS 22.5 21.90 NA -0.13 S. mm Closed 28.58M 3 12.76 bottom COSH 5 1.164 C. 775 1.168 C. 775 C. 785 C. 785 C. 785 C. 785 NA -0.13 S. mm Closed 28.58M 3 12.76 bottom COSH 5 1.168 C. 785 C.		_																
1008.00 810 COS41100 COPPG 22.5 21.00 NA																		
1008.00 810 GSM 11000 GP4S 22.5 21.90 NA -0.13 Smm Closed 205MM 3 12.7% right G007 1.146 0.100																		400
1009.00 810 GSM 1900 GPHS 22.5 21.90 NA -0.12 Smm Closed 2050M 3 1.276 NH 0.041 1.146 0.047 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.02 10mm Open 1256M NA 111 book 0.595 1.315 0.315 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.02 10mm Open 1256M NA 111 book 0.595 1.315 0.315 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.02 10mm Open 1256M NA 111 book 0.597 1.315 0.315 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.02 10mm Open 1256M NA 111 book 0.077 1.315 0.315 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.02 10mm Open 1256M NA 111 book 0.077 1.315 0.315 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.02 10mm Open 1256M NA 111 book 0.597 1.315 0.315 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.02 10mm Open 1256M NA 111 book 0.597 1.315 0.315 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.02 10mm Open 1256M NA 111 book 0.597 1.346 0.709 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.02 10mm Open 1256M NA 111 book 0.597 1.346 0.709 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.02 5 mm Closed 1274M NA 111 book 0.597 1.346 0.709 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.01 5 mm Closed 1274M NA 111 book 0.597 1.346 0.709 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.01 5 mm Closed 1274M NA 111 book 0.178 1.315 0.214 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.01 5 mm Closed 1274M NA 111 book 0.178 1.315 0.214 646.00 4233 LMTS 860 RMC 24.0 22.81 80 0.01 5 mm Closed 1274M NA 111 book 0.163 1.315 0.316 646.00 4233 LMTS 860 RMC 34.0 22.81 80 0.00 5 mm Closed 1274M NA 111 book 0.163 1.315 0.316 646.00 4233 LMTS 860 RMC 34.0 22.81 80 0.00 5 mm Closed 1274M NA 111 book 0.163 1.315 0.316 646.00 4233 LMTS 860 RMC 34.0 22.81 80 0.00 5 mm Closed 1274M NA 11 book 0.163 1.315 0.316 646.00 423 LMTS 860 RMC 34.0 22.81 80 0.00 5 mm Closed 3254M NA 11 book 0.163 1.315 0.316 646.00 423 LMTS 860 RMC 34.0 22.81 80 0.00 5 mm Closed 3254M NA 11 book 0.163 1.315 0.316 646.00 423 LMTS 1700 RMC 17.5 16.39 2 0.00 10mm Open 2556M NA 11 book 0.00 1.311 0.310 646.00 423 LMTS 1700 RMC 17.5 16.39 2 0.00 10mm Open 2556M NA 11 book 0.00 1.311 0.00 646.00 423 LMTS 1700 RMC 17.5 16.3								-					_					A20
8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 -0.02 10 mm Open 1250M NN 111 back 0.271 1.315 0.305 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 -0.02 10 mm Open 1250M NN 111 back 0.272 1.315 0.305 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 -0.03 10 mm Open 1250M NN 111 back 0.277 1.315 0.105 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 -0.03 10 mm Open 1250M NN 111 back 0.277 1.315 0.105 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 -0.05 10 mm Open 1250M NN 111 back 0.277 1.315 0.105 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 -0.05 10 mm Open 1250M NN 111 back 0.504 1.315 0.105 8-66.00 4233 LMTS 860 RMC 24.0 22.61 80 -0.05 10 mm Open 1250M NN 111 back 0.504 1.315 0.105 8-66.00 4233 LMTS 860 RMC 24.0 22.61 80 -0.05 10 mm Open 1250M NN 111 back 0.554 1.322 0.005 8-66.00 4233 LMTS 860 RMC 24.0 22.61 80 0.012 8 mm Closed 1274M NN 111 back 0.553 1.315 0.727 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 0.015 8 mm Closed 1274M NN 111 back 0.553 1.315 0.727 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 0.015 8 mm Closed 1274M NN 111 back 0.553 1.315 0.727 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 0.015 8 mm Closed 1274M NN 111 back 0.553 1.315 0.727 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 0.015 8 mm Closed 1274M NN 111 back 0.553 1.315 0.727 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 0.01 8 mm Closed 1274M NN 111 back 0.553 1.315 0.727 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 0.01 8 mm Closed 1274M NN 111 back 0.224 1.315 0.728 8-66.00 4233 LMTS 860 RMC 24.0 22.81 80 0.01 8 mm Closed 1274M NN 111 back 0.225 1.315 0.165 8-66.00 4233 LMTS 860 RMC 34.0 22.81 80 0.01 8 mm Closed 1274M NN 111 back 0.226 1.315 0.165 8-66.00 4233 LMTS 860 RMC 34.0 22.81 80 0.01 8 mm Closed 1274M NN 111 back 0.226 1.315 0.165 8-66.00 4233 LMTS 860 RMC 34.0 22.81 80 0.01 8 mm Closed 1274M NN 111 back 0.226 1.315 0.165 8-66.00 4233 LMTS 860 RMC 34.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3										-								
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1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 10 mm Open 2635M NA 1:1 bottom 0.371 1.291 0.479 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 10 mm Open 2635M NA 1:1 left 0.025 1.291 0.032 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 10 mm Open 2635M NA 1:1 left 0.080 1.291 0.103 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.499 1.291 0.554 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.499 1.291 0.554 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.051 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.051 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.051 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.051 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.639 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.495 1.291 0.012 1712-40 1312 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 bottom 0.495 1.291 0.029 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 bottom 0.441 1.202 0.029 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 bottom 0.441 1.202 0.025 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 bottom 0.444 1.202 0.055 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 bottom 0.424 1.202 0.055 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Closed						16.39			10 mm	Open			1:1	back	0.256			
1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 10 mm Open 2635M NA 1:1 left 0.060 1.291 0.032 17240 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 betto 0.079 1.291 0.010 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.02 5 mm Closed 2635M NA 1:1 betto 0.079 1.291 0.011 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.02 5 mm Closed 2635M NA 1:1 betto 0.079 1.291 0.011 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 betto 0.079 1.291 0.011 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 betto 0.079 1.291 0.011 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 betto 0.079 1.391 0.058 1.732-40 1412 UMTS 1750 RMC 17.5 16.22 2 0.066 5 mm Closed 2635M NA 1:1 betto 0.039 1.343 0.536 1752-60 1513 UMTS 1750 RMC 17.5 16.29 2 0.018 5 mm Closed 2635M NA 1:1 betto 0.099 1.345 0.536 1752-60 1513 UMTS 1750 RMC 17.5 16.39 2 0.018 5 mm Closed 2635M NA 1:1 left 0.009 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.018 5 mm Closed 2635M NA 1:1 left 0.009 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.018 5 mm Closed 2635M NA 1:1 left 0.009 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.018 5 mm Closed 2635M NA 1:1 left 0.009 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.018 5 mm Closed 2635M NA 1:1 left 0.009 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.018 5 mm Closed 2635M NA 1:1 left 0.009 1.291 0.009 1.291 0.008 1852-40 2662 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 left 0.009 1.291 0.009 1.291 0.009 1.292 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 left 0.009 1.202 0.005 1852-40 2662 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 left 0.009 1.202 0.005 1852-40 2662 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 left 0.009 1.202 0.005 1852-40 2662 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 left 0.009 1.202 0.005 1852-40 2662 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 left 0.009 1.202 0.005 1852-40 2662 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M	1712.40	1312	UMTS 1750	RMC	17.5	16.39		0.05	10 mm	Open	2635M	N/A	1:1	front	0.186	1.291	0.240	
1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.05 10 mm Open 2635M NA 1:1 left 0.060 1.291 0.103 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 left 0.060 0.1291 0.101 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.101 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.639 1732-40 1412 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.639 1732-40 1412 UMTS 1750 RMC 17.5 16.22 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.639 1732-40 1412 UMTS 1750 RMC 17.5 16.05 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.015 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.022 1852-40 3626 UMTS 1900 RMC 16.5 15.70 13 -0.02 10 mm Open 2635M NA 1:1 bottom 0.465 1.202 0.242 1852-40 3626 UMTS 1900 RMC 16.5 15.70 13 -0.05 10 mm Open 2635M NA 1:1 bottom 0.341 1.202 0.025 1852-40 3626 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 bottom 0.341 1.202 0.025 1852-40 3626 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 bottom 0.341 1.202 0.025 1852-40 3626 UMTS 1900 RMC 16.5 15.70 13 0.00 5 mm Closed 2635M NA 1:1 bottom 0.341 1.202 0.025 1852-40 3626 UMTS 1900 RMC 16.5 15.70 13 0.00 5 mm Closed 2635M NA 1:1 bottom 0.341 1.202 0.025 1852-40 3626 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M NA 1:1 bottom 0.341 1.202 0.025 1.002 0.025 1.002 0.025 0.		_				16.39			10 mm	Open			1:1	bottom	0.371			
1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M N/A 1:1 back 0.429 1.291 0.554 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.12 5 mm Closed 2635M N/A 1:1 back 0.429 1.291 0.101 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M N/A 1:1 bottom 0.495 1.291 0.639 1732-40 1412 UMTS 1750 RMC 17.5 16.22 2 0.006 5 mm Closed 2635M N/A 1:1 bottom 0.495 1.291 0.639 1732-40 1412 UMTS 1750 RMC 17.5 16.22 2 0.006 5 mm Closed 2635M N/A 1:1 bottom 0.495 1.291 0.639 1732-40 1412 UMTS 1750 RMC 17.5 16.22 2 0.006 5 mm Closed 2635M N/A 1:1 bottom 0.495 1.291 0.639 1732-40 1412 UMTS 1750 RMC 17.5 16.05 2 0.01 5 mm Closed 2635M N/A 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.18 5 mm Closed 2635M N/A 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M N/A 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M N/A 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M N/A 1:1 bottom 0.485 1.291 0.012 1712-40 1312 UMTS 1900 RMC 16.5 15.70 13 0.02 10 mm Open 2635M N/A 1:1 botch 0.201 1.202 0.242 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.01 10 mm Open 2635M N/A 1:1 botch 0.341 1.202 0.425 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 botch 0.341 1.202 0.025 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 botch 0.241 1.202 0.035 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 botch 0.244 1.202 0.035 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 botch 0.244 1.202 0.055 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 botch 0.244 1.202 0.055 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 botch 0.244 1.202 0.055 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 botch 0.244 1.202 0.055 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 8 mm Closed 2635M N/A 1:1 botch 0.244 1.202 0.055 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13						16.39			10 mm	Open			1:1	right	0.025			
1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.12 5 mm Closed 2635M NA 1:1 front 0.078 1.291 0.101 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2635M NA 1:1 bottom 0.465 1.291 0.639 1732-40 1412 UMTS 1750 RMC 17.5 16.22 2 -0.06 5 mm Closed 2635M NA 1:1 bottom 0.399 1.343 0.536 1752-20 1513 UMTS 1750 RMC 17.5 16.05 2 -0.01 5 mm Closed 2635M NA 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.18 5 mm Closed 2635M NA 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.18 5 mm Closed 2635M NA 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.485 1.396 0.687 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M NA 1:1 bottom 0.485 1.291 0.089 1.852-40 3626 UMTS 1900 RMC 16.5 15.70 13 -0.02 10 mm Open 2635M NA 1:1 bottom 0.411 1.202 0.242 1.852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 bottom 0.341 1.202 0.035 1.852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M NA 1:1 bottom 0.341 1.202 0.035 1.852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.00 5 mm Closed 2635M NA 1:1 bottom 0.424 1.202 0.035 1.852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M NA 1:1 bottom 0.424 1.202 0.035 1.852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M NA 1:1 bottom 0.424 1.202 0.055 1.852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M NA 1:1 bottom 0.424 1.202 0.055 1.852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M NA 1:1 bottom 0.424 1.202 0.055 1.852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M NA 1:1 bottom 0.424 1.202 0.055 1.852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M NA 1:1 bottom 0.424 1.202 0.055 1.852-40 3622 UMTS 1900 RMC 16.5						16.39			10 mm					left	0.080			
1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.00 5 mm Closed 2835M N/A 1:1 bottom 0.465 1.291 0.639 1752-40 1412 UMTS 1750 RMC 17.5 16.22 2 -0.06 5 mm Closed 2835M N/A 1:1 bottom 0.399 1.343 0.536 1752-20 1513 UMTS 1750 RMC 17.5 16.05 2 -0.01 5 mm Closed 2835M N/A 1:1 bottom 0.485 1.396 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.18 5 mm Closed 2835M N/A 1:1 left 0.009 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.18 5 mm Closed 2835M N/A 1:1 left 0.009 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2835M N/A 1:1 left 0.009 1.291 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2835M N/A 1:1 left 0.009 1.291 0.021 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 -0.02 10 mm Open 2835M N/A 1:1 back 0.201 1.202 0.242 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 -0.03 10 mm Open 2835M N/A 1:1 bottom 0.341 1.202 0.410 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2835M N/A 1:1 left 0.029 1.202 0.035 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2835M N/A 1:1 left 0.029 1.202 0.035 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2835M N/A 1:1 left 0.029 1.202 0.035 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 5 mm Closed 2835M N/A 1:1 left 0.029 1.202 0.035 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.00 5 mm Closed 2835M N/A 1:1 left 0.029 1.202 0.035 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2835M N/A 1:1 left 0.029 1.202 0.035 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2835M N/A 1:1 left 0.029 1.202 0.035 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2835M N/A 1:1 left 0.029 1.202 0.055 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2835M N/A 1:1 left 0.055 1.202 0.055 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2835M N/A 1:1 left 0.055 1.202 0.055 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2835M N/A 1:1 left 0.055 1.202 0.055 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2835M N/A 1:1 left 0.055 1.202 0.055 1852-40 3262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm	1712.40	1312	UMTS 1750	RMC	17.5	16.39		0.00	5 mm	Closed	2635M	N/A	1:1	back	0.429	1.291	0.554	
1732-40 1412 UMTS 1750 RMC 17.5 16.22 2 -0.06 5 mm Closed 2635M N/A 1:1 bottom 0.369 1.343 0.536 1752-60 1513 UMTS 1750 RMC 17.5 16.06 2 -0.01 5 mm Closed 2635M N/A 1:1 bottom 0.465 1.366 0.677 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.16 5 mm Closed 2635M N/A 1:1 left 0.009 1.281 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M N/A 1:1 left 0.009 1.281 0.012 1712-40 1312 UMTS 1750 RMC 17.5 16.39 2 0.01 5 mm Closed 2635M N/A 1:1 left 0.009 1.281 0.012 1712-40 1312 UMTS 1750 RMC 16.5 15.70 13 -0.02 10 mm Open 2635M N/A 1:1 left 0.089 1.291 0.089 1.852-40 3626 UMTS 1900 RMC 16.5 15.70 13 -0.05 10 mm Open 2635M N/A 1:1 bottom 0.341 1.202 0.242 1852-40 3626 UMTS 1900 RMC 16.5 15.70 13 -0.06 10 mm Open 2635M N/A 1:1 lottom 0.341 1.202 0.410 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 lottom 0.341 1.202 0.025 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 lottom 0.341 1.202 0.025 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 lottom 0.341 1.202 0.035 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 lottom 0.341 1.202 0.035 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 lottom 0.341 1.202 0.035 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 lottom 0.424 1.202 0.035 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.00 5 mm Closed 2635M N/A 1:1 lottom 0.424 1.202 0.035 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M N/A 1:1 lottom 0.424 1.202 0.056 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 lottom 0.424 1.202 0.510 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 lottom 0.424 1.202 0.505 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 lott 0.005 1.202 0.055 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 lott 0.005 1.202 0.055 1852-40 3622 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 lott 0.005 1.202 0.055 1852-40 3622 UMTS 1900 RMC 16.5		_																
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1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.00 10 mm Open 2635M N/A 1:1 right 0.021 1.202 0.025 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 10 mm Open 2635M N/A 1:1 left 0.029 1.202 0.035 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 10 mm Open 2635M N/A 1:1 left 0.029 1.202 0.035 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M N/A 1:1 back 0.275 1.202 0.331 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M N/A 1:1 bottom 0.424 1.202 0.510 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 bottom 0.424 1.202 0.510 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 left 0.042 1.202 0.550 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 left 0.042 1.202 0.050 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.08 5 mm Closed 2635M N/A 1:1 left 0.005 1.202 0.060 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 left 0.005 1.202 0.042 N/A N/A 1:1 left 0.005 1.202 0.042 N/A N/A 1:1 left 0.005 1.202 0.042 N/A N/A Spatial Peak	1852.40	9262		RMC	16.5	15.70	13	-0.13	10 mm	Open	2635M	N/A	1:1	front	0.172	1.202	0.207	
1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 10 mm Open 2635M N/A 1:1 left 0.029 1.202 0.035 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M N/A 1:1 back 0.275 1.202 0.331 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M N/A 1:1 back 0.275 1.202 0.331 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M N/A 1:1 bottom 0.424 1.202 0.510 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 bottom 0.424 1.202 0.510 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 left 0.005 1.202 0.050 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 left 0.005 1.202 0.050 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 left 0.005 1.202 0.042 N/A N/A 1:1 left 0.005 1.202 0.042 N/A N/A 1:1 left 0.005 1.202 0.042 N/A N/A 1:1 left 0.005 1.202 0.042	1852.40	9262	UMTS 1900	RMC	16.5	15.70	13	-0.06	10 mm	Open	2635M	N/A	1:1	bottom	0.341	1.202	0.410	
1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 -0.09 5 mm Closed 2635M N/A 1:1 back 0.275 1.202 0.331 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M N/A 1:1 back 0.275 1.202 0.331 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 -0.14 5 mm Closed 2635M N/A 1:1 bottom 0.424 1.202 0.510 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.550 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.550 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.050 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.050 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.042	1852.40	9262	UMTS 1900	RMC	16.5	15.70	13	0.00	10 mm	Open	2635M	N/A	1:1	right	0.021	1.202	0.025	
1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.01 5 mm Closed 2635M N/A 1:1 front 0.100 1.202 0.120 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 -0.14 5 mm Closed 2635M N/A 1:1 bottom 0.424 1.202 0.510 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.650 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.650 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.050 1852-40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 light 0.055 1.202 0.042 1.005 1.00	1852.40	9262	UMTS 1900	RMC	16.5	15.70	13	0.07	10 mm	Open	2635M	N/A	1:1	left	0.029	1.202	0.035	
1852.40 9262 UMTS 1900 RMC 16.5 15.70 13 -0.14 5 mm Closed 2635M N/A 1:1 bottom 0.424 1.202 0.510 1852.40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.050 1852.40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.050 1852.40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.042 ANSI / IEEE C95.1 1992 - SAFETY LIMT Spatial Peak 1.6 W/kg (mW/g)	1852.40	9262	UMTS 1900	RMC	16.5	15.70	13	-0.09	5 mm	Closed	2635M	N/A	1:1	back	0.275	1.202	0.331	
1852.40 9262 UMTS 1900 RMC 16.5 15.70 13 0.07 5 mm Closed 2635M N/A 1:1 light 0.042 1.202 0.050 1852.40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 left 0.035 1.202 0.042 ANSI / IEEE C95.1 1992 - SAFETY LIMT Spatial Peak Body 1.6 W/kg (mW/g)	1852.40	9262	UMTS 1900	RMC	16.5	15.70	13	0.01	5 mm	Closed	2635M	N/A	1:1	front	0.100	1.202	0.120	
1852.40 9262 UMTS 1900 RMC 16.5 15.70 13 0.18 5 mm Closed 2635M N/A 1:1 left 0.035 1.202 0.042 ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak 1.6 W/kg (mW/g)	1852.40	9262	UMTS 1900	RMC	16.5	15.70	13	-0.14	5 mm	Closed	2635M	N/A	1:1	bottom	0.424	1.202	0.510	A26
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak 1.6 W/kg (mW/g)	1852.40	9262	UMTS 1900	RMC	16.5	15.70	13	0.07	5 mm	Closed	2635M	N/A	1:1	right	0.042	1.202	0.050	
Spatial Peak 1.6 W/kg (mW/g)	1852.40	9262					13	0.18	5 mm	Closed	2635M	N/A	1:1		0.035	1.202	0.042	
			ANSI / IE			LIMIT							164		//a)			
arougos ora i gran			Uncontrol			ulation												

FCC ID: A3LSMF711B1	Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 11-34 LTE Band 12 Hotspot SAR

												UL JA								_	
								ı	MEASUR	EMENT	RESULT	s									
FF	REQUENCY	1	Mode	Bandwidth	Cover Type	Maximum Allowed	Conducted	Tune	Power	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	С	h.		[MHz]		Power [dBm]	Power [dBm]	State	Drift [dB]		Number				.,		.,.,.	(W/kg)	Factor	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	Open	23.5	22.31	0	0.07	0	1271M	QPSK	1	25	10 mm	back	1:1	0.188	1.315	0.247	
707.50	23095	Mid	LTE Band 12	10	Open	23.5	22.37	0	0.02	0	1271M	QPSK	25	12	10 mm	back	1:1	0.196	1.297	0.254	
707.50	23095	Mid	LTE Band 12	10	Open	23.5	22.31	0	-0.08	0	1271M	QPSK	1	25	10 mm	front	1:1	0.124	1.315	0.163	
707.50	23095	Mid	LTE Band 12	10	Open	23.5	22.37	0	-0.01	0	1271M	QPSK	25	12	10 mm	front	1:1	0.128	1.297	0.166	
707.50	23095	Mid	LTE Band 12	10	Open	23.5	22.31	0	0.13	0	1271M	QPSK	1	25	10 mm	bottom	1:1	0.035	1.315	0.046	
707.50	23095	Mid	LTE Band 12	10	Open	23.5	22.37	0	0.01	0	1271M	QPSK	25	12	10 mm	bottom	1:1	0.036	1.297	0.047	
707.50	23095	Mid	LTE Band 12	10	Open	23.5	22.31	0	-0.07	0	1271M	QPSK	1	25	10 mm	right	1:1	0.122	1.315	0.160	
707.50	23095	Mid	LTE Band 12	10	Open	23.5	22.37	0	-0.10	0	1271M	QPSK	25	12	10 mm	right	1:1	0.127	1.297	0.165	
707.50	23095	Mid	LTE Band 12	10	Open	23.5	22.31	0	0.12	0	1271M	QPSK	1	25	10 mm	left	1:1	0.079	1.315	0.104	
707.50	23095	Mid	LTE Band 12	10	Open	23.5	22.37	0	-0.02	0	1271M	QPSK	25	12	10 mm	left	1:1	0.083	1.297	0.108	
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.31	0	-0.04	0	1271M	QPSK	1	25	5 mm	back	1:1	0.609	1.315	0.801	A28
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.37	0	-0.03	0	1271M	QPSK	25	12	5 mm	back	1:1	0.606	1.297	0.786	
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.23	0	-0.04	0	1271M	QPSK	50	0	5 mm	back	1:1	0.587	1.340	0.787	
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.31	0	0.08	0	1271M	QPSK	1	25	5 mm	front	1:1	0.201	1.315	0.264	
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.37	0	-0.03	0	1271M	QPSK	25	12	5 mm	front	1:1	0.208	1.297	0.270	
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.31	0	0.06	0	1271M	QPSK	1	25	5 mm	bottom	1:1	0.079	1.315	0.104	
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.37	0	-0.02	0	1271M	QPSK	25	12	5 mm	bottom	1:1	0.080	1.297	0.104	
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.31	0	-0.08	0	1271M	QPSK	1	25	5 mm	right	1:1	0.058	1.315	0.076	
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.37	0	-0.04	0	1271M	QPSK	25	12	5 mm	right	1:1	0.059	1.297	0.077	
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.31	0	-0.03	0	1271M	QPSK	1	25	5 mm	left	1:1	0.121	1.315	0.159	
707.50	23095	Mid	LTE Band 12	10	Closed	23.5	22.37	0	-0.02	0	1271M	QPSK	25	12	5 mm	left	1:1	0.126	1.297	0.163	
			ANSI / IE	EE C95.1 1		TY LIMIT			•							Body					
			Unanatasi		l Peak	D										V/kg (mV					
			Uncontrol	led Exposu	re/General	Population									averag	ed over 1	gram				

Table 11-35 LTE Band 13 Hotspot SAR

											RESULT	s									
F	REQUENC	Y		Bandwidth		Maximum	Conducted	Tune	Power		Device							SAR (1g)	Scaling	Reported SAR (1g)	
MHz	C	Ch.	Mode	[MHz]	Cover Type	Allowed Power [dBm]	Power [dBm]	State	Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Factor	(W/kg)	Plot #
782.00	23230	Mid	LTE Band 13	10	Open	23.5	22.60	27	0.02	0	1271M	QPSK	1	49	10 mm	back	1:1	0.209	1.230	0.257	
782.00	23230	Mid	LTE Band 13	10	Open	23.5	22.64	27	-0.01	0	1271M	QPSK	25	12	10 mm	back	1:1	0.216	1.219	0.263	
782.00	23230	Mid	LTE Band 13	10	Open	23.5	22.60	27	-0.02	0	1271M	QPSK	1	49	10 mm	front	1:1	0.148	1.230	0.182	
782.00	23230	Mid	LTE Band 13	10	Open	23.5	22.64	27	0.00	0	1271M	QPSK	25	12	10 mm	front	1:1	0.152	1.219	0.185	
782.00	23230	Mid	LTE Band 13	10	Open	23.5	22.60	27	0.09	0	1271M	QPSK	1	49	10 mm	bottom	1:1	0.076	1.230	0.093	
782.00	23230	Mid	LTE Band 13	10	Open	23.5	22.64	27	0.01	0	1271M	QPSK	25	12	10 mm	bottom	1:1	0.078	1.219	0.095	
782.00	23230	Mid	LTE Band 13	10	Open	23.5	22.60	27	-0.03	0	1271M	QPSK	1	49	10 mm	right	1:1	0.159	1.230	0.196	
782.00	23230	Mid	LTE Band 13	10	Open	23.5	22.64	27	-0.08	0	1271M	QPSK	25	12	10 mm	right	1:1	0.144	1.219	0.176	
782.00	23230	Mid	LTE Band 13	10	Open	23.5	22.60	27	-0.03	0	1271M	QPSK	1	49	10 mm	left	1:1	0.076	1.230	0.093	
782.00	23230	Mid	LTE Band 13	10	Open	23.5	22.64	27	0.16	0	1271M	QPSK	25	12	10 mm	left	1:1	0.077	1.219	0.094	
782.00	23230	Mid	LTE Band 13	10	Closed	23.5	22.60	27	0.00	0	1271M	QPSK	1	49	5 mm	back	1:1	0.373	1.230	0.459	
782.00	23230	Mid	LTE Band 13	10	Closed	23.5	22.64	27	-0.01	0	1271M	QPSK	25	12	5 mm	back	1:1	0.402	1.219	0.490	A30
782.00	23230	Mid	LTE Band 13	10	Closed	23.5	22.60	27	0.13	0	1271M	QPSK	1	49	5 mm	front	1:1	0.055	1.230	0.068	
782.00	23230	Mid	LTE Band 13	10	Closed	23.5	22.64	27	0.00	0	1271M	QPSK	25	12	5 mm	front	1:1	0.071	1.219	0.087	
782.00	23230	Mid	LTE Band 13	10	Closed	23.5	22.60	27	-0.01	0	1271M	QPSK	1	49	5 mm	bottom	1:1	0.166	1.230	0.204	
782.00	23230	Mid	LTE Band 13	10	Closed	23.5	22.64	27	-0.02	0	1271M	QPSK	25	12	5 mm	bottom	1:1	0.179	1.219	0.218	
782.00	23230	Mid	LTE Band 13	10	Closed	23.5	22.60	27	0.05	0	1271M	QPSK	1	49	5 mm	right	1:1	0.073	1.230	0.090	
782.00	23230	Mid	LTE Band 13	10	Closed	23.5	22.64	27	-0.03	0	1271M	QPSK	25	12	5 mm	right	1:1	0.074	1.219	0.090	
782.00	23230	Mid	LTE Band 13	10	Closed	23.5	22.60	27	-0.01	0	1271M	QPSK	1	49	5 mm	left	1:1	0.071	1.230	0.087	
782.00	23230	Mid	LTE Band 13	10	Closed	23.5	22.64	27	-0.07	0	1271M	QPSK	25	12	5 mm	left	1:1	0.074	1.219	0.090	
				Spatia	992 - SAFE al Peak re/General	TY LIMIT Population						•		•		Body V/kg (mV ed over 1	•			•	

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Table 11-36 LTE Band 26 (Cell) Hotspot SAR

										•			<u> </u>								
								ı	MEASUR	REMENT	RESULT	S									
FI	REQUENCY	1	Mode	Bandwidth	Cover Type	Maximum Allowed	Conducted	Tune	Power	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	С	h.		[MHz]		Power [dBm]	Power [dBm]	State	Drift [dB]		Number							(W/kg)	Factor	(W/kg)	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	23.5	22.29	0	-0.02	0	1272M	QPSK	1	74	10 mm	back	1:1	0.248	1.321	0.328	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	23.5	22.31	0	-0.02	0	1272M	QPSK	36	18	10 mm	back	1:1	0.264	1.315	0.347	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	23.5	22.29	0	0.01	0	1272M	QPSK	1	74	10 mm	front	1:1	0.167	1.321	0.221	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	23.5	22.31	0	0.03	0	1272M	QPSK	36	18	10 mm	front	1:1	0.176	1.315	0.231	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	23.5	22.29	0	0.01	0	1272M	QPSK	1	74	10 mm	bottom	1:1	0.093	1.321	0.123	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	23.5	22.31	0	-0.02	0	1272M	QPSK	36	18	10 mm	bottom	1:1	0.095	1.315	0.125	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	23.5	22.29	0	0.01	0	1272M	QPSK	1	74	10 mm	right	1:1	0.123	1.321	0.162	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	23.5	22.31	0	-0.02	0	1272M	QPSK	36	18	10 mm	right	1:1	0.128	1.315	0.168	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	23.5	22.29	0	-0.03	0	1272M	QPSK	1	74	10 mm	left	1:1	0.033	1.321	0.044	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Open	23.5	22.31	0	-0.01	0	1272M	QPSK	36	18	10 mm	left	1:1	0.037	1.315	0.049	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	23.5	22.29	109	-0.09	0	1629M	QPSK	1	74	5 mm	back	1:1	0.547	1.321	0.723	A32
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	23.5	22.31	109	0.11	0	1629M	QPSK	36	18	5 mm	back	1:1	0.500	1.315	0.658	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	23.5	22.29	80	0.03	0	1629M	QPSK	1	74	5 mm	front	1:1	0.092	1.321	0.122	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	23.5	22.31	80	-0.11	0	1629M	QPSK	36	18	5 mm	front	1:1	0.123	1.315	0.162	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	23.5	22.29	81	0.02	0	1629M	QPSK	1	74	5 mm	bottom	1:1	0.146	1.321	0.193	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	23.5	22.31	27	0.06	0	1629M	QPSK	36	18	5 mm	bottom	1:1	0.153	1.315	0.201	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	23.5	22.29	109	0.10	0	1629M	QPSK	1	74	5 mm	right	1:1	0.072	1.321	0.095	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	23.5	22.31	109	0.08	0	1629M	QPSK	36	18	5 mm	right	1:1	0.073	1.315	0.096	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	23.5	22.29	2	0.09	0	1629M	QPSK	1	74	5 mm	left	1:1	0.057	1.321	0.075	
831.50	26865	Mid	LTE Band 26 (Cell)	15	Closed	23.5	22.31	2	0.09	0	1629M	QPSK	36	18	5 mm	left	1:1	0.070	1.315	0.092	
			ANSI / IE	EE C95.1 1		TY LIMIT										Body					
				Spatia						1						V/kg (mV					
			Uncontrol	led Exposul	re/General	Population				ı					averag	ed over 1	gram				

Table 11-37 LTE Band 66 (AWS) Hotspot SAR

						•					RESULT		. 0,	\							
			I					'	WEASUR	EMENI	KESULI	5		1					I	Reported SAR	
FR	REQUENCY	1	Mode	Bandwidth [MHz]	Cover Type	Maximum Allowed	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	(1g)	Plot #
MHz	С	h.		[2]		Power [dBm]	r ower (abin)	Oute	Dinit [GD]		Number							(W/kg)	1 40101	(W/kg)	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	17.0	15.61	3	-0.02	0	1271M	QPSK	1	50	10 mm	back	1:1	0.223	1.377	0.307	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	17.0	15.82	3	0.06	0	1271M	QPSK	50	25	10 mm	back	1:1	0.231	1.312	0.303	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	17.0	15.61	0	0.00	0	1271M	QPSK	1	50	10 mm	front	1:1	0.175	1.377	0.241	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	17.0	15.82	0	0.01	0	1271M	QPSK	50	25	10 mm	front	1:1	0.180	1.312	0.236	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	17.0	15.61	2	-0.02	0	1271M	QPSK	1	50	10 mm	bottom	1:1	0.305	1.377	0.420	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	17.0	15.82	2	-0.04	0	1271M	QPSK	50	25	10 mm	bottom	1:1	0.330	1.312	0.433	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	17.0	15.61	0	-0.04	0	1271M	QPSK	1	50	10 mm	right	1:1	0.023	1.377	0.032	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	17.0	15.82	0	0.07	0	1271M	QPSK	50	25	10 mm	right	1:1	0.023	1.312	0.030	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	17.0	15.61	0	0.11	0	1271M	QPSK	1	50	10 mm	left	1:1	0.053	1.377	0.073	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Open	17.0	15.82	0	-0.02	0	1271M	QPSK	50	25	10 mm	left	1:1	0.055	1.312	0.072	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Closed	17.0	15.61	2	-0.07	0	1271M	QPSK	1	50	5 mm	back	1:1	0.452	1.377	0.622	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Closed	17.0	15.82	2	-0.11	0	1271M	QPSK	50	25	5 mm	back	1:1	0.469	1.312	0.615	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Closed	17.0	15.61	2	0.18	0	1271M	QPSK	1	50	5 mm	front	1:1	0.069	1.377	0.095	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Closed	17.0	15.82	2	0.11	0	1271M	QPSK	50	25	5 mm	front	1:1	0.071	1.312	0.093	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Closed	17.0	15.61	2	0.02	0	1271M	QPSK	1	50	5 mm	bottom	1:1	0.470	1.377	0.647	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Closed	17.0	15.82	2	-0.03	0	1271M	QPSK	50	25	5 mm	bottom	1:1	0.493	1.312	0.647	A34
1745.00	132322	Mid	LTE Band 66 (AWS)	20	Closed	17.0	15.40	2	-0.01	0	1271M	QPSK	50	25	5 mm	bottom	1:1	0.456	1.445	0.659	
1770.00	132572	High	LTE Band 66 (AWS)	20	Closed	17.0	15.74	2	0.02	0	1271M	QPSK	50	25	5 mm	bottom	1:1	0.463	1.337	0.619	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Closed	17.0	15.61	0	0.12	0	1271M	QPSK	1	50	5 mm	right	1:1	0.013	1.377	0.018	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Closed	17.0	15.82	0	0.11	0	1271M	QPSK	50	25	5 mm	right	1:1	0.014	1.312	0.018	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Closed	17.0	15.61	2	0.05	0	1271M	QPSK	1	50	5 mm	left	1:1	0.087	1.377	0.120	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Closed	17.0	15.82	0	0.12	0	1271M	QPSK	50	25	5 mm	left	1:1	0.094	1.312	0.123	
				EE C95.1 1	992 - SAFE	TY LIMIT									•	Body			•	•	
					l Peak											V/kg (mV	-				
			Uncontrol	ed Exposu	re/General	Population									averag	ed over 1	gram				

FCC ID: A3LSMF711B1	PCTEST* Proud to be part of @ wiement	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
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Table 11-38 LTE Band 25 (PCS) Hotspot SAR

											RESULT	s	<u> </u>								
FI	REQUENCY	Y	Mode	Bandwidth	Cover Type	Maximum Allowed	Conducted	Tune	Power	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Cassina	Side	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	С	h.	Mode	[MHz]	Cover Type	Power [dBm]	Power [dBm]	State	Drift [dB]	мгк (ив)	Number	Modulation	KB SIZE	KB Oliset	Spacing	Side	Duty Cycle	(W/kg)	Factor	(W/kg)	FIOL#
1905.00	26590	High	LTE Band 25 (PCS)	20	Open	17.0	16.65	61	0.05	0	2635M	QPSK	1	99	10 mm	back	1:1	0.210	1.084	0.228	
1905.00	26590	High	LTE Band 25 (PCS)	20	Open	17.0	16.90	61	0.05	0	2635M	QPSK	50	50	10 mm	back	1:1	0.221	1.023	0.226	
1905.00	26590	High	LTE Band 25 (PCS)	20	Open	17.0	16.65	61	0.07	0	2635M	QPSK	1	99	10 mm	front	1:1	0.163	1.084	0.177	
1905.00	26590	High	LTE Band 25 (PCS)	20	Open	17.0	16.90	61	0.05	0	2635M	QPSK	50	50	10 mm	front	1:1	0.170	1.023	0.174	
1905.00	26590	High	LTE Band 25 (PCS)	20	Open	17.0	16.65	61	0.00	0	2635M	QPSK	1	99	10 mm	bottom	1:1	0.426	1.084	0.462	
1905.00	26590	High	LTE Band 25 (PCS)	20	Open	17.0	16.90	61	-0.01	0	2635M	QPSK	50	50	10 mm	bottom	1:1	0.445	1.023	0.455	
1905.00	26590	High	LTE Band 25 (PCS)	20	Open	17.0	16.65	61	-0.14	0	2635M	QPSK	1	99	10 mm	right	1:1	0.018	1.084	0.020	
1905.00	26590	High	LTE Band 25 (PCS)	20	Open	17.0	16.90	61	-0.13	0	2635M	QPSK	50	50	10 mm	right	1:1	0.019	1.023	0.019	
1905.00	26590	High	LTE Band 25 (PCS)	20	Open	17.0	16.65	61	-0.03	0	2635M	QPSK	1	99	10 mm	left	1:1	0.017	1.084	0.018	
1905.00	26590	High	LTE Band 25 (PCS)	20	Open	17.0	16.90	61	0.04	0	2635M	QPSK	50	50	10 mm	left	1:1	0.019	1.023	0.019	
1905.00	26590	High	LTE Band 25 (PCS)	20	Closed	17.0	16.65	61	-0.08	0	2635M	QPSK	1	99	5 mm	back	1:1	0.288	1.084	0.312	
1905.00	26590	High	LTE Band 25 (PCS)	20	Closed	17.0	16.90	61	0.06	0	2635M	QPSK	50	50	5 mm	back	1:1	0.292	1.023	0.299	
1905.00	26590	High	LTE Band 25 (PCS)	20	Closed	17.0	16.65	61	-0.07	0	2635M	QPSK	1	99	5 mm	front	1:1	0.129	1.084	0.140	
1905.00	26590	High	LTE Band 25 (PCS)	20	Closed	17.0	16.90	61	-0.02	0	2635M	QPSK	50	50	5 mm	front	1:1	0.138	1.023	0.141	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Closed	17.0	16.51	61	-0.02	0	2635M	QPSK	1	0	5 mm	bottom	1:1	0.535	1.119	0.599	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Closed	17.0	16.50	61	0.03	0	2635M	QPSK	1	99	5 mm	bottom	1:1	0.509	1.122	0.571	
1905.00	26590	High	LTE Band 25 (PCS)	20	Closed	17.0	16.65	61	0.02	0	2635M	QPSK	1	99	5 mm	bottom	1:1	0.607	1.084	0.658	A36
1905.00	26590	High	LTE Band 25 (PCS)	20	Closed	17.0	16.90	61	0.01	0	2635M	QPSK	50	50	5 mm	bottom	1:1	0.602	1.023	0.616	
1905.00	26590	High	LTE Band 25 (PCS)	20	Closed	17.0	16.65	61	0.00	0	2635M	QPSK	1	99	5 mm	right	1:1	0.036	1.084	0.039	
1905.00	26590	High	LTE Band 25 (PCS)	20	Closed	17.0	16.90	61	-0.12	0	2635M	QPSK	50	50	5 mm	right	1:1	0.036	1.023	0.037	
1905.00	26590	High	LTE Band 25 (PCS)	20	Closed	17.0	16.65	61	-0.12	0	2635M	QPSK	1	99	5 mm	left	1:1	0.023	1.084	0.025	
1905.00	26590	High	LTE Band 25 (PCS)	20	Closed	17.0	16.90	61	0.01	0	2635M	QPSK	50	50	5 mm	left	1:1	0.024	1.023	0.025	
			ANSI / IE		1992 - SAFE	TY LIMIT										Body					
			Umana		al Peak	Damidatia										//kg (mV					
			Uncontroll	ea Exposu	re/General	Population								-	averag	ed over 1	gram				

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Table 11-39 LTE Band 41 Hotspot SAR

								Band	411	າບເອງ	JUL 3	MN									
								MEASUR	REMENT	resul	.TS										
Power Class	FI	REQUENC	Y	Mode	Bandwidth [MHz]	Cover Type	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
	MHz	(h.		[2]		Power [dBm]	r ower (abiii)	Dini [GD]		Number							(W/kg)	ruoto	(W/kg)	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Open	19.5	18.70	0.05	0	2634M	QPSK	1	0	10 mm	back	1:1.58	0.111	1.202	0.133	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Open	19.5	18.69	0.01	0	2634M	QPSK	50	25	10 mm	back	1:1.58	0.111	1.205	0.134	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Open	19.5	18.70	0.16	0	2634M	QPSK	1	0	10 mm	front	1:1.58	0.082	1.202	0.099	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Open	19.5	18.69	0.08	0	2634M	QPSK	50	25	10 mm	front	1:1.58	0.082	1.205	0.099	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Open	19.5	18.70	-0.01	0	2634M	QPSK	1	0	10 mm	bottom	1:1.58	0.294	1.202	0.353	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Open	19.5	18.69	0.04	0	2634M	QPSK	50	25	10 mm	bottom	1:1.58	0.259	1.205	0.312	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Open	19.5	18.70	-0.07	0	2634M	QPSK	1	0	10 mm	left	1:1.58	0.022	1.202	0.026	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Open	19.5	18.69	0.15	0	2634M	QPSK	50	25	10 mm	left	1:1.58	0.017	1.205	0.020	
Power Class 3												QPSK	1	0	5 mm	back	1:1.58	0.144	1.202	0.173	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Closed	19.5	18.69	0.03	0	2616M	QPSK	50	25	5 mm	back	1:1.58	0.168	1.205	0.202	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Closed	19.5	18.70	-0.09	0	2616M	QPSK	1	0	5 mm	front	1:1.58	0.022	1.202	0.026	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Closed	19.5	18.69	0.09	0	2616M	QPSK	50	25	5 mm	front	1:1.58	0.021	1.205	0.025	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Closed	19.5	18.70	-0.04	0	2616M	QPSK	1	0	5 mm	bottom	1:1.58	0.507	1.202	0.609	
Power Class 3	2549.50	40185	Low-Mid	LTE Band 41	20	Closed	19.5	18.47	0.00	0	2616M	QPSK	1	0	5 mm	bottom	1:1.58	0.460	1.268	0.583	
Power Class 3	2593.00	40620	Mid	LTE Band 41	20	Closed	19.5	18.14	0.01	0	2616M	QPSK	1	50	5 mm	bottom	1:1.58	0.125	1.368	0.171	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	Closed	19.5	18.29	0.01	0	2616M	QPSK	1	50	5 mm	bottom	1:1.58	0.381	1.321	0.503	
Power Class 3	2680.00	41490	High	LTE Band 41	20	Closed	19.5	18.38	0.00	0	2616M	QPSK	1	50	5 mm	bottom	1:1.58	0.372	1.294	0.481	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Closed	19.5	18.69	-0.15	0	2616M	QPSK	50	25	5 mm	bottom	1:1.58	0.509	1.205	0.613	A38
Power Class 3	2549.50	40185	Low-Mid	LTE Band 41	20	Closed	19.5	18.46	-0.03	0	2616M	QPSK	50	25	5 mm	bottom	1:1.58	0.436	1.271	0.554	
Power Class 3	2593.00	40620	Mid	LTE Band 41	20	Closed	19.5	18.36	-0.11	0	2616M	QPSK	50	25	5 mm	bottom	1:1.58	0.128	1.300	0.166	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	Closed	19.5	18.39	-0.02	0	2616M	QPSK	50	25	5 mm	bottom	1:1.58	0.399	1.291	0.515	
Power Class 3	2680.00	41490	High	LTE Band 41	20	Closed	19.5	18.48	-0.05	0	2616M	QPSK	50	50	5 mm	bottom	1:1.58	0.374	1.265	0.473	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Closed	19.5	18.64	0.02	0	2616M	QPSK	100	0	5 mm	bottom	1:1.58	0.505	1.219	0.616	
Power Class 2	2506.00	39750	Low	LTE Band 41	20	Closed	19.5	18.68	-0.02	0	2616M	QPSK	100	0	5 mm	bottom	1:2.31	0.355	1.208	0.429	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Closed	19.5	18.70	0.12	0	2616M	QPSK	1	0	5 mm	left	1:1.58	0.056	1.202	0.067	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	Closed	19.5	18.69	-0.10	0	2616M	QPSK	50	25	5 mm	left	1:1.58	0.057	1.205	0.069	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak														161	Body V/kg (mV	W(a)				
	Spatial Peak Uncontrolled Exposure/General Population															ed over 1	•				

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Table 11-40 NR Band n5 Hotspot SAR

												RESULTS	O/AIX									
			I							WEASU	KEWIENI	RESULIS	Γ								Reported SAR	
	EQUENCY		Mode	Bandwidth [MHz]	Cover Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	(1g)	Plot#
MHz 836.50	167300	n. Mid	NR Band n5 (Cell)	20	Open	23.5	22.94	-0.02	0	0	1272M	DFT-S-OFDM	QPSK	1	53	10 mm	back	1:1	(W/kg) 0.278	1.138	(W/kg) 0.316	
	167300	Mid	NR Band n5 (Cell)	20			22.92			0	1272M	DFT-S-OFDM	QPSK	50						1.143	0.320	
836.50					Open	23.5		-0.05	0						28	10 mm	back	1:1	0.280			
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	23.5	22.56	-0.06	0	0	1272M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.255	1.242	0.317	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	23.5	22.94	-0.04	0	0	1272M	DFT-S-OFDM	QPSK	1	53	10 mm	front	1:1	0.184	1.138	0.209	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	23.5	22.92	-0.05	0	0	1272M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.185	1.143	0.211	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	23.5	22.94	0.16	0	0	1272M	DFT-S-OFDM	QPSK	1	53	10 mm	bottom	1:1	0.123	1.138	0.140	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	23.5	22.92	-0.04	0	0	1272M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.119	1.143	0.136	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	23.5	22.94	0.15	0	0	1272M	DFT-S-OFDM	QPSK	1	53	10 mm	right	1:1	0.155	1.138	0.176	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	23.5	22.92	-0.02	0	0	1272M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.152	1.143	0.174	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	23.5	22.94	0.14	0	0	1272M	DFT-S-OFDM	QPSK	1	53	10 mm	left	1:1	0.045	1.138	0.051	
836.50	167300	Mid	NR Band n5 (Cell)	20	Open	23.5	22.92	-0.08	0	0	1272M	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.045	1.143	0.051	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.94	-0.09	0	109	1272M	DFT-S-OFDM	QPSK	1	53	5 mm	back	1:1	0.541	1.138	0.616	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.92	-0.11	0	109	1272M	DFT-S-OFDM	QPSK	50	28	5 mm	back	1:1	0.548	1.143	0.626	A40
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.56	-0.07	0	109	1272M	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.545	1.242	0.677	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.94	-0.02	0	80	1272M	DFT-S-OFDM	QPSK	1	53	5 mm	front	1:1	0.116	1.138	0.132	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.92	0.05	0	80	1272M	DFT-S-OFDM	QPSK	50	28	5 mm	front	1:1	0.114	1.143	0.130	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.94	0.06	0	81	1272M	DFT-S-OFDM	QPSK	1	53	5 mm	bottom	1:1	0.164	1.138	0.187	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.92	-0.01	0	27	1272M	DFT-S-OFDM	QPSK	50	28	5 mm	bottom	1:1	0.170	1.143	0.194	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.94	0.14	0	109	1272M	DFT-S-OFDM	QPSK	1	53	5 mm	right	1:1	0.083	1.138	0.094	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.92	0.03	0	109	1272M	DFT-S-OFDM	QPSK	50	28	5 mm	right	1:1	0.081	1.143	0.093	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.94	0.17	0	2	1272M	DFT-S-OFDM	QPSK	1	53	5 mm	left	1:1	0.098	1.138	0.112	
836.50	167300	Mid	NR Band n5 (Cell)	20	Closed	23.5	22.92	0.04	0	2	1272M	DFT-S-OFDM	QPSK	50	28	5 mm	left	1:1	0.099	1.143	0.113	
			ANSI / IEEE			LIMIT				1	1		l		Bod							
			Uncontrolled	Spatial P		nulation									6 W/kg (aged over							
			Oncomin oneu	Exhogni 6	Octional FU	pulation								avei	ayou ove	ı ıylallı						

Table 11-41 NR Band n66 Hotspot SAR

										MEAS	JREMEN	T RESULTS										
FRI	EQUENCY	,	Mode	Bandwidth [MHz]	Cover Type	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	C	h.		(a)		Power [dBm]		()											(W/kg)		(W/kg)	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	16.5	16.00	0.12	0	3	2635M	DFT-S-OFDM	QPSK	1	104	10 mm	back	1:1	0.178	1.122	0.200	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	16.5	15.98	-0.04	0	3	2635M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.179	1.127	0.202	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	16.5	16.00	0.12	0	0	2635M	DFT-S-OFDM	QPSK	1	104	10 mm	front	1:1	0.126	1.122	0.141	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	16.5	15.98	0.01	0	0	2635M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.125	1.127	0.141	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	16.5	16.00	-0.03	0	2	2635M	DFT-S-OFDM	QPSK	1	104	10 mm	bottom	1:1	0.271	1.122	0.304	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	16.5	15.98	-0.04	0	2	2635M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.276	1.127	0.311	
1720.00	344000	Low	NR Band n66 (AWS)	20	Open	16.5	15.86	0.02	0	2	2635M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.379	1.159	0.439	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	16.5	16.00	0.14	0	0	2635M	DFT-S-OFDM	QPSK	1	104	10 mm	right	1:1	0.017	1.122	0.019	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	16.5	15.98	-0.05	0	0	2635M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.018	1.127	0.020	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	16.5	16.00	0.12	0	0	2635M	DFT-S-OFDM	QPSK	1	104	10 mm	left	1:1	0.032	1.122	0.036	
1770.00	354000	High	NR Band n66 (AWS)	20	Open	16.5	15.98	-0.05	0	0	2635M	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.035	1.127	0.039	
1770.00	354000	High	NR Band n66 (AWS)	20	Closed	16.5	16.00	0.03	0	2	2635M	DFT-S-OFDM	QPSK	1	104	5 mm	back	1:1	0.248	1.122	0.278	
1770.00	354000	High	NR Band n66 (AWS)	20	Closed	16.5	15.98	0.01	0	2	2635M	DFT-S-OFDM	QPSK	50	28	5 mm	back	1:1	0.264	1.127	0.298	
1770.00	354000	High	NR Band n66 (AWS)	20	Closed	16.5	16.00	0.14	0	2	2635M	DFT-S-OFDM	QPSK	1	104	5 mm	front	1:1	0.040	1.122	0.045	
1770.00	354000	High	NR Band n66 (AWS)	20	Closed	16.5	15.98	0.12	0	2	2635M	DFT-S-OFDM	QPSK	50	28	5 mm	front	1:1	0.081	1.127	0.091	
1770.00	354000	High	NR Band n66 (AWS)	20	Closed	16.5	16.00	-0.02	0	2	2635M	DFT-S-OFDM	QPSK	1	104	5 mm	bottom	1:1	0.372	1.122	0.417	
1770.00	354000	High	NR Band n66 (AWS)	20	Closed	16.5	15.98	0.00	0	2	2635M	DFT-S-OFDM	QPSK	50	28	5 mm	bottom	1:1	0.389	1.127	0.438	
1720.00	344000	Low	NR Band n66 (AWS)	20	Closed	16.5	15.86	-0.13	0	2	2635M	CP-OFDM	QPSK	1	1	5 mm	bottom	1:1	0.515	1.159	0.597	A42
1770.00	354000	High	NR Band n66 (AWS)	20	Closed	16.5	16.00	0.13	0	0	2635M	DFT-S-OFDM	QPSK	1	104	5 mm	right	1:1	0.016	1.122	0.018	
1770.00	354000	High	NR Band n66 (AWS)	20	Closed	16.5	15.98	0.14	0	0	2635M	DFT-S-OFDM	QPSK	50	28	5 mm	right	1:1	0.019	1.127	0.021	
1770.00	354000	High	NR Band n66 (AWS)	20	Closed	16.5	16.00	0.12	0	2	2635M	DFT-S-OFDM	QPSK	1	104	5 mm	left	1:1	0.042	1.122	0.047	
1770.00	354000	High	NR Band n66 (AWS)	20	Closed	16.5	15.98	0.04	0	0	2635M	DFT-S-OFDM	QPSK	50	28	5 mm	left	1:1	0.049	1.127	0.055	
			ANSI / IEEE	C95.1 199	2 - SAFETY	LIMIT									Body							
	Spatial Peak Uncontrolled Exposure/General Population														W/kg (m							
			Uncontrolled	Exposure/	General Po	pulation								avera	ged over	1 gram						

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Table 11-42 DTS SISO Hotspot SAR – Open

							ı	MEASU	REMENT	RESUL	TS.								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2412	1	802.11b	DSSS	22	19.0	18.84	-0.12	10 mm	2	1262M	1	back	99.9	0.166	-	1.038	1.001	-	
2412	1	802.11b	DSSS	22	19.0	18.84	-0.10	10 mm	2	1262M	1	front	99.9	0.163	-	1.038	1.001	-	
2412	1	802.11b	DSSS	22	19.0	18.84	0.04	10 mm	2	1262M	1	top	99.9	0.128	-	1.038	1.001	-	
2412	1	802.11b	DSSS	22	19.0	18.84	-0.02	10 mm	2	1262M	1	left	99.9	0.216	0.167	1.038	1.001	0.174	
		ANSI / I	EEE C95.1 19								Body								
			Spatial								1.6 W/kg (m\	•							
		Uncontro	lled Exposure	e/General P	opulation								a١	eraged over '	l gram				

Table 11-43 DTS SISO Hotspot SAR – Closed

							ı	MEASU	REMENT	RESUL	TS.								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power Drift [dB]	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch. Power [dBm]								Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2412	1	802.11b	DSSS	22	19.0	18.84	0.01	5 mm	2	1274M	1	back	99.9	0.084	0.074	1.038	1.001	0.077	
2412	1	802.11b	DSSS	22	19.0	18.84	-0.02	5 mm	2	1274M	1	front	99.9	0.529	0.382	1.038	1.001	0.397	
2412	1	802.11b	DSSS	22	19.0	18.84	0.10	5 mm	2	1274M	1	bottom	99.9	0.261	0.197	1.038	1.001	0.205	
2412	1	802.11b	DSSS	22	19.0	18.84	0.02	5 mm	2	1274M	1	left	99.9	0.631	0.474	1.038	1.001	0.493	
		ANSI / II	EEE C95.1 19	92 - SAFET								Body							
			Spatial											1.6 W/kg (m)	٠,				
		Uncontro	lled Exposure	e/General P	opulation								a	veraged over	1 gram				

Table 11-44 DTS SISO Hotspot SAR for Conditions with 5 GHz WLAN SAR and/or with 5G NR - Closed

							ı	MEASU	REMENT	RESUL	TS								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2412	1	802.11b	DSSS	22	15.0	14.74	-0.10	5 mm	2	1274M	1	back	99.9	0.027	-	1.062	1.001	-	
2412	1	802.11b	-0.20	5 mm	2	1274M	1	front	99.9	0.125	-	1.062	1.001	-					
2412	1	802.11b	DSSS	22	15.0	14.74	-0.13	5 mm	2	1274M	1	bottom	99.9	0.115	-	1.062	1.001	-	
2412	1	802.11b	DSSS	22	15.0	14.74	-0.19	5 mm	2	1274M	1	left	99.9	0.182	0.125	1.062	1.001	0.133	
		ANSI / I	EEE C95.1 19								Body								
			Spatial	Peak		ĺ						1.6 W/kg (m\	N/g)						
		Uncontro	lled Exposure	/General P	opulation								av	eraged over 1	l gram				

Note: 2.4 GHZ WLAN was additionally evaluated at the maximum allowed output power during operations with Simultaneous 5 GHz WLAN and/or 5G NR active. 5GHz WLAN and/or 5G NR were not transmitting during the above evaluations.

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Table 11-45 DTS MIMO Hotspot SAR - Open

								ME	ASURE	MENT F	RESULTS	;									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	Power (Ant 2) [dBm]	[dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	0.10	10 mm	MIMO	1262M	1	back	99.9	0.626	0.527	1.033	1.001	0.545	
2437	6	802.11b	18.86	-0.10	10 mm	MIMO	1262M	1	front	99.9	0.491		1.033	1.001							
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	-0.04	10 mm	MIMO	1262M	1	top	99.9	0.352	-	1.033	1.001	-	
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	-0.16	10 mm	MIMO	1262M	1	right	99.9	0.188		1.033	1.001		
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	0.04	10 mm	MIMO	1262M	1	left	99.9	0.554	0.401	1.033	1.001	0.415	
										Body											
										1.6 W/kg (m	W/g)										
			Uncontrol							av	eraged over	1 gram									

Note: To achieve the 22 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 19.0 dBm.

Table 11-46 DTS MIMO Hotspot SAR - Closed

								ME	ASURE	MENT R	RESULTS	;									
FREQUI	ENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1)	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)					
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	-0.06	5 mm	MIMO	1274M	1	back	99.9	0.452	0.406	1.033	1.001	0.420	
2412	1	802.11b	DSSS	22	19.0	18.60	19.0	18.55	0.04	5 mm	MIMO	1274M	1	front	99.9	0.798	0.886	1.109	1.001	0.984	
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	0.00	5 mm	MIMO	1274M	1	front	99.9	1.090	0.905	1.033	1.001	0.936	
2462	11	802.11b	DSSS	22	19.0	18.56	19.0	18.82	-0.21	5 mm	MIMO	1274M	1	front	99.9	1.120	0.913	1.107	1.001	1.012	
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	0.00	5 mm	MIMO	1274M	1	bottom	99.9	0.896	0.700	1.033	1.001	0.724	
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	0.03	5 mm	MIMO	1274M	1	right	99.9	0.262		1.033	1.001		
2412	1	802.11b	DSSS	22	19.0	18.60	19.0	18.55	0.00	5 mm	MIMO	1274M	1	left	99.9	0.912	0.728	1.109	1.001	0.808	
2437	6	802.11b	DSSS	22	19.0	18.89	19.0	18.86	-0.01	5 mm	MIMO	1274M	1	left	99.9	1.350	1.070	1.033	1.001	1.106	
2462	11	802.11b	DSSS	22	19.0	18.56	19.0	18.82	-0.06	5 mm	MIMO	1274M	1	left	99.9	1.630	1.080	1.107	1.001	1.197	A44
2462	11	802.11b	DSSS	22	19.0	18.56	19.0	18.82	-0.07	5 mm	MIMO	1274M	1	left	99.9	1.520	0.938	1.107	1.001	1.039	
										Body 1.6 W/kg (m											
									av	eraged over	1 gram										

Note: To achieve the 22 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 19.0 dBm.

Note: Blue entries represent variability measurements.

Table 11-47
DTS MIMO Hotspot SAR for Conditions with 5 GHz WLAN SAR and/or with 5G NR - Closed

								ME	ASURE	MENT F	RESULTS	;									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Mode Service Metz] Power (Ant 1) Power (Ant 2) Pow									.,	Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2412	1	802.11n	OFDM	20	15.0	14.86	15.0	14.07	0.10	5 mm	MIMO	1274M	13	back	99.9	0.033	-	1.239	1.001		
2412	1	802.11n	OFDM	20	15.0	14.86	15.0	14.07	-0.09	5 mm	MIMO	1274M	13	front	99.9	0.099	-	1.239	1.001	-	
2412	1	802.11n	OFDM	20	15.0	14.86	15.0	14.07	-0.08	5 mm	MIMO	1274M	13	bottom	99.9	0.073	-	1.239	1.001		
2412	1	802.11n	OFDM	20	15.0	14.86	15.0	14.07	-0.03	5 mm	MIMO	1274M	13	right	99.9	0.026	-	1.239	1.001	-	
2412	1	802.11n	OFDM	20	15.0	14.86	15.0	14.07	-0.03	5 mm	MIMO	1274M	13	left	99.9	0.113	0.075	1.239	1.001	0.093	
			ANSI / IE	EE C95.1	1992 - SAFET	Y LIMIT										Body					
				Spatia	al Peak											1.6 W/kg (m	W/g)				
			Uncontrol	led Exposu	re/General F	opulation				1					av	eraged over	1 gram				

Note: 2.4 GHZ WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz WLAN and 5 GHz WLAN and/or 5G NR active. 5 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

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Table 11-48 NII SISO Hotspot SAR – Open

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							ı	MEASU	REMENT	RESUL	TS.								
FREQUI	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5825	165	802.11a	OFDM	20	18.0	17.80	0.11	10 mm	1	1274M	6	back	98.9	0.128	0.081	1.047	1.011	0.086	
5825	165	802.11a	OFDM	20	18.0	17.80	-0.13	10 mm	1	1274M	6	front	98.9	0.113	-	1.047	1.011	-	
5825	165	802.11a	OFDM	20	18.0	17.80	0.16	10 mm	1	1274M	6	top	98.9	0.231	0.151	1.047	1.011	0.160	
5825	165	802.11a	OFDM	20	18.0	17.80	0.17	10 mm	1	1274M	6	right	98.9	0.058	-	1.047	1.011	-	
		ANSI / II	EEE C95.1 19	92 - SAFET	YLIMIT									Body					
			Spatial	Peak				ĺ						1.6 W/kg (m\	N/a)				
		Uncontro	lled Exposure		opulation			l						veraged over	•				
															J .				

Table 11-49 NII SISO Hotspot SAR – Closed

							0.00		.spot	•,		1030							
							ı	MEASU	REMENT	RESUL	_TS								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5825	165	802.11a	OFDM	20	18.0	17.80	-0.13	5 mm	1	1274M	6	back	98.9	0.055	0.018	1.047	1.011	0.019	
5825	165	802.11a	OFDM	20	18.0	17.80	0.09	5 mm	1	1274M	6	front	98.9	0.278	0.244	1.047	1.011	0.258	
5825	165	802.11a	OFDM	20	18.0	17.80	0.12	5 mm	1	1274M	6	bottom	98.9	0.259	0.312	1.047	1.011	0.330	
5825	165	802.11a	OFDM	20	18.0	17.80	-0.13	5 mm	1	1274M	6	right	98.9	0.184	-	1.047	1.011	-	
		ANSI / I	EEE C95.1 19	92 - SAFET	YLIMIT									Body					
			Spatial	Peak										1.6 W/kg (m\	N/a)				
		Uncontro	lled Exposure		onulation									eraged over	•				
		Jilooiitio	ou _xposur	.,	opulation			L					u ·	oragoa over	. g. u				

Table 11-50 NII SISO Hotspot SAR for Conditions with 2.4 GHz WLAN SAR and/or 5G NR - Closed

				_			1	MEASU	REMENT	RESU	_TS								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5775	155	802.11ac	OFDM	80	15.0	14.28	-0.15	5 mm	1	1274M	29.3	back	99.7	0.000	-	1.180	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.28	-0.16	5 mm	1	1274M	29.3	front	99.7	0.067	0.034	1.180	1.003	0.040	
5775	155	802.11ac	OFDM	80	15.0	14.28	0.13	5 mm	1	1274M	29.3	bottom	99.7	0.050	-	1.180	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.28	-0.13	5 mm	1	1274M	29.3	right	99.7	0.000	-	1.180	1.003	-	
		ANSI / II	EEE C95.1 19	92 - SAFET	Y LIMIT									Body					
			Spatial	Peak										1.6 W/kg (m)	W/g)				
		Uncontro	lled Exposure	General P	opulation								av	eraged over	1 gram				

Note: 5 GHZ WLAN SISO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 5 GHz WLAN and 2.4 GHz WLAN and/or 5G NR active. 2.4 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

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Table 11-51 NII MIMO Hotspot SAR – Open

								ME	ASUREI	MENT F	RESULTS	;									
FREQU	IENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	[dBm]	[dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	0.20	10 mm	MIMO	1274M	13	back	99.7	0.184	0.144	1.023	1.003	0.148	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	-0.10	10 mm	MIMO	1274M	13	front	99.7	0.311	-	1.023	1.003	-	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	0.14	10 mm	MIMO	1274M	13	top	99.7	0.192	-	1.023	1.003	-	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	-0.19	10 mm	MIMO	1274M	13	right	99.7	0.071	-	1.023	1.003	-	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	0.17	10 mm	MIMO	1274M	13	left	99.7	0.323	0.233	1.023	1.003	0.239	
			ANSI / IE	EE C95.1 1	992 - SAFET	Y LIMIT										Body					
				Spatia	al Peak											1.6 W/kg (m	W/g)				
			Uncontroll	led Exposu	re/General P	opulation									av	veraged over	1 gram				

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 18.0 dBm.

Table 11-52 NII MIMO Hotspot SAR - Closed

																					$\overline{}$
								ME	ASURE	MENT F	RESULTS	;									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	[dBm]	[dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	i l
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	0.17	5 mm	MIMO	1262M	13	back	99.7	0.115	0.078	1.023	1.003	0.080	
5745	149	802.11n	OFDM	20	18.0	17.64	18.0	17.59	-0.15	5 mm	MIMO	1262M	13	front	99.7	0.669	0.501	1.099	1.003	0.552	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	-0.01	5 mm	MIMO	1262M	13	front	99.7	0.775	0.653	1.023	1.003	0.670	A46
5825	165	802.11n	OFDM	20	18.0	17.69	18.0	17.93	-0.03	5 mm	MIMO	1262M	13	front	99.7	0.790	0.617	1.074	1.003	0.665	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	-0.20	5 mm	MIMO	1262M	13	bottom	99.7	0.312	0.212	1.023	1.003	0.218	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	-0.16	5 mm	MIMO	1262M	13	right	99.7	0.086	0.047	1.023	1.003	0.048	
5785	157	802.11n	OFDM	20	18.0	17.90	18.0	17.99	0.02	5 mm	MIMO	1262M	13	left	99.7	0.640	0.528	1.023	1.003	0.542	
			ANSI / IE	EE C95.1 1	1992 - SAFET	Y LIMIT										Body					
				Spatia	al Peak											1.6 W/kg (m	W/g)				
			Uncontrol	led Exposu	re/General F	opulation									av	eraged over	1 gram				

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 18.0 dBm.

Table 11-53
NII MIMO Hotspot SAR for Conditions with 2.4 GHz WLAN SAR and/or with 5G NR – Closed

								ME	ASUREI	MENT F	RESULTS	;									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1) [dBm]	Maximum Allowed	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	Power (Ant 2) [dBm]	[dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5775	155	802.11ac	OFDM	80	15.0	14.44	15.0	14.52	-0.15	5 mm	MIMO	1274M	58.5	back	99.7	0.000		1.138	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.44	15.0	14.52	-0.20	5 mm	MIMO	1274M	58.5	front	99.7	0.046	0.027	1.138	1.003	0.031	
5775	155	802.11ac	OFDM	80	15.0	14.44	15.0	14.52	-0.17	5 mm	MIMO	1274M	58.5	bottom	99.7	0.000		1.138	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.44	15.0	14.52	0.15	5 mm	MIMO	1274M	58.5	right	99.7	0.000		1.138	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.44	15.0	14.52	-0.18	5 mm	MIMO	1274M	58.5	left	99.7	0.000		1.138	1.003	-	
			ANSI / IE	EE C95.1 1	992 - SAFET	YLIMIT										Body					
			Uncontrol		al Peak re/General P	opulation										1.6 W/kg (m) eraged over	-				

Note: 5 GHZ WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 5 GHz WLAN and 2.4 GHz WLAN and/or 5G NR active. 2.4 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

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Table 11-54 DSS Hotspot SAR - Open

								, pot 0.									
						N	IEASUF	REMENT	RESUL	TS							
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power Drift [dB]	Spacing	Antenna Config.	Device Serial	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	υτιπ (αΒ)		Config.	Number	(Mbps)		(%)	(W/kg)	Power)	Cycle)	(W/kg)	
2441	39	Bluetooth	FHSS	16.0	15.55	0.00	10 mm	1	1262M	1	back	76.80	0.074	1.109	1.302	0.107	
2441	39	Bluetooth	FHSS	16.0	15.55	0.16	10 mm	1	1262M	1	front	76.80	0.061	1.109	1.302	0.088	
2441	39	Bluetooth	FHSS	16.0	15.55	0.20	10 mm	1	1262M	1	top	76.80	0.046	1.109	1.302	0.066	
2441	39	Bluetooth	FHSS	16.0	15.55	0.12	10 mm	1	1262M	1	right	76.80	0.011	1.109	1.302	0.016	
2480	78	Bluetooth	FHSS	17.0	16.60	-0.06	10 mm	2	1262M	1	back	76.80	0.074	1.096	1.302	0.106	
2480	78	Bluetooth	FHSS	17.0	16.60	-0.12	10 mm	2	1262M	1	front	76.80	0.116	1.096	1.302	0.166	
2480	78	Bluetooth	FHSS	17.0	16.60	0.16	10 mm	2	1262M	1	top	76.80	0.042	1.096	1.302	0.060	
2480	78	Bluetooth	FHSS	17.0	16.60	-0.13	10 mm	2	1262M	1	left	76.80	0.009	1.096	1.302	0.013	
		ANSI / IEEE C	95.1 1992 - S	AFETY LIMIT								-	Body				
			Spatial Peak									1.6 W/	kg (mW/g)				
		Uncontrolled E	xposure/Gen	eral Populati	on							averaged	l over 1 gram	1			

Table 11-55 DSS Hotspot SAR - Closed

						N	IEASUF	REMENT	RESUL	TS							
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	(W/kg)	Power)	Cycle)	(W/kg)	
2441	39	Bluetooth	FHSS	16.0	15.55	-0.13	5 mm	1	1262M	1	back	76.80	0.036	1.109	1.302	0.052	
2441	39	Bluetooth	FHSS	16.0	15.55	-0.19	5 mm	1	1262M	1	front	76.80	0.182	1.109	1.302	0.263	A48
2441	39	Bluetooth	FHSS	16.0	15.55	0.14	5 mm	1	1262M	1	bottom	76.80	0.125	1.109	1.302	0.180	
2441	39	Bluetooth	FHSS	16.0	15.55	-0.12	5 mm	1	1262M	1	right	76.80	0.046	1.109	1.302	0.066	
2480	78	Bluetooth	FHSS	17.0	16.60	0.10	5 mm	2	1262M	1	back	76.80	0.022	1.096	1.302	0.031	
2480	78	Bluetooth	FHSS	17.0	16.60	0.06	5 mm	2	1262M	1	front	76.80	0.152	1.096	1.302	0.217	
2480	78	Bluetooth	FHSS	17.0	16.60	-0.14	5 mm	2	1262M	1	bottom	76.80	0.107	1.096	1.302	0.153	
2480	78	Bluetooth	FHSS	17.0	16.60	-0.09	5 mm	2	1262M	1	left	76.80	0.035	1.096	1.302	0.050	
		ANSI / IEEE C	C95.1 1992 - S	SAFETY LIMIT									Body				
			Spatial Peak										kg (mW/g)				
		Uncontrolled E	xposure/Gen	eral Populati	on							averaged	l over 1 gram	1			

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Table 11-56 DSS Hotspot SAR for Conditions with 5G NR - Closed

					otopot .			REMENT									
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	(W/kg)	Power)	Cycle)	(W/kg)	
2441	39	Bluetooth	FHSS	14.0	13.11	0.12	5 mm	1	1271M	1	back	76.80	0.010	1.229	1.302	0.016	
2441	39	Bluetooth	FHSS	14.0	13.11	-0.01	5 mm	1	1271M	1	front	76.80	0.024	1.229	1.302	0.038	
2441	39	Bluetooth	FHSS	14.0	13.11	-0.12	5 mm	1	1271M	1	bottom	76.80	0.033	1.229	1.302	0.053	
2441	39	Bluetooth	13.11	-0.18	5 mm	1	1271M	1	right	76.80	0.009	1.229	1.302	0.014			
2480	78	Bluetooth	FHSS	-0.16	5 mm	2	1271M	1	back	76.80	0.008	1.080	1.302	0.011			
2480	78	Bluetooth	FHSS	14.0	13.67	-0.08	5 mm	2	1271M	1	front	76.80	0.068	1.080	1.302	0.096	
2480	78	Bluetooth	FHSS	14.0	13.67	0.14	5 mm	2	1271M	1	bottom	76.80	0.035	1.080	1.302	0.049	
2480	78	Bluetooth	FHSS	14.0	13.67	0.14	5 mm	2	1271M	1	left	76.80	0.015	1.080	1.302	0.021	
		ANSI / IEEE C			Г			<u> </u>					Body				
			Spatial Peak										kg (mW/g)				
		Uncontrolled E	xposure/Gen	eral Populati	on							averaged	l over 1 gram	1			

Note: BT was additionally evaluated at the maximum allowed output power during operations with Simultaneous 5G NR active. 5G NR was not transmitting during BT evaluations.

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11.4 Standalone Open Phablet SAR Data

Table 11-57 GPRS/UMTS Phablet SAR Data

					GPRS		S PN			Data	1					
FREQUI	ENCY			Maximum		WILAGO		I KLO	Device				SAR (10g)		Reported SAR	
MHz	Ch.	Mode	Service	Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Serial Number	# of Time Slots	Duty Cycle	Side	(W/kg)	Scaling Factor	(10g) (W/kg)	Plot #
1880.00	661	GSM 1900	GPRS	27.5	26.95	13	-0.15	8 mm	1629M	3	1:2.76	back	0.484	1.135	0.549	
1880.00	661	GSM 1900	GPRS	27.5	26.95	13	-0.01	6 mm	1629M	3	1:2.76	front	0.527	1.135	0.598	
1880.00	661	GSM 1900	GPRS	27.5	26.95	13	0.03	11 mm	1629M	3	1:2.76	bottom	0.503	1.135	0.571	
1880.00	661	GSM 1900	GPRS	27.5	26.95	13	-0.14	0 mm	1629M	3	1:2.76	right	0.157	1.135	0.178	
1880.00	661	GSM 1900	GPRS	27.5	26.95	13	-0.13	0 mm	1629M	3	1:2.76	left	0.192	1.135	0.218	
1850.20	512	GSM 1900	GPRS	25.5	24.81	13	-0.02	0 mm	1629M	3	1:2.76	back	1.580	1.172	1.852	
1880.00	661	GSM 1900	GPRS	25.5	24.91	13	0.04	0 mm	1629M	3	1:2.76	back	1.450	1.146	1.662	
1909.80	810	GSM 1900	GPRS	25.5	24.85	13	0.03	0 mm	1629M	3	1:2.76	back	1.690	1.161	1.962	A49
1880.00	661	GSM 1900	GPRS	25.5	24.91	13	-0.07	0 mm	1629M	3	1:2.76	front	1.310	1.146	1.501	
1880.00	661	GSM 1900	GPRS	25.5	24.91	13	-0.20	0 mm	1629M	3	1:2.76	bottom	1.300	1.146	1.490	
1712.40	1312	UMTS 1750	RMC	24.0	23.42	0	0.00	8 mm	2635M	N/A	1:1	back	0.770	1.143	0.880	
1712.40	1312	UMTS 1750	RMC	24.0	23.42	0	0.01	6 mm	2635M	N/A	1:1	front	0.919	1.143	1.050	
1712.40	1312	UMTS 1750	RMC	24.0	23.42	0	-0.03	11 mm	2635M	N/A	1:1	bottom	0.995	1.143	1.137	
1712.40	1312	UMTS 1750	RMC	24.0	23.42	0	0.02	0 mm	2635M	N/A	1:1	right	0.282	1.143	0.322	
1712.40	1312	UMTS 1750	RMC	24.0	23.42	0	-0.02	0 mm	2635M	N/A	1:1	left	0.531	1.143	0.607	
1712.40	1312	UMTS 1750	RMC	21.0	20.39	0	-0.02	0 mm	2635M	N/A	1:1	back	2.160	1.151	2.486	A50
1732.40	1412	UMTS 1750	RMC	21.0	20.26	0	-0.01	0 mm	2635M	N/A	1:1	back	1.870	1.186	2.218	
1752.60	1513	UMTS 1750	RMC	21.0	20.17	0	-0.01	0 mm	2635M	N/A	1:1	back	1.670	1.211	2.022	
1712.40	1312	UMTS 1750	RMC	21.0	20.39	0	0.02	0 mm	2635M	N/A	1:1	front	1.600	1.151	1.842	
1712.40	1312	UMTS 1750	RMC	21.0	20.39	0	-0.14	0 mm	2635M	N/A	1:1	bottom	1.810	1.151	2.083	
1732.40	1412	UMTS 1750	RMC	21.0	20.26	0	0.09	0 mm	2635M	N/A	1:1	bottom	1.560	1.186	1.850	
1752.60	1513	UMTS 1750	RMC	21.0	20.17	0	0.04	0 mm	2635M	N/A	1:1	bottom	1.300	1.211	1.574	
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	0.09	8 mm	1629M	N/A	1:1	back	0.731	1.023	0.748	
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	0.04	6 mm	1629M	N/A	1:1	front	0.870	1.023	0.890	
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	-0.11	11 mm	1629M	N/A	1:1	bottom	0.784	1.023	0.802	
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	-0.05	0 mm	1629M	N/A	1:1	right	0.235	1.023	0.240	
1852.40	9262	UMTS 1900	RMC	24.0	23.90	13	-0.08	0 mm	1629M	N/A	1:1	left	0.289	1.023	0.296	
1852.40	9262	UMTS 1900	RMC	22.0	21.92	13	-0.06	0 mm	2616M	N/A	1:1	back	2.360	1.019	2.405	
1880.00	9400	UMTS 1900	RMC	22.0	21.78	13	-0.02	0 mm	2616M	N/A	1:1	back	2.310	1.052	2.430	
1907.60	9538	UMTS 1900	RMC	22.0	21.64	13	0.10	0 mm	2616M	N/A	1:1	back	2.600	1.086	2.824	A51
1852.40	9262	UMTS 1900	RMC	22.0	21.92	13	0.02	0 mm	2616M	N/A	1:1	front	2.000	1.019	2.038	
1880.00	9400	UMTS 1900	RMC	22.0	21.78	13	-0.04	0 mm	2616M	N/A	1:1	front	1.910	1.052	2.009	
1907.60	9538	UMTS 1900	RMC	22.0	21.64	13	-0.07	0 mm	2616M	N/A	1:1	front	1.980	1.086	2.150	
1852.40	9262	UMTS 1900	RMC	22.0	21.92	13	-0.09	0 mm	2616M	N/A	1:1	bottom	1.810	1.019	1.844	
1907.60	9538	UMTS 1900	RMC	22.0	21.64	13	-0.01	0 mm	2616M	N/A	1:1	back	2.500	1.086	2.715	
		ANSI / IE	EEE C95.1 199 Spatial F		LIMIT								nablet kg (mW/g)			
		Uncontrol	led Exposure		ulation						av		over 10 grams	S		

Note: Blue entry represents variability measurement.

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Table 11-58 LTE Band 66 (AWS) Phablet SAR

										RESUL	TS									
FF	REQUENCY	1	Mode	Bandwidth	Maximum Allowed	Conducted	Tune	Power	MPR [dB]	Serial	Modulation	RR Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling	Reported SAR (10g)	Plot #
MHz	С	h.	mode	[MHz]	Power [dBm]	Power [dBm]	State	Drift [dB]	[0.0]	Number	modulation	11.5 0.20	NB 011001	opuomg	Oide	Daily Gyold	(W/kg)	Factor	(W/kg)	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	22.77	0	0.05	0	2635M	QPSK	1	99	8 mm	back	1:1	0.591	1.327	0.784	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.0	21.91	0	0.01	1	2635M	QPSK	50	50	8 mm	back	1:1	0.483	1.285	0.621	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	22.77	0	0.04	0	2635M	QPSK	1	99	6 mm	front	1:1	0.637	1.327	0.845	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.0	21.91	0	0.04	1	2635M	QPSK	50	50	6 mm	front	1:1	0.514	1.285	0.660	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	22.77	0	-0.03	0	2635M	QPSK	1	99	11 mm	bottom	1:1	0.618	1.327	0.820	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.0	21.91	0	0.02	1	2635M	QPSK	50	50	11 mm	bottom	1:1	0.507	1.285	0.651	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	22.77	0	-0.02	0	2635M	QPSK	1	99	0 mm	right	1:1	0.235	1.327	0.312	
1770.00	(AWS)								1	2635M	QPSK	50	50	0 mm	right	1:1	0.192	1.285	0.247	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	22.77	0	-0.06	0	2635M	QPSK	1	99	0 mm	left	1:1	0.250	1.327	0.332	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.0	21.91	0	0.03	1	2635M	QPSK	50	50	0 mm	left	1:1	0.210	1.285	0.270	
1720.00	132072	Low	LTE Band 66 (AWS)	20	21.0	20.13	0	0.02	0	2635M	QPSK	1	50	0 mm	back	1:1	1.990	1.222	2.432	A52
1745.00	132322	Mid	LTE Band 66 (AWS)	20	21.0	19.96	0	0.00	0	2635M	QPSK	1	99	0 mm	back	1:1	1.570	1.271	1.995	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.0	20.27	0	0.04	0	2635M	QPSK	1	0	0 mm	back	1:1	1.670	1.183	1.976	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.0	20.41	0	0.15	0	2635M	QPSK	50	25	0 mm	back	1:1	1.720	1.146	1.971	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.0	20.25	0	0.00	0	2635M	QPSK	100	0	0 mm	back	1:1	1.690	1.189	2.009	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.0	20.27	0	-0.03	0	2635M	QPSK	1	0	0 mm	front	1:1	1.220	1.183	1.443	
1770.00	(AWS)								0	2635M	QPSK	50	25	0 mm	front	1:1	1.300	1.146	1.490	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.0	20.27	0	0.05	0	2635M	QPSK	1	0	0 mm	bottom	1:1	0.982	1.183	1.162	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.0	20.41	0	0.00	0	2635M	QPSK	50	25	0 mm	bottom	1:1	1.040	1.146	1.192	
			ANSI / IEEE C			IIT								Pha						
			Uncontrolled E	Spatial Pea		tion									(mW/g)	ma				
			Uncontrolled E	kposure/Ge	nerai Popula	Ition			<u> </u>				ave	aged ov	er 10 gra	IIIS				

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Table 11-59 LTE Band 25 (PCS) Phablet SAR

									•	RESUL	TS	,								
FF	REQUENCY	r		Bandwidth	Maximum	Conducted	Tune	Power		Serial							SAR (10g)	Scaling	Reported SAR (10g)	Plot #
MHz	С	h.	Mode	[MHz]	Allowed Power [dBm]	Power [dBm]	State	Drift [dB]	MPR [dB]	Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Factor	(W/kg)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.74	58	0.00	0	1262M	QPSK	1	0	8 mm	back	1:1	0.756	1.062	0.803	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.0	22.81	58	0.00	1	1262M	QPSK	50	0	8 mm	back	1:1	0.618	1.045	0.646	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.74	58	-0.02	0	1262M	QPSK	1	0	6 mm	front	1:1	0.757	1.062	0.804	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.0	22.81	58	0.00	1	1262M	QPSK	50	0	6 mm	front	1:1	0.620	1.045	0.648	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.74	58	-0.01	0	1262M	QPSK	1	0	11 mm	bottom	1:1	0.709	1.062	0.753	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.0	22.81	58	-0.05	1	1262M	QPSK	50	0	11 mm	bottom	1:1	0.597	1.045	0.624	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.74	58	0.01	0	1262M	QPSK	1	0	0 mm	right	1:1	0.255	1.062	0.271	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.0	22.81	58	0.04	1	1262M	QPSK	50	0	0 mm	right	1:1	0.213	1.045	0.223	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.74	58	-0.07	0	1262M	QPSK	1	0	0 mm	left	1:1	0.287	1.062	0.305	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.0	22.81	58	0.03	1	1262M	QPSK	50	0	0 mm	left	1:1	0.219	1.045	0.229	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.0	20.23	58	0.01	0	1262M	QPSK	1	0	0 mm	back	1:1	1.870	1.194	2.233	A53
1882.50	26365	Mid	LTE Band 25 (PCS)	20	21.0	20.22	58	0.02	0	1262M	QPSK	1	0	0 mm	back	1:1	1.680	1.197	2.011	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.0	20.09	58	0.01	0	1262M	QPSK	1	99	0 mm	back	1:1	1.650	1.233	2.034	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.0	20.42	58	0.01	0	1262M	QPSK	50	25	0 mm	back	1:1	1.760	1.143	2.012	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	21.0	20.28	58	-0.04	0	1262M	QPSK	50	25	0 mm	back	1:1	1.680	1.180	1.982	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.0	20.10	58	0.02	0	1262M	QPSK	50	50	0 mm	back	1:1	1.750	1.230	2.153	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.0	20.22	58	0.00	0	1262M	QPSK	100	0	0 mm	back	1:1	1.750	1.197	2.095	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.0	20.23	58	-0.04	0	1262M	QPSK	1	0	0 mm	front	1:1	1.450	1.194	1.731	
1860.00	(PCS)									1262M	QPSK	50	25	0 mm	front	1:1	1.490	1.143	1.703	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.0	20.23	58	-0.01	0	1262M	QPSK	1	0	0 mm	bottom	1:1	1.430	1.194	1.707	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.0	20.42	58	-0.02	0	1262M	QPSK	50	25	0 mm	bottom	1:1	1.470	1.143	1.680	
			ANSI / IEEE C								Pha									
			Uncontrolled Ex	Spatial Pea		tion								4.0 W/kg	(mW/g) er 10 gra	ms				
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Table 11-60 LTE Band 41 Phablet SAR

								IIU T	I FII	abici	SAIN									
							ME	ASUREM	IENT RE	SULTS										
Power Class	F	REQUENC	Υ	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling	Reported SAR (10g)	Plot #
	MHz	C	ch.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	. ,	Number						.,.,.	(W/kg)	Factor	(W/kg)	
Power Class 3	2680.00	41490	High	LTE Band 41	20	25.0	24.06	-0.03	0	6266M	QPSK	1	50	8 mm	back	1:1.58	0.199	1.242	0.247	
Power Class 3	2680.00	41490	High	LTE Band 41	20	24.0	23.17	0.07	1	6266M	QPSK	50	50	8 mm	back	1:1.58	0.158	1.211	0.191	
Power Class 3	2680.00	41490	High	LTE Band 41	20	25.0	24.06	-0.06	0	6266M	QPSK	1	50	6 mm	front	1:1.58	0.180	1.242	0.224	
Power Class 3	2680.00	41490	High	LTE Band 41	20	24.0	23.17	0.04	1	6266M	QPSK	50	50	6 mm	front	1:1.58	0.144	1.211	0.174	
Power Class 3	2680.00	41490	High	LTE Band 41	20	25.0	24.06	0.06	0	6266M	QPSK	1	50	11 mm	bottom	1:1.58	0.248	1.242	0.308	
Power Class 3	2680.00	0.02	1	6266M	QPSK	50	50	11 mm	bottom	1:1.58	0.200	1.211	0.242							
Power Class 3	2680.00	41490	High	LTE Band 41	20	25.0	24.06	0.00	0	6266M	QPSK	1	50	0 mm	left	1:1.58	0.710	1.242	0.882	
Power Class 3					20	24.0	23.17	0.09	1	6266M	QPSK	50	50	0 mm	left	1:1.58	0.502	1.211	0.608	
Power Class 3	2680.00	41490	High	LTE Band 41	20	23.5	22.57	0.01	0	6266M	QPSK	1	50	0 mm	back	1:1.58	0.990	1.239	1.227	
Power Class 3	2680.00	41490	High	LTE Band 41	20	23.5	22.69	0.00	0	6266M	QPSK	50	50	0 mm	back	1:1.58	1.010	1.205	1.217	A54
Power Class 2	2680.00	41490	High	LTE Band 41	20	23.5	22.49	0.01	0	6266M	QPSK	1	50	0 mm	back	1:2.31	0.630	1.262	0.795	
Power Class 3	2680.00	41490	High	LTE Band 41	20	23.5	22.57	0.03	0	6266M	QPSK	1	50	0 mm	front	1:1.58	0.610	1.239	0.756	
Power Class 3	2680.00	41490	High	LTE Band 41	20	23.5	22.69	0.09	0	6266M	QPSK	50	50	0 mm	front	1:1.58	0.668	1.205	0.805	
Power Class 3	ower Class 3 2680.00 41490 High LTE Band 41 20 23.5 22.57										QPSK	1	50	0 mm	bottom	1:1.58	0.879	1.239	1.089	
Power Class 3	2680.00	41490	High	LTE Band 41	20	23.5	22.69	0.03	0	6266M	QPSK	50	50	0 mm	bottom	1:1.58	0.882	1.205	1.063	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT Soatial Peak											•	•		Phablet //kg (mW	V/a)				
		Uncontr		osure/General P	opulation										d over 10	•				

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Table 11-61 NR Band n66 (AWS) Phablet SAR

								ı Dai	14 110	7, 0,	VV3) FII	ubict C	·/ \ \ \								
									ME	ASUREMI	ENT RESULTS	3									
	REQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	С	n.	NR Band n66		r ower [dbiii]													(W/kg)		(W/kg)	
1720.00	344000	Low	(AWS)	20	24.0	23.39	0.10	0	0	2635M	DFT-S-OFDM	QPSK	1	104	8 mm	back	1:1	0.423	1.151	0.487	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.28	0.14	0	0	2635M	DFT-S-OFDM	QPSK	50	28	8 mm	back	1:1	0.451	1.180	0.532	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.39	0.14	0	0	2635M	DFT-S-OFDM	QPSK	1	104	6 mm	front	1:1	0.451	1.151	0.519	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.28	0.14	0	0	2635M	DFT-S-OFDM	QPSK	50	28	6 mm	front	1:1	0.484	1.180	0.571	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.39	-0.03	0	0	2635M	DFT-S-OFDM	QPSK	1	104	11 mm	bottom	1:1	0.459	1.151	0.528	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.28	0.03	0	0	2635M	DFT-S-OFDM	QPSK	50	28	11 mm	bottom	1:1	0.461	1.180	0.544	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.39	0.14	0	0	2635M	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.276	1.151	0.318	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.28	0.14	0	0	2635M	DFT-S-OFDM	QPSK	50	28	0 mm	right	1:1	0.265	1.180	0.313	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.39	0.03	0	0	2635M	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	0.454	1.151	0.523	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.28	-0.03	0	0	2635M	DFT-S-OFDM	QPSK	50	28	0 mm	left	1:1	0.473	1.180	0.558	
1770.00	354000	High	NR Band n66 (AWS)	20	21.0	20.81	0.10	0	0	2635M	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	1.760	1.045	1.839	
1720.00	344000	Low	NR Band n66 (AWS)	20	21.0	20.67	0.14	0	0	2635M	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	2.320	1.079	2.503	
1745.00	349000	Mid	NR Band n66 (AWS)	20	21.0	20.42	0.13	0	0	2635M	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	2.050	1.143	2.343	
1770.00	354000	High	NR Band n66 (AWS)	20	21.0	20.73	0.13	0	0	2635M	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	1.770	1.064	1.883	
1770.00	354000	High	NR Band n66 (AWS)	20	21.0	20.69	0.13	0	0	2635M	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	1.910	1.074	2.051	
1720.00	344000	Low	NR Band n66 (AWS)	20	21.0	20.54	0.13	0	0	2635M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	2.330	1.112	2.591	A55
1770.00	354000	High	NR Band n66 (AWS)	20	21.0	20.81	0.13	0	0	2635M	DFT-S-OFDM	QPSK	1	104	0 mm	front	1:1	1.330	1.045	1.390	
1770.00	354000	High	NR Band n66 (AWS)	20	21.0	20.73	0.13	0	0	2635M	DFT-S-OFDM	QPSK	50	28	0 mm	front	1:1	1.380	1.064	1.468	
1770.00	354000	High	NR Band n66 (AWS)	20	21.0	20.81	0.18	0	0	2635M	DFT-S-OFDM	QPSK	1	104	0 mm	bottom	1:1	1.150	1.045	1.202	
1770.00	354000	High	NR Band n66 (AWS)	20	21.0	20.73	-0.01	0	0	2635M	DFT-S-OFDM	QPSK	50	28	0 mm	bottom	1:1	1.200	1.064	1.277	
1720.00	344000	Low	NR Band n66 (AWS)	20	21.0	20.54	0.13	0	0	2635M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	2.260	1.112	2.513	
		A	NSI / IEEE C95.1	1992 - SAF	ETY LIMIT									Extremit	у						
			Spati	al Peak									4.0	W/kg (m	W/g)						
		Unc	ontrolled Exposu	ire/General	Population								averag	ed over 1	0 grams						

Note: Blue entry represents variability measurement.

Table 11-62 WLAN SISO Phablet SAR

							ı	MEASU	REMENT	RESUL	TS.								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (10g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (10g)	Plot#
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5260	52	802.11a	OFDM	20	18.0	17.98	0.02	0 mm	1	1274M	6	back	98.9	1.650	-	1.005	1.011	-	
5260	52	802.11a	OFDM	20	18.0	17.98	0.06	0 mm	1	1274M	6	front	98.9	1.570	-	1.005	1.011	-	
5260	52	802.11a	OFDM	20	18.0	17.98	-0.06	0 mm	1	1274M	6	top	98.9	3.980	0.421	1.005	1.011	0.428	
5260	52	802.11a	OFDM	20	18.0	17.98	0.05	0 mm	1	1274M	6	right	98.9	0.503	-	1.005	1.011	-	
5720	144	802.11a	OFDM	20	18.0	17.86	0.00	0 mm	1	1274M	6	back	98.9	1.850	-	1.033	1.011	-	
5720	144	802.11a	OFDM	20	18.0	17.86	0.03	0 mm	1	1274M	6	front	98.9	2.110	-	1.033	1.011	-	
5720	144	802.11a	OFDM	20	18.0	17.86	-0.08	0 mm	1	1274M	6	top	98.9	4.980	0.547	1.033	1.011	0.571	
5720	144	802.11a	OFDM	20	18.0	17.86	-0.02	0 mm	1	1274M	6	right	98.9	0.799	-	1.033	1.011	-	
		ANSI / II	EEE C95.1 19		YLIMIT									Phablet	****				
		Uncontro	Spatial lled Exposure		opulation									4.0 W/kg (m\ eraged over 10					

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Table 11-63 WLAN MIMO Phablet SAR

	MEASUREMENT RESULTS																				
FREQU	EQUENCY	Service	Bandwidth	Maximum Allowed Power (Ant 1)	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	, Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (10g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (10g)	Plot#	
MHz	Ch.			[MHz]	[dBm]	[dBm]	[dBm]	[dBm]	Drift [dB]		Config.	Number	er (Mbps)	ips)	(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5260	52	802.11n	OFDM	20	18.0	17.91	18.0	17.89	0.03	0 mm	MIMO	1274M	13	back	99.7	2.200		1.026	1.003	-	
5260	52	802.11n	OFDM	20	18.0	17.91	18.0	17.89	-0.01	0 mm	MIMO	1274M	13	front	99.7	2.200	-	1.026	1.003	-	
5260	52	802.11n	OFDM	20	18.0	17.91	18.0	17.89	0.01	0 mm	MIMO	1274M	13	top	99.7	2.610	0.442	1.026	1.003	0.455	
5260	52	802.11n	OFDM	20	18.0	17.91	18.0	17.89	0.02	0 mm	MIMO	1274M	13	right	99.7	0.483	٠	1.026	1.003	-	
5260	52	802.11n	OFDM	20	18.0	17.91	18.0	17.89	-0.02	0 mm	MIMO	1274M	13	left	99.7	9.040	1.380	1.026	1.003	1.420	A56
5600	120	802.11n	OFDM	20	18.0	17.77	18.0	17.99	-0.01	0 mm	MIMO	1274M	13	back	99.7	5.360	0.851	1.054	1.003	0.900	
5600	120	802.11n	OFDM	20	18.0	17.77	18.0	17.99	-0.01	0 mm	MIMO	1274M	13	front	99.7	3.430	-	1.054	1.003	-	
5600	120	802.11n	OFDM	20	18.0	17.77	18.0	17.99	0.04	0 mm	MIMO	1274M	13	top	99.7	2.380	٠	1.054	1.003	-	
5600	120	802.11n	OFDM	20	18.0	17.77	18.0	17.99	-0.04	0 mm	MIMO	1274M	13	right	99.7	0.592	-	1.054	1.003	-	
5600	120	802.11n	OFDM	20	18.0	17.77	18.0	17.99	0.04	0 mm	MIMO	1274M	13	left	99.7	8.530	1.100	1.054	1.003	1.163	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Phablet														
				Spatia	al Peak					4.0 W/kg (mW/g)											
	Uncontrolled Exposure/General Population							averaged over 10 grams													

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 18.0 dBm.

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11.5 SAR Test Notes

General Notes:

- 1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
- 2. Batteries are fully charged at the beginning of the SAR measurements.
- 3. Liquid tissue depth was at least 15.0 cm for all frequencies.
- 4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- 5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- 6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
- 7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
- 8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 13.1 for variability analysis.
- 9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 6.7 for more details).
- 10. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is > 160 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).
- 11. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.
- 12. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 14 for supplemental data.
- 13. This device has an open and closed configuration. When closed, 1g SAR test are required for back side at a test separation distance of 15mm for body-worn, and on all surfaces and edges with an antenna <=25 mm from that surface or edge at a test separation distance 5mm for hotspot.

GSM Test Notes:

- 1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
- 2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
- 3. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

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UMTS Notes:

- UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
- 2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

- 1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 8.5.4.
- 2. 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.
- 3. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
- 4. Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
- 5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
- 6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
- 7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 14 for linearity results.

NR Notes:

- 1. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
- Simultaneous transmission analysis for EN-DC operations is included in Section 12. This device
 additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink
 only. Per FCC guidance, all unique uplink combinations were assessed.
- 3. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
- 4. Per FCC Guidance, the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency as the NR test results. Additional tuner states were evaluated per April 2019 TCBC Workshop Guidance. Please see Section 14 for supplemental data.
- 5. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

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WLAN Notes:

- 1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- 2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 8.6.5 for more information.
- 3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 8.6.6 for more information.
- 4. When the maximum reported 1g averaged SAR is ≤0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
- 5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
- 6. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 12 for complete analysis.
- 7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Bluetooth Notes

- Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5
 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was
 scaled to the 100% transmission duty factor to determine compliance. See Section 9.6 for the time
 domain plot and calculation for the duty factor of the device.
- 2. Head and Hotspot Bluetooth SAR were evaluated for BT BR tethering applications.

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12 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

12.1 Introduction

thereof, please contact INFO@PCTEST.COM.

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

12.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

LTE B25 SAR was used for EN-DC simultaneous analysis since the transmission frequency range of LTE B25 and B2 are overlapped and they share the same transmission path and signal characteristics. LTE B26 SAR was used for EN-DC simultaneous analysis since the transmission frequency range of LTE B26 and B5 are overlapped and they share the same transmission path and signal characteristics.

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR ("-").

(*) For test positions that were not required to be evaluated for WLAN SAR per FCC KDB publication 248227, the worst case WLAN SAR result for the applicable exposure conditions was used for simultaneous transmission analysis.

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12.3 Head SAR Simultaneous Transmission Analysis

Table 12-1 Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Held to Ear)

Configuration	Configuration Mode		5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.166	0.076	0.242
	GSM 1900	0.052	0.076	0.128
	UMTS 850	0.237	0.076	0.313
	UMTS 1750	0.085	0.076	0.161
	UMTS 1900	0.090	0.076	0.166
	LTE Band 12	0.203	0.076	0.279
Head SAR	LTE Band 13	0.121	0.076	0.197
	LTE Band 26 (Cell)	0.174	0.076	0.250
	LTE Band 66 (AWS)	0.102	0.076	0.178
	LTE Band 25 (PCS)	0.066	0.076	0.142
	LTE Band 41	0.137	0.076	0.213
	NR Band n5 (Cell)	0.237	0.076	0.313
	NR Band n66 (AWS)	0.096	0.076	0.172

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.076	0.415
rieau SAN	LTE Band 25 (PCS)	0.066	0.237	0.076	0.379
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.076	0.346
rieau SAN	LTE Band 12	0.203	0.096	0.076	0.375

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Table 12-2 Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.166	0.191	0.357
	GSM 1900	0.052	0.191	0.243
	UMTS 850	0.237	0.191	0.428
	UMTS 1750	0.085	0.191	0.276
	UMTS 1900	0.090	0.191	0.281
	LTE Band 12	0.203	0.191	0.394
Head SAR	LTE Band 13	0.121	0.191	0.312
	LTE Band 26 (Cell)	0.174	0.191	0.365
	LTE Band 66 (AWS)	0.102	0.191	0.293
	LTE Band 25 (PCS)	0.066	0.191	0.257
	LTE Band 41	0.137	0.191	0.328
	NR Band n5 (Cell)	0.237	0.191	0.428
	NR Band n66 (AWS)	0.096	0.191	0.287

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.191	0.530
rieau SAN	LTE Band 25 (PCS)	0.066	0.237	0.191	0.494
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.191	0.461
I lead SAR	LTE Band 12	0.203	0.096	0.191	0.490

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Table 12-3 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Held to Ear)

Simultaneous Transmission Scenario With 2.4 GHZ MIMO WEAN (Held to				
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.166	0.311	0.477
	GSM 1900	0.052	0.311	0.363
	UMTS 850	0.237	0.311	0.548
	UMTS 1750	0.085	0.311	0.396
	UMTS 1900	0.090	0.311	0.401
	LTE Band 12	0.203	0.311	0.514
Head SAR	LTE Band 13	0.121	0.311	0.432
	LTE Band 26 (Cell)	0.174	0.311	0.485
	LTE Band 66 (AWS)	0.102	0.311	0.413
	LTE Band 25 (PCS)	0.066	0.311	0.377
	LTE Band 41	0.137	0.311	0.448
	NR Band n5 (Cell)	0.237	0.311	0.548
	NR Band n66 (AWS)	0.096	0.311	0.407

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.311	0.650
neau SAR	LTE Band 25 (PCS)	0.066	0.237	0.311	0.614
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.311	0.581
Head SAR	LTE Band 12	0.203	0.096	0.311	0.610

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Table 12-4 Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Held to Ear)

Simultaneous Transmission Scenario with Bidetooth Antenna 1 (Heid to Ear)					
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2	
	GSM 850	0.166	0.170	0.336	
	GSM 1900	0.052	0.170	0.222	
	UMTS 850	0.237	0.170	0.407	
	UMTS 1750	0.085	0.170	0.255	
	UMTS 1900	0.090	0.170	0.260	
	LTE Band 12	0.203	0.170	0.373	
Head SAR	LTE Band 13	0.121	0.170	0.291	
	LTE Band 26 (Cell)	0.174	0.170	0.344	
	LTE Band 66 (AWS)	0.102	0.170	0.272	
	LTE Band 25 (PCS)	0.066	0.170	0.236	
	LTE Band 41	0.137	0.170	0.307	
	NR Band n5 (Cell)	0.237	0.170	0.407	
	NR Band n66 (AWS)	0.096	0.170	0.266	

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.170	0.509
rieau SAIN	LTE Band 25 (PCS)	0.066	0.237	0.170	0.473
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.170	0.440
Head SAR	LTE Band 12	0.203	0.096	0.170	0.469

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Table 12-5 Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.166	0.330	0.496
	GSM 1900	0.052	0.330	0.382
	UMTS 850	0.237	0.330	0.567
	UMTS 1750	0.085	0.330	0.415
	UMTS 1900	0.090	0.330	0.420
	LTE Band 12	0.203	0.330	0.533
Head SAR	LTE Band 13	0.121	0.330	0.451
	LTE Band 26 (Cell)	0.174	0.330	0.504
	LTE Band 66 (AWS)	0.102	0.330	0.432
	LTE Band 25 (PCS)	0.066	0.330	0.396
	LTE Band 41	0.137	0.330	0.467
	NR Band n5 (Cell)	0.237	0.330	0.567
	NR Band n66 (AWS)	0.096	0.330	0.426

	Till Balla 1100 (7 till	-)	01000 010		0		
Configuration	Configuration LTE Anchor Band		NR Band n5 (Cell) SAR (W/kg)	2.4 G Blueto Ant 2 S (W/k	oth SAR	Σ SAR (W/k	(g)
		1	2	3		1+2+3	
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.33	80	0.669	
Head SAN	LTE Band 25 (PCS)	0.066	0.237	0.33	80	0.633	
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg	I Ant 7 S	oth SAR	Σ SAR (W/k	(g)
		1	2	3		1+2+3	
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.33	80	0.600	
I lead SAN	LTE Band 12	0.203	0.096	0.33	0	0.629	

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Table 12-6 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Held to Ear)

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Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.166	0.170	0.076	0.412
	GSM 1900	0.052	0.170	0.076	0.298
	UMTS 850	0.237	0.170	0.076	0.483
	UMTS 1750	0.085	0.170	0.076	0.331
	UMTS 1900	0.090	0.170	0.076	0.336
	LTE Band 12	0.203	0.170	0.076	0.449
Head SAR	LTE Band 13	0.121	0.170	0.076	0.367
	LTE Band 26 (Cell)	0.174	0.170	0.076	0.420
	LTE Band 66 (AWS)	0.102	0.170	0.076	0.348
	LTE Band 25 (PCS)	0.066	0.170	0.076	0.312
	LTE Band 41	0.137	0.170	0.076	0.383
	NR Band n5 (Cell)	0.237	0.170	0.076	0.483
	NR Band n66 (AWS)	0.096	0.170	0.076	0.342

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.170	0.076	0.585
neau SAR	LTE Band 25 (PCS)	0.066	0.237	0.170	0.076	0.549
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.170	0.076	0.516
Head SAR	LTE Band 12	0.203	0.096	0.170	0.076	0.545

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Table 12-7 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Held to Ear)

Configuration	Mode Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.166	0.330	0.076	0.572
	GSM 1900	0.052	0.330	0.076	0.458
	UMTS 850	0.237	0.330	0.076	0.643
	UMTS 1750	0.085	0.330	0.076	0.491
	UMTS 1900	0.090	0.330	0.076	0.496
	LTE Band 12	0.203	0.330	0.076	0.609
Head SAR	LTE Band 13	0.121	0.330	0.076	0.527
	LTE Band 26 (Cell)	0.174	0.330	0.076	0.580
	LTE Band 66 (AWS)	0.102	0.330	0.076	0.508
	LTE Band 25 (PCS)	0.066	0.330	0.076	0.472
	LTE Band 41	0.137	0.330	0.076	0.543
	NR Band n5 (Cell)	0.237	0.330	0.076	0.643
	NR Band n66 (AWS)	0.096	0.330	0.076	0.502

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.330	0.076	0.745
rieau SAIN	LTE Band 25 (PCS)	0.066	0.237	0.330	0.076	0.709
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.330	0.076	0.676
i leau SAR	LTE Band 12	0.203	0.096	0.330	0.076	0.705

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Table 12-8 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz MIMO WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.166	0.170	0.191	0.527
	GSM 1900	0.052	0.170	0.191	0.413
	UMTS 850	0.237	0.170	0.191	0.598
	UMTS 1750	0.085	0.170	0.191	0.446
	UMTS 1900	0.090	0.170	0.191	0.451
	LTE Band 12	0.203	0.170	0.191	0.564
Head SAR	LTE Band 13	0.121	0.170	0.191	0.482
	LTE Band 26 (Cell)	0.174	0.170	0.191	0.535
	LTE Band 66 (AWS)	0.102	0.170	0.191	0.463
	LTE Band 25 (PCS)	0.066	0.170	0.191	0.427
	LTE Band 41	0.137	0.170	0.191	0.498
	NR Band n5 (Cell)	0.237	0.170	0.191	0.598
	NR Band n66 (AWS)	0.096	0.170	0.191	0.457

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.170	0.191	0.700
rieau SAIN	LTE Band 25 (PCS)	0.066	0.237	0.170	0.191	0.664
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.170	0.191	0.631
i lead SAR	LTE Band 12	0.203	0.096	0.170	0.191	0.660

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Table 12-9 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Held to Ear)

itaneous Transmission occident with Blactooth Antenna 2 and och 2 millio WEAT (
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3		
	GSM 850	0.166	0.330	0.191	0.687		
	GSM 1900	0.052	0.330	0.191	0.573		
	UMTS 850	0.237	0.330	0.191	0.758		
	UMTS 1750	0.085	0.330	0.191	0.606		
	UMTS 1900	0.090	0.330	0.191	0.611		
	LTE Band 12	0.203	0.330	0.191	0.724		
Head SAR	LTE Band 13	0.121	0.330	0.191	0.642		
	LTE Band 26 (Cell)	0.174	0.330	0.191	0.695		
	LTE Band 66 (AWS)	0.102	0.330	0.191	0.623		
	LTE Band 25 (PCS)	0.066	0.330	0.191	0.587		
	LTE Band 41	0.137	0.330	0.191	0.658		
	NR Band n5 (Cell)	0.237	0.330	0.191	0.758		
	NR Band n66 (AWS)	0.096	0.330	0.191	0.617		

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.330	0.191	0.860
Head SAR	LTE Band 25 (PCS)	0.066	0.237	0.330	0.191	0.824
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.330	0.191	0.791
i lead SAR	LTE Band 12	0.203	0.096	0.330	0.191	0.820

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Table 12-10 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2 (Held to Ear)

	,				
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.166	0.170	0.305	0.641
	GSM 1900	0.052	0.170	0.305	0.527
	UMTS 850	0.237	0.170	0.305	0.712
	UMTS 1750	0.085	0.170	0.305	0.560
	UMTS 1900	0.090	0.170	0.305	0.565
	LTE Band 12	0.203	0.170	0.305	0.678
Head SAR	LTE Band 13	0.121	0.170	0.305	0.596
	LTE Band 26 (Cell)	0.174	0.170	0.305	0.649
	LTE Band 66 (AWS)	0.102	0.170	0.305	0.577
	LTE Band 25 (PCS)	0.066	0.170	0.305	0.541
	LTE Band 41	0.137	0.170	0.305	0.612
	NR Band n5 (Cell)	0.237	0.170	0.305	0.712
	NR Band n66 (AWS)	0.096	0.170	0.305	0.571

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.170	0.305	0.814
Head SAR	LTE Band 25 (PCS)	0.066	0.237	0.170	0.305	0.778
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.170	0.305	0.745
I lead SAIN	LTE Band 12	0.203	0.096	0.170	0.305	0.774

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Table 12-11 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz Antenna 1 WLAN (Held to Ear)

			11-11-11-11-11-11-11-11-11-11-11-11-11-				
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3+4	
	GSM 850	0.166	0.170	0.305	0.076	0.717	
	GSM 1900	0.052	0.170	0.305	0.076	0.603	
	UMTS 850	0.237	0.170	0.305	0.076	0.788	
	UMTS 1750	0.085	0.170	0.305	0.076	0.636	
	UMTS 1900	0.090	0.170	0.305	0.076	0.641	
	LTE Band 12	0.203	0.170	0.305	0.076	0.754	
Head SAR	LTE Band 13	0.121	0.170	0.305	0.076	0.672	
	LTE Band 26 (Cell)	0.174	0.170	0.305	0.076	0.725	
	LTE Band 66 (AWS)	0.102	0.170	0.305	0.076	0.653	
	LTE Band 25 (PCS)	0.066	0.170	0.305	0.076	0.617	
	LTE Band 41	0.137	0.170	0.305	0.076	0.688	
	NR Band n5 (Cell)	0.237	0.170	0.305	0.076	0.788	
	NR Band n66 (AWS)	0.096	0.170	0.305	0.076	0.647	

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.170	0.305	0.076	0.890
rieau SAN	LTE Band 25 (PCS)	0.066	0.237	0.170	0.305	0.076	0.854
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.170	0.305	0.076	0.821
i lead SAN	LTE Band 12	0.203	0.096	0.170	0.305	0.076	0.850

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Table 12-12 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz MIMO WLAN (Held to Ear)

			1			
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
	GSM 850	0.166	0.170	0.305	0.191	0.832
	GSM 1900	0.052	0.170	0.305	0.191	0.718
	UMTS 850	0.237	0.170	0.305	0.191	0.903
	UMTS 1750	0.085	0.170	0.305	0.191	0.751
	UMTS 1900	0.090	0.170	0.305	0.191	0.756
	LTE Band 12	0.203	0.170	0.305	0.191	0.869
Head SAR	LTE Band 13	0.121	0.170	0.305	0.191	0.787
	LTE Band 26 (Cell)	0.174	0.170	0.305	0.191	0.840
	LTE Band 66 (AWS)	0.102	0.170	0.305	0.191	0.768
	LTE Band 25 (PCS)	0.066	0.170	0.305	0.191	0.732
	LTE Band 41	0.137	0.170	0.305	0.191	0.803
	NR Band n5 (Cell)	0.237	0.170	0.305	0.191	0.903
	NR Band n66 (AWS)	0.096	0.170	0.305	0.191	0.762

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.170	0.305	0.191	1.005
Head SAR	LTE Band 25 (PCS)	0.066	0.237	0.170	0.305	0.191	0.969
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.170	0.305	0.191	0.936
i leau SAR	LTE Band 12	0.203	0.096	0.170	0.305	0.191	0.965

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Table 12-13 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.166	0.311	0.191	0.668
	GSM 1900	0.052	0.311	0.191	0.554
	UMTS 850	0.237	0.311	0.191	0.739
	UMTS 1750	0.085	0.311	0.191	0.587
	UMTS 1900	0.090	0.311	0.191	0.592
	LTE Band 12	0.203	0.311	0.191	0.705
Head SAR	LTE Band 13	0.121	0.311	0.191	0.623
	LTE Band 26 (Cell)	0.174	0.311	0.191	0.676
	LTE Band 66 (AWS)	0.102	0.311	0.191	0.604
	LTE Band 25 (PCS)	0.066	0.311	0.191	0.568
	LTE Band 41	0.137	0.311	0.191	0.639
	NR Band n5 (Cell)	0.237	0.311	0.191	0.739
	NR Band n66 (AWS)	0.096	0.311	0.191	0.598

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.102	0.237	0.311	0.191	0.841
rieau SAIN	LTE Band 25 (PCS)	0.066	0.237	0.311	0.191	0.805
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 26 (Cell)	0.174	0.096	0.311	0.191	0.772
Head SAR	LTE Band 12	0.203	0.096	0.311	0.191	0.801

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12.4 Open Body-Worn Simultaneous Transmission Analysis

Table 12-14 Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.143	0.049	0.192
	GSM 1900	0.270	0.049	0.319
	UMTS 850	0.224	0.049	0.273
	UMTS 1750	0.565	0.049	0.614
	UMTS 1900	0.540	0.049	0.589
	LTE Band 12	0.212	0.049	0.261
Body - Worn SAR	LTE Band 13	0.200	0.049	0.249
	LTE Band 26 (Cell)	0.219	0.049	0.268
	LTE Band 66 (AWS)	0.666	0.049	0.715
	LTE Band 25 (PCS)	0.576	0.049	0.625
	LTE Band 41	0.190	0.049	0.239
	NR Band n5 (Cell)	0.279	0.049	0.328
	NR Band n66 (AWS)	0.733	0.049	0.782

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 66 (AWS)	0.666	0.279	0.049	0.994
SAR	LTE Band 25 (PCS)	0.576	0.279	0.049	0.904
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 26 (Cell)	0.219	0.733	0.049	1.001
SAR	LTE Band 12	0.212	0.733	0.049	0.994

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Table 12-15 Simultaneous Transmission Scenario with 5 GHz MIMO WI AN (Rody-Worn at 1.5 cm)

	Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)							
Configuration		ration	Mode		2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAF (W/kg)	2	Σ SAR (W/kg)
					1	2		1+2
			GSM 850		0.143	0.082		0.225
			GSM 1900)	0.270	0.082		0.352
			UMTS 850		0.224	0.082		0.306
			UMTS 1750		0.565	0.082		0.647
			UMTS 1900		0.540	0.082		0.622
			LTE Band 12		0.212	0.082		0.294
	Body - Wo	orn SAR	LTE Band 13		0.200	0.082		0.282
			LTE Band 26	(Cell)	0.219	0.082		0.301
			LTE Band 66 (AWS)	0.666	0.082		0.748
			LTE Band 25 (PCS)	0.576	0.082		0.658
			LTE Band 4	41	0.190	0.082		0.272
			NR Band n5 (Cell)	0.279	0.082		0.361
	NR		NR Band n66 (AWS)	0.733	0.082		0.815
<u></u>	onfiguration	LTE	Anchor Band	4G SAR (W/kg)	NR Band (Cell) SA (W/kg)	R	N SAR	Σ SAR (W/kg)

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 66 (AWS)	0.666	0.279	0.082	1.027
SAR	LTE Band 25 (PCS)	0.576	0.279	0.082	0.937
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 26 (Cell)	0.219	0.733	0.082	1.034
SAR	LTE Band 12	0.212	0.733	0.082	1.027

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Table 12-16 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.143	0.231	0.374
	GSM 1900	0.270	0.231	0.501
	UMTS 850	0.224	0.231	0.455
	UMTS 1750	0.565	0.231	0.796
	UMTS 1900	0.540	0.231	0.771
	LTE Band 12	0.212	0.231	0.443
Body - Worn SAR	LTE Band 13	0.200	0.231	0.431
	LTE Band 26 (Cell)	0.219	0.231	0.450
	LTE Band 66 (AWS)	0.666	0.231	0.897
	LTE Band 25 (PCS)	0.576	0.231	0.807
	LTE Band 41	0.190	0.231	0.421
	NR Band n5 (Cell)	0.279	0.231	0.510
	NR Band n66 (AWS)	0.733	0.231	0.964

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 66 (AWS)	0.666	0.279	0.231	1.176
SAR	LTE Band 25 (PCS)	0.576	0.279	0.231	1.086
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 26 (Cell)	0.219	0.733	0.231	1.183
SAR	LTE Band 12	0.212	0.733	0.231	1.176

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Table 12-17 Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.143	0.052	0.195
	GSM 1900	0.270	0.052	0.322
	UMTS 850	0.224	0.052	0.276
	UMTS 1750	0.565	0.052	0.617
	UMTS 1900	0.540	0.052	0.592
	LTE Band 12	0.212	0.052	0.264
Body - Worn SAR	LTE Band 13	0.200	0.052	0.252
	LTE Band 26 (Cell)	0.219	0.052	0.271
	LTE Band 66 (AWS)	0.666	0.052	0.718
	LTE Band 25 (PCS)	0.576	0.052	0.628
	LTE Band 41	0.190	0.052	0.242
	NR Band n5 (Cell)	0.279	0.052	0.331
	NR Band n66 (AWS)	0.733	0.052	0.785

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 66 (AWS)	0.666	0.279	0.052	0.997
SAR	LTE Band 25 (PCS)	0.576	0.279	0.052	0.907
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 26 (Cell)	0.219	0.733	0.052	1.004
SAR	LTE Band 12	0.212	0.733	0.052	0.997

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Table 12-18 Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.143	0.043	0.186
	GSM 1900	0.270	0.043	0.313
	UMTS 850	0.224	0.043	0.267
	UMTS 1750	0.565	0.043	0.608
	UMTS 1900	0.540	0.043	0.583
	LTE Band 12	0.212	0.043	0.255
Body - Worn SAR	LTE Band 13	0.200	0.043	0.243
	LTE Band 26 (Cell)	0.219	0.043	0.262
	LTE Band 66 (AWS)	0.666	0.043	0.709
	LTE Band 25 (PCS)	0.576	0.043	0.619
	LTE Band 41	0.190	0.043	0.233
	NR Band n5 (Cell)	0.279	0.043	0.322
	NR Band n66 (AWS)	0.733	0.043	0.776

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 66 (AWS)	0.666	0.279	0.043	0.988
SAR	LTE Band 25 (PCS)	0.576	0.279	0.043	0.898
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 26 (Cell)	0.219	0.733	0.043	0.995
SAR	LTE Band 12	0.212	0.733	0.043	0.988

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Table 12-19 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

				(Body-w	orn at 1.5 cm	n)		
	Configuration		Mode		2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
					1	2	3	1+2+3
			GSM 850		0.143	0.052	0.049	0.244
			GSM 1900)	0.270	0.052	0.049	0.371
			UMTS 850)	0.224	0.052	0.049	0.325
			UMTS 175	0	0.565	0.052	0.049	0.666
			UMTS 190	0	0.540	0.052	0.049	0.641
			LTE Band 1	2	0.212	0.052	0.049	0.313
	Body - Wo	rn SAR	LTE Band 1	3	0.200	0.052	0.049	0.301
			LTE Band 26 (Cell)		0.219	0.052	0.049	0.320
			LTE Band 66 (AWS)		0.666	0.052	0.049	0.767
			LTE Band 25 (PCS)		0.576	0.052	0.049	0.677
			LTE Band 41		0.190	0.052	0.049	0.291
			NR Band n5 (Cell)		0.279	0.052	0.049	0.380
			NR Band n66 (A	AWS)	0.733	0.052	0.049	0.834
•	Configuration	LTE	Anchor Band	4G SAR (W/kg)		I RIJETOOTE	WLAN Ant	Σ SAR (W/kg)
				1	2	3	4	1+2+3+4
	Body - Worn		Band 66 (AWS)	0.666	0.279	0.052	0.049	1.046
L	SAR	LTE	Band 25 (PCS)	0.576	0.279	0.052	0.049	0.956
Configuration		LTE Anchor Band		4G SAR (W/kg)	I nee (AVV)	Bluetooth	WLAN Ant	Σ SAR (W/kg)
				1	2	3	4	1+2+3+4
	Body - Worn	LTE	Band 26 (Cell)	0.219	0.733	0.052	0.049	1.053
	~ ~ ~		TE D 1.40					

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0.212

0.733

0.052

0.049

SAR

LTE Band 12

1.046

Table 12-20 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

I		1		(Dody III	orii at 1.5 cm	•	5.011	
	Configuration		Mode		2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
					1	2	3	1+2+3
			GSM 850		0.143	0.043	0.049	0.235
			GSM 1900)	0.270	0.043	0.049	0.362
			UMTS 850)	0.224	0.043	0.049	0.316
			UMTS 175	0	0.565	0.043	0.049	0.657
			UMTS 190	0	0.540	0.043	0.049	0.632
			LTE Band '	12	0.212	0.043	0.049	0.304
	Body - Wo	rn SAR	LTE Band 1	13	0.200	0.043	0.049	0.292
			LTE Band 26 ((Cell)	0.219	0.043	0.049	0.311
			LTE Band 66 (AWS)		0.666	0.043	0.049	0.758
			LTE Band 25 (PCS)		0.576	0.043	0.049	0.668
			LTE Band 41		0.190	0.043	0.049	0.282
			NR Band n5 (Cell)		0.279	0.043	0.049	0.371
			NR Band n66 (AWS)	0.733	0.043	0.049	0.825
С	Configuration	LTE Anchor Band		4G SAR (W/kg)	NR Band n (Cell) SAF (W/kg)	Rluetooth	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
				1	2	3	4	1+2+3+4
Е	Body - Worn	LTE E	Band 66 (AWS)	0.666	0.279	0.043	0.049	1.037
	SAR	LTE E	Band 25 (PCS)	0.576	0.279	0.043	0.049	0.947
С	Configuration	LTE Anchor Band		4G SAR (W/kg)	NR Band n66 (AWS SAR (W/kg	Bluetooth	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
				1	2	3	4	1+2+3+4
E	Body - Worn	LTE	Band 26 (Cell)	0.219	0.733	0.043	0.049	1.044
	SAR	L	TE Band 12	0.212	0.733	0.043	0.049	1.037

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Table 12-21 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

			(Dody-VV	orn at 1.5 cn	'/		
Configuration		Mode		2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
				1	2	3	1+2+3
		GSM 850		0.143	0.052	0.082	0.277
		GSM 1900)	0.270	0.052	0.082	0.404
		UMTS 850)	0.224	0.052	0.082	0.358
		UMTS 175	0	0.565	0.052	0.082	0.699
		UMTS 190	0	0.540	0.052	0.082	0.674
		LTE Band 1	12	0.212	0.052	0.082	0.346
Body - Wo	rn SAR	LTE Band 1	13	0.200	0.052	0.082	0.334
		LTE Band 26 (Cell)		0.219	0.052	0.082	0.353
		LTE Band 66 (AWS)		0.666	0.052	0.082	0.800
		LTE Band 25 (PCS)	0.576	0.052	0.082	0.710
		LTE Band 41		0.190	0.052	0.082	0.324
		NR Band n5 (Cell)		0.279	0.052	0.082	0.413
		NR Band n66 (/	AWS)	0.733	0.052	0.082	0.867
Configuration	LTE	E Anchor Band	4G SAR (W/kg)	NR Band r (Cell) SAI (W/kg)	RILIETOOTE	WLAN	Σ SAR (W/kg)
			1	2	3	4	1+2+3+4
Body - Worn	LTE	Band 66 (AWS)	0.666	0.279	0.052	0.082	1.079
SAR	LTE Band 25 (PCS)		0.576	0.279	0.052	0.082	0.989
Configuration	LTE	E Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS SAR (W/k	Bluetooth	WLAN	Σ SAR (W/kg)
			1	2	3	4	1+2+3+4

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0.219

0.212

0.733

0.733

0.052

0.052

0.082

0.082

Body - Worn

SAR

LTE Band 26 (Cell)

LTE Band 12

1.086

1.079

Table 12-22 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configu	ration	Mode		2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
				1	2	3	1+2+3
		GSM 850		0.143	0.043	0.082	0.268
		GSM 1900)	0.270	0.043	0.082	0.395
		UMTS 850)	0.224	0.043	0.082	0.349
		UMTS 175	0	0.565	0.043	0.082	0.690
		UMTS 190	0	0.540	0.043	0.082	0.665
		LTE Band ²	12	0.212	0.043	0.082	0.337
Body - W	orn SAR	LTE Band ²	13	0.200	0.043	0.082	0.325
		LTE Band 26	(Cell)	0.219	0.043	0.082	0.344
		LTE Band 66 (AWS)		0.666	0.043	0.082	0.791
		LTE Band 25 (PCS)	0.576	0.043	0.082	0.701
		LTE Band 41		0.190	0.043	0.082	0.315
		NR Band n5 (Cell)	0.279	0.043	0.082	0.404
		NR Band n66 (AWS)	0.733	0.043	0.082	0.858
Configuration	LTE	Anchor Band	4G SAR (W/kg)	NR Band n (Cell) SAF (W/kg)	Rhiptooth	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
			1	2	3	4	1+2+3+4
Body - Worn	LTE E	Band 66 (AWS)	0.666	0.279	0.043	0.082	1.070
SAR	LTE	Band 25 (PCS)	0.576	0.279	0.043	0.082	0.980
Configuration	LTE	Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS SAR (W/kg	Bluetooth	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
			1	2	3	4	1+2+3+4
Body - Worn		Band 26 (Cell)	0.219	0.733	0.043	0.082	1.077
SAR	L	TE Band 12	0.212	0.733	0.043	0.082	1.070

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Table 12-23 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2 (Body-Worn at 1.5 cm)

				(Body-W	orn at 1.5 cm	')		
	Configuration		Mode		2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
					1	2	3	1+2+3
-			GSM 850		0.143	0.052	0.059	0.254
			GSM 1900)	0.270	0.052	0.059	0.381
			UMTS 850)	0.224	0.052	0.059	0.335
			UMTS 175	0	0.565	0.052	0.059	0.676
			UMTS 190	0	0.540	0.052	0.059	0.651
			LTE Band '	12	0.212	0.052	0.059	0.323
	Body - Wo	rn SAR	LTE Band '	13	0.200	0.052	0.059	0.311
			LTE Band 26 ((Cell)	0.219	0.052	0.059	0.330
			LTE Band 66 (AWS)		0.666	0.052	0.059	0.777
			LTE Band 25 (PCS)	0.576	0.052	0.059	0.687
			LTE Band 4	41	0.190	0.052	0.059	0.301
			NR Band n5 (Cell)	0.279	0.052	0.059	0.390
			NR Band n66 (AWS)		0.733	0.052	0.059	0.844
С	onfiguration	LTE	Anchor Band	4G SAR (W/kg)	NR Band n (Cell) SAF (W/kg)	I RIJETOOTH		Σ SAR (W/kg)
				1	2	3	4	1+2+3+4
В	ody - Worn	LTE E	Band 66 (AWS)	0.666	0.279	0.052	0.059	1.056
	SAR	LTE E	Band 25 (PCS)	0.576	0.279	0.052	0.059	0.966
С	onfiguration	LTE	Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS SAR (W/kg	Bluetooth		Σ SAR (W/kg)
				1	2	3	4	1+2+3+4
В	ody - Worn		Band 26 (Cell)	0.219	0.733	0.052	0.059	1.063
	SAR	L	TE Band 12	0.212	0.733	0.052	0.059	1.056

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Table 12-24 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

Configurat	ion	Mode		2G/3G/4G SAR (W/kg)	Bl An	2.4 GHz luetooth at 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg) 1+2+3+4
		GSM 850		0.143		0.052	0.059	0.049	0.303
		GSM 1900		0.270	_	0.052	0.059	0.049	0.430
		UMTS 850		0.224		0.052	0.059	0.049	0.384
		UMTS 1750)	0.565	_	0.052	0.059	0.049	0.725
		UMTS 1900		0.540		0.052	0.059	0.049	0.700
		LTE Band 12		0.212		0.052	0.059	0.049	0.372
Body - Worr	SAR	LTE Band 13		0.200	_	0.052	0.059	0.049	0.360
		LTE Band 26 (0	Cell)	0.219		0.052	0.059	0.049	0.379
		LTE Band 66 (AWS)		0.666		0.052	0.059	0.049	0.826
		LTE Band 25 (P	CS)	0.576		0.052	0.059	0.049	0.736
		LTE Band 4	1	0.190		0.052	0.059	0.049	0.350
		NR Band n5 (Cell)		0.279		0.052	0.059	0.049	0.439
		NR Band n66 (AWS)		0.733		0.052	0.059	0.049	0.893
Configuration	LT	E Anchor Band	4G SAI (W/kg)		١R	2.4 GHz Bluetooth Ant 1 SAF (W/kg)	WLAN An	5 GHz t WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
			1	2		3	4	5	1+2+3+4+5
Body - Worn	LTE	Band 66 (AWS)	0.666	0.279		0.052	0.059	0.049	1.105
SAR	LTE	Band 25 (PCS)	0.576	0.279		0.052	0.059	0.049	1.015
Configuration	LT	E Anchor Band	4G SAI (W/kg)	I nee (AVV	S)	2.4 GHz Bluetooth Ant 1 SAF (W/kg)		5 GHz t WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
			1	2		3	4	5	1+2+3+4+5
Body - Worn		E Band 26 (Cell)	0.219			0.052	0.059	0.049	1.112
SAR		LTE Band 12	0.212	0.733		0.052	0.059	0.049	1.105

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Table 12-25 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

				AN (Body-V	2.4	4 GHz	2.4 GHz	5 GHz	
Configuration				2G/3G/4G	_		WLAN Ant	WLAN	Σ SAR (W/kg)
		Mode		SAR (W/kg)		1 SAR	2 SAR	MIMO SAR	(0,
					(V	N/kg)	(W/kg)	(W/kg)	
			1		2	3	4	1+2+3+4	
		GSM 850		0.143	0).052	0.059	0.082	0.336
		GSM 1900		0.270	0	0.052	0.059	0.082	0.463
		UMTS 850		0.224	0).052	0.059	0.082	0.417
		UMTS 1750)	0.565	0	0.052	0.059	0.082	0.758
		UMTS 1900		0.540	0).052	0.059	0.082	0.733
		LTE Band 12	2	0.212	0).052	0.059	0.082	0.405
Body - Worn	SAR	LTE Band 13	3	0.200	0).052	0.059	0.082	0.393
		LTE Band 26 (Cell)		0.219	0).052	0.059	0.082	0.412
		LTE Band 66 (AWS)		0.666	0.).052	0.059	0.082	0.859
		LTE Band 25 (P	LTE Band 25 (PCS)		0.).052	0.059	0.082	0.769
		LTE Band 41		0.190	0	0.052	0.059	0.082	0.383
		NR Band n5 (Cell)		0.279	0	0.052	0.059	0.082	0.472
		NR Band n66 (AWS)		0.733	0	0.052	0.059	0.082	0.926
				NR Band	n.E	2.4 GHz	2.4 GHz	5 GHz	
			4G SAI	(Cell) SA		Bluetooth	WLAN An	t WLAN	Σ SAR (W/kg)
Configuration	LT	E Anchor Band	(W/kg	(W/kg)		Ant 1 SAR	2 SAR	MIMO SAR	Z SAIN (VV/Ng)
				(VV/Kg)		(W/kg)	(W/kg)	(W/kg)	
			1	2		3	4	5	1+2+3+4+5
Body - Worn	LTE	Band 66 (AWS)	0.666	0.279		0.052	0.059	0.082	1.138
SAR	LTE	Band 25 (PCS)	0.576	0.279		0.052	0.059	0.082	1.048
				NR Ban	4	2.4 GHz	2.4 GHz	5 GHz	
			4G SAI	n66 (AW		Bluetooth	WLAN An		Σ SAR (W/kg)
Configuration	LT	E Anchor Band	(W/kg)	SAR (W/		Ant 1 SAR	2 SAR	MIMO SAR	2 SAIN (VV/NG)
				OAIX (W/I	(9)	(W/kg)	(W/kg)	(W/kg)	
			1	2		3	4	5	1+2+3+4+5
Body - Worn	LTI	E Band 26 (Cell)	0.219	0.733		0.052	0.059	0.082	1.145
SAR		LTE Band 12	0.212	0.733		0.052	0.059	0.082	1.138

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Table 12-26 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

				(Boay III	orii at 1.5 cm	<u>'/</u>		
	Configur	ation	Mode		2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
					1	2	3	1+2+3
			GSM 850		0.143	0.231	0.082	0.456
			GSM 1900		0.270	0.231	0.082	0.583
			UMTS 850)	0.224	0.231	0.082	0.537
			UMTS 175	0	0.565	0.231	0.082	0.878
			UMTS 190	0	0.540	0.231	0.082	0.853
			LTE Band '	12	0.212	0.231	0.082	0.525
	Body - Wo	rn SAR	LTE Band '	13	0.200	0.231	0.082	0.513
			LTE Band 26 ((Cell)	0.219	0.231	0.082	0.532
			LTE Band 66 (AWS)		0.666	0.231	0.082	0.979
			LTE Band 25 (PCS)	0.576	0.231	0.082	0.889
			LTE Band 41		0.190	0.231	0.082	0.503
			NR Band n5 (0.279	0.231	0.082	0.592
			NR Band n66 (AWS)		0.733	0.231	0.082	1.046
С	Configuration	LTE	Anchor Band	4G SAR (W/kg)	NR Band r (Cell) SAF (W/kg)	Ι ΜΛΙ ΔΙΝΙ	5 GHz WLAN R MIMO SAR (W/kg)	Σ SAR (W/kg)
				1	2	3	4	1+2+3+4
Е	Body - Worn	LTE E	Band 66 (AWS)	0.666	0.279	0.231	0.082	1.258
	SAR	LTE I	Band 25 (PCS)	0.576	0.279	0.231	0.082	1.168
С	Configuration	LTE	Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS SAR (W/kg	WLAN MIMO SA	5 GHz WLAN R MIMO SAR (W/kg)	Σ SAR (W/kg)
				1	2	3	4	1+2+3+4
E	Body - Worn		Band 26 (Cell)	0.219	0.733	0.231	0.082	1.265
L	SAR	Ľ	TE Band 12	0.212	0.733	0.231	0.082	1.258

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Open Hotspot SAR Simultaneous Transmission Analysis

Table 12-27 Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant	Σ SAR (W/kg)
		1	2	1+2 0.481 0.712 0.516 0.639 0.570
	GPRS 850	0.321	0.160	0.481
	GPRS 1900	0.552	0.160	0.712
	UMTS 850	0.356	0.160	0.516
	UMTS 1750	0.479	0.160	0.639
	UMTS 1900	0.410	0.160	0.570
	LTE Band 12	0.254	0.160	0.414
Hotspot SAR	LTE Band 13	0.263	0.160	0.423
	LTE Band 26 (Cell)	0.347	0.160	0.507
	LTE Band 66 (AWS)	0.433	0.160	0.593
	LTE Band 25 (PCS)	0.462	0.160	0.622
	LTE Band 41	0.353	0.160	0.513
	NR Band n5 (Cell)	0.320	0.160	0.480
	NR Band n66 (AWS)	0.439	0.160	0.599

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.160	0.913
Hotspot SAR	LTE Band 25 (PCS)	0.462	0.320	0.160	0.942
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.160	0.946
1 lotopot SAN	LTE Band 12	0.254	0.439	0.160	0.853

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Table 12-28 Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.321	0.239	0.560
	GPRS 1900	0.552	0.239	0.791
	UMTS 850	0.356	0.239	0.595
	UMTS 1750	0.479	0.239	0.718
	UMTS 1900	0.410	0.239	0.649
	LTE Band 12	0.254	0.239	0.493
Hotspot SAR	LTE Band 13	0.263	0.239	0.502
	LTE Band 26 (Cell)	0.347	0.239	0.586
	LTE Band 66 (AWS)	0.433	0.239	0.672
	LTE Band 25 (PCS)	0.462	0.239	0.701
	LTE Band 41	0.353	0.239	0.592
	NR Band n5 (Cell)	0.320	0.239	0.559
	NR Band n66 (AWS)	0.439	0.239	0.678

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.239	0.992
1 lotspot SAR	LTE Band 25 (PCS)	0.462	0.320	0.239	1.021
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.239	1.025
1 lotopot SAN	LTE Band 12	0.254	0.439	0.239	0.932

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Table 12-29 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Hotspot at 1.0 cm)

Simultaneous Transmission Scenario with 2.4 GHz Millio WEAN (Hotspot at 1.0 Cm)				
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.321	0.545	0.866
	GPRS 1900	0.552	0.545	1.097
	UMTS 850	0.356	0.545	0.901
	UMTS 1750	0.479	0.545	1.024
	UMTS 1900	0.410	0.545	0.955
	LTE Band 12	0.254	0.545	0.799
Hotspot SAR	LTE Band 13	0.263	0.545	0.808
	LTE Band 26 (Cell)	0.347	0.545	0.892
	LTE Band 66 (AWS)	0.433	0.545	0.978
	LTE Band 25 (PCS)	0.462	0.545	1.007
	LTE Band 41	0.353	0.545	0.898
	NR Band n5 (Cell)	0.320	0.545	0.865
	NR Band n66 (AWS)	0.439	0.545	0.984

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.545	1.298
1 lotspot SAIX	LTE Band 25 (PCS)	0.462	0.320	0.545	1.327
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.545	1.331
ι ισισροί σλιτ	LTE Band 12	0.254	0.439	0.545	1.238

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Table 12-30 Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.321	0.107	0.428
	GPRS 1900	0.552	0.107	0.659
	UMTS 850	0.356	0.107	0.463
	UMTS 1750	0.479	0.107	0.586
	UMTS 1900	0.410	0.107	0.517
	LTE Band 12	0.254	0.107	0.361
Hotspot SAR	LTE Band 13	0.263	0.107	0.370
	LTE Band 26 (Cell)	0.347	0.107	0.454
	LTE Band 66 (AWS)	0.433	0.107	0.540
	LTE Band 25 (PCS)	0.462	0.107	0.569
	LTE Band 41	0.353	0.107	0.460
	NR Band n5 (Cell)	0.320	0.107	0.427
	NR Band n66 (AWS)	0.439	0.107	0.546

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.107	0.860
Hotspot SAR	LTE Band 25 (PCS)	0.462	0.320	0.107	0.889
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.107	0.893
Τισιοροί ΟΑΝ	LTE Band 12	0.254	0.439	0.107	0.800

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Table 12-31 Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Hotspot at 1.0 cm)

Cinditancous Transmission occurro with Biactooth Antenna 2 (Hotspot at 1.0 cm)				
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.321	0.166	0.487
	GPRS 1900	0.552	0.166	0.718
	UMTS 850	0.356	0.166	0.522
	UMTS 1750	0.479	0.166	0.645
	UMTS 1900	0.410	0.166	0.576
	LTE Band 12	0.254	0.166	0.420
Hotspot SAR	LTE Band 13	0.263	0.166	0.429
	LTE Band 26 (Cell)	0.347	0.166	0.513
	LTE Band 66 (AWS)	0.433	0.166	0.599
	LTE Band 25 (PCS)	0.462	0.166	0.628
	LTE Band 41	0.353	0.166	0.519
	NR Band n5 (Cell)	0.320	0.166	0.486
	NR Band n66 (AWS)	0.439	0.166	0.605

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.166	0.919
Hotspot SAR	LTE Band 25 (PCS)	0.462	0.320	0.166	0.948
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.166	0.952
1 lotopot SAN	LTE Band 12	0.254	0.439	0.166	0.859

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Table 12-32 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GPRS 850	0.321	0.107	0.160	0.588
	GPRS 1900	0.552	0.107	0.160	0.819
	UMTS 850	0.356	0.107	0.160	0.623
	UMTS 1750	0.479	0.107	0.160	0.746
	UMTS 1900	0.410	0.107	0.160	0.677
	LTE Band 12	0.254	0.107	0.160	0.521
Hotspot SAR	LTE Band 13	0.263	0.107	0.160	0.530
	LTE Band 26 (Cell)	0.347	0.107	0.160	0.614
	LTE Band 66 (AWS)	0.433	0.107	0.160	0.700
	LTE Band 25 (PCS)	0.462	0.107	0.160	0.729
	LTE Band 41	0.353	0.107	0.160	0.620
	NR Band n5 (Cell)	0.320	0.107	0.160	0.587
	NR Band n66 (AWS)	0.439	0.107	0.160	0.706

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.107	0.160	1.020
Tiotspot SAR	LTE Band 25 (PCS)	0.462	0.320	0.107	0.160	1.049
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.107	0.160	1.053
ι ισιοροί σΑΝ	LTE Band 12	0.254	0.439	0.107	0.160	0.960

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Table 12-33 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GPRS 850	0.321	0.166	0.160	0.647
	GPRS 1900	0.552	0.166	0.160	0.878
	UMTS 850	0.356	0.166	0.160	0.682
	UMTS 1750	0.479	0.166	0.160	0.805
	UMTS 1900	0.410	0.166	0.160	0.736
	LTE Band 12	0.254	0.166	0.160	0.580
Hotspot SAR	LTE Band 13	0.263	0.166	0.160	0.589
	LTE Band 26 (Cell)	0.347	0.166	0.160	0.673
	LTE Band 66 (AWS)	0.433	0.166	0.160	0.759
	LTE Band 25 (PCS)	0.462	0.166	0.160	0.788
	LTE Band 41	0.353	0.166	0.160	0.679
	NR Band n5 (Cell)	0.320	0.166	0.160	0.646
	NR Band n66 (AWS)	0.439	0.166	0.160	0.765

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.166	0.160	1.079
Hotspot SAR	LTE Band 25 (PCS)	0.462	0.320	0.166	0.160	1.108
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.166	0.160	1.112
1 lotspot SAR	LTE Band 12	0.254	0.439	0.166	0.160	1.019

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Table 12-34 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GPRS 850	0.321	0.107	0.239	0.667
	GPRS 1900	0.552	0.107	0.239	0.898
	UMTS 850	0.356	0.107	0.239	0.702
	UMTS 1750	0.479	0.107	0.239	0.825
	UMTS 1900	0.410	0.107	0.239	0.756
	LTE Band 12	0.254	0.107	0.239	0.600
Hotspot SAR	LTE Band 13	0.263	0.107	0.239	0.609
	LTE Band 26 (Cell)	0.347	0.107	0.239	0.693
	LTE Band 66 (AWS)	0.433	0.107	0.239	0.779
	LTE Band 25 (PCS)	0.462	0.107	0.239	0.808
	LTE Band 41	0.353	0.107	0.239	0.699
	NR Band n5 (Cell)	0.320	0.107	0.239	0.666
	NR Band n66 (AWS)	0.439	0.107	0.239	0.785

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.107	0.239	1.099
Tiotspot SAR	LTE Band 25 (PCS)	0.462	0.320	0.107	0.239	1.128
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.107	0.239	1.132
1 lotapot SAR	LTE Band 12	0.254	0.439	0.107	0.239	1.039

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Table 12-35 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GPRS 850	0.321	0.166	0.239	0.726
	GPRS 1900	0.552	0.166	0.239	0.957
	UMTS 850	0.356	0.166	0.239	0.761
	UMTS 1750	0.479	0.166	0.239	0.884
	UMTS 1900	0.410	0.166	0.239	0.815
	LTE Band 12	0.254	0.166	0.239	0.659
Hotspot SAR	LTE Band 13	0.263	0.166	0.239	0.668
	LTE Band 26 (Cell)	0.347	0.166	0.239	0.752
	LTE Band 66 (AWS)	0.433	0.166	0.239	0.838
	LTE Band 25 (PCS)	0.462	0.166	0.239	0.867
	LTE Band 41	0.353	0.166	0.239	0.758
	NR Band n5 (Cell)	0.320	0.166	0.239	0.725
	NR Band n66 (AWS)	0.439	0.166	0.239	0.844

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.166	0.239	1.158
	LTE Band 25 (PCS)	0.462	0.320	0.166	0.239	1.187
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.166	0.239	1.191
	LTE Band 12	0.254	0.439	0.166	0.239	1.098

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Table 12-36 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GPRS 850	0.321	0.107	0.174	0.602
	GPRS 1900	0.552	0.107	0.174	0.833
	UMTS 850	0.356	0.107	0.174	0.637
	UMTS 1750	0.479	0.107	0.174	0.760
	UMTS 1900	0.410	0.107	0.174	0.691
	LTE Band 12	0.254	0.107	0.174	0.535
Hotspot SAR	LTE Band 13	0.263	0.107	0.174	0.544
	LTE Band 26 (Cell)	0.347	0.107	0.174	0.628
	LTE Band 66 (AWS)	0.433	0.107	0.174	0.714
	LTE Band 25 (PCS)	0.462	0.107	0.174	0.743
	LTE Band 41	0.353	0.107	0.174	0.634
	NR Band n5 (Cell)	0.320	0.107	0.174	0.601
	NR Band n66 (AWS)	0.439	0.107	0.174	0.720

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.107	0.174	1.034
Tiotspot SAR	LTE Band 25 (PCS)	0.462	0.320	0.107	0.174	1.063
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.107	0.174	1.067
ι ισιοροί σΑΝ	LTE Band 12	0.254	0.439	0.107	0.174	0.974

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Table 12-37 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

	<u> </u>	Z Antonne		/.			<u>,</u>			
Configuration	Mode	2G/3G/40 SAR (W/k	(a)	2.4 GH Bluetooth 1 SAR (W	Ant	WLAN	GHz N Ant 2 (W/kg)	Ar	Hz WLAN nt 1 SAR (W/kg)	Σ SAR (W/kg)
		1		2		3			4	1+2+3+4
	GPRS 850	0.321		0.107	7	0.	174		0.160	0.762
	GPRS 1900	0.552		0.107	7	0.	174		0.160	0.993
	UMTS 850	0.356		0.107	7	0.	174		0.160	0.797
	UMTS 1750	0.479		0.107	7	0.	174		0.160	0.920
	UMTS 1900	0.410		0.107	7	0.	174		0.160	0.851
	LTE Band 12	0.254		0.107	7	0.	174		0.160	0.695
Hotspot SAR	LTE Band 13	0.263		0.107	7	0.	174		0.160	0.704
	LTE Band 26 (Cell)	0.347		0.107	7	0.	174		0.160	0.788
	LTE Band 66 (AWS)	0.433		0.107	7	0.	174		0.160	0.874
	LTE Band 25 (PCS)	0.462		0.107		0.	.174		0.160	0.903
	LTE Band 41	0.353		0.107		0.	0.174		0.160	0.794
	NR Band n5 (Cell)	0.320		0.107		0.	0.174		0.160	0.761
	NR Band n66 (AWS)	0.439		0.107	7	0.	174		0.160	0.880
Configuration	LTE Anchor Band	4G SAR (W/kg)	(Ce	Band n5 ell) SAR W/kg)	Blue Ant	GHz etooth 1 SAR //kg)	2.4 Gł WLAN 2 SA (W/kţ	Ant R	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1		2		3	4		5	1+2+3+4+5
Hotspot SAR	LTE Band 66 (AWS)	0.433		0.320		107	0.174		0.160	1.194
1 lotopot o/ tit	LTE Band 25 (PCS)	0.462	(0.320		107	0.174		0.160	1.223
Configuration	LTE Anchor Band	4G SAR (W/kg)	n66	R Band 6 (AWS) R (W/kg)	Blue Ant	GHz etooth 1 SAR //kg)	2.4 Gł WLAN 2 SA (W/kg	Ant R	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1		2		3	4		5	1+2+3+4+5
Hotspot SAR	LTE Band 26 (Cell)	0.347		0.439		107	0.174		0.160	1.227
5.0pot 6, at	LTE Band 12	0.254	(0.439	0.	107	0.174	4	0.160	1.134

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Table 12-38 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz MIMO WLAN (Hotspot at 1.0 cm)

MIMO WLAN (Hotspot at 1.0 cm)									
Configuration	Configuration Mode		2.4 GH Bluetooth 1 SAR (V	n Ant	WLAN	GHz N Ant 2 (W/kg)	MIM	z WLAN IO SAR V/kg)	Σ SAR (W/kg)
		1	2			3		4	1+2+3+4
	GPRS 850	0.321	0.107	7	0.	174	0.	.239	0.841
	GPRS 1900	0.552	0.107	7	0.	174	0.	.239	1.072
	UMTS 850	0.356	0.10	7	0.	174	0.	.239	0.876
	UMTS 1750	0.479	0.10	7	0.	174	0.	.239	0.999
	UMTS 1900	0.410	0.10	7	0.	174	0.	.239	0.930
	LTE Band 12	0.254	0.10	7	0.	174	0.	.239	0.774
Hotspot SAR	LTE Band 13	0.263	0.107	7	0.	174	0.	.239	0.783
	LTE Band 26 (Cell)	0.347	0.10	7	0.	174	0.239		0.867
	LTE Band 66 (AWS)	0.433	0.10	0.		174	0.	.239	0.953
	LTE Band 25 (PCS)	0.462	0.10	0.1		174		.239	0.982
	LTE Band 41	0.353	0.10	0.107		0.174		.239	0.873
	NR Band n5 (Cell)	0.320	0.10	7	0.	174	0.239		0.840
	NR Band n66 (AWS)	0.439	0.10	7	0.	174	0.	.239	0.959
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	Blue Ant	GHz etooth 1 SAR //kg)	2.4 GH WLAN / 2 SAF (W/kg	Ant R N	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2		3	4		5	1+2+3+4+5
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.	107	0.174	1	0.239	1.273
1 lotspot OAIX	LTE Band 25 (PCS)	0.462	0.320	0.	107	0.174	1	0.239	1.302
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	Blue Ant	GHz etooth 1 SAR //kg)	2.4 GH WLAN A 2 SAF (W/kg	Ant R	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2		3	4		5	1+2+3+4+5
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.	107	0.174	1	0.239	1.306
1 lotspot SAR	LTE Band 12	0.254	0.439	0.	107	0.174	1	0.239	1.213

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Table 12-39 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GPRS 850	0.321	0.545	0.239	1.105
	GPRS 1900	0.552	0.545	0.239	1.336
	UMTS 850	0.356	0.545	0.239	1.140
	UMTS 1750	0.479	0.545	0.239	1.263
	UMTS 1900	0.410	0.545	0.239	1.194
	LTE Band 12	0.254	0.545	0.239	1.038
Hotspot SAR	LTE Band 13	0.263	0.545	0.239	1.047
	LTE Band 26 (Cell)	0.347	0.545	0.239	1.131
	LTE Band 66 (AWS)	0.433	0.545	0.239	1.217
	LTE Band 25 (PCS)	0.462	0.545	0.239	1.246
	LTE Band 41	0.353	0.545	0.239	1.137
	NR Band n5 (Cell)	0.320	0.545	0.239	1.104
	NR Band n66 (AWS)	0.439	0.545	0.239	1.223

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.433	0.320	0.545	0.239	1.537
Tiotspot SAR	LTE Band 25 (PCS)	0.462	0.320	0.545	0.239	1.566
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 26 (Cell)	0.347	0.439	0.545	0.239	1.570
1 lotspot SAN	LTE Band 12	0.254	0.439	0.545	0.239	1.477

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12.6 Phablet Simultaneous Transmission Analysis

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR ("-").

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore, no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

Table 12-40
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 1900	1.962	0.571	2.533
	UMTS 1750	2.486	0.571	3.057
	UMTS 1900	2.824	0.571	3.395
Phablet SAR	LTE Band 66 (AWS)	2.432	0.571	3.003
	LTE Band 25 (PCS)	2.233	0.571	2.804
	LTE Band 41	1.227	0.571	1.798
	NR Band n66 (AWS)	2.591	0.571	3.162

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Table 12-41 Simultaneous Transmission Scenario with 5 GHz MIMO WI AN

_	Simultaneous Transmission Scenario with 5 GHz MIMO WLAN							_	
Configuration		Mode		2G/3G/4G SAR (W/kg)	5 GHz WLA MIMO SAF (W/kg)		R (W/kg)		
					1	2		1+2	
		G	PRS 1900		1.962	1.420	3	3.382	
Phablet SAR		l	UMTS 1750		2.486	1.420	3	3.906	
		UMTS 1900		2.824	1.420	See Ta	able Below		
		LTE Band 66 (AWS)		2.432	1.420	3	3.852		
		LTE E	LTE Band 25 (PCS)		2.233	1.420	3	3.653	
		LTE Band 41 NR Band n66 (AWS)		ΓE Band 41		1.420	2	2.647	
				2.591	1.420	See Ta	See Table Below		
Simult Tx	c Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
	Back	2.824	0.900	3.724		Back	2.591	0.900	3.491
	Front	2.150	1.420*	3.570		Front	1.468	1.420*	2.888
Phablet	· ·	-	0.455	0.455	Phablet	Тор	-	0.455	0.455
SAR	Bottom	1.844	-	1.844	SAR	Bottom	1.277	-	1.277
	Right	0.240	1.420*	1.660	_	Right	0.318	1.420*	1.738
	1 1 6	0.000	4 400	4 - 40	11				

Left

0.558

1.420

1.978

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Left

0.296

1.420

1.716

12.7 Closed Body-Worn Simultaneous Transmission Analysis

Table 12-42 Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg) 5 GHz WLAN Ant 1 SAR (W/kg) Σ SAR		Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.278	0.000	0.278
	GSM 1900	0.119	0.000	0.119
	UMTS 850	0.404	0.000	0.404
	UMTS 1750	0.242	0.000	0.242
	UMTS 1900	0.235	0.000	0.235
Body - Worn	LTE Band 12	0.260	0.000	0.260
SAR	LTE Band 13	0.193	0.000	0.193
SAR	LTE Band 26 (Cell)	0.336	0.000	0.336
	LTE Band 66 (AWS)	0.353	0.000	0.353
	LTE Band 25 (PCS)	0.238	0.000	0.238
	LTE Band 41	0.123	0.000	0.123
	NR Band n5 (Cell)	0.384	0.000	0.384
	NR Band n66 (AWS)	0.157	0.000	0.157

,					
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.000	0.737
SAR	LTE Band 25 (PCS)	0.238	0.384	0.000	0.622
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.000	0.493
SAR	LTE Band 12	0.260	0.157	0.000	0.417

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Table 12-43 Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	guration Mode		5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.278	0.008	0.286
	GSM 1900	0.119	0.008	0.127
	UMTS 850	0.404	0.008	0.412
	UMTS 1750	0.242	0.008	0.250
	UMTS 1900	0.235	0.008	0.243
Body - Worn	LTE Band 12	0.260	0.008	0.268
SAR	LTE Band 13	0.193	0.008	0.201
SAN	LTE Band 26 (Cell)	0.336	0.008	0.344
	LTE Band 66 (AWS)	0.353	0.008	0.361
	LTE Band 25 (PCS)	0.238	0.008	0.246
	LTE Band 41	0.123	0.008	0.131
	NR Band n5 (Cell)	0.384	0.008	0.392
	NR Band n66 (AWS)	0.157	0.008	0.165

	1				
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.008	0.745
SAR	LTE Band 25 (PCS)	0.238	0.384	0.008	0.630
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.008	0.501
SAR	LTE Band 12	0.260	0.157	0.008	0.425

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Table 12-44 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Body-Worn at 1.5 cm)

			,	
Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.278	0.103	0.381
	GSM 1900	0.119	0.103	0.222
	UMTS 850	0.404	0.103	0.507
	UMTS 1750	0.242	0.103	0.345
	UMTS 1900	0.235	0.103	0.338
Body - Worn	LTE Band 12	0.260	0.103	0.363
SAR	LTE Band 13	0.193	0.103	0.296
SAN	LTE Band 26 (Cell)	0.336	0.103	0.439
	LTE Band 66 (AWS)	0.353	0.103	0.456
	LTE Band 25 (PCS)	0.238	0.103	0.341
	LTE Band 41	0.123	0.103	0.226
	NR Band n5 (Cell)	0.384	0.103	0.487
	NR Band n66 (AWS)	0.157	0.103	0.260

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.103	0.840
SAR	LTE Band 25 (PCS)	0.238	0.384	0.103	0.725
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.103	0.596
SAR	LTE Band 12	0.260	0.157	0.103	0.520

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Table 12-45 Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.278	0.014	0.292
	GSM 1900	0.119	0.014	0.133
	UMTS 850	0.404	0.014	0.418
	UMTS 1750	0.242	0.014	0.256
	UMTS 1900	0.235	0.014	0.249
Body - Worn	LTE Band 12	0.260	0.014	0.274
SAR	LTE Band 13	0.193	0.014	0.207
SAK	LTE Band 26 (Cell)	0.336	0.014	0.350
	LTE Band 66 (AWS)	0.353	0.014	0.367
	LTE Band 25 (PCS)	0.238	0.014	0.252
	LTE Band 41	0.123	0.014	0.137
	NR Band n5 (Cell)	0.384	0.014	0.398
	NR Band n66 (AWS)	0.157	0.014	0.171

	11112011011100 (71111	,			
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.014	0.751
SAR	LTE Band 25 (PCS)	0.238	0.384	0.014	0.636
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.014	0.507
SAR	LTE Band 12	0.260	0.157	0.014	0.431

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Table 12-46 Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Body-Worn at 1.5 cm)

Configuration	Mode Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.278	0.004	0.282
	GSM 1900	0.119	0.004	0.123
	UMTS 850	0.404	0.004	0.408
	UMTS 1750	0.242	0.004	0.246
	UMTS 1900	0.235	0.004	0.239
Body - Worn	LTE Band 12	0.260	0.004	0.264
SAR	LTE Band 13	0.193	0.004	0.197
SAN	LTE Band 26 (Cell)	0.336	0.004	0.340
	LTE Band 66 (AWS)	0.353	0.004	0.357
	LTE Band 25 (PCS)	0.238	0.004	0.242
	LTE Band 41	0.123	0.004	0.127
	NR Band n5 (Cell)	0.384	0.004	0.388
	NR Band n66 (AWS)	0.157	0.004	0.161

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Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2+3	
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.004	0.741	
SAR	LTE Band 25 (PCS)	0.238	0.384	0.004	0.626	
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2+3	
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.004	0.497	
SAR	LTE Band 12	0.260	0.157	0.004	0.421	

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Table 12-47 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.278	0.014	0.000	0.292
	GSM 1900	0.119	0.014	0.000	0.133
	UMTS 850	0.404	0.014	0.000	0.418
	UMTS 1750	0.242	0.014	0.000	0.256
	UMTS 1900	0.235	0.014	0.000	0.249
Body - Worn	LTE Band 12	0.260	0.014	0.000	0.274
SAR	LTE Band 13	0.193	0.014	0.000	0.207
SAR	LTE Band 26 (Cell)	0.336	0.014	0.000	0.350
	LTE Band 66 (AWS)	0.353	0.014	0.000	0.367
	LTE Band 25 (PCS)	0.238	0.014	0.000	0.252
	LTE Band 41	0.123	0.014	0.000	0.137
	NR Band n5 (Cell)	0.384	0.014	0.000	0.398
	NR Band n66 (AWS)	0.157	0.014	0.000	0.171

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.014	0.000	0.751
SAR	LTE Band 25 (PCS)	0.238	0.384	0.014	0.000	0.636
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.014	0.000	0.507
SAR	LTE Band 12	0.260	0.157	0.014	0.000	0.431

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Table 12-48 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.278	0.004	0.000	0.282
	GSM 1900	0.119	0.004	0.000	0.123
	UMTS 850	0.404	0.004	0.000	0.408
	UMTS 1750	0.242	0.004	0.000	0.246
	UMTS 1900	0.235	0.004	0.000	0.239
Pody Morn	LTE Band 12	0.260	0.004	0.000	0.264
Body - Worn	LTE Band 13	0.193	0.004	0.000	0.197
SAR	LTE Band 26 (Cell)	0.336	0.004	0.000	0.340
	LTE Band 66 (AWS)	0.353	0.004	0.000	0.357
	LTE Band 25 (PCS)	0.238	0.004	0.000	0.242
	LTE Band 41	0.123	0.004	0.000	0.127
	NR Band n5 (Cell)	0.384	0.004	0.000	0.388
	NR Band n66 (AWS)	0.157	0.004	0.000	0.161
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Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.004	0.000	0.741
SAR	LTE Band 25 (PCS)	0.238	0.384	0.004	0.000	0.626
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.004	0.000	0.497
SAR	LTE Band 12	0.260	0.157	0.004	0.000	0.421

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Table 12-49 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.278	0.014	0.008	0.300
	GSM 1900	0.119	0.014	0.008	0.141
	UMTS 850	0.404	0.014	0.008	0.426
	UMTS 1750	0.242	0.014	0.008	0.264
	UMTS 1900	0.235	0.014	0.008	0.257
Body - Worn	LTE Band 12	0.260	0.014	0.008	0.282
SAR	LTE Band 13	0.193	0.014	0.008	0.215
SAN	LTE Band 26 (Cell)	0.336	0.014	0.008	0.358
	LTE Band 66 (AWS)	0.353	0.014	0.008	0.375
	LTE Band 25 (PCS)	0.238	0.014	0.008	0.260
	LTE Band 41	0.123	0.014	0.008	0.145
	NR Band n5 (Cell)	0.384	0.014	0.008	0.406
	NR Band n66 (AWS)	0.157	0.014	0.008	0.179

Configuration	Configuration LTE Anchor Band		NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.014	0.008	0.759
SAR	LTE Band 25 (PCS)	0.238	0.384	0.014	0.008	0.644
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.014	0.008	0.515
SAR	LTE Band 12	0.260	0.157	0.014	0.008	0.439

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Table 12-50 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.278	0.004	0.008	0.290
	GSM 1900	0.119	0.004	0.008	0.131
	UMTS 850	0.404	0.004	0.008	0.416
	UMTS 1750	0.242	0.004	0.008	0.254
	UMTS 1900	0.235	0.004	0.008	0.247
Body - Worn	LTE Band 12	0.260	0.004	0.008	0.272
SAR	LTE Band 13	0.193	0.004	0.008	0.205
SAR	LTE Band 26 (Cell)	0.336	0.004	0.008	0.348
	LTE Band 66 (AWS)	0.353	0.004	0.008	0.365
	LTE Band 25 (PCS)	0.238	0.004	0.008	0.250
	LTE Band 41	0.123	0.004	0.008	0.135
	NR Band n5 (Cell)	0.384	0.004	0.008	0.396
	NR Band n66 (AWS)	0.157	0.004	0.008	0.169
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Configuration	Configuration LTE Anchor Band		NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.004	0.008	0.749
SAR	LTE Band 25 (PCS)	0.238	0.384	0.004	0.008	0.634
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.004	0.008	0.505
SAR	LTE Band 12	0.260	0.157	0.004	0.008	0.429

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Table 12-51 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2 (Body-Worn at 1.5 cm)

Configuration	onfiguration Mode		2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.278	0.014	0.016	0.308
	GSM 1900	0.119	0.014	0.016	0.149
	UMTS 850 UMTS 1750	0.404	0.014	0.016	0.434
		0.242	0.014	0.016	0.272
	UMTS 1900	0.235	0.014	0.016	0.265
Body - Worn	LTE Band 12	0.260	0.014	0.016	0.290
SAR	LTE Band 13	0.193	0.014	0.016	0.223
SAN	LTE Band 26 (Cell)	0.336	0.014	0.016	0.366
	LTE Band 66 (AWS)	0.353	0.014	0.016	0.383
	LTE Band 25 (PCS)	0.238	0.014	0.016	0.268
	LTE Band 41	0.123	0.014	0.016	0.153
	NR Band n5 (Cell)	0.384	0.014	0.016	0.414
	NR Band n66 (AWS)	0.157	0.014	0.016	0.187

Configuration	Configuration LTE Anchor Band		NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.014	0.016	0.767
SAR	LTE Band 25 (PCS)	0.238	0.384	0.014	0.016	0.652
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.014	0.016	0.523
SAR	LTE Band 12	0.260	0.157	0.014	0.016	0.447

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Table 12-52 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

Configuration	Mode		/50	(3G/4G G SAR V/kg)	Bl An	4 GHz uetooth t 1 SAR W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
				1		2	3	4	1+2+3+4
	GSM 850		0	.278	0.014		0.016	0.000	0.308
	GSM 1900		0	0.119		0.014	0.016	0.000	0.149
	UMTS 850		0	.404	(0.014	0.016	0.000	0.434
	UMTS 1750		0	.242	(0.014	0.016	0.000	0.272
	UMTS 1900		0	.235	(0.014	0.016	0.000	0.265
Dody Warn	LTE Band 12		0	.260	(0.014	0.016	0.000	0.290
Body - Worn SAR	LTE Band 13		0	.193		0.014	0.016	0.000	0.223
SAK	LTE Band 26 (Cell)		0	.336		0.014	0.016	0.000	0.366
	LTE Band 66 (AWS)	١	0.353			0.014	0.016	0.000	0.383
	LTE Band 25 (PCS)		0.238			0.014	0.016	0.000	0.268
	LTE Band 41			.123		0.014	0.016	0.000	0.153
	NR Band n5 (Cell)		0.384		(0.014	0.016	0.000	0.414
	NR Band n66 (AWS))	0.157			0.014	0.016	0.000	0.187
Configuration	LTE Anchor Band	4G S. (W/k	AR	NR Band (Cell) S. (W/kg	AR	2.4 GHz Bluetoot Ant 1 SA (W/kg)	th WLAN A	nt WLAN Ar 1 SAR	t Σ SAR (W/kg)
		1		2		3	4	5	1+2+3+4+5
Body - Worn	LTE Band 66 (AWS)	0.35	3	0.384	1	0.014	0.016	0.000	0.767
SAR	LTE Band 25 (PCS)	0.23	8	0.384	1	0.014	0.016	0.000	0.652
Configuration	LTE Anchor Band	4G S/ (W/k		NR Bar n66 (AW SAR (W	VS)	2.4 GH: Bluetoot Ant 1 SA (W/kg)	th WLAN A	nt WLAN Ar 1 SAR	Σ SAR (W/kg)
		1		2		3	4	5	1+2+3+4+5
Body - Worn	LTE Band 26 (Cell)	0.33	86	0.157	7	0.014	0.016	0.000	0.523
SAR	LTE Band 12	0.26	0	0.157	7	0.014	0.016	0.000	0.447

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Table 12-53 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode		2G/30 /5G (W/		2. Bli An	4 GHz uetooth t 1 SAR W/kg)	2.4 WL 2	4 GHz AN Ant SAR V/kg)	5 GH WLA MIMO S (W/ko	N SAR	Σ SAR (W/kg)
	GSM 850		0.278			0.014	0	0.016	0.008	0	0.316
-	GSM 1900					0.014).016	0.008		0.316
	UMTS 850		0.119 0.404			0.014).016	0.008		0.157
-					_						
	UMTS 1750).242		0.014		0.016	0.00		0.280
	UMTS 1900			0.235	_	0.014		0.016	0.00		0.273
Body - Worn	LTE Band 12			0.260	_	0.014		0.016	0.008		0.298
SAR	LTE Band 13).193		0.014		0.016	0.008		0.231
	LTE Band 26 (Cell)	,		0.336	0.014).016	0.008		0.374
	LTE Band 66 (AWS)).353).016	0.008		0.391
	, ,	LTE Band 25 (PCS)).238		0.014).016	0.008		0.276
	LTE Band 41).123		0.014).016	0.008		0.161
	NR Band n5 (Cell)).384		0.014).016	0.008		0.422
	NR Band n66 (AWS))	0.157		(0.014	C	0.016	0.008	8	0.195
Configuration	LTE Anchor Band	4G S/ (W/k		NR Band (Cell) S (W/kg	AR	2.4 GH Bluetoo Ant 1 SA (W/kg)	th AR	2.4 GHz WLAN Ar 2 SAR (W/kg)	nt WI MIMO	GHz LAN O SAR (/kg)	Σ SAR (W/kg)
		1		2		3		4		5	1+2+3+4+5
Body - Worn	LTE Band 66 (AWS)	0.35	3	0.384	1	0.014		0.016	0.0	800	0.775
SAR	LTE Band 25 (PCS)	0.23	8	0.384	1	0.014		0.016	0.0	800	0.660
Configuration	LTE Anchor Band	4G SA (W/k		NR Bai n66 (AV SAR (W	VS)	2.4 GH Bluetoo Ant 1 SA (W/kg)	th AR	2.4 GHz WLAN Ar 2 SAR (W/kg)	nt WI	GHz LAN O SAR /kg)	Σ SAR (W/kg)
		1		2		3		4		5	1+2+3+4+5
Body - Worn	LTE Band 26 (Cell)	0.33	6	0.157	7	0.014		0.016	0.0	800	0.531
SAR	LTE Band 12	0.26	0	0.157	7	0.014		0.016	0.0	800	0.455

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Table 12-54 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.278	0.103	0.008	0.389
	GSM 1900	0.119	0.103	0.008	0.230
	UMTS 850	0.404	0.103	0.008	0.515
	UMTS 1750	0.242	0.103	0.008	0.353
	UMTS 1900	0.235	0.103	0.008	0.346
Dody Warn	LTE Band 12	0.260	0.103	0.008	0.371
Body - Worn	LTE Band 13	0.193	0.103	0.008	0.304
SAR	LTE Band 26 (Cell)	0.336	0.103	0.008	0.447
	LTE Band 66 (AWS)	0.353	0.103	0.008	0.464
	LTE Band 25 (PCS)	0.238	0.103	0.008	0.349
	LTE Band 41	0.123	0.103	0.008	0.234
	NR Band n5 (Cell)	0.384	0.103	0.008	0.495
	NR Band n66 (AWS)	0.157	0.103	0.008	0.268
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Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 66 (AWS)	0.353	0.384	0.103	0.008	0.848
SAR	LTE Band 25 (PCS)	0.238	0.384	0.103	0.008	0.733
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn	LTE Band 26 (Cell)	0.336	0.157	0.103	0.008	0.604
SAR	LTE Band 12	0.260	0.157	0.103	0.008	0.528

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Closed Hotspot SAR Simultaneous Transmission Analysis

Table 12-55 Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Hotspot at 0.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.566	0.330	0.896
	GPRS 1900	0.762	0.330	1.092
	UMTS 850	0.808	0.330	1.138
	UMTS 1750	0.677	0.330	1.007
	UMTS 1900	0.510	0.330	0.840
	LTE Band 12	0.801	0.330	1.131
Hotspot SAR	LTE Band 13	0.490	0.330	0.820
	LTE Band 26 (Cell)	0.723	0.330	1.053
	LTE Band 66 (AWS)	0.659	0.330	0.989
	LTE Band 25 (PCS)	0.658	0.330	0.988
	LTE Band 41	0.616	0.330	0.946
	NR Band n5 (Cell)	0.677	0.330	1.007
	NR Band n66 (AWS)	0.597	0.330	0.927

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 66 (AWS)	0.659	0.677	0.040	1.376
1 lotspot SAR	LTE Band 25 (PCS)	0.658	0.677	0.040	1.375
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 26 (Cell)	0.723	0.597	0.040	1.360
1 lotspot SAR	LTE Band 12	0.801	0.597	0.040	1.438

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Table 12-56 Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Hotspot at 0.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.566	0.670	1.236
	GPRS 1900	0.762	0.670	1.432
	UMTS 850	0.808	0.670	1.478
	UMTS 1750	0.677	0.670	1.347
	UMTS 1900	0.510	0.670	1.180
	LTE Band 12	0.801	0.670	1.471
Hotspot SAR	LTE Band 13	0.490	0.670	1.160
	LTE Band 26 (Cell)	0.723	0.670	1.393
	LTE Band 66 (AWS)	0.659	0.670	1.329
	LTE Band 25 (PCS)	0.658	0.670	1.328
	LTE Band 41	0.616	0.670	1.286
	NR Band n5 (Cell)	0.677	0.670	1.347
	NR Band n66 (AWS)	0.597	0.670	1.267

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 66 (AWS)	0.659	0.677	0.031	1.367
Tiotspot SAIN	LTE Band 25 (PCS)	0.658	0.677	0.031	1.366
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 26 (Cell)	0.723	0.597	0.031	1.351
1 lotspot SAR	LTE Band 12	0.801	0.597	0.031	1.429

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Table 12-57 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Hotspot at 0.5 cm)

ilicous	Hansin	1331011	ocena	IIO WILI	1 2.7 0	1 12 1411141	J WILT	14 (1106	spot at i
			2.4 GHz						
		GPRS 850	WLAN	Σ SAR					
Circuit Tv	Configuration	SAR (W/kg)	MIMO SAR	(W/kg)					
Simult Tx	Configuration	, 0,	(W/kg)	(' 3)					
		1	2	1+2					
	Back	0.566	0.420	0.986					
	Front	0.154	1.012	1.166					
Hotspot	Bottom	0.176	0.724	0.900					
SAR			1.197*	1.290					
	Right	0.093							
	Left	0.105	1.197	1.302		1		0.4.011	
			2.4 GHz				LTE Band	2.4 GHz	
		GPRS 1900	WLAN	Σ SAR			26 (Cell)	WLAN	ΣSAR
Simult Tx	Configuration	SAR (W/kg)	MIMO SAR	(W/kg)	Simult Tx	Configuration	SAR (W/kg)	MIMO SAR	(W/kg)
Olitical 1X	Comigaration		(W/kg)				Or it (TV/Itg)	(W/kg)	
							4	0	4.0
		1	2	1+2			1	2	1+2
	Back	0.381	0.420	0.801		Back	0.723	0.420	1.143
	Front	0.170	1.012	1.182		Front	0.162	1.012	1.174
Hotspot	Bottom	0.762	0.724	1.486	Hotspot	Bottom	0.201	0.724	0.925
SAR		0.100	1.197*	1.297	SAR				
	Right					Right	0.096	1.197*	1.293
	Left	0.047	1.197	1.244		Left	0.092	1.197	1.289
			2.4 GHz				LTE Band	2.4 GHz	
		UMTS 850	WLAN	Σ SAR				WLAN	Σ SAR
Circult Tv	Configuration	SAR (W/kg)	MIMO SAR	(W/kg)	O: 1: T		66 (AWS)	MIMO SAR	(W/kg)
Simult Tx	Configuration		(W/kg)	` 3,	Simult Tx	Configuration	SAR (W/kg)	(W/kg)	(9)
	İ								
	İ	1	2	1+2			1	2	1+2
—	Back	0.808	0.420	1.228		Back	0.622	0.420	1.042
	Front	0.234	1.012	1.246		Back	0.622	0.420	1.042
Hotspot					Hotspot	Front	0.095	1.012	1.107
SAR	Bottom	0.214	0.724	0.938	SAR	Bottom	0.659	0.724	1.383
	Right	0.145	1.197*	1.342	0/110	Right	0.018	1.197*	1.215
	Left	0.168	1.197	1.365		Left	0.123	1.197	1.320
			2.4 GHz				0112	2.4 GHz	
		UMTS 1750	WLAN	Σ SAR			LTE Band	WLAN	Σ SAR
			MIMO SAR				25 (PCS)		
Simult Tx	Configuration	SAR (W/kg)		(W/kg)	Simult Tx	Configuration	SAR (W/kg)	MIMO SAR	(W/kg)
			(W/kg)				- ()	(W/kg)	
		1	2	1+2			1	2	1+2
	Back	0.554	0.420	0.974		Back	0.312	0.420	0.732
Hotonot	Front	0.101	1.012	1.113		Front	0.141	1.012	1.153
Hotspot	Bottom	0.677	0.724	1.401	Hotspot	Bottom	0.658	0.724	1.382
SAR	Right	0.012	1.197*	1.209	SAR		0.039	1.197*	1.236
	Left	0.089	1.197	1.286		Right			
	Leit	0.003		1.200		Left	0.025	1.197	1.222
			2.4 GHz				LTE Band	2.4 GHz	
		UMTS 1900	WLAN	Σ SAR			41 SAR	WLAN	Σ SAR
Simult Tx	Configuration	SAR (W/kg)	MIMO SAR	(W/kg)	Simult Tx	Configuration		MIMO SAR	(W/kg)
Oiman ix	Configuration		(W/kg)		Simult IX	Configuration	(W/kg)	(W/kg)	, ,
		_		4.0					
		1	2	1+2			1	2	1+2
	Back	0.331	0.420	0.751		Back	0.202	0.420	0.622
	Front	0.120	1.012	1.132		Front	0.026	1.012	1.038
Hotspot		0.510		1.234	Hotspot				
SAR	Bottom		0.724		SAR	Bottom	0.616	0.724	1.340
	Right	0.050	1.197*	1.247		Right	-	1.197*	1.197
	Left	0.042	1.197	1.239		Left	0.069	1.197	1.266
		LTE Band	2.4 GHz				ND D.	2.4 GHz	
			WLAN	Σ SAR			NR Band n5	WLAN	Σ SAR
Circult To	0	12 SAR	MIMO SAR	(W/kg)			(Cell) SAR	MIMO SAR	(W/kg)
Simult Tx	Configuration	(W/kg)	(W/kg)	(' 3)	Simult Tx	Configuration	(W/kg)	(W/kg)	(11,119)
			(117119)					(VV/Kg)	
	İ	1	2	1+2			1	2	1+2
	Back	0.801	0.420	1.221		De-li			
						Back	0.677	0.420	1.097
Hotspot	Front	0.270	1.012	1.282	Hotspot	Front	0.132	1.012	1.144
SAR	Bottom	0.104	0.724	0.828	SAR	Bottom	0.194	0.724	0.918
	Right	0.077	1.197*	1.274	5/11	Right	0.094	1.197*	1.291
	Left	0.163	1.197	1.360		Left	0.113	1.197	1.310
	T		2.4 GHz				2.110	2.4 GHz	
		LTE Band	WLAN	Σ SAR			NR Band		7 QAD
		13 SAR					n66 (AWS)	WLAN	Σ SAR
Simult Tx	Configuration	(W/kg)	MIMO SAR	(W/kg)	Simult Tx	Configuration	SAR (W/kg)	MIMO SAR	(W/kg)
		. 3,	(W/kg)			1	,9/	(W/kg)	
	İ	1	2	1+2			1	2	1+2
	Back	0.490	0.420	0.910		Back	0.298	0.420	0.718
l	Front	0.087	1.012	1.099		Front	0.091	1.012	1.103
Hotspot	Bottom	0.218	0.724	0.942	Hotspot	Bottom	0.597	0.724	1.321
SAR	Right	0.090	1.197*	1.287	SAR	Right	0.021	1.197*	1.218
				1.287					1.252
				1 /X/		Left	0.055	1.197	1 7 7 5 7
	Left	0.090	1.197	1.207			0.000		

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Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 66 (AWS)	0.659	0.677	0.093	1.429
1 lotspot SAR	LTE Band 25 (PCS)	0.658	0.677	0.093	1.428
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotenot SAP	LTE Band 26 (Cell)	0.723	0.597	0.093	1.413
Hotspot SAR	LTE Band 12	0.801	0.597	0.093	1.491

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Table 12-58 Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Hotspot at 0.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2 0.829 1.025 1.071 0.940 0.773	
	GPRS 850	0.566	0.263	0.829	
	GPRS 1900	0.762	0.263	1.025	
	UMTS 850	0.808	0.263	1.071	
	UMTS 1750	0.677	0.263	0.940	
	UMTS 1900	0.510	0.263	0.773	
	LTE Band 12	0.801	0.263	1.064	
Hotspot SAR	LTE Band 13	0.490	0.263	0.753	
	LTE Band 26 (Cell)	0.723	0.263	0.986	
	LTE Band 66 (AWS)	0.659	0.263	0.922	
	LTE Band 25 (PCS)	0.658	0.263	0.921	
	LTE Band 41	0.616	0.263	0.879	
	NR Band n5 (Cell)	0.677	0.263	0.940	
	NR Band n66 (AWS)	0.597	0.263	0.860	

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 66 (AWS)	0.659	0.677	0.053	1.389
HOISPOI SAK	LTE Band 25 (PCS)	0.658	0.677	0.053	1.388
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3 1.389 1.388
Hotspot SAR	LTE Band 26 (Cell)	0.723	0.597	0.053	1.373
1 IOISPOI SAR	LTE Band 12	0.801	0.597	0.053	1.451

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Table 12-59 Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Hotspot at 0.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2 0.783 0.979 1.025 0.894 0.727 1.018 0.707 0.940 0.876 0.875 0.833 0.894	
	GPRS 850	0.566	0.217	0.783	
	GPRS 1900	0.762	0.217	0.979	
	UMTS 850	0.808	0.217	1.025	
	UMTS 1750	0.677	0.217	0.894	
	UMTS 1900	0.510	0.217	0.727	
	LTE Band 12	0.801	0.217	1.018	
Hotspot SAR	LTE Band 13	0.490	0.217	0.707	
	LTE Band 26 (Cell)	0.723	0.217	0.940	
	LTE Band 66 (AWS)	0.659	0.217	0.876	
	LTE Band 25 (PCS)	0.658	0.217	0.875	
	LTE Band 41	0.616	0.217	0.833	
	NR Band n5 (Cell)	0.677	0.217	0.894	
	NR Band n66 (AWS)	0.597	0.217	0.814	

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3 1.432 1.431 Σ SAR (W/kg)
Hotspot SAR	LTE Band 66 (AWS)	0.659	0.677	0.096	1.432
Tiotspot SAIN	LTE Band 25 (PCS)	0.658	0.677	0.096	1.431
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 26 (Cell)	0.723	0.597	0.096	1.416
1 lotspot SAR	LTE Band 12	0.801	0.597	0.096	1.494

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Table 12-60 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Hotspot at 0.5 cm)

Configuration	Mode		/50	(3G/4G G SAR V/kg)	Blue	2.4 GHz etooth Ant 1 SAR (W/kg)	Ar	Hz WLAN nt 1 SAR (W/kg)	Σ	SAR (W/kg)			
				1		2		2		1+2+3			
	GPRS 850		0	.566		0.263		0.330		1.159			
	GPRS 1900		0	.762		0.263		0.330		1.355			
	UMTS 850		0	.808		0.263		0.330		1.401			
	UMTS 1750		0	0.762 0.263 0.330 1.355 0.808 0.263 0.330 1.401 0.677 0.263 0.330 1.270 0.510 0.263 0.330 1.103 0.801 0.263 0.330 1.394 0.490 0.263 0.330 1.083 0.723 0.263 0.330 1.316 0.659 0.263 0.330 1.252 0.658 0.263 0.330 1.251 0.616 0.263 0.330 1.209 0.677 0.263 0.330 1.270 0.597 0.263 0.330 1.190				1.270					
	UMTS 1900		0	.510		0.263		0.330		1.103 1.394 1.083 1.316			
	LTE Band 12												
Hotspot SAR	LTE Band 13												
	LTE Band 26 (Cell)												
	LTE Band 66 (AWS)									1.252			
	LTE Band 25 (PCS)												
	LTE Band 41									1.209			
	NR Band n5 (Cell)									1.270			
	NR Band n66 (AWS)		0	.597		0.263		0.330		1.190			
Configuration	LTE Anchor Band	4G S. (W/k		NR Ban (Cell) S (W/k	AR	2.4 GH Bluetooth 1 at 13 dl SAR (W/	Ant Bm	5 GHz WL Ant 1 at dBm SA (W/kg)	14 .R	Σ SAR (W/kg)			
		1		2		3		4		1+2+3+4			
Hotspot SAR	LTE Band 66 (AWS)	0.65		0.67		0.053		0.040		1.429			
1 lotopot o/ tr	LTE Band 25 (PCS)	0.65	8	0.67	7	0.053		0.040		1.428			
Configuration	LTE Anchor Band	4G S. (W/k		NR Ba n66 (AV SAR (W	VS)	2.4 GH Bluetooth 1 at 13 dl SAR (W/	Ant Bm	5 GHz WL Ant 1 at dBm SA (W/kg)	14 .R	Σ SAR (W/kg)			
		1		2		3		4		1+2+3+4			
Hotspot SAR	LTE Band 26 (Cell)	0.72		0.59		0.053		0.040		1.413			
1 lotopot o/ tit	LTE Band 12	0.80)1	0.59	7	0.053		0.040		1.491			

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Table 12-61 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Hotspot at 0.5 cm)

Configuration Mode		•	2G/	/3G/4G G SAR V/kg)	2 Blue	2.4 GHz etooth Ant 2 SAR (W/kg)	Ar	Hz WLAN nt 1 SAR (W/kg)	Σ	SAR (W/kg)	
				1		2		3		1+2+3	
	GPRS 850		0	.566		0.217		0.330		1.113	
	GPRS 1900		0	.762		0.217		0.330		1.309	
	UMTS 850		0	.808		0.217		0.330		1.355	
	UMTS 1750		0	.677		0.217		0.330		1.224	
	UMTS 1900		0	.510		0.217		0.330		1.057	
	LTE Band 12		0	.801		0.217		0.330		1.348	
Hotspot SAR	LTE Band 13		0	.490		0.217		0.330		1+2+3 1.113 1.309 1.355 1.224 1.057 1.348 1.037 1.270 1.206 1.205 1.163 1.224 1.144 Σ SAR (W/kg) 1+2+3+4 1.472 1.471 Σ SAR (W/kg)	
	LTE Band 26 (Cell)		0	.723		0.217		0.330		1+2+3 1.113 1.309 1.355 1.224 1.057 1.348 1.037 1.270 1.206 1.205 1.163 1.224 1.144 Σ SAR (W/kg) 1+2+3+4 1.472 1.471 Σ SAR (W/kg)	
	LTE Band 66 (AWS)		0	.659		0.217		0.330		1.206	
	LTE Band 25 (PCS)		0	.658		0.217		0.330		1.205	
	LTE Band 41		0	.616		0.217		0.330		1.163	
	NR Band n5 (Cell)		0	.677		0.217		0.330		1.224	
	NR Band n66 (AWS)		0	.597		0.217		0.330			
Configuration	LTE Anchor Band	4G S (W/k		NR Ban (Cell) S (W/k	AR	2.4 GH Bluetooth 2 at 13 dl SAR (W/	Ant Bm	5 GHz WL Ant 1 at dBm SA (W/kg)	14 .R	Σ SAR (W/kg)	
		1		2		3		4		1+2+3+4	
Hotspot SAR	LTE Band 66 (AWS)	0.65	59	0.67	7	0.096		0.040		1.472	
1 lotopot OAIX	LTE Band 25 (PCS)	0.65	58	0.67	7	0.096		0.040		1.471	
Configuration	LTE Anchor Band	4G S (W/k		NR Ba n66 (A\ SAR (W	VS)	2.4 GH Bluetooth 2 at 13 dl SAR (W/	Ant Bm	5 GHz WL Ant 1 at d dBm SA (W/kg)	14 .R	Σ SAR (W/kg)	
		1		2		3		4		1+2+3+4	
Hotspot SAR	LTE Band 26 (Cell)	0.72		0.59		0.096		0.040		1.456	
1 lotopot o/ tit	LTE Band 12	0.80)1	0.59	7	0.096		0.040		1.534	

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Table 12-62 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WI AN

Sim	nultaneou	us Trans	mission		o with I otspot		oth Antenn cm)	a 1 and	5GHz M	IIMO WL	AN		
Configuration	1	Mode					2.4 GHz Bluetooth Ai 1 SAR (W/kg)	nt MIM	z WLAN O SAR //kg)		R (W/kg	j)	
					1	l	2		3	1-	+2+3		
		GPR	RS 850		0.5	666	0.263	0.	670	1	1.499		
		GPR:	S 1900		0.7	'62	0.263	0.	670	See Ta	See Table Below		
		UMT	S 850		0.8	808	0.263	0.	670	See Table Below			
		UMT:	S 1750		0.6	377	0.263	0.	670	See Table Below			
		UMT:	S 1900		0.5	10	0.263	0.	670	1	.443		
		LTE E	Band 12		0.8	01	0.263	0.	670	See Ta	See Table Below		
Hotspot SAR		LTE E	Band 13		0.4	90	0.263	0.	670	1	.423		
		LTE Ban	d 26 (Ce	ell)	0.7	'23	0.263	0.	670	See Ta	able Belo	ow	
		LTE Band 66 (AWS)			0.6	59	0.263	0.	670	1.592			
		LTE Band	,		0.6	0.658 0.263		0.	0.670		1.591		
			Band 41	,	0.6	16	0.263	0.	670	1 549			
			d n5 (Ce	I)	0.6		0.263		670			ow.	
	<u> </u>	NR Band		•	0.5		0.263	_	670				
Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult 1		LTE Band 12 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3			1	2	3	ee Table Below ee Table Below 1.443 ee Table Below 1.423 ee Table Below 1.592 1.591 1.549 ee Table Below 1.530 SHz AN D SAR D		
	Back	0.381	0.052	0.080	0.513		Back	0.801	0.052	0.080	0.933		
	Front	0.170	0.263	0.670	1.103]	Front	0.270	0.263	0.670			
Body SAR	Bottom	0.762	0.180	0.218	1.160	Body SA		0.104	0.180	0.218			
	Right	0.100	0.066	0.048	0.214		Right	0.077	0.066	0.048	0.191	_	

Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)			Simult Tx Configuration		Simult Tx Configuration		2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3		
	Back	0.381	0.052	0.080	0.513		Back	0.801	0.052	0.080	0.933		
	Front	0.170	0.263	0.670	1.103]	Front	0.270	0.263	0.670	1.203		
Body SAR	Bottom	0.762	0.180	0.218	1.160	Body SAR	Bottom	0.104	0.180	0.218	0.502		
	Right	0.100	0.066	0.048	0.214]	Right	0.077	0.066	0.048	0.191		
	Left	0.047	-	0.542	0.589		Left	0.163	-	0.542	0.705		
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Simult Tx Configuration S		2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3			1	2	3	1+2+3		
	Back	0.808	0.052	0.080	0.940		Back	0.723	0.052	0.080	0.855		
	Front	0.234	0.263	0.670	1.167]	Front	0.162	0.263	0.670	1.095		
Body SAR	Bottom	0.214	0.180	0.218	0.612	Body SAR	Bottom	0.201	0.180	0.218	0.599		
	Right	0.145	0.066	0.048	0.259]	Right	0.096	0.066	0.048	0.210		
	Left	0.168	-	0.542	0.710		Left	0.092	-	0.542	0.634		
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	imult Tx Configuration		2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3			1	2	3	1+2+3		
	Back	0.554	0.052	0.080	0.686]	Back	0.677	0.052	0.080	0.809		
	Front	0.101	0.263	0.670	1.034]	Front	0.132	0.263	0.670	1.065		
Body SAR	Bottom	0.677	0.180	0.218	1.075	Body SAR	Bottom	0.194	0.180	0.218	0.592		
	Right	0.012	0.066	0.048	0.126]	Right	0.094	0.066	0.048	0.208		
	Left	0.089	-	0.542	0.631		Left	0.113	-	0.542	0.655		

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Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.659	0.677	0.053	0.031	1.420
1 lotspot SAIX	LTE Band 25 (PCS)	0.658	0.677	0.053	0.031	1.419
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 26 (Cell)	0.723	0.597	0.053	0.031	1.404
1 lotspot SAR	LTE Band 12	0.801	0.597	0.053	0.031	1.482

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Table 12-63 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz MIMO WLAN (Hotspot at 0.5 cm)

Configur	ation			Mode	`		2G/3 /5G (W/	SAR	2.4 GHz Bluetooth Ant 2 SAR (W/kg)		5 GHz V MIMO (W/k	SAR	Σ SAR (W/kg)		
							,	1		2	3		1+2+	-3	
			Gl	PRS 850			0.5	666		0.217	0.67	0	1.45	3	
			GF	RS 1900			0.7	'62		0.217	0.670		See Table Belov		
			Uľ	VITS 850			9.0	808		0.217	0.67	0	See Table	Below	
	UMTS 1750					0.6	677		0.217	0.67	0	1.56	4		
			UN	/ITS 1900			0.5	510		0.217	0.67	0	1.39	7	
			LTE	E Band 12	2		3.0	301		0.217	0.67	0	See Table	Below	
Hotspot	SAR		LTE	Band 13	3		0.4	1 90		0.217	0.67	0	1.37	7	
			LTE B	and 26 (0	Cell)		0.7	'23		0.217	0.67	0	See Table Below		
			LTE Band 66 (AWS)					559		0.217	0.670		1.546		
				and 25 (P			0.6			0.217	0.67		1.54		
				E Band 4				616		0.217	0.67	_	1.50		
				and n5 (C			0.6			0.217	0.67		1.56		
				nd n66 (A			0.5			0.217	0.67		1.48		
Simult Tx	Configu	uration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)		SAR W/kg)	Simult Tx		Configuration	LTE Band 12 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAF (W/kg)	n WLAN	Σ SAR (W/kg)	
			1	2	3	1	+2+3				1	2	3	1+2+3	
	Ba		0.381	0.031	0.080		0.492			Back	0.801	0.031	0.080	0.912	
Dody CAD	Fro		0.170	0.217	0.670	_	1.057	Dody C	۸ _۰ ۰	Front	0.270	0.217	0.670	1.157	
Body SAR	Bott Rig		0.762 0.100	0.153	0.218 0.048		1.133 0.148	Body S	AK	Bottom Right	0.104 0.077	0.153	0.218 0.048	0.475 0.125	
	Le		0.047	0.050	0.542		0.639		-	Left	0.163	0.050	0.542	0.755	
Simult Tx	UMTS 850 Bluetooth WLAN Σ SAR			Simult	Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAF (W/kg)	WLAN	Σ SAR (W/kg)					
			1	2	3	1	+2+3				1	2	3	1+2+3	
	Ba	ck	0.808	0.031	0.080		0.919			Back	0.723	0.031	0.080	0.834	
	Fro		0.234	0.217	0.670		1.121			Front	0.162	0.217	0.670	1.049	
Body SAR	Bott		0.214	0.153	0.218	_	0.585	Body S	AR	Bottom	0.201	0.153	0.218	0.572	
	Rig		0.145	-	0.048		0.193		-	Right	0.096 -		0.048	0.144	
	Left 0.168 0.050 0.542		(0.760			Left	0.092 0.05		0.542	0.684				

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Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 13 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.659	0.677	0.096	0.031	1.463
Hotspot SAIX	LTE Band 25 (PCS)	0.658	0.677	0.096	0.031	1.462
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 13 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 26 (Cell)	0.723	0.597	0.096	0.031	1.447
1 lotspot SAR	LTE Band 12	0.801	0.597	0.096	0.031	1.525

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Table 12-64 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2 (Hotspot at 0.5 cm)

Configuration	Mode	/50	/3G/4G G SAR V/kg)	Blue	2.4 GHz etooth Ant 1 SAR (W/kg)	WL	.4 GHz AN Ant 2 R (W/kg)	Σ	SAR (W/kg)			
				1		2		2		1+2+3		
	GPRS 850		0	0.566		0.263		0.493		1.322		
	GPRS 1900	RS 1900		.762		0.263	0.493		0.493			1.518
	UMTS 850		0	.808		0.263		0.493		1.564		
	UMTS 1750		0	.677		0.263		0.493		1.433		
	UMTS 1900		0	.510		0.263		0.493		1.266		
	LTE Band 12		0	.801		0.263		0.493		1.557		
Hotspot SAR	LTE Band 13		0	.490		0.263		0.493		1.246		
	LTE Band 26 (Cell)			.723		0.263		0.493	1.479			
	LTE Band 66 (AWS)					0.263	0.493			1.415		
	LTE Band 25 (PCS)			.658		0.263		0.493		1.414		
	LTE Band 41		0	.616		0.263		0.493		1.372		
	NR Band n5 (Cell)		0	.677				0.493		1.433		
	NR Band n66 (AWS)		0	.597		0.263		0.493		1.353		
Configuration	LTE Anchor Band	4G S (W/k	(Cell)		SAR 1 at 13 d		Ant WLAN A		nt 2 m	Σ SAR (W/kg)		
		1		0.677 0.263 0.493 1.433 0.597 0.263 0.493 1.353 NR Band n5 (Cell) SAR (W/kg) 2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg) WLAN Ant 2 at 14 dBm SAR (W/kg) Σ SAR (2 3 4 1+2+3 0.677 0.053 0.133 1.52	1+2+3+4							
Hotspot SAR	LTE Band 66 (AWS)	0.65	59	0.67	7	0.053		0.133		1.522		
1 lotopot OAIX	LTE Band 25 (PCS)	0.65	8	0.67	7	0.053		0.133		1.521		
Configuration	LTE Anchor Band	4G S (W/k		NR Ba n66 (A\ SAR (W	VS)	2.4 GH Bluetooth 1 at 13 dl SAR (W/	Ant Bm	Ant WLAN And at 14 dBr		Σ SAR (W/kg)		
		1		2		3	4			1+2+3+4		
Hotspot SAR	LTE Band 26 (Cell)	0.72		0.59		0.053		0.133		1.506		
1 lotopot o/ tit	LTE Band 12	0.80)1	0.59	7	0.053		0.133		1.584		

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Table 12-65 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz Antenna 1 WLAN (Hotspot at 0.5 cm)

							11 (1.1010	Post		,				
Configuration		Mode		2G/3 /5G (W/		Blueto	GHz both Ant R (W/kg)	WLA at 1	GHz N Ant 2 4 dBm (W/kg)	Ant dBr	z WLAN 1 at 14 m SAR V/kg)	Σ SAR (W/kg)		
					1		2		3		4		1+2+3+4	
	Gl	PRS 850		0.5	666	0.	263	0.	133	0.	.040		1.002	
	GF	PRS 1900		0.7		0.	263	0.	133	0.	.040		1.198	
	UI	MTS 850		0.8	308	0.	263	0.	133	0.	.040		1.244	
	UN	/ITS 1750		0.6	677	0.	263	0.	133	0.	.040		1.113	
	UN	/ITS 1900		0.5	510	0.	263	0.	133	0.	.040		0.946	
	LTE	Band 12		0.8	301		263	0.	133	0.	.040		1.237	
Hotspot SAR		E Band 13		0.4		1	263		0.133		.040		0.926	
		and 26 (Cell)			723		263		133		.040		1.159	
		and 66 (AWS)		0.6			263		133		.040		1.095	
		and 25 (PCS)			558		263		133		.040		1.094	
		E Band 41			616		263		133		.040		1.052	
		and n5 (Cell)		0.6			263		133		.040		1.113	
	NR Bar	nd n66 (AWS)		0.5	97	0.	263		133		.040		1.033	
		40		N/kg) (Cell)		and n5	2.4 G Bluetoot		2.4 GHz WLAN Ant 2		5 GHz \ Ant 1 a		5 0 A D ((A)()	
Configuration						/kg)	1 21 13 0				dBm (W/I	SAR	Σ SAR (W/kg)	
				1	2		3		4		5		1+2+3+4+5	
Hotspot SAR	LTE Band	66 (AWS)	0.0	659	0.677		0.05	3	0.13	3	0.04	40	1.562	
Ποιδροί ΟΑΙΧ	LTE Band	25 (PCS)	0.0	658	0.0	677	0.05	3	0.13	3	0.04	40	1.561	
					ND	Band	2.4 G	Hz	2.4 G		5 GHz \	NLAN		
				SAR nee		AWS)	Bluetooth Ant						Σ SAR (W/kg)	
Configuration	LTE Anc	hor Band	(W	/kg)	kg) SAR (1 at 13	dBm			dBm S	SAR	2 0/4 (W/kg)	
garaner.						(vv/llg)	SAR (W	//kg) SAR (\		V/kg)	(W/kg)			
				1		2	3		4		5		1+2+3+4+5	
Hotspot SAR	LTE Band	d 26 (Cell)	0.	723	0.	597	0.05	3	0.13	3	0.04	40	1.546	
1 lotopot o/ tr	LTE B	and 12	0.8	801	0.	597	0.05	3	0.13	3	0.04	40	See Table Below	
			1	NR Ba	nd		GHz		2.4 GHz		5 GHz		5045	
	.	LTE Band 12	nr	66 (AV	vs)		ooth Ant		_AN Ant		VLAN A		ΣSAR	
Simult Tx	Configuratio	SAR (W/kg)		AR (W	,	1 at '	13 dBm		: 14 dBn		at 14 dE		(W/kg)	
Januar 12	n		J.	~! \ (v v	/kg/	SAR	(W/kg)	SA	R(W/k)	g) S	SAR (W/	kg)		
		1		2			3		4		5		1+2+3+4+5	
	Back	0.801		0.29	8	0	.016		0.133*		0.040	+	1.288	
Body.	Front	0.270		0.09			.038	_	0.133*		0.040		0.572	
Body	Bottom	0.104		0.59	7	0.	.053	0.133*			0.040*		0.927	
SAR	Right	0.077		0.02	1	0	.014		-		0.040*		0.152	
	Left	0.163		0.05	5		-		0.133		-		0.351	

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Table 12-66
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz MIMO WLAN (Hotspot at 0.5 cm)

					(poi ai i	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u>''/</u>					
Configuration	Mode	/50		2G/3G/4G /5G SAR (W/kg)		2.4 GHz Bluetooth Ant 1 SAR (W/kg)		2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)		WLAND at 17 n SAR //kg)	Σ	SAR (W/kg)	
			1	I		2		3		4		1+2+3+4	
	GPRS 850		0.5	666	0.	263	0.	133	0.	031		0.993	
	GPRS 1900		0.7	'62	0.	263	0.	133	0.	031		1.189	
	UMTS 850		0.8	808	0.	263	0.	133	0.	031		1.235	
	UMTS 1750		0.6	377	0.	263	0.	133	0.	031		1.104	
	UMTS 1900		0.5	10	0.	263	0.	133	0.	031		0.937	
_	LTE Band 12		9.0	801	0.	263	0.	133	0.	031		1.228	
Hotspot SAR	LTE Band 13		0.4	90	0.	263	0.	133	0.	031		0.917	
	LTE Band 26 (Cell)		0.723		0.	263	63 0.133		0.031		1.150		
	LTE Band 66 (AWS)		0.659		0.	263			0.031			1.086	
	LTE Band 25 (PCS)		0.658		0.			133	0.	031		1.085	
_	LTE Band 41		0.616		0.					031		1.043	
	NR Band n5 (Cell)		0.677		0.263		0.	0.133		031		1.104	
	NR Band n66 (AWS)		0.5	97	0.	263		133		031		1.024	
Configuration	LTE Anchor Band		SAR /kg)	(Cell)	and n5 SAR /kg)	2.4 G Bluetoo 1 at 13 SAR (V	th Ant dBm	2.4 C WLAN at 14 C SAR (V	Ant 2 dBm	5 GHz \ MIMO dBm (W/I	at 17 SAR	Σ SAR (W/kg)	
			1	2	2	3		4		5		1+2+3+4+5	
Hotspot SAR -	LTE Band 66 (AWS)	0.6	659	0.6	677	0.05	53	0.13	33	0.03	31	1.553	
Hotspot SAK	LTE Band 25 (PCS)	0.6	658	0.6	677	0.05	53	0.13	33	0.03	31	1.552	
Configuration	LTE Anchor Band		SAR /kg)	n66 (Band AWS) W/kg)	2.4 G Bluetoo 1 at 13 SAR (V	th Ant dBm	2.4 C WLAN at 14 C SAR (V	Ant 2 dBm	5 GHz \ MIMO dBm \(at 17 SAR	Σ SAR (W/kg)	
			1	2	2	3		4		5		1+2+3+4+5	
Hotspot SAR	LTE Band 26 (Cell)	0.7	723	0.5	597	0.05	53	0.13	33	0.03	31	1.537	
1 IOISPOI SAR	LTE Band 12	0.8	301	0.0	000	0.05	53	0.13	33	0.03	31	1.018	

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Table 12-67
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Hotspot at 0.5 cm)

Configuration	Mode			2G/3G/4G /5G SAR (W/kg)		AN MIMO MII 17 dBm dE		Hz WLAN MO at 17 3m SAR (W/kg)		SAR (W/kg)		
				1		2		2		1+2+3		
	GPRS 850		0	.566		0.093		0.031		0.690		
	GPRS 1900		0	.762		0.093		0.031		0.886		
	UMTS 850		0	.808		0.093		0.031		0.932		
	UMTS 1750		0	.677		0.093		0.031		0.801		
	UMTS 1900		0	.510		0.093		0.031		0.634		
	LTE Band 12			.801		0.093		0.031		0.925		
Hotspot SAR	LTE Band 13			.490		0.093		0.031		0.614		
	LTE Band 26 (Cell)			.723	0.093		0.031		0.847			
	LTE Band 66 (AWS)			.659			0.031		0.783			
	LTE Band 25 (PCS)				0.658 0.			0.031	0.782			
	LTE Band 41			.616		0.093		0.031		0.740		
	NR Band n5 (Cell)			0.677		0.093		0.031		0.801		
	NR Band n66 (AWS)		0	.597	0.093		0.031		0.721			
Configuration	LTE Anchor Band	4G S. (W/k		NR Ban (Cell) S (W/kg	SAR	WLAN MI at 17 dB	IIMO MIMO a Bm dBm S		WLAN MIMO M		17 .R	Σ SAR (W/kg)
		1		2	3		4		VLAN at 17 SAR (g)	1+2+3+4		
Hotspot SAR -	LTE Band 66 (AWS)	0.65	59	0.67	7	0.093		0.031		1.460		
1 lotopot O/ ti t	LTE Band 25 (PCS)	0.65	8	0.67	7	0.093		0.031		1.459		
Configuration	LTE Anchor Band			NR Band n66 (AWS) SAR (W/kg)		2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)		MO MIMO at m dBm SA		Σ SAR (W/kg)		
		1		2		3		4		1+2+3+4		
Hotspot SAR	LTE Band 26 (Cell)	0.72		0.59		0.093		0.031		1.444		
1 lotopot o/ tr	LTE Band 12	0.80)1	0.59	7	0.093		0.031		1.522		

12.9 Simultaneous Transmission Conclusion

The above numerical summed SAR results are sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

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13.1 **Measurement Variability**

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 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 \geq 1.45 W/kg (~ 10% from the 1g 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) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 13-1 Body SAR Measurement Variability Results

	BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Data Rate	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.			(Mbps)	ps)		(W/kg)	(W/kg)		(W/kg)		(W/kg)	
2450	2462.00	11	802.11b, 22 MHz Bandwidth	DSSS , MIMO	1	left	5 mm	1.080	0.938	1.15	N/A	N/A	N/A	N/A
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body							
	Spatial Peak						1.6 W/kg (mW/g)							
		Und	controlled Exposure/General Po	opulation			averaged over 1 gram							

Table 13-2 Phablet SAR Measurement Variability Results

	PHABLET VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side Spacing	Spacing	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio	
	MHz	Ch.					(W/kg)	(W/kg)		(W/kg)		(W/kg)		
1750	1720.00	344000	NR Band n66 (AWS), 20 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	back	0 mm	2.330	2.260	1.03	N/A	N/A	N/A	N/A	
1900	1907.60	9538	UMTS 1900	RMC	back	0 mm	2.600	2.500	1.04	N/A	N/A	N/A	N/A	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT)							Phablet						
	Spatial Peak							4.0 W/kg (mW/g)						
	Uncontrolled Exposure/General Population							averaged over 10 grams						

13.2 **Measurement Uncertainty**

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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14 ADDITIONAL TESTING PER FCC GUIDANCE

14.1 Tuner Testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 11 represented the appropriate SAR test conditions. Per FCC Guidance, during NR testing the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency.

For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 120 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was > 1.2 W/kg for a particular band/mode/exposure condition, point SAR measurements were made for all 120 states.

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

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Table 14-1 UMTS Supplemental Head SAR Data

OWITS Supplemental nead SAR Data						
Supplemental Head SAR Data						
UMT	UMTS B5 UMTS B4 UMTS B2				S B2	
RN	ЛС	RMC RMC		NC		
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek	
Frequency (MHz)	836.60	Frequency (MHz)	1712.40	Frequency (MHz)	1852.40	
Channel	4183	Channel	1312	Channel	9262	
Measured 1g SAR (W/kg)	0.202	Measured 1g SAR (W/kg)	0.074	Measured 1g SAR (W/kg)	0.088	
Average Value of T	īme Sweep (W/kg)	Average Value of Time Sweep (W/kg)		Average Value of T	îme Sweep (W/kg)	
Auto-tune (State 5)	0.220	Auto-tune (State 0)	0.083	Auto-tune (State 13)	0.101	
Default (State 0)	0.214	Default (State 0)	0.082	Default (State 13)	0.092	
State 5	0.231	State 0	0.082	State 7	0.063	
State 9	0.066	State 8	0.075	State 13	0.092	
State 31	0.146	State 30	0.020	State 29	0.013	
State 53	0.178	State 52	0.060	State 51	0.009	
State 75	0.017	State 74	0.046	State 73	0.076	
State 97	0.105	State 96	0.054	State 95	0.043	
State 119	0.099	State 118	0.028	State 117	0.027	

Table 14-2 LTE Supplemental Head SAR Data

			= : = + v v v v v v v v v v						
	Supplemental Head SAR Data								
LTE	B12	LTE	B13	LTE	B26	LTE	B66	LTE	B25
QPSK, 10 MHz Bar	dwidth, 1 RB, 0 RB	QPSK, 10 MHz Band	dwidth, 1 RB, 25 RB	QPSK, 15 MHz Ban	dwidth, 1 RB, 36 RB	QPSK, 20 MHz Ban	dwidth, 1 RB, 99 RB	QPSK, 20 MHz Bar	ndwidth, 1 RB, 0 RB
Off	set	Off	set	Off	set	Off	set	Off	set
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	831.50	Frequency (MHz)	1770.00	Frequency (MHz)	1860.00
Channel	23095	Channel	23230	Channel	26865	Channel	132572	Channel	26140
Measured 1g SAR (W/kg)	0.183	Measured 1g SAR (W/kg)	0.111	Measured 1g SAR (W/kg)	0.147	Measured 1g SAR (W/kg)	0.077	Measured 1g SAR (W/kg)	0.062
Average Value of T	îme Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)	Average Value of 1	īme Sweep (W/kg)	Average Value of T	īme Sweep (W/kg)	Average Value of T	īme Sweep (W/kg)
Auto-tune (State 0)	0.196	Auto-tune (State 27)	0.115	Auto-tune (State 5)	0.156	Auto-tune (State 13)	0.093	Auto-tune (State 13)	0.063
Default (State 0)	0.203	Default (State 0)	0.130	Default (State 0)	0.170	Default (State 0)	0.077	Default (State 13)	0.065
State 0	0.203	State 5	0.098	State 3	0.170	State 2	0.071	State 1	0.055
State 6	0.143	State 27	0.128	State 5	0.159	State 13	0.084	State 13	0.065
State 28	0.133	State 49	0.019	State 25	0.022	State 24	0.052	State 23	0.033
State 50	0.015	State 54	0.104	State 47	0.097	State 46	0.020	State 45	0.019
State 72	0.028	State 71	0.038	State 69	0.119	State 68	0.073	State 67	0.062
State 94	0.105	State 93	0.113	State 91	0.062	State 90	0.002	State 89	0.010
State 116	0.111	State 115	0.094	State 113	0.139	State 112	0.084	State 111	0.011

Table 14-3 NR Supplemental Head SAR Data

Nit Supplemental Head SAN Data						
	Supplemental Head SAR Data					
NR Ba	and n5	NR Band n66				
DFT-s-OFDM QPSK,	20 MHz Bandwidth, 1	DFT-s-OFDM QPSK	, 20 MHz Bandwidth,			
RB, 53 F	RB Offset	50 RB, 28	RB Offset			
Test Position	Right Cheek	Test Position	Right Cheek			
Frequency (MHz)	836.50	Frequency (MHz)	1720.00			
Channel	167300	Channel	344000			
Measured 1g SAR	0.175	Measured 1g SAR	0.081			
(W/kg)	0.175	(W/kg)	0.061			
Average Value of T	īme Sweep (W/kg)	Average Value of Time Sweep (W/kg)				
Auto-tune (State 5)	0.191	Auto-tune (State 13)	0.087			
Default (State 0)	0.206	Default (State 0)	0.074			
State 0	0.206	State 13	0.087			
State 5	0.191	State 21	0.096			
State 22	0.079	State 43	0.011			
State 44	0.196	State 52	0.084			
State 66	0.140	State 65	0.056			
State 88	0.013	State 87	0.013			
State 110	0.117	State 109	0.000			

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Table 14-4 UMTS Supplemental Body SAR Data

Owi 13 Supplemental Body SAK Data						
Supplemental Body SAR Data						
UMT	UMTS B5 UMTS B4 UMTS B2					
RN	/IC	RN	ЛС	RN	IC	
Test Position	Back	Test Position	Bottom	Test Position	Back	
Spacing	5 mm	Spacing	5 mm	Spacing	15 mm	
Frequency (MHz)	826.40	Frequency (MHz)	1752.60	Frequency (MHz)	1852.40	
Channel	4132	Channel	1513	Channel	9262	
Measured 1g SAR (W/kg)	0.598	Measured 1g SAR (W/kg)	0.485	Measured 1g SAR (W/kg)	0.528	
Average Value of T	īme Sweep (W/kg)	Average Value of T	īme Sweep (W/kg)	Average Value of T	îme Sweep (W/kg)	
Auto-tune (State 80)	0.965	Auto-tune (State 2)	0.820	Auto-tune (State 13)	0.850	
Default (State 0)	0.993	Default (State 0)	0.862	Default (State 13)	0.851	
State 20	0.644	State 2	0.854	State 13	0.851	
State 33	0.594	State 19	0.822	State 18	0.817	
State 42	0.966	State 41	0.299	State 40	0.158	
State 64	0.030	State 48	0.163	State 59	0.829	
State 80	0.955	State 63	0.862	State 62	0.663	
State 86	0.165	State 85	0.349	State 84	0.147	
State 108	0.994	State 107	0.195	State 106	0.892	

Table 14-5 LTE Supplemental Body SAR Data

				app.ooc	,				
	Supplemental Body SAR Data								
LTE	B12	LTE	B13	LTE	B26	LTE	B66	LTE	B25
QPSK, 10 MHz Ban	dwidth, 1 RB, 25 RB	QPSK, 10 MHz Band	width, 25 RB, 12 RB	QPSK, 15 MHz Band	dwidth, 1 RB, 74 RB	QPSK, 20 MHz Ban	dwidth, 1 RB, 99 RB	QPSK, 20 MHz Band	dwidth, 1 RB, 99 RB
Off	set	Off	set	Off	set	Off	set	Off	set
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	5 mm	Spacing	5 mm	Spacing	5 mm	Spacing	15 mm	Spacing	5 mm
Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	831.50	Frequency (MHz)	1745.00	Frequency (MHz)	1905.00
Channel	23095	Channel	23230	Channel	26865	Channel	132322	Channel	26590
Measured 1g SAR (W/kg)	0.609	Measured 1g SAR (W/kg)	0.402	Measured 1g SAR (W/kg)	0.547	Measured 1g SAR (W/kg)	0.474	Measured 1g SAR (W/kg)	0.607
Average Value of T	īme Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)	Average Value of T	īme Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)
Auto-tune (State 0)	0.684	Auto-tune (State 27)	0.427	Auto-tune (State 109)	0.882	Auto-tune (State 18)	0.719	Auto-tune (State 61)	1.032
Default (State 0)	0.654	Default (State 0)	0.484	Default (State 0)	0.667	Default (State 0)	0.600	Default (State 13)	0.916
State 0	0.654	State 16	0.437	State 14	0.911	State 13	0.661	State 12	0.341
State 17	0.465	State 27	0.450	State 36	0.150	State 18	0.682	State 34	0.060
State 39	0.513	State 38	0.025	State 58	0.453	State 35	0.031	State 42	0.295
State 61	0.049	State 60	0.063	State 80	0.728	State 57	0.639	State 56	0.888
State 73	0.045	State 79	0.476	State 102	0.042	State 69	0.505	State 61	0.962
State 83	0.221	State 82	0.328	State 109	0.927	State 79	0.151	State 78	0.199
State 105	0.612	State 104	0.476	State 111	0.638	State 101	0.210	State 100	0.395

Table 14-6 NR Supplemental Body SAR Data

Mit Supplemental Body OAR Bata						
	Supplemental Body SAR Data					
NR Ba	and n5	NR Band n66				
CP-OFDM QPSK, 2	0 MHz Bandwidth, 1	DFT-s-OFDM QPSK,	20 MHz Bandwidth, 1			
RB, 1 R	B Offset	RB, 1 R	B Offset			
Test Position	Back	Test Position	Back			
Spacing	5 mm	Spacing	15 mm			
Frequency (MHz)	836.50	Frequency (MHz)	1745.00			
Channel	167300	Channel	349000			
Measured 1g SAR	0.545	Measured 1g SAR	0.624			
(W/kg)	0.545	(W/kg)	0.024			
Average Value of T	īme Sweep (W/kg)	Average Value of Time Sweep (W/kg)				
Auto-tune (State 109)	0.889	Auto-tune (State 18)	0.927			
Default (State 0)	0.915	Default (State 0)	0.937			
State 11	0.163	State 4	0.738			
State 26	0.895	State 10	0.493			
State 33	0.496	State 18	0.927			
State 55	0.826	State 32	0.072			
State 77	0.019	State 54	0.851			
State 99	0.216	State 76	1.013			
State 109	0.889	State 98	0.497			

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14.2 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

Table 14-7
LTE Band 41 Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.00	27.50
Measured Output Power (dBm)	24.06	26.42
Measured SAR (W/kg)	0.088	0.107
Measured Power (mW)	254.68	438.53
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	161.21	189.88
% deviation from expected linearity		3.23%

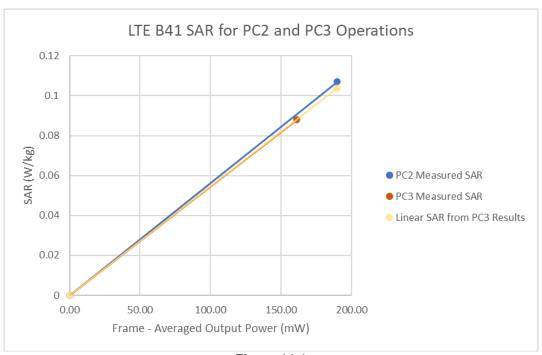


Figure 14-1 LTE Band 41 Head Linearity

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Table 14-8 LTE Band 41 Open Body-Worn Linearity Data

2:2 Dana :: Opon Dody :: One and y Data					
	LTE Band 41 PC3	LTE Band 41 PC2			
Maximum Allowed Output Power (dBm)	25.00	27.50			
Measured Output Power (dBm)	24.06	26.42			
Measured SAR (W/kg)	0.137	0.148			
Measured Power (mW)	254.68	438.53			
Duty Cycle	63.3%	43.3%			
Frame Averaged Output Power (mW)	161.21	189.88			
% deviation from expected linearity		-8.28%			

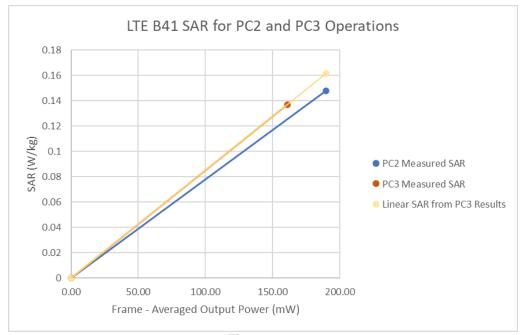


Figure 14-2 LTE Band 41 Open Body-Worn Linearity

FCC ID: A3LSMF711B1	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 14-9 LTE Band 41 Closed Hotspot Linearity Data

	,	
	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.50	19.50
Measured Output Power (dBm)	18.64	18.68
Measured SAR (W/kg)	0.505	0.355
Measured Power (mW)	73.11	73.79
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	46.28	31.95
% deviation from expected linearity		1.82%

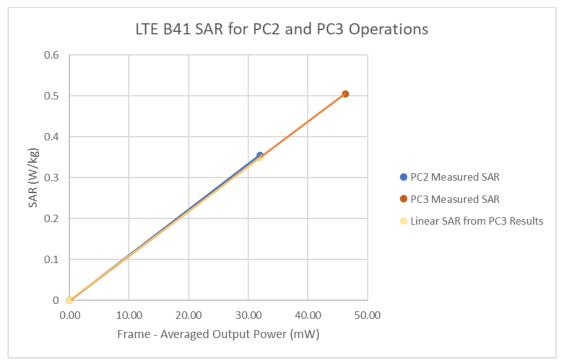


Figure 14-3 LTE Band 41 Closed Hotspot Linearity

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Table 14-10
LTE Band 41 Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.50	23.50
Measured Output Power (dBm)	22.57	22.49
Measured SAR (W/kg)	0.990	0.630
Measured Power (mW)	180.72	177.42
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	114.39	76.82
% deviation from expected linearity		-5.24%

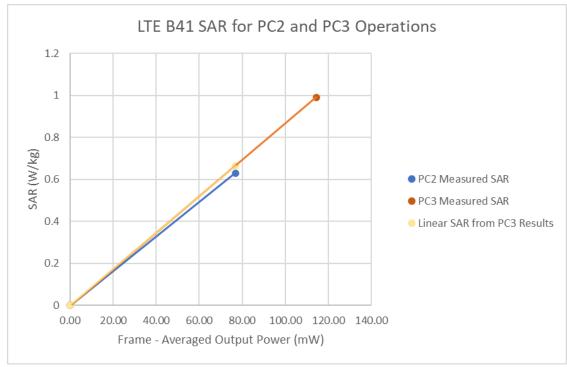


Figure 14-4 LTE Band 41 Phablet Linearity

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Applied GEOSE	Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
\$\frac{4}{\text{Agent} \$174.55 \$4.00 \$175.000 \$1.0000 \$1.0000 \$1.0000 \$1.0000 \$1.000							
Agent							
April							
Paper				2/2/2021			US30170122
Agent	Agilent					2/24/2022	
Applied E44506							
Ageinst				12/14/2020		12/14/2022	
Agent		E4440A			Annual		MY46186272
Applied Desirio Workson Communication First Set Applied Applied NASSISS Workson Communication First Set NASSISS NASSISS Applied NASSISS NASSIS		E5515C		12/15/2020	Annual	12/15/2021	GB42361078
Agent		E5515C					
Applied NSSEA		N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Applied NOSISIA	Agilent	N5182A		6/15/2021	Annual	6/15/2022	MY47420800
Ampfiller Research 1950305C	Agilent	N5182A		6/21/2021	Annual	6/21/2022	MY47420603
Amplitus Machine	Agilent	N9020A	MXA Signal Analyzer	12/21/2020	Annual	12/21/2021	MY50200571
Mod-1100-06 Mod-1100-06	Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Montain	Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Annibu	Anritsu	MA24106A	USB Power Sensor	10/14/2020	Annual	10/14/2021	1827531
Archital MA.2005.1 190007			USB Power Sensor				1827528
Months	Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1126066
Annibus	Anritsu	MA2411B	Pulse Power Sensor	3/8/2021	Annual	3/8/2022	1339007
Annibu	Anritsu	ML2495A	Power Meter	11/3/2020	Annual	11/3/2021	1039008
April							
Amrituary MF8821C Radio Communication Analyser 4/14/2021 Amrituary MF8821C Radio Communication Analyser 4/14/2021 Amrituary 4/14/2							
Arritary				3/2/2021		3/2/2022	
Americal MPIBB21C Radio Communication Analyser 77(8)(2021 Americal 17(8)(2021 CR)							
Arritary	Anritsu	MT8821C	Radio Communication Analyzer	4/14/2021	Annual	4/14/2022	
Annibia	Anritsu				Annual		
Control Company 6900 Therm. Clock / Remelling Montrol 21/17/2002 Beneral 21/17/2002 200113774							
Control Company		MT8821C	Radio Communication Analyzer				
Control Company 4512 1.00 1.0	Control Company		Therm./ Clock/ Humidity Monitor		Biennial		200113269
Control Company	Control Company		Therm./ Clock/ Humidity Monitor				
Control Company	Control Company		Long Stem Thermometer				
Control Company 4852 Ultra Long Stem Thermometer 31/2/021 Annual 31/2/0221 US3816500812 Keysight	Control Company		Long Stem Thermometer		Biennial		
HENNETT PRACEARD 87-316 Network Analyzer 127/07/200 Annual 127/07/201 US\$816/081 Keysight Technologies AT/NEX758 D.C. Power Supply C.ET N/A	Control Company	4352	Ultra Long Stem Thermometer	3/2/2021	Annual	3/2/2022	160508097
	Control Company	4352		3/2/2021	Annual	3/2/2022	160508122
Reynight Technologies		8753E		12/10/2020	Annual	12/10/2021	US38161081
	Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Memoritaria Memoritaria	Keysight Technologies	AT/N6705B	DC Power Supply	CBT	N/A	CBT	MY53001315
MINICRUST SLP-2400-	Keysight Technologies	N6705B	DC Power Analyzer	5/5/2021	Triennial	5/5/2024	MY53004059
MiniCircuits VII-5000		N9020A		2/24/2021		2/24/2022	MY48010233
MiniCircuis	MCL						
MiniCircuis	MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
Mini-Crcuits BW-N20W5 Power Attenuator CBT N/A CBT N/A	MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits NIP-1200+	MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Crautis N.P3959-	Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Crautis N.P3959-							
Nursida							
Nurda	Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Pastermack NC-100 Torque Wrench 12/1/2020 Annual 12/1/2021 N/A	Narda	4772-3		CBT	N/A	CBT	9406
Pasternack PE2286 Bidirectional Coupler C8T N/A C8T	Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pastermack PE2286-6 Biblirectional Coupler C8T N/A C8T N/A	Pastemack	NC-100	Torque Wrench	12/1/2020	Annual	12/1/2021	N/A
Pasternack PE2209-10 Bidirectional Coupler CBT N/A CBT N/A Rohce & Schwarz CMWS00 Radio Communication Tester 1015/2020 Annual 1016/2021 1015/99 Rohce & Schwarz CMWS00 Radio Communication Tester 1015/2020 Annual 1016/2021 1055/82 Rohce & Schwarz CMWS00 Radio Communication Tester 1015/2020 Annual 1016/2021 1055/82 Rohce & Schwarz CMWS00 Radio Communication Tester 1017/2020 Annual 1027/2021 1058/82 Rohce & Schwarz NRX Power Meter 127/2020 Annual 127/2021 1025/82 Rohce & Schwarz NRX Power Meter 127/2020 Annual 127/2021 1025/82 Rohce & Schwarz ZMLE Vector Network Analyser 9/29/2020 Annual 127/2021 1025/82 Rohce & Schwarz ZMLE Vector Network Analyser 9/29/2020 Annual 3/29/2021 1035/82 Rohce & Schwarz ZMLE Vector Network Analyser 9/29/2020 Annual 3/29/2021 1035/82 Rohce & Schwarz ZMLE Vector Network Analyser 9/29/2020 Annual 3/29/2021 1035/82 Rohce & Schwarz ZMLE Vector Network Analyser 9/29/2020 Annual 3/29/2021 1036/82 SFRAG DAK-3 Delectric Assessment RI 5/11/2021 Annual 5/11/2022 3/20 Rohce & Schwarz SMLE S	Pastemack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	N/A
Robole & Schwarz CMW/500 Radio Communication Tester 10/16/2020 Annual 10/16/2021 106578 Radio Communication Tester 10/16/2020 Annual 10/16/2021 106578 Radio Communication Tester 10/16/2020 Annual 10/16/2021 106578 Radio Communication Tester 10/16/2020 Annual 10/16/2021 106578 Radio Communication Tester 10/16/2020 Annual 10/17/2021 105888 Radio & Schwarz NNX Power Meter 12/7/2020 Annual 12/7/2021 105588 Radio & Schwarz NNX Power Meter 12/7/2020 Annual 12/7/2021 105588 Radio & Schwarz Radio & Schwarz NNX Power Meter 12/7/2020 Annual 12/7/2021 105588 Radio & Schwarz Radio & Radio & Schwarz Radio & Schwarz Radio & Radio & Schwarz Radio & Radio & Schwarz Radio &	Pastemack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Robole & Schwarz	Pastemack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohoke & Schwarz	Rohde & Schwarz	CMW500		10/16/2020	Annual	10/16/2021	101699
Roboke & Schwarz NNX Power Meter 12/7/2020 Annual 12/7/2021 102588 Roboke & Schwarz NNX Power Meter 12/7/2020 Annual 12/7/2021 102588 Roboke & Schwarz ZNLE6 Vector Network Analyser 9/29/2020 Annual 3/23/2021 103197 SPEAG DAK-3.5 Dielectric Assessment RI 10/14/2021 Annual 5/14/2022 1070 Inizie 1106-150 Digital Caliper 1107/2002 Bennal 5/12/2021 1070 SPEAG DAK-3.5 Dielectric Assessment RI 5/12/2021 Bennal 5/12/2022 1070 Inizie 1106-150 Digital Caliper 1107/2020 Bennal 3/12/2022 1070 SPEAG DASOV 385 Mini SAR Dipole 10/12/2021 Trennal 10/12/2021 1161 SPEAG D1350V2 3150 Mini SAR Dipole 10/12/2021 Trennal 10/12/2021 46112 SPEAG D1350V2 350 Mini SAR Dipole 10/12/2021 Trennal 10/12/2021	Rohde & Schwarz	CMW500	Radio Communication Tester	10/16/2020	Annual	10/16/2021	106578
Robote & Schwarz NNX Power Meter 11/7/2020 Annual 12/7/2021 102387	Rohde & Schwarz	CMW500	Radio Communication Tester	10/27/2020	Annual	10/27/2021	108843
Robbe & Schwarz 2NL66 Vector Network Analyser 9/29/2020 Annual 9/29/2021 100307	Rohde & Schwarz	NRX	Power Meter	12/7/2020		12/7/2021	102583
Robbe & Schwarz 2NL66 Vector Network Analyser 9/29/2020 Annual 9/29/2021 100307	Rohde & Schwarz	NRX	Power Meter	12/7/2020	Annual	12/7/2021	102582
SPEAG	Rohde & Schwarz	ZNLE6	Vector Network Analyzer		Annual		101307
Insize	SPEAG	DAK-3.5	Dielectric Assessment Kit	10/14/2020	Annual	10/14/2021	1091
Image	SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2021	Annual	5/12/2022	1070
SPEAG D750V3 T750MH SAR Dipole 10/13/2013 Treinnial 10/13/2013 1161	Insize	1108-150	Digital Caliper		Biennial	1/17/2022	
SPEAG D750V3 775 MHIS SAR Dipole 10/13/2018 Triennial 10/13/2011 1161	SPEAG		Modulation and Audio Interference Analyzer		N/A		
SPEAG D859V2 835 MHr SAR Dipole 1/21/2021 Annual 1/21/2022 46113			750 MHz SAR Dipole				1161
\$PRAG D1500V2 3100 MHz SAR Djojob 107337018 Tritenrial 107337021 50808 \$PRAG D2450V2 2450 MHz SAR Djojob 171970212 Annual 17197021 981 \$PRAG D250V2 250 MHz SAR Djojob 9/9/2020 Annual 9/9/2021 797 \$PRAG D250V2 2500 MHz SAR Djojob 9/9/2020 Annual 1/9/2021 797 \$PRAG D250V2 5 GHZ SAR Djojob 17107021 Tritenrial 170/3/022 1064 \$PRAG D750V3 750 MHz SAR Djojob 170/3/2021 Annual 1/20/2022 1057 \$PRAG D750V3 750 MHz SAR Djojob 170/3/2021 Annual 1/20/2022 1057 \$PRAG D750V3 750 MHz SAR Djojob 170/3/2021 Bennial 1/20/2022 1059 \$PRAG D350V2 1350 MHz SAR Djojob 107197018 Tritenrial 10719/2021 4d133 \$PRAG D150V2 1750 MHz SAR Djojob 107197018 Tritenrial 10719/2021 54149 \$PRAG D1500V2 1500 MHz SAR Djojob 10723/2018 Tritenrial 10723/2021 54149 \$PRAG D1500V2 1500 MHz SAR Djojob 170/21/2018 Tritenrial 10723/2021 54149 \$PRAG D5GHV2 5 GHZ SAR Djojob 47147021 Annual 47147022 54148 \$PRAG D5GHV2 5 GHZ SAR Djojob 47147021 Annual 47147022 1004 \$PRAG D5GHV2 5 GHZ SAR Djojob 47147021 Annual 47147022 1004 \$PRAG D5GHV2 5 GHZ SAR Djojob 471470201 Annual 47147022 7406 \$PRAG EXDV4 SAR Probe 7720/2020 Annual 17720/2022 7406 \$PRAG EXDV4 SAR Probe 17720/2020 Annual 17720/202 7406 \$PRAG EXDV4 SAR Probe 17720/2021 Annual 17720/202 7357 \$PRAG EXDV4 SAR Probe 471970201 Annual 17720/202 7357 \$PRAG EXDV4 SAR Probe 471970201 Annual 17720/202 7357 \$PRAG EXDV4 SAR Probe 471970201 Annual 17720/202 7357 \$PRAG EXDV4 SAR Probe 471970201 Annual 17720/202 7357 \$PRAG EXDV4 SAR Probe 171070201 Annual 17720/202 7357 \$PRAG EXDV4 SAR Probe 170070201 Annual 170070201 7359 \$PRAG EXDV4 SAR Probe 170070201 Annual 170070201 7359 \$PRAG EXDV4 SAR Probe 170070201 Annual 170070202 7359 \$PRAG EXDV4 SAR Probe			835 MHz SAR Dipole	1/21/2021	Annual		
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SPEAG DSGHAY2 S. GHE SAR Dipole 1/20/2021 Annual 1/20/2022 1057							
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SPEAG DAE4 Dasy Data Acquisition Electronics 7/13/2021 Annual 7/13/2022 1583	SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2021	Annual	1/13/2022	1558
COPAC DATA Description Control 2/20/2024 As 1 Architecture							
	SPEAG	DAE4	Dasy Data Acquisition Electronics	3/18/2021	Annual	3/18/2022	1272
SPEAG DAE4 Dasy Data Acquisition Electronics 3/10/2021 Annual 3/10/2022 1415	SPEAG	DAE4	Dasy Data Acquisition Electronics	3/10/2021	Annual	3/10/2022	1415

Notes:

- CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.
- Each equipment item was used solely within its respective calibration period.

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a	b	С	d	e=	f	g	h =	i =	k
				f(d,k)		,	c x f/e		
	IEEE	T-1	DI-	I(U,K)		_		c x g/e	
Uncertainty Component	1528	Tol.	Prob.		Ci	Ci	1gm	10gms	
Uncertainty Component	Sec.	(± %)	Dist.	Div.	1gm	10 gms	ui	ui	Vi
Measurement System							(± %)	(± %)	
·	I = 0.4		l		4		7.0	7.0	
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	Ν	1	1	1	0.3	0.3	∞
Response Time	E.2.7	8.0	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	Ν	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	Ν	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	Ν	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	Ν	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	1		RSS	<u> </u>			12.2	12.0	191
Expanded Uncertainty			k=2				24.4	24.0	
(95% CONFIDENCE LEVEL)			-						
(23 /0 COINTIDE NCE ELVEL)								I	1

The above measurement uncertainties are according to IEEE Std. 1528-2013

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17 CONCLUSION

17.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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