



SAR EVALUATION REPORT

Applicant Name:

Samsung Electronics Co., Ltd.
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Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:

04/19/2021 – 06/20/2021

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

Document Serial No.:

1M2104190044-01.A3L (Rev 1)

FCC ID:

A3LSMF926B

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

SM-F926B

Additional Model(s):

SM-F926B/DS

Equipment Class	Band & Mode	Tx Frequency	SAR					
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phablet (W/kg)	1g UMPC Body (W/kg)	10g UMPC Extremity (W/kg)
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.11	0.17	0.32	N/A	0.58	1.16
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.16	0.39	1.72	0.60	2.46
PCE	UMTS 850	826.40 - 846.60 MHz	0.13	0.17	0.33	N/A	0.65	1.41
PCE	UMTS 1750	1712.4 - 1752.6 MHz	< 0.1	0.52	0.48	1.13	1.19	2.16
PCE	UMTS 1900	1852.4 - 1907.6 MHz	< 0.1	0.50	0.39	2.28	1.23	2.46
PCE	LTE Band 12	699.7 - 715.3 MHz	0.12	0.14	0.32	N/A	0.38	1.04
PCE	LTE Band 17	706.5 - 713.5 MHz	N/A	N/A	N/A	N/A	N/A	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.15	0.15	0.32	N/A	0.54	1.26
PCE	LTE Band 26 (Cell)	814.7 - 848.3 MHz	0.14	0.21	0.4	N/A	0.55	1.24
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	N/A	N/A	N/A	N/A	N/A	N/A
PCE	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	< 0.1	0.58	0.47	1.00	0.99	2.11
PCE	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A	N/A	N/A
PCE	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	< 0.1	0.31	0.32	2.07	1.04	2.17
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A	N/A	N/A	N/A	N/A	N/A
PCE	LTE Band 41	2498.5 - 2687.5 MHz	< 0.1	0.16	0.30	1.47	0.27	1.37
PCE	NR Band n5 (Cell)	826.5 - 846.5 MHz	0.13	0.17	0.37	N/A	0.59	1.30
PCE	NR Band n66 (AWS)	1712.5 - 1777.5 MHz	< 0.1	0.53	0.58	2.15	0.92	2.16
DTS	2.4 GHz WLAN	2412 - 2472 MHz	< 0.1	< 0.1	0.20	N/A	0.31	0.94
Nil	U-NII-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A	N/A	N/A
Nil	U-NII-2A	5260 - 5320 MHz	0.11	< 0.1	N/A	0.32	< 0.1	0.44
Nil	U-NII-2C	5500 - 5720 MHz	< 0.1	< 0.1	N/A	0.37	0.12	0.46
Nil	U-NII-3	5745 - 5825 MHz	< 0.1	< 0.1	< 0.1	N/A	0.10	0.40
DSS/DTs	Bluetooth	2402 - 2480 MHz	0.13	< 0.1	0.17	N/A	0.21	0.91
Simultaneous SAR per KDB 690783 D01v01R03:			0.90	0.80	1.40	3.12	1.59	3.96

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.


Randy Ortanez
President



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Test Dates: 04/19/21-06/20/21	DUT Type: Portable Handset			Page 1 of 185

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1 DEVICE UNDER TEST

1.1 Device Overview

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
U-NII-5	Voice/Data	5935 - 6415 MHz
U-NII-6	Voice/Data	6435 - 6525 MHz
U-NII-7	Voice/Data	6535 - 6875 MHz
U-NII-8	Voice/Data	6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 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.

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This device uses an independent fixed level power reduction mechanism for WLAN/BT operations during voice or VoIP held to ear, and 5G NR active 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.

1.3 Nominal and Maximum Output Power Specifications

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.

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

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	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 1900										
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	30.2	30.2	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.2	29.2	28.0	26.5	24.5	26.0	24.0	22.0	21.0
Hotspot Mode, Grip Sensor, and/or Earjack Active	Max allowed power	29.0	29.0	26.0	24.2	23.0	27.0	25.0	23.0	22.0
	Nominal	28.0	28.0	25.0	23.2	22.0	26.0	24.0	22.0	21.0

For GSM, the above powers listed are GSM burst average values.

UMTS Band 5 (850 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Max	Max allowed power	25.8	24.8	24.8	24.8
	Nominal	24.8	23.8	23.8	23.8
UMTS Band 4 (1750 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Max	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
Hotspot Mode, Grip Sensor, and/or Earjack Active	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
UMTS Band 2 (1900 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Max	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
Hotspot Mode, Grip Sensor, and/or Earjack Active	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0

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Mode / Band		Modulated Average Output Power (in dBm)	
		Max	Hotspot Mode, Grip Sensor, and/or Earjack Activated
LTE FDD Band 12	Max allowed power	25.8	25.8
	Nominal	24.8	24.8
LTE FDD Band 17	Max allowed power	25.8	25.8
	Nominal	24.8	24.8
LTE FDD Band 13	Max allowed power	25.8	25.8
	Nominal	24.8	24.8
LTE FDD Band 5	Max allowed power	25.8	25.8
	Nominal	24.8	24.8
LTE FDD Band 26	Max allowed power	25.8	25.8
	Nominal	24.8	24.8
LTE FDD Band 4	Max allowed power	25.5	19.0
	Nominal	24.5	18.0
LTE FDD Band 66	Max allowed power	25.5	19.0
	Nominal	24.5	18.0
LTE FDD Band 2	Max allowed power	25.0	19.0
	Nominal	24.0	18.0
LTE FDD Band 25	Max allowed power	25.0	19.0
	Nominal	24.0	18.0
LTE TDD Band 41 (PC3)	Max allowed power	23.0	19.0
	Nominal	22.0	18.0
LTE TDD Band 41 (PC2)	Max allowed power	26.0	19.0
	Nominal	25.0	18.0

For LTE TDD, the above powers listed are TDD burst average values.

Mode / Band		Modulated Average Output Power (in dBm)	
		Max	Hotspot Mode, Grip Sensor, and/or Earjack Activated
NR FDD Band n5	Max allowed power	25.5	25.5
	Nominal	24.5	24.5
NR FDD Band n66	Max allowed power	24.0	19.0
	Nominal	23.0	18.0

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

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		b		g		n		ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	18.0	19.0	17.0	18.0	17.0	18.0	17.0	18.0	21.0	22.0	20.0	21.0	20.0	21.0	20.0	21.0
		Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 11: 15.5 Ch. 12: 5.0 Ch. 13: -1.0	Ch. 11: 16.5 Ch. 12: 6.0 Ch. 13: 0.0	Ch. 11: 15.5 Ch. 12: 5.0 Ch. 13: -1.0	Ch. 11: 16.5 Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0	Ch. 11: 18.5 Ch. 12: 8.0 Ch. 13: 2.0	Ch. 11: 19.5 Ch. 12: 9.0 Ch. 13: 3.0	Ch. 11: 18.5 Ch. 12: 8.0 Ch. 13: 2.0	Ch. 11: 19.5 Ch. 12: 9.0 Ch. 13: 3.0

(Upper tolerance: target + 1.0 dB)

Mode	Single Antenna	
	Antenna 1 & Antenna 2	
	Nominal	Maximum
Bluetooth (in dBm)	16.5	17.5
Bluetooth EDR (in dBm)	13.5	14.5
Bluetooth LE 2Mbps (in dBm)	6.0	7.0
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	6.0	7.0

(Upper tolerance: target + 1.0 dB)

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1.3.3 2.4 GHz Reduced Bluetooth and SISO/MIMO 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 5/6 GHz WLAN
- Simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		b		g		n		ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	14.0 Ch. 12: 5.0 Ch. 13: -1.0	15.0 Ch. 12: 6.0 Ch. 13: 0.0	14.0 Ch. 12: 5.0 Ch. 13: -1.0	15.0 Ch. 12: 6.0 Ch. 13: 0.0	14.0 Ch. 12: 5.0 Ch. 13: -1.0	15.0 Ch. 12: 6.0 Ch. 13: 0.0	14.0 Ch. 12: 5.0 Ch. 13: -1.0	15.0 Ch. 12: 6.0 Ch. 13: 0.0	17.0 Ch. 12: 8.0 Ch. 13: 2.0	18.0 Ch. 12: 9.0 Ch. 13: 3.0	17.0 Ch. 12: 8.0 Ch. 13: 2.0	18.0 Ch. 12: 9.0 Ch. 13: 3.0	17.0 Ch. 12: 8.0 Ch. 13: 2.0	18.0 Ch. 12: 9.0 Ch. 13: 3.0	17.0 Ch. 12: 8.0 Ch. 13: 2.0	18.0 Ch. 12: 9.0 Ch. 13: 3.0

(Upper tolerance: target + 1.0 dB)

The below table is applicable in the following conditions:

- RCV Active
- RCV Active during simultaneous conditions with 5/6 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		b		g		n		ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	12.0 Ch. 12: 5.0 Ch. 13: -1.0	13.0 Ch. 12: 6.0 Ch. 13: 0.0	12.0 Ch. 12: 5.0 Ch. 13: -1.0	13.0 Ch. 12: 6.0 Ch. 13: 0.0	12.0 Ch. 12: 5.0 Ch. 13: -1.0	13.0 Ch. 12: 6.0 Ch. 13: 0.0	12.0 Ch. 12: 5.0 Ch. 13: -1.0	13.0 Ch. 12: 6.0 Ch. 13: 0.0	15.0 Ch. 12: 8.0 Ch. 13: 2.0	16.0 Ch. 12: 9.0 Ch. 13: 3.0	15.0 Ch. 12: 8.0 Ch. 13: 2.0	16.0 Ch. 12: 9.0 Ch. 13: 3.0	15.0 Ch. 12: 8.0 Ch. 13: 2.0	16.0 Ch. 12: 9.0 Ch. 13: 3.0	15.0 Ch. 12: 8.0 Ch. 13: 2.0	16.0 Ch. 12: 9.0 Ch. 13: 3.0

(Upper tolerance: target + 1.0 dB)

The below table is applicable in the following conditions:

- RCV Active during simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		b		g		n		ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	10.0 Ch. 12: 5.0 Ch. 13: -1.0	11.0 Ch. 12: 6.0 Ch. 13: 0.0	10.0 Ch. 12: 5.0 Ch. 13: -1.0	11.0 Ch. 12: 6.0 Ch. 13: 0.0	10.0 Ch. 12: 5.0 Ch. 13: -1.0	11.0 Ch. 12: 6.0 Ch. 13: 0.0	10.0 Ch. 12: 5.0 Ch. 13: -1.0	11.0 Ch. 12: 6.0 Ch. 13: 0.0	13.0 Ch. 12: 8.0 Ch. 13: 2.0	14.0 Ch. 12: 9.0 Ch. 13: 3.0	13.0 Ch. 12: 8.0 Ch. 13: 2.0	14.0 Ch. 12: 9.0 Ch. 13: 3.0	13.0 Ch. 12: 8.0 Ch. 13: 2.0	14.0 Ch. 12: 9.0 Ch. 13: 3.0	13.0 Ch. 12: 8.0 Ch. 13: 2.0	14.0 Ch. 12: 9.0 Ch. 13: 3.0

(Upper tolerance: target + 1.0 dB)

The below table is applicable in the following conditions:

- RCV active

Mode	Single Antenna	
	Antenna 1 & Antenna 2	
	Nominal	Maximum
Bluetooth (in dBm)	9.5	10.5
Bluetooth EDR (in dBm)	9.5	10.5
Bluetooth LE 2Mbps (in dBm)	6.0	7.0
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	6.0	7.0

(Upper tolerance: target + 1.0 dB)

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The below table is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN

Mode	Single Antenna	
	Antenna 1 & Antenna 2	
	Nominal	Maximum
Bluetooth (in dBm)	11.0	12.0
Bluetooth EDR (in dBm)	11.0	12.0
Bluetooth LE 2Mbps (in dBm)	6.0	7.0
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	6.0	7.0

(Upper tolerance: target + 1.0 dB)

The below table is applicable in the following conditions:

- Simultaneous conditions with 5G NR

Mode	Single Antenna	
	Antenna 1 & Antenna 2	
	Nominal	Maximum
Bluetooth (in dBm)	14.5	15.5
Bluetooth EDR (in dBm)	13.5	14.5
Bluetooth LE 2Mbps (in dBm)	6.0	7.0
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	6.0	7.0

(Upper tolerance: target + 1.0 dB)

1.3.4 5 GHz Maximum SISO/MIMO WLAN Output Power

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

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WiFi (20MHz BW)	5200 MHz	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
	5300 MHz	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
	5500 MHz	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
	5800 MHz	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
5 GHz WiFi (40MHz BW)	5200 MHz			16.0	17.0	16.0	17.0	16.0	17.0			19.0	20.0	19.0	20.0	19.0	20.0
	5300 MHz			16.0	17.0	16.0	17.0	16.0	17.0			19.0	20.0	19.0	20.0	19.0	20.0
	5500 MHz			16.0	17.0	16.0	17.0	16.0	17.0			19.0	20.0	19.0	20.0	19.0	20.0
	5800 MHz			16.0	17.0	16.0	17.0	16.0	17.0			19.0	20.0	19.0	20.0	19.0	20.0
5 GHz WiFi (80MHz BW)	5200 MHz					15.0	16.0	15.0	16.0					18.0	19.0	18.0	19.0
	5300 MHz					15.0	16.0	15.0	16.0					18.0	19.0	18.0	19.0
	5500 MHz					15.0	16.0	15.0	16.0					18.0	19.0	18.0	19.0
	5800 MHz					15.0	16.0	15.0	16.0					18.0	19.0	18.0	19.0
5 GHz WiFi (160MHz BW)	5250 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
	5570 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0

(Upper tolerance: target + 1.0 dB)

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1.3.5 5 GHz Reduced SISO/MIMO 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 2.4 GHz WLAN
- Simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WiFi (20MHz BW)	5200 MHz	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	5300 MHz	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	5500 MHz	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	5800 MHz	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
5 GHz WiFi (40MHz BW)	5200 MHz			14.0	15.0	14.0	15.0	14.0	15.0			17.0	18.0	17.0	18.0	17.0	18.0
	5300 MHz			14.0	15.0	14.0	15.0	14.0	15.0			17.0	18.0	17.0	18.0	17.0	18.0
	5500 MHz			14.0	15.0	14.0	15.0	14.0	15.0			17.0	18.0	17.0	18.0	17.0	18.0
	5800 MHz			14.0	15.0	14.0	15.0	14.0	15.0			17.0	18.0	17.0	18.0	17.0	18.0
5 GHz WiFi (80MHz BW)	5200 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
	5300 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
	5500 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
	5800 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
5 GHz WiFi (160MHz BW)	5250 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
	5570 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0

(Upper tolerance: target + 1.0 dB)

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

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WiFi (20MHz BW)	5200 MHz	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	5300 MHz	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	5500 MHz	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	5800 MHz	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
5 GHz WiFi (40MHz BW)	5200 MHz			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
	5300 MHz			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
	5500 MHz			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
	5800 MHz			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
5 GHz WiFi (80MHz BW)	5200 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	5300 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	5500 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	5800 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
5 GHz WiFi (160MHz BW)	5250 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	5570 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0

(Upper tolerance: target + 1.0 dB)

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1.4 DUT Antenna Locations

The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in Appendix E. This device is considered a "phablet" when it is in closed configuration and a "UMPC mini-tablet" when it is in open configuration. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filing.

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

Mode	Back	Front	Top	Bottom	Right	Left
GPRS 850 Ant A	Yes	Yes	No	Yes	Yes	No
GPRS 850 Ant A + B	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850 Ant A	Yes	Yes	No	Yes	Yes	No
UMTS 850 Ant A + B	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 Ant A + B	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12 Ant A	Yes	Yes	No	Yes	Yes	No
LTE Band 13 Ant A + B	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13 Ant A	Yes	Yes	No	Yes	Yes	No
LTE Band 26 (Cell) Ant A	Yes	Yes	No	Yes	Yes	No
LTE Band 26 (Cell) Ant A + B	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	Yes	Yes
NR Band n5 (Cell) Ant A	Yes	Yes	No	Yes	Yes	No
NR Band n5 (Cell) Ant A + B	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	Yes	Yes	No	Yes
5 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	No	Yes
2.4 GHz Bluetooth Ant 1	Yes	Yes	Yes	No	No	Yes
2.4 GHz Bluetooth Ant 2	Yes	Yes	No	Yes	No	Yes

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Table 1-2
Device Edges/Sides for Open Configuration SAR Testing

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

Note: Particular DUT edges were not required to be evaluated for wireless router SAR, phablet SAR, or UMPC mini-tablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III, FCC KDB Publication 941225 D07v01r02, 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.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	UMPC Body	UMPC Extremity	Notes
1	GSM voice + 2.4 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
2	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
3	GSM voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
4	GSM voice + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
5	GSM voice + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
6	GSM voice + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
7	GSM voice + 5 GHz WLAN Ant 1	Yes	Yes	N/A	Yes	Yes	Yes	
8	GSM voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
9	GSM voice + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
10	GSM voice + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
11	GSM voice + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
12	GSM voice + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
13	GSM voice + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
14	GSM voice + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
15	GSM voice + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
16	UMTS + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
17	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
18	UMTS + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
19	UMTS + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
20	UMTS + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
21	UMTS + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
22	UMTS + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	Yes	Yes	
23	UMTS + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
24	UMTS + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
25	UMTS + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
26	UMTS + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
27	UMTS + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
28	UMTS + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
29	UMTS + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
30	UMTS + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
31	LTE + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
32	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
33	LTE + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
34	LTE + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
35	LTE + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
36	LTE + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
37	LTE + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	Yes	Yes	
38	LTE + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
39	LTE + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
40	LTE + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
41	LTE + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
42	LTE + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
43	LTE + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
44	LTE + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
45	LTE + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
46	LTE + NR	Yes	Yes	N/A	Yes	Yes	Yes	
47	LTE + NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
48	LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
49	LTE + NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
50	LTE + NR + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
51	LTE + NR + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
52	LTE + NR + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
53	LTE + NR + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	Yes	Yes	
54	LTE + NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
55	LTE + NR + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
56	LTE + NR + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
57	LTE + NR + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
58	LTE + NR + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
59	LTE + NR + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
60	LTE + NR + 2.4 GHz Bluetooth Ant 1	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
61	LTE + NR + 2.4 GHz Bluetooth Ant 2	Yes ^a	Yes	Yes ^a	Yes	Yes	Yes	^a Bluetooth Tethering is considered
62	NR + 2.4 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
63	NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
64	NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
65	NR + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes**	Yes*	Yes*	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^a Bluetooth Tethering is considered
66	NR + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes**	Yes*	Yes*	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^a Bluetooth Tethering is considered
67	NR + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes**	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^a Bluetooth Tethering is considered
68	NR + 5 GHz WLAN Ant 1	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
69	NR + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
70	NR + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes**	Yes*	Yes*	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^a Bluetooth Tethering is considered
71	NR + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes**	Yes*	Yes*	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^a Bluetooth Tethering is considered
72	NR + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
73	NR + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes**	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^a Bluetooth Tethering is considered
74	NR + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes**	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^a Bluetooth Tethering is considered
75	NR + 2.4 GHz Bluetooth Ant 1	Yes**	Yes*	Yes*	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^a Bluetooth Tethering is considered
76	NR + 2.4 GHz Bluetooth Ant 2	Yes**	Yes*	Yes*	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^a Bluetooth Tethering is considered
77	GPRS/EDGE + 2.4 GHz WLAN MIMO	N/A	N/A	Yes	Yes	Yes	Yes	
78	GPRS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	Yes	Yes	
79	GPRS/EDGE + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	Yes	
80	GPRS/EDGE + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes*	Yes	Yes	Yes	^a Bluetooth Tethering is considered
81	GPRS/EDGE + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes*	Yes	Yes	Yes	^a Bluetooth Tethering is considered
82	GPRS/EDGE + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	N/A	N/A	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
83	GPRS/EDGE + 5 GHz WLAN Ant 1	N/A	N/A	Yes	Yes	Yes	Yes	
84	GPRS/EDGE + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	Yes	Yes	
85	GPRS/EDGE + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes*	Yes	Yes	Yes	^a Bluetooth Tethering is considered
86	GPRS/EDGE + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	N/A	N/A	Yes*	Yes	Yes	Yes	^a Bluetooth Tethering is considered
87	GPRS/EDGE + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	Yes	
88	GPRS/EDGE + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	N/A	N/A	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
89	GPRS/EDGE + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	N/A	N/A	N/A	Yes	Yes	Yes	^a Bluetooth Tethering is considered
90	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes*	Yes	Yes	Yes	^a Bluetooth Tethering is considered
91	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2	N/A	N/A	Yes*	Yes	Yes	Yes	^a Bluetooth Tethering is considered

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1. 2.4 GHz WLAN Ant 1, and 2.4 GHz Bluetooth 1 share the same antenna path and cannot transmit simultaneously.
2. 2.4 GHz Bluetooth can simultaneously transmit with 5 GHz WLAN MIMO, not 5 GHz WLAN SISO.
3. All licensed modes cannot transmit simultaneously with 2.4/5 GHz WLAN SISO.
4. All licensed modes share the same antenna path and cannot transmit simultaneously.
5. 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.
6. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
7. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII-2A, and U-NII-2C were not evaluated for wireless router conditions.
8. 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. Each WLAN antenna can transmit independently or together when operating with MIMO.
9. This device supports VOLTE.
10. This device supports VOWIFI.
11. This device supports Bluetooth Tethering.
12. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
13. 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.

1.7 Miscellaneous SAR Test Considerations

(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 160 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" when it is in a closed configuration 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.

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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.

This device supports 6 GHz WIFI Operations. RF Exposure assessment for these bands can be found in the WIFI 6 GHz RF Exposure Report (report SN can be found in Section 1.10 – Bibliography). Simultaneous transmission analysis is addressed in section 12 of this report.

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 F.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" when it is in closed configuration 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 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 14.2).

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This device supports 64QAM and 256QAM on the uplink and 256QAM on the downlink for LTE Operations. Conducted powers for 64QAM and 256QAM uplink configurations were measured per Section 5.1 of FCC KDB Publication 941225D05v02r05. SAR was not required for 64QAM or 256QAM since the highest maximum output power for 64QAM and 256QAM is $\leq \frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg, per Section 5.2.4 of FCC KDB Publication 941225 D05v02r05.

NR implementation supports SA and NSA modes. NR implementation in EN-DC mode 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 Anchor Bands were performed separately due to limitations in SAR probe calibration factors. Please see Section 11 for more details.

NR Test Configurations were selected per the following guidelines per FCC guidance:

1. MPR is permanently implemented per 3GPP standards. Conducted power and SAR test configurations were identified for RB configurations/modulations with MPR=0 dB as the most conservative SAR scenarios. 1 RB and 50% RB allocations with a low, mid and high offset within the "Inner RB allocation" range were selected to identify the configurations with the highest power.
2. The SAR test guidance outlined in section 5 of KDB 941225 D05 was generally adapted for the NR testing. DFT-S-OFDM QPSK was used as the lowest order modulation. Additional modulations were not required since conducted power was not > 0.5 dB higher than the lowest order modulation.
3. All available SCS settings for this device were evaluated. The NR checklist contains information about the SCS settings per band.

For 2G/3G/4G/5G bands operating < 1 GHz, this device can transmit with Ant A or with Ant A+ Ant B. The RF path for both conditions is identical, therefore separate conducted powers are not required for these conditions. For closed phablet test conditions, both Ant A and Ant A + Ant B conditions were fully evaluated for all exposure conditions. For open UMPC Body or UMPC Extremity conditions, only Ant A + Ant B conditions are supported as described in the operational description.

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)
- FCC KDB Publication 941225 D07v01r02 (UMPC Mini-Tablet Devices)

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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.

1.10 Bibliography

Report Type	Report Serial Number
WIFI 6GHz RF exposure	1M2104190044-23.A3L

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)		710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A		782 (23230)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)	844 (26990)	
LTE Band 26 (Cell): 15 MHz	821.5 (26765)		831.5 (26865)	841.5 (26965)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)	844 (20600)	
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)	1770 (132572)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)	1745 (20300)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)	1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)	1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)	1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)	1905 (26590)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)	1908.3 (19183)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)	1900 (19100)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	DL UE Cat 20, UL UE Cat 18				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release. It supports carrier aggregation, downlink MIMO, as shown in Section 9 and Appendix F. 15. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 15 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information			
Form Factor	Portable Handset		
Frequency Range of each NR 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		
	NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz		
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-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM		
NR MPR Permanently implemented per 3GPP TS 38.101	YES		
A-MPR (Additional MPR) disabled for SAR Testing?	YES		
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations		
LTE Anchor Bands for NR Band n5 (Cell)	LTE Band 2/66		
LTE Anchor Bands for NR Band n66 (AWS)	LTE Band 5/12		

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3 INTRODUCTION

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:

1. 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.
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.

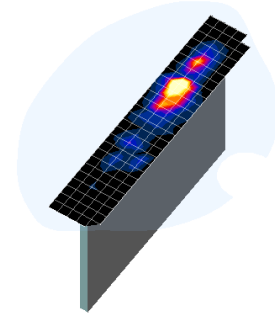


Figure 4-1
Sample SAR Area Scan

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

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥22

*Also compliant to IEEE 1528-2013 Table 6

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5 DEFINITION OF REFERENCE POINTS

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].

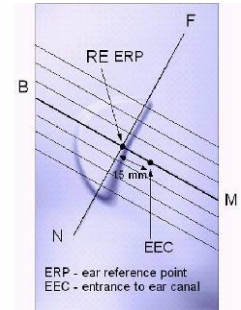


Figure 5-1
Close-Up Side view of ERP

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 then 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

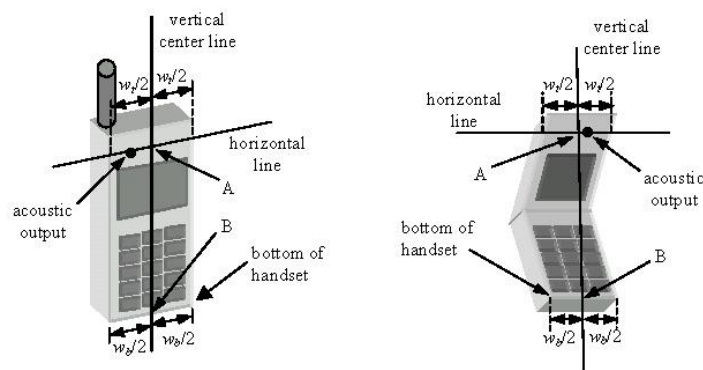


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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6 TEST CONFIGURATION POSITIONS

6.1 Device Holder

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

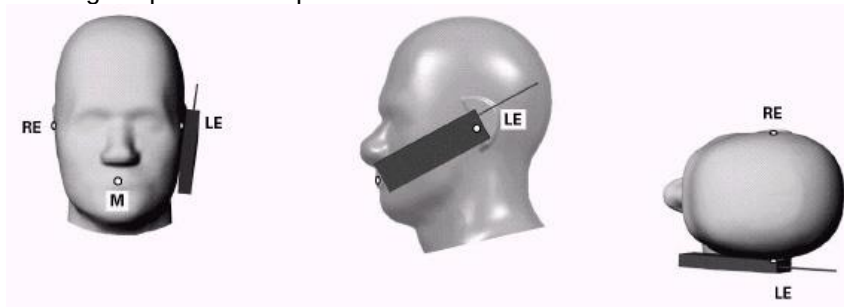


Figure 6-1 Front, Side and Top View of Cheek Position

2. The handset was translated towards the phantom along the line passing through RE & LE until the 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.
4. The phone was then rotated around the vertical centerline until the phone (horizontal line) was symmetrical with 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

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 15 degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. 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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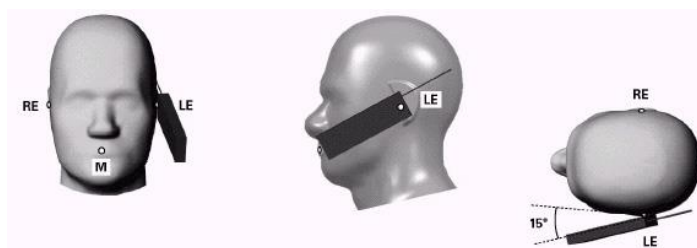


Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position

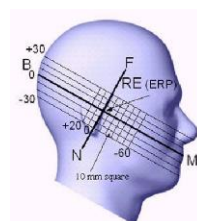


Figure 6-3 Side view w/ relevant markings

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 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.

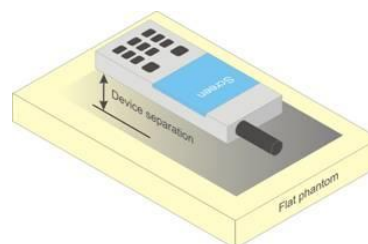


Figure 6-4 Sample Body-Worn Diagram

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that

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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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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.

6.8 Phablet Configurations

For smart phones with a display diagonal dimension $> 150 \text{ mm}$ or an overall diagonal dimension $> 160 \text{ mm}$ 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

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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 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR Exclusion Threshold in KDB 447498 D01v06 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

6.10 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 non-reduced 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

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (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

1. 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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8 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.

8.2 3G SAR Test Reduction Procedure

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 Sub-test 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 $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

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.

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

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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 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

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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 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

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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 RF CONDUCTED POWERS

9.1 GSM Conducted Powers

Table 9-1
Maximum Conducted Power

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
GSM 850	128	32.49	32.47	31.24	29.27	27.29	26.41	25.10	23.10	22.00
	190	32.18	32.17	31.29	29.47	27.41	26.52	25.14	23.17	22.13
	251	32.39	32.36	31.24	29.25	27.29	26.40	25.00	23.00	21.70
GSM 1900	512	29.08	29.17	27.76	25.87	24.24	25.23	24.05	22.11	20.24
	661	29.10	29.17	28.11	26.49	24.79	25.33	24.19	21.70	21.33
	810	29.44	29.52	28.53	27.11	24.86	25.57	24.32	22.38	21.40

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
GSM 850	128	23.29	23.27	25.05	24.84	24.11	17.21	18.91	18.67	18.82
	190	22.98	22.97	25.10	25.04	24.23	17.32	18.95	18.74	18.95
	251	23.19	23.16	25.05	24.82	24.11	17.20	18.81	18.57	18.52
GSM 1900	512	19.88	19.97	21.57	21.44	21.06	16.03	17.86	17.68	17.06
	661	19.90	19.97	21.92	22.06	21.61	16.13	18.00	17.27	18.15
	810	20.24	20.32	22.34	22.68	21.68	16.37	18.13	17.95	18.22

GSM 850	Frame	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82
GSM 1900	Avg. Targets:	20.00	20.00	21.81	22.07	21.32	16.80	17.81	17.57	17.82

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Table 9-2
Reduced Conducted Power for Hotspot, Grip Sensor, and/or Earjack Mode Active

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
GSM 1900	512	27.94	28.03	24.84	22.98	21.49	25.31	24.03	22.20	20.16
	661	28.24	28.36	25.22	23.32	21.84	25.30	24.23	22.16	21.21
	810	28.15	28.25	25.31	23.46	21.97	25.50	24.26	22.40	21.26

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
GSM 1900	512	18.74	18.83	18.65	18.55	18.31	16.11	17.84	17.77	16.98
	661	19.04	19.16	19.03	18.89	18.66	16.10	18.04	17.73	18.03
	810	18.95	19.05	19.12	19.03	18.79	16.30	18.07	17.97	18.08

GSM 1900	Frame Avg. Targets:	18.80	18.80	18.81	18.77	18.82	16.80	17.81	17.57	17.82
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Note:

- 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.
- 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.
- 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 9-3
Maximum Conducted Power

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	24.53	24.50	24.41	23.45	23.50	23.87	23.20	23.24	23.78	-
99		12.2 kbps AMR	24.54	24.52	24.43	23.00	23.34	23.72	23.03	23.05	23.78	-
6	HSDPA	Subtest 1	23.54	23.51	23.45	23.20	23.27	23.41	23.07	23.18	23.46	0
6		Subtest 2	23.56	23.51	23.46	23.21	23.29	23.42	23.05	23.13	23.44	0
6		Subtest 3	23.06	23.01	22.96	22.69	22.77	22.90	22.54	22.63	22.94	0.5
6		Subtest 4	23.05	23.01	22.95	22.68	22.77	22.90	22.54	22.64	22.93	0.5
6	HSUPA	Subtest 1	23.40	23.38	23.30	22.93	23.00	23.14	22.82	22.91	23.19	0
6		Subtest 2	21.39	21.35	21.30	20.92	20.99	21.10	20.76	20.87	21.14	2
6		Subtest 3	22.39	22.33	22.29	21.91	22.00	22.13	21.75	21.85	22.14	1
6		Subtest 4	21.37	21.34	21.28	20.92	21.00	21.13	20.81	20.86	21.16	2
6		Subtest 5	23.39	23.34	23.27	22.94	23.02	23.17	22.84	22.94	23.18	0
8	DC-HSDPA	Subtest 1	23.39	23.35	23.31	22.92	23.03	23.16	22.83	22.96	23.23	0
8		Subtest 2	23.40	23.35	23.31	22.91	23.00	23.15	22.82	22.94	23.19	0
8		Subtest 3	22.88	22.85	22.77	22.42	22.54	22.69	22.31	22.43	22.69	0.5
8		Subtest 4	22.90	22.86	22.80	22.44	22.51	22.66	22.34	22.44	22.71	0.5

Table 9-4
Reduced Conducted Power for Hotspot, Grip Sensor, and/or Earjack Mode Active

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	18.19	18.23	18.37	18.05	18.14	18.44	-
99		12.2 kbps AMR	18.18	18.27	18.40	18.07	18.14	18.47	-
6	HSDPA	Subtest 1	17.14	17.27	17.45	16.99	17.10	17.42	0
6		Subtest 2	17.11	17.17	17.31	17.01	17.08	17.39	0
6		Subtest 3	16.61	16.67	16.82	16.49	16.61	16.89	0.5
6		Subtest 4	16.61	16.69	16.83	16.51	16.60	16.88	0.5
6	HSUPA	Subtest 1	16.87	16.91	17.01	16.70	16.81	17.08	0
6		Subtest 2	14.87	14.89	15.01	14.68	14.77	15.02	2
6		Subtest 3	15.86	15.91	16.06	15.65	15.75	16.07	1
6		Subtest 4	14.82	14.91	15.01	14.70	14.82	15.06	2
6		Subtest 5	16.85	16.93	17.06	16.75	16.85	17.14	0
8	DC-HSDPA	Subtest 1	16.90	17.02	17.12	16.81	16.91	17.15	0
8		Subtest 2	16.92	16.97	17.11	16.78	16.91	17.19	0
8		Subtest 3	16.42	16.50	16.64	16.29	16.42	16.66	0.5
8		Subtest 4	16.38	16.48	16.66	16.30	16.39	16.66	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

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 H.

9.3.1 LTE Band 12

Table 9-5
LTE Band 12 Maximum Conducted Powers – 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.01	0	0
	1	25	24.97		0
	1	49	24.81		0
	25	0	23.92	0-1	1
	25	12	24.05		1
	25	25	23.96		1
	50	0	23.88		1
16QAM	1	0	24.22	0-1	1
	1	25	24.34		1
	1	49	24.13		1
	25	0	22.90	0-2	2
	25	12	23.04		2
	25	25	22.93		2
	50	0	22.90		2
64QAM	1	0	23.11	0-2	2
	1	25	23.10		2
	1	49	23.05		2
	25	0	21.91	0-3	3
	25	12	22.09		3
	25	25	22.08		3
	50	0	21.93		3
256QAM	1	0	19.85	0-5	5
	1	25	20.04		5
	1	49	19.80		5
	25	0	19.91		5
	25	12	20.02		5
	25	25	20.00		5
	50	0	19.94		5

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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9.3.1 LTE Band 13

Table 9-6
LTE Band 13 Maximum Conducted Powers – 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.90	0	0
	1	25	24.75		0
	1	49	24.82		0
	25	0	23.93	0-1	1
	25	12	23.95		1
	25	25	23.88		1
	50	0	23.87		1
16QAM	1	0	24.32	0-1	1
	1	25	24.30		1
	1	49	24.28		1
	25	0	22.98	0-2	2
	25	12	22.95		2
	25	25	22.93		2
	50	0	22.88		2
64QAM	1	0	23.21	0-2	2
	1	25	23.09		2
	1	49	23.04		2
	25	0	21.98	0-3	3
	25	12	21.97		3
	25	25	21.92		3
	50	0	21.86		3
256QAM	1	0	19.85	0-5	5
	1	25	19.94		5
	1	49	19.79		5
	25	0	19.88		5
	25	12	19.90		5
	25	25	19.88		5
	50	0	19.90		5

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9.3.1 LTE Band 26

Table 9-7
LTE Band 26 (Cell) Maximum Conducted Powers – 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.68	0	0
	1	36	24.62		0
	1	74	24.64		0
	36	0	23.68	0-1	1
	36	18	23.70		1
	36	37	23.66		1
	75	0	23.62		1
16QAM	1	0	24.09	0-1	1
	1	36	24.05		1
	1	74	23.89		1
	36	0	22.47	0-2	2
	36	18	22.48		2
	36	37	22.50		2
	75	0	22.43		2
64QAM	1	0	22.73	0-2	2
	1	36	22.76		2
	1	74	22.73		2
	36	0	21.57	0-3	3
	36	18	21.55		3
	36	37	21.55		3
	75	0	21.44		3
256QAM	1	0	19.47	0-5	5
	1	36	19.66		5
	1	74	19.52		5
	36	0	19.47		5
	36	18	19.57		5
	36	37	19.50		5
	75	0	19.45		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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9.3.1 LTE Band 66

Table 9-8
LTE Band 66 (AWS) Maximum Conducted Powers – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.18	24.20	24.58	0	0
	1	50	24.47	24.41	24.49		0
	1	99	24.23	24.27	24.11		0
	50	0	23.61	23.50	23.53	0-1	1
	50	25	23.71	23.64	23.75		1
	50	50	23.58	23.58	23.57		1
	100	0	23.61	23.54	23.55		1
16QAM	1	0	23.45	23.57	23.85	0-1	1
	1	50	23.81	23.78	23.81		1
	1	99	23.65	23.69	23.45		1
	50	0	22.64	22.54	22.51	0-2	2
	50	25	22.70	22.61	22.70		2
	50	50	22.60	22.62	22.57		2
	100	0	22.62	22.55	22.55		2
64QAM	1	0	21.84	21.82	22.51	0-2	2
	1	50	22.37	22.20	22.31		2
	1	99	22.11	21.92	21.90		2
	50	0	20.97	20.80	21.16	0-3	3
	50	25	21.27	21.01	21.15		3
	50	50	21.36	21.29	21.17		3
	100	0	21.02	21.00	21.11		3
256QAM	1	0	19.54	19.35	19.42	0-5	5
	1	50	19.67	19.68	19.65		5
	1	99	19.46	19.59	19.58		5
	50	0	19.69	19.53	19.53		5
	50	25	19.67	19.66	19.65		5
	50	50	19.55	19.54	19.54		5
	100	0	19.60	19.57	19.47		5

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

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.82	18.02	18.38	0	0
	1	50	18.01	18.26	18.27		0
	1	99	17.78	18.02	18.22		0
	50	0	18.33	18.27	18.30	0-1	0
	50	25	18.36	18.40	18.41		0
	50	50	18.24	18.29	18.26		0
	100	0	18.27	18.33	18.24		0
16QAM	1	0	18.23	18.47	18.86	0-1	0
	1	50	18.43	18.62	18.73		0
	1	99	18.23	18.56	18.84		0
	50	0	18.35	18.29	18.27	0-2	0
	50	25	18.39	18.39	18.40		0
	50	50	18.28	18.29	18.27		0
	100	0	18.29	18.33	18.27		0
64QAM	1	0	18.34	18.11	18.33	0-2	0
	1	50	18.56	18.41	18.28		0
	1	99	18.28	18.17	18.33		0
	50	0	18.38	18.35	18.38	0-3	0
	50	25	18.40	18.47	18.48		0
	50	50	18.29	18.36	18.32		0
	100	0	18.27	18.41	18.32		0
256QAM	1	0	18.24	18.23	18.04	0-5	0
	1	50	18.43	18.53	18.37		0
	1	99	18.21	18.27	18.09		0
	50	0	18.38	18.32	18.37		0
	50	25	18.41	18.44	18.47		0
	50	50	18.32	18.33	18.36		0
	100	0	18.35	18.35	18.32		0

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9.3.1 LTE Band 25

Table 9-10
LTE Band 25 (PCS) Maximum Conducted Powers – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.13	24.14	24.02	0	0
	1	50	24.11	24.15	24.20		0
	1	99	24.18	24.22	24.25		0
	50	0	23.18	23.19	23.06	0-1	1
	50	25	23.28	23.20	23.13		1
	50	50	23.21	23.23	23.30		1
	100	0	23.27	23.27	23.20		1
16QAM	1	0	22.97	23.16	23.17	0-1	1
	1	50	22.84	23.00	23.21		1
	1	99	23.08	23.15	23.00		1
	50	0	22.03	21.99	22.12	0-2	2
	50	25	22.04	22.01	22.24		2
	50	50	22.08	22.13	22.11		2
	100	0	21.91	22.00	22.01		2
64QAM	1	0	21.60	21.90	22.36	0-2	2
	1	50	22.00	22.34	21.79		2
	1	99	21.57	22.43	21.93		2
	50	0	20.63	20.87	21.00	0-3	3
	50	25	20.61	21.07	20.91		3
	50	50	20.67	21.15	21.13		3
	100	0	20.34	21.12	21.05		3
256QAM	1	0	18.85	18.66	18.60	0-5	5
	1	50	19.08	19.15	18.70		5
	1	99	18.71	19.34	18.49		5
	50	0	18.77	18.89	19.00		5
	50	25	18.99	18.90	19.11		5
	50	50	18.94	18.91	19.01		5
	100	0	18.91	18.94	19.01		5

Table 9-11
LTE Band 25 (PCS) Reduced Conducted Powers for Hotspot, Grip Sensor, and/or Earjack Mode Active – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.03	18.24	18.36	0	0
	1	50	18.01	18.28	18.44		0
	1	99	18.09	18.39	18.49		0
	50	0	18.25	18.32	18.42	0-1	0
	50	25	18.32	18.34	18.46		0
	50	50	18.34	18.45	18.56		0
16QAM	100	0	18.24	18.30	18.37	0-1	0
	1	0	18.41	18.64	18.90		0
	1	50	18.47	18.75	18.96		0
	1	99	18.56	18.84	18.97	0-2	0
	50	0	18.25	18.29	18.44		0
	50	25	18.34	18.32	18.42		0
64QAM	50	50	18.41	18.41	18.55	0-2	0
	100	0	18.23	18.33	18.37		0
	1	0	18.39	18.32	18.42	0-3	0
	1	50	18.48	18.45	18.52		0
	1	99	18.51	18.54	18.52		0
	50	0	18.25	18.36	18.53	0-5	0
50	25	18.33	18.38	18.54	0		
50	50	18.38	18.51	18.64	0		
256QAM	100	0	18.22	18.37	18.44	0-5	0
	1	0	17.99	18.05	18.05		0
	1	50	18.48	18.55	18.50		0
	1	99	18.26	18.36	18.30		0
	50	0	18.16	18.20	18.36		0
	50	25	18.37	18.38	18.52		0
50	50	18.35	18.40	18.56	0		
100	0	18.29	18.30	18.45	0		

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9.3.1 LTE Band 41

Table 9-12
LTE Band 41 PC3 Maximum Conducted Powers – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	22.14	22.03	21.72	22.12	21.79	0	0
	1	50	22.11	21.96	22.00	22.55	22.12		0
	1	99	22.06	21.95	21.78	21.91	21.98		0
	50	0	21.11	20.94	20.92	21.30	21.07	0-1	1
	50	25	21.27	21.08	21.15	21.34	21.15		1
	50	50	21.18	20.96	21.07	21.31	21.09		1
	100	0	21.19	20.99	21.08	21.25	21.05		1
16QAM	1	0	21.62	21.10	21.13	21.20	20.91	0-1	1
	1	50	21.57	21.08	21.56	21.42	21.20		1
	1	99	21.50	21.05	21.26	21.12	21.01		1
	50	0	20.11	19.95	19.95	20.31	20.10	0-2	2
	50	25	20.27	20.10	20.18	20.38	20.13		2
	50	50	20.17	19.96	20.13	20.34	20.11		2
	100	0	20.19	20.00	20.06	20.26	20.05		2
64QAM	1	0	19.85	20.03	19.92	20.06	19.80	0-2	2
	1	50	19.73	20.07	20.38	20.40	20.16		2
	1	99	19.68	20.06	20.07	20.02	19.95		2
	50	0	19.13	19.03	19.02	19.37	19.13	0-3	3
	50	25	19.30	19.20	19.25	19.45	19.21		3
	50	50	19.21	19.05	19.19	19.39	19.15		3
	100	0	19.25	19.05	19.12	19.36	19.10		3
256QAM	1	0	16.88	16.85	16.80	17.26	16.96	0-5	5
	1	50	17.19	17.22	16.99	17.58	17.31		5
	1	99	16.89	16.78	16.98	17.15	17.10		5
	50	0	17.15	16.97	16.95	17.34	17.12		5
	50	25	17.28	17.14	17.19	17.43	17.16		5
	50	50	17.25	17.02	17.09	17.35	17.11		5
	100	0	17.24	17.06	17.06	17.32	17.10		5

Table 9-13

LTE Band 41 PC3 Reduced Conducted Powers for Hotspot, Grip Sensor, and/or Earjack Mode Active – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	18.26	17.99	17.69	18.09	17.73	0	0
	1	50	18.25	17.95	18.07	18.32	18.05		0
	1	99	18.27	17.89	17.84	17.91	17.96		0
	50	0	18.16	17.94	18.03	18.33	18.11	0-1	0
	50	25	18.34	18.10	18.25	18.39	18.17		0
	50	50	18.24	17.95	18.21	18.36	18.12		0
	100	0	18.24	17.99	18.17	18.28	18.05		0
16QAM	1	0	18.64	18.47	18.22	18.45	18.24	0-1	0
	1	50	18.56	18.45	18.43	18.50	18.45		0
	1	99	18.55	18.49	18.28	18.40	18.37		0
	50	0	18.14	17.98	18.06	18.34	18.12	0-2	0
	50	25	18.30	18.10	18.27	18.40	18.17		0
	50	50	18.28	17.98	18.20	18.35	18.14		0
	100	0	18.29	18.01	18.17	18.27	18.09		0
64QAM	1	0	18.55	17.59	17.60	17.61	17.65	0-2	0
	1	50	18.52	17.61	17.77	17.98	17.74		0
	1	99	18.48	17.64	17.50	17.55	17.53		0
	50	0	18.22	17.98	18.08	18.33	18.16	0-3	0
	50	25	18.38	18.13	18.30	18.40	18.21		0
	50	50	18.28	17.98	18.24	18.36	18.17		0
	100	0	18.27	18.04	18.21	18.33	18.14		0
256QAM	1	0	17.06	16.73	16.80	17.06	16.90	0-5	1
	1	50	17.36	17.11	17.21	17.44	17.20		1
	1	99	17.10	16.70	16.94	17.05	16.94		1
	50	0	17.18	17.01	17.10	17.37	17.17		1
	50	25	17.36	17.15	17.32	17.41	17.18		1
	50	50	17.28	16.99	17.25	17.37	17.21		1
	100	0	17.27	17.05	17.24	17.35	17.15		1

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Table 9-14
LTE Band 41 PC2 Maximum Conducted Powers – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	25.39	25.03	24.86	25.20	24.75	0	0
	1	50	25.35	25.00	25.23	25.40	25.12		0
	1	99	25.32	25.04	25.00	25.04	24.95		0
	50	0	24.23	24.05	24.11	24.40	24.20	0-1	1
	50	25	24.44	24.16	24.35	24.45	24.23		1
	50	50	24.35	24.05	24.28	24.41	24.20		1
	100	0	24.35	24.10	24.25	24.38	24.15		1

Table 9-15
LTE Band 41 Reduced Conducted Powers for Hotspot, Grip Sensor, and/or Earjack Mode Active – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	18.28	18.06	17.80	18.10	18.24	0	0
	1	50	18.22	18.00	18.15	18.36	18.22		0
	1	99	18.19	18.01	17.90	17.98	18.19		0
	50	0	18.14	17.94	18.04	18.31	18.14	0-1	0
	50	25	18.35	18.10	18.22	18.36	18.30		0
	50	50	18.26	17.96	18.18	18.32	18.22		0
	100	0	18.25	17.99	18.18	18.29	18.23		0

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9.4 NR Conducted Powers

Note: 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 H.

9.4.1 NR Band n5

Table 9-16
NR Band n5 Maximum Conducted Powers – 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.48	0	0.0
	1	53	24.46		0.0
	1	104	24.36		0.0
	50	0	23.97	0-0.5	0.5
	50	28	24.45	0	0.0
	50	56	23.92	0-0.5	0.5
	100	0	24.00		0.5
DFT-s-OFDM QPSK	1	1	24.61	0	0.0
	1	53	24.43		0.0
	1	104	24.42		0.0
	50	0	23.54	0-1	1.0
	50	28	24.53	0	0.0
	50	56	23.49	0-1	1.0
	100	0	23.51		1.0
DFT-s-OFDM 16QAM	1	1	23.44	0-1	1.0
CP-OFDM QPSK	1	1	23.00	0-1.5	1.5

Note: NR Band n5 (Cell) 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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9.4.2 NR Band n66

Table 9-17
NR Band n66 Maximum Conducted Powers – 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.35	22.87	23.00	0	0.0
	1	53	23.07	22.77	22.84		0.0
	1	104	23.18	22.75	22.89		0.0
	50	0	22.76	22.35	22.40	0-0.5	0.5
	50	28	23.17	22.78	22.87	0	0.0
	50	56	22.66	22.60	22.30	0-0.5	0.5
	100	0	22.74	22.28	22.35		0.5
DFT-s-OFDM QPSK	1	1	23.12	23.04	22.93	0	0.0
	1	53	23.23	22.85	22.92		0.0
	1	104	23.20	23.00	22.83		0.0
	50	0	22.33	22.04	22.07	0-1	1.0
	50	28	23.25	22.93	22.70	0	0.0
	50	56	22.18	21.88	21.83	0-1	1.0
	100	0	22.26	21.97	21.85		1.0
DFT-s-OFDM 16QAM	1	1	21.92	21.96	21.82	0-1	1.0
CP-OFDM QPSK	1	1	21.41	21.47	21.30	0-1.5	1.5

Table 9-18
NR Band n66 Reduced Conducted Powers for Hotspot, Grip Sensor, and/or Earjack Mode Active – 20 MHz Bandwidth

NR Band n66							
20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.04	17.97	17.92	0	0.0
	1	53	17.92	17.87	17.68		0.0
	1	104	17.93	17.92	17.77		0.0
	50	0	17.98	17.87	17.71	0-0.5	0.0
	50	28	17.91	17.82	17.64	0	0.0
	50	56	17.95	17.80	17.62	0-0.5	0.0
	100	0	17.99	17.80	17.64		0.0
DFT-s-OFDM QPSK	1	1	18.09	17.96	17.96	0	0.0
	1	53	17.95	17.84	17.71		0.0
	1	104	17.87	17.95	17.70		0.0
	50	0	17.99	17.89	17.83	0-1	0.0
	50	28	17.90	17.85	17.75	0	0.0
	50	56	17.91	17.81	17.70	0-1	0.0
	100	0	17.91	17.82	17.69		0.0
CP-OFDM QPSK	1	1	17.92	17.78	17.75	0-1.5	0.0

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9.5 WLAN Conducted Powers

Table 9-19
2.4 GHz WLAN Maximum Average RF Power – Ant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
2412	1	18.56	17.56	17.32	17.65
2437	6	18.75	17.61	17.18	17.78
2457	10	N/A	N/A	17.07	17.73
2462	11	18.72	17.70	15.54	15.60

Table 9-20
2.4 GHz WLAN Maximum Average RF Power – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	18.91	17.53	17.33	17.40
2437	6	18.88	17.76	17.54	17.56
2457	10	N/A	N/A	17.44	17.71
2462	11	18.68	17.57	16.13	16.12

Table 9-21
2.4 GHz WLAN Maximum Average RF Power – MIMO

2.4GHz 802.11b Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	18.59	18.82	21.72
2437	6	18.82	18.98	21.91
2462	11	18.64	18.95	21.81

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Table 9-22
5 GHz WLAN Maximum Average RF Power – Ant 1

5GHz (20MHz) Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11a	802.11n	802.11ac	802.11ax
5180	36	17.95	17.73	17.71	17.58
5200	40	17.83	17.24	17.30	17.22
5220	44	17.68	17.83	17.82	17.63
5240	48	17.96	17.46	17.82	17.30
5260	52	17.58	17.87	17.89	17.68
5280	56	17.49	17.90	17.53	17.71
5300	60	17.45	17.34	17.32	17.60
5320	64	17.74	17.27	17.29	17.28
5500	100	17.24	17.25	17.14	17.11
5600	120	17.72	17.44	17.43	17.05
5620	124	17.74	17.10	17.14	17.66
5720	144	17.85	17.60	17.69	17.60
5745	149	17.74	17.62	17.36	17.90
5785	157	17.80	17.66	17.67	17.91
5825	165	17.74	17.65	17.40	17.50

Table 9-23
5 GHz WLAN Maximum Average RF Power – MIMO

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	17.90	16.72	20.36
5200	40	17.79	16.75	20.31
5220	44	17.93	17.50	20.73
5240	48	17.76	17.46	20.62
5260	52	17.75	17.30	20.54
5280	56	17.72	17.26	20.51
5300	60	17.73	17.15	20.46
5320	64	17.60	17.12	20.38
5500	100	17.25	17.10	20.19
5600	120	17.65	17.55	20.61
5620	124	17.62	17.50	20.57
5720	144	17.54	17.25	20.41
5745	149	17.60	17.02	20.33
5785	157	17.73	17.72	20.27
5825	165	17.76	17.25	20.52

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Table 9-24

2.4 GHz WLAN Reduced Average RF Power for Conditions with 5/6 GHz WLAN or 5G NR – Ant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
2412	1	14.67	14.22	14.20	14.38
2437	6	14.80	14.34	14.17	14.57
2462	11	14.75	14.36	14.14	14.52

Table 9-25

2.4 GHz WLAN Reduced Average RF Power for Conditions with 5/6 GHz WLAN or 5G NR – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
2412	1	14.98	14.63	14.42	14.76
2437	6	14.76	14.31	14.14	14.49
2462	11	14.63	14.26	14.10	14.41

Table 9-26

2.4 GHz WLAN Reduced Average RF Power for Conditions with 5/6 GHz WLAN or 5G NR – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	14.64	14.67	17.67
2437	6	14.87	14.95	17.92
2462	11	14.74	14.75	17.76

Table 9-27

5 GHz WLAN Reduced Average RF Power for Conditions with 2.4 GHz WLAN or 5G NR – Ant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
5210	42	14.90	14.45
5290	58	14.97	14.57
5530	106	14.42	14.49
5610	122	14.56	14.63
5690	138	14.76	14.75
5775	155	14.75	14.85

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Table 9-28
5 GHz WLAN Reduced Average RF Power for Conditions with 2.4 GHz WLAN or 5G NR – MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	14.57	13.35	17.01
5290	58	14.69	13.28	17.05
5530	106	14.68	13.66	17.21
5610	122	14.70	13.61	17.20
5690	138	14.93	14.04	17.52
5775	155	14.91	13.84	17.42

Table 9-29
2.4 GHz WLAN Reduced Average RF Power for Conditions with RCV Active– Ant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
2412	1	12.54	12.55	12.83	12.66
2437	6	12.61	12.80	12.62	12.94
2462	11	12.84	12.84	12.61	12.92

Table 9-30
2.4 GHz WLAN Reduced Average RF Power for Conditions with RCV Active– Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	12.89	12.87	12.67	12.93
2437	6	12.51	12.59	12.44	12.80
2462	11	12.78	12.73	12.54	12.82

Table 9-31
2.4 GHz WLAN Reduced Average RF Power for Conditions with RCV Active – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	12.77	12.63	15.71
2437	6	12.67	12.96	15.83
2462	11	12.56	12.86	15.72

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Table 9-32
5 GHz WLAN Reduced Average RF Power for Conditions with RCV Active– Ant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
5210	42	11.97	11.75
5290	58	11.93	11.74
5530	106	11.58	11.62
5610	122	11.71	11.88
5690	138	11.98	11.57
5775	155	11.91	11.75

Table 9-33
5 GHz WLAN Reduced Average RF Power for Conditions with RCV Active – MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	11.64	11.55	14.61
5290	58	11.62	11.63	14.64
5530	106	11.83	11.96	14.91
5610	122	11.82	11.83	14.84
5690	138	11.98	11.91	14.96
5775	155	11.99	11.72	14.87

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.
- The bolded data rate and channel above were tested for SAR.

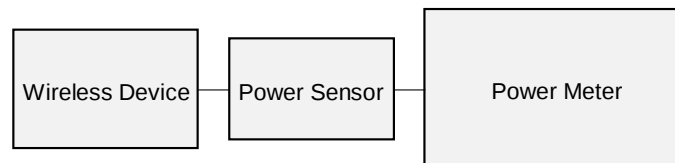


Figure 9-3
Power Measurement Setup

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9.6 Bluetooth Conducted Powers

Table 9-34
Bluetooth Maximum Average RF Power – Ant 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	16.90	48.978
2441	1.0	GFSK	ePA	39	17.29	53.580
2480	1.0	GFSK	ePA	78	16.85	48.417
2402	2.0	$\pi/4$ -DQPSK	ePA	0	13.88	24.434
2441	2.0	$\pi/4$ -DQPSK	ePA	39	14.25	26.607
2480	2.0	$\pi/4$ -DQPSK	ePA	78	13.92	24.660
2402	3.0	8DPSK	ePA	0	13.92	24.660
2441	3.0	8DPSK	ePA	39	14.33	27.102
2480	3.0	8DPSK	ePA	78	13.99	25.061

Table 9-35
Bluetooth Maximum Average RF Power – Ant 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	16.71	54.723
2441	1.0	GFSK	ePA	39	16.93	60.102
2480	1.0	GFSK	ePA	78	15.52	39.554
2402	2.0	$\pi/4$ -DQPSK	ePA	0	14.55	28.492
2441	2.0	$\pi/4$ -DQPSK	ePA	39	15.01	31.715
2480	2.0	$\pi/4$ -DQPSK	ePA	78	13.22	20.989
2402	3.0	8DPSK	ePA	0	13.30	28.961
2441	3.0	8DPSK	ePA	39	13.83	32.195
2480	3.0	8DPSK	ePA	78	12.59	21.564

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Table 9-36
Bluetooth Reduced Average RF Power with 5G NR Active – Ant 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	15.26	33.597
2441	1.0	GFSK	ePA	39	15.49	35.383
2480	1.0	GFSK	ePA	78	14.98	31.492

Table 9-37
Bluetooth Reduced Average RF Power with 5G NR Active – Ant 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	14.76	29.923
2441	1.0	GFSK	ePA	39	15.07	32.137
2480	1.0	GFSK	ePA	78	13.93	24.717

Table 9-38
Bluetooth Reduced Average RF Power with RCV Active – Ant 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	9.88	9.732
2441	1.0	GFSK	ePA	39	10.20	10.476
2480	1.0	GFSK	ePA	78	9.68	9.283

Table 9-39
Bluetooth Reduced Average RF Power with RCV Active – Ant 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	8.95	7.860
2441	1.0	GFSK	ePA	39	9.31	8.539
2480	1.0	GFSK	ePA	78	8.37	6.873

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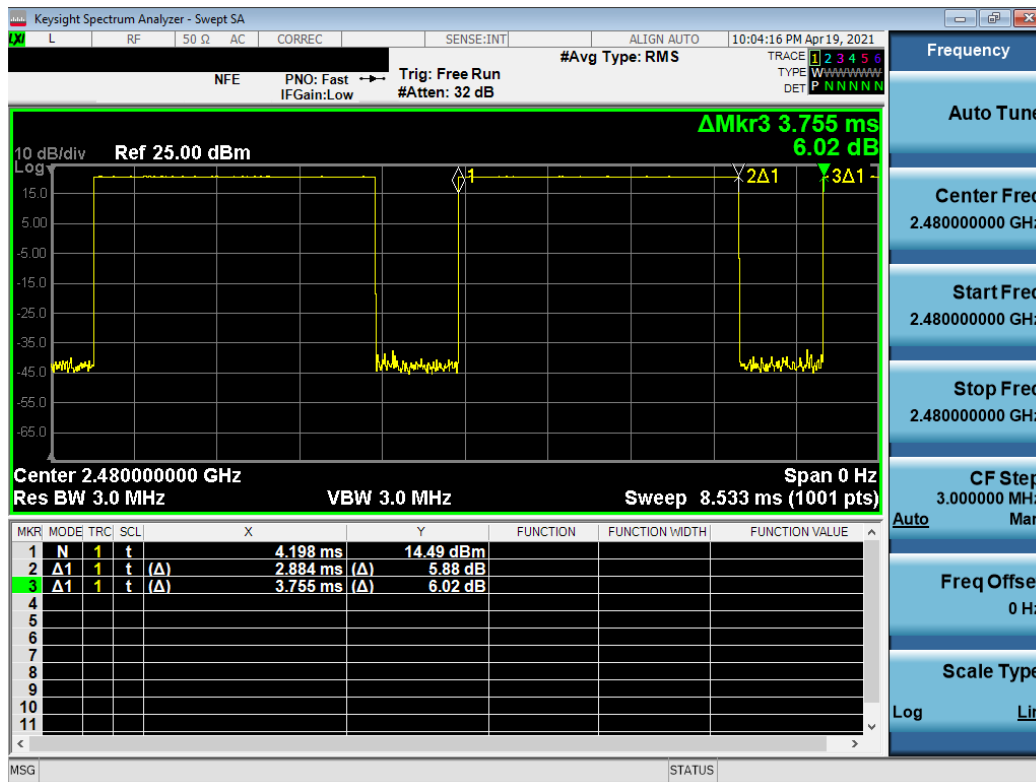


Figure 9-4
Bluetooth Transmission Plot – Ant 1

Equation 9-1
Bluetooth Duty Cycle Calculation – Ant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.884\ ms}{3.755\ ms} * 100\% = 76.8\%$$

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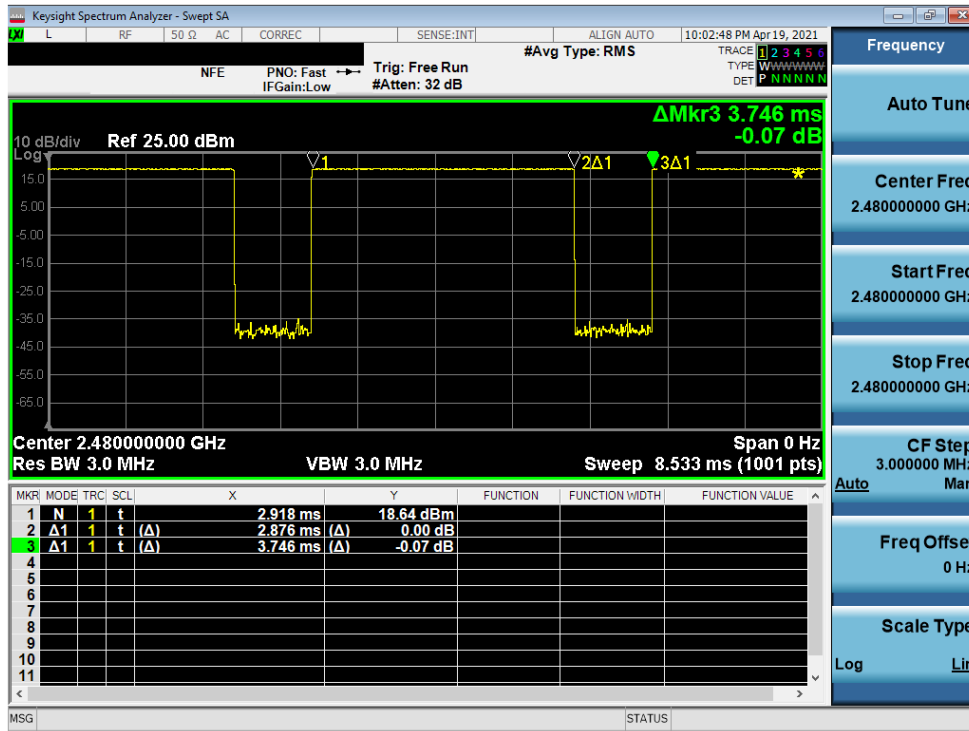


Figure 9-5
Bluetooth Transmission Plot – Ant 2

Equation 9-2
Bluetooth Duty Cycle Calculation – Ant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.876\ ms}{3.746\ ms} * 100\% = 76.8\%$$

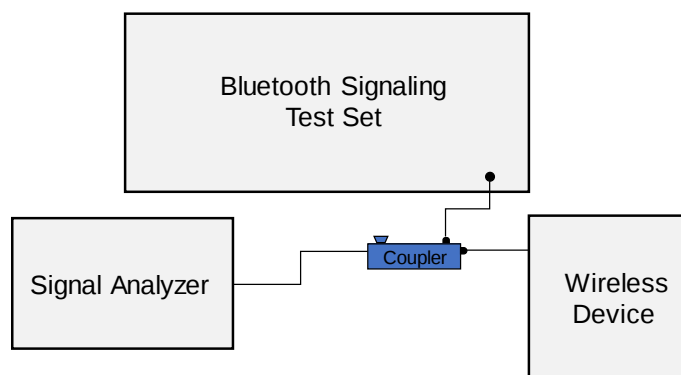


Figure 9-6
Power Measurement Setup

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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Head Tissue Properties

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
05/23/2021	750 Head	22.2	680	0.877	42.375	0.888	42.305	-1.24%	0.17%
			695	0.882	42.315	0.889	42.227	-0.79%	0.21%
			700	0.884	42.298	0.889	42.201	-0.56%	0.23%
			710	0.887	42.266	0.890	42.149	-0.34%	0.28%
			725	0.892	42.222	0.891	42.071	0.11%	0.36%
			750	0.901	42.153	0.894	41.942	0.78%	0.50%
			770	0.908	42.092	0.895	41.838	1.45%	0.61%
			785	0.913	42.042	0.896	41.760	1.90%	0.68%
05/30/2021	750 Head	22.4	800	0.919	41.993	0.897	41.682	2.45%	0.75%
			680	0.896	41.230	0.888	42.305	0.90%	-2.54%
			695	0.901	41.178	0.889	42.227	1.35%	-2.48%
			700	0.903	41.161	0.889	42.201	1.57%	-2.46%
			710	0.906	41.130	0.890	42.149	1.80%	-2.42%
			725	0.912	41.084	0.891	42.071	2.36%	-2.35%
			750	0.920	41.019	0.894	41.942	2.91%	-2.20%
			770	0.927	40.955	0.895	41.838	3.58%	-2.11%
06/03/2021	835 Head	22.3	785	0.933	40.904	0.896	41.760	4.13%	-2.05%
			800	0.939	40.864	0.897	41.682	4.68%	-1.96%
06/06/2021	835 Head	21.0	820	0.921	40.568	0.899	41.578	2.45%	-2.43%
			835	0.927	40.544	0.900	41.500	3.00%	-2.30%
05/18/2021	1750 Head	22.2	850	0.932	40.511	0.916	41.500	1.75%	-2.38%
			820	0.915	39.629	0.899	41.578	1.78%	-4.69%
			835	0.920	39.605	0.900	41.500	2.22%	-4.57%
			850	0.926	39.576	0.916	41.500	1.09%	-4.64%
			1710	1.356	41.289	1.348	40.142	0.59%	2.86%
			1720	1.366	41.244	1.354	40.126	0.89%	2.79%
05/03/2021	1900 Head	21.8	1745	1.392	41.131	1.368	40.087	1.75%	2.60%
			1750	1.397	41.108	1.371	40.079	1.90%	2.57%
			1770	1.417	41.014	1.383	40.047	2.46%	2.41%
			1790	1.437	40.921	1.394	40.016	3.08%	2.26%
			1850	1.376	38.294	1.400	40.000	-1.71%	-4.27%
			1860	1.386	38.252	1.400	40.000	-1.00%	-4.37%
05/10/2021	2450 Head	21.9	1880	1.407	38.164	1.400	40.000	0.50%	-4.59%
			1900	1.428	38.076	1.400	40.000	2.00%	-4.81%
			1905	1.433	38.054	1.400	40.000	2.36%	-4.87%
			1910	1.439	38.034	1.400	40.000	2.79%	-4.92%
			2300	1.706	38.815	1.670	39.500	2.16%	-1.73%
			2310	1.717	38.769	1.679	39.480	2.26%	-1.80%
			2320	1.728	38.718	1.687	39.460	2.43%	-1.88%
			2400	1.815	38.443	1.756	39.289	3.36%	-2.15%
			2450	1.870	38.215	1.800	39.200	3.89%	-2.51%
			2480	1.904	38.135	1.833	39.162	3.87%	-2.62%
			2500	1.926	38.066	1.855	39.136	3.83%	-2.73%
			2510	1.937	38.024	1.866	39.123	3.80%	-2.81%
			2535	1.964	37.910	1.893	39.092	3.75%	-3.02%
			2550	1.982	37.853	1.909	39.073	3.82%	-3.12%
			2560	1.994	37.821	1.920	39.060	3.85%	-3.17%
			2600	2.039	37.697	1.964	39.009	3.82%	-3.36%
			2650	2.091	37.485	2.018	38.945	3.62%	-3.75%
			2680	2.127	37.381	2.051	38.907	3.71%	-3.92%
			2700	2.149	37.319	2.073	38.882	3.67%	-4.02%

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Table 10-2
Measured Head Tissue Properties (Cont.)

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
06/01/2021	2450 Head	21.7	2300	1.753	39.519	1.670	39.500	4.97%	0.05%
			2310	1.761	39.508	1.679	39.480	4.88%	0.07%
			2320	1.768	39.497	1.687	39.460	4.80%	0.09%
			2400	1.821	39.373	1.756	39.289	3.70%	0.21%
			2450	1.858	39.312	1.800	39.200	3.22%	0.29%
			2480	1.877	39.267	1.833	39.162	2.40%	0.27%
			2500	1.891	39.236	1.855	39.136	1.94%	0.26%
			2510	1.899	39.221	1.866	39.123	1.77%	0.25%
			2535	1.919	39.190	1.893	39.092	1.37%	0.25%
			2550	1.931	39.172	1.909	39.073	1.15%	0.25%
			2560	1.938	39.157	1.920	39.060	0.94%	0.25%
			2600	1.967	39.098	1.964	39.009	0.15%	0.23%
			2650	2.005	39.015	2.018	38.945	-0.64%	0.18%
			2680	2.028	38.974	2.051	38.907	-1.12%	0.17%
			2700	2.042	38.952	2.073	38.882	-1.50%	0.18%
05/13/2021	5200-5800 Head	20.2	5180	4.558	35.333	4.635	36.009	-1.66%	-1.88%
			5190	4.574	35.346	4.645	35.998	-1.53%	-1.81%
			5200	4.582	35.352	4.655	35.986	-1.57%	-1.76%
			5210	4.585	35.350	4.666	35.975	-1.74%	-1.74%
			5220	4.587	35.327	4.676	35.963	-1.90%	-1.77%
			5240	4.602	35.222	4.696	35.940	-2.00%	-2.00%
			5250	4.617	35.179	4.706	35.929	-1.89%	-2.09%
			5260	4.637	35.168	4.717	35.917	-1.70%	-2.09%
			5270	4.659	35.181	4.727	35.906	-1.44%	-2.02%
			5280	4.680	35.207	4.737	35.894	-1.20%	-1.91%
			5290	4.696	35.243	4.748	35.883	-1.10%	-1.78%
			5300	4.705	35.281	4.758	35.871	-1.11%	-1.64%
			5310	4.709	35.292	4.768	35.860	-1.24%	-1.58%
			5320	4.709	35.280	4.778	35.849	-1.44%	-1.59%
			5500	4.897	34.798	4.963	35.643	-1.33%	-2.37%
			5510	4.907	34.810	4.973	35.632	-1.33%	-2.31%
			5520	4.911	34.812	4.983	35.620	-1.44%	-2.27%
			5530	4.910	34.795	4.994	35.609	-1.68%	-2.29%
			5540	4.914	34.752	5.004	35.597	-1.80%	-2.37%
			5550	4.920	34.688	5.014	35.586	-1.87%	-2.52%
			5560	4.932	34.621	5.024	35.574	-1.83%	-2.68%
			5580	4.967	34.529	5.045	35.551	-1.55%	-2.87%
			5600	5.006	34.509	5.065	35.529	-1.16%	-2.87%
			5610	5.021	34.516	5.076	35.518	-1.08%	-2.82%
			5620	5.034	34.525	5.086	35.506	-1.02%	-2.76%
			5640	5.046	34.511	5.106	35.483	-1.18%	-2.74%
			5660	5.057	34.430	5.127	35.460	-1.37%	-2.90%
			5670	5.072	34.376	5.137	35.449	-1.27%	-3.03%
			5680	5.090	34.340	5.147	35.437	-1.11%	-3.10%
			5690	5.109	34.330	5.158	35.426	-0.95%	-3.09%
			5700	5.132	34.346	5.168	35.414	-0.70%	-3.02%
			5710	5.153	34.366	5.178	35.403	-0.48%	-2.93%
			5720	5.170	34.378	5.188	35.391	-0.35%	-2.86%
			5745	5.188	34.382	5.214	35.363	-0.50%	-2.77%
			5750	5.191	34.371	5.219	35.357	-0.54%	-2.79%
			5755	5.196	34.358	5.224	35.351	-0.54%	-2.81%
			5765	5.201	34.323	5.234	35.340	-0.63%	-2.88%
			5775	5.208	34.287	5.245	35.329	-0.71%	-2.95%
			5785	5.221	34.261	5.255	35.317	-0.65%	-2.99%
			5795	5.240	34.243	5.265	35.305	-0.47%	-3.01%
			5800	5.250	34.238	5.270	35.300	-0.38%	-3.01%
			5805	5.259	34.233	5.275	35.294	-0.30%	-3.01%
			5825	5.292	34.257	5.296	35.271	-0.08%	-2.87%

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Table 10-3
Measured Body Tissue Properties

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
05/04/2021	750 Body	22.8	680	0.957	54.202	0.958	55.804	-0.10%	-2.87%
			695	0.962	54.159	0.959	55.745	0.31%	-2.85%
			700	0.964	54.143	0.959	55.726	0.52%	-2.84%
			710	0.968	54.117	0.960	55.687	0.83%	-2.82%
			725	0.973	54.084	0.961	55.629	1.25%	-2.78%
			750	0.982	54.029	0.964	55.531	1.87%	-2.70%
			770	0.989	53.982	0.965	55.453	2.49%	-2.65%
			785	0.994	53.945	0.966	55.395	2.90%	-2.62%
	750 Body	22.3	800	1.000	53.906	0.967	55.336	3.41%	-2.58%
			680	0.940	54.591	0.958	55.804	-1.88%	-2.17%
			695	0.946	54.569	0.959	55.745	-1.36%	-2.11%
			700	0.947	54.561	0.959	55.726	-1.25%	-2.09%
			710	0.951	54.545	0.960	55.687	-0.94%	-2.05%
			725	0.957	54.522	0.961	55.629	-0.42%	-1.99%
			750	0.966	54.459	0.964	55.531	0.21%	-1.93%
			770	0.974	54.395	0.965	55.453	0.93%	-1.91%
05/06/2021	750 Body	22.3	785	0.979	54.355	0.966	55.395	1.35%	-1.88%
			800	0.985	54.326	0.967	55.336	1.86%	-1.83%
			680	0.925	54.382	0.958	55.804	-3.44%	-2.55%
			695	0.930	54.344	0.959	55.745	-3.02%	-2.51%
			700	0.932	54.330	0.959	55.726	-2.82%	-2.51%
			710	0.936	54.302	0.960	55.687	-2.50%	-2.49%
			725	0.942	54.260	0.961	55.629	-1.98%	-2.46%
			750	0.951	54.192	0.964	55.531	-1.35%	-2.41%
05/09/2021	750 Body	21.7	770	0.957	54.140	0.965	55.453	-0.83%	-2.37%
			785	0.963	54.106	0.966	55.395	-0.31%	-2.33%
			800	0.969	54.078	0.967	55.336	0.21%	-2.27%
			680	0.958	54.843	0.958	55.804	0.00%	-1.72%
			695	0.963	54.807	0.959	55.745	0.42%	-1.68%
			700	0.965	54.795	0.959	55.726	0.63%	-1.67%
			710	0.968	54.774	0.960	55.687	0.83%	-1.64%
			725	0.974	54.745	0.961	55.629	1.35%	-1.59%
05/31/2021	750 Body	23.0	750	0.983	54.697	0.964	55.531	1.97%	-1.50%
			770	0.989	54.640	0.965	55.453	2.49%	-1.47%
			785	0.995	54.595	0.966	55.395	3.00%	-1.44%
			800	1.000	54.554	0.967	55.336	3.41%	-1.41%
			820	0.947	53.843	0.969	55.258	-2.27%	-2.56%
			835	0.962	53.692	0.970	55.200	-0.82%	-2.73%
			850	0.979	53.550	0.988	55.154	-0.91%	-2.91%
			820	0.941	53.225	0.969	55.258	-2.89%	-3.68%
05/12/2021	835 Body	21.8	835	0.957	53.092	0.970	55.200	-1.34%	-3.82%
			850	0.975	52.968	0.988	55.154	-1.32%	-3.96%
			820	0.941	53.225	0.969	55.258	-2.89%	-3.68%
05/15/2021	835 Body	20.9	835	0.957	53.092	0.970	55.200	-1.34%	-3.82%
			850	0.975	52.968	0.988	55.154	-1.32%	-3.96%
			820	0.941	53.225	0.969	55.258	-2.89%	-3.68%
05/06/2021	1750 Body	23.0	1710	1.423	51.041	1.463	53.537	-2.73%	-4.66%
			1720	1.433	51.004	1.469	53.511	-2.45%	-4.69%
			1745	1.459	50.906	1.485	53.445	-1.75%	-4.75%
			1750	1.464	50.886	1.488	53.432	-1.61%	-4.76%
			1770	1.484	50.806	1.501	53.379	-1.13%	-4.82%
05/10/2021	1750 Body	23.7	1790	1.504	50.740	1.514	53.326	-0.66%	-4.85%
			1710	1.485	51.747	1.463	53.537	1.50%	-3.34%
			1720	1.496	51.702	1.469	53.511	1.84%	-3.38%
			1745	1.522	51.584	1.485	53.445	2.49%	-3.48%
			1750	1.528	51.562	1.488	53.432	2.69%	-3.50%
			1770	1.551	51.476	1.501	53.379	3.33%	-3.57%
			1790	1.573	51.408	1.514	53.326	3.90%	-3.60%

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10.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ 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 10-8
System Verification Results – 1g

System Verification TARGET & MEASURED												
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 (%)
G	750	HEAD	05/23/2021	22.2	22.2	0.2	1003	7357	1.69	8.78	8.450	-3.76%
G	750	HEAD	05/30/2021	23.0	22.4	0.2	1003	7357	1.78	8.78	8.900	1.37%
J	835	HEAD	06/03/2021	22.1	22.7	0.2	4d132	7526	1.95	9.66	9.750	0.93%
J	835	HEAD	06/06/2021	21.1	21.0	0.2	4d132	7526	2.07	9.66	10.350	7.14%
G	1750	HEAD	05/18/2021	23.0	22.2	0.1	1150	7357	3.82	36.50	38.200	4.66%
E	1900	HEAD	05/03/2021	23.6	23.4	0.1	5d149	7571	4.17	39.30	41.700	6.11%
K2	2450	HEAD	05/10/2021	20.6	21.9	0.1	882	7527	5.41	52.50	54.100	3.05%
L	2450	HEAD	06/01/2021	23.3	21.7	0.1	981	7539	5.34	52.30	53.400	2.10%
L	2600	HEAD	06/01/2021	23.3	21.7	0.1	1071	7539	5.69	56.10	56.900	1.43%
K1	5250	HEAD	05/13/2021	19.6	20.2	0.1	1120	7637	3.87	81.80	77.400	-5.38%
K1	5600	HEAD	05/13/2021	19.6	20.2	0.1	1120	7637	4.12	84.50	82.400	-2.49%
K1	5750	HEAD	05/13/2021	19.6	20.2	0.1	1120	7637	3.99	81.20	79.800	-1.72%
G	750	BODY	05/04/2021	23.4	22.8	0.2	1003	7406	1.79	8.61	8.950	3.95%
G	750	BODY	05/06/2021	23.2	22.3	0.2	1003	7406	1.81	8.61	9.050	5.11%
G	750	BODY	05/31/2021	23.8	23.0	0.2	1003	7357	1.74	8.61	8.700	1.05%
P	835	BODY	05/12/2021	24.7	21.8	0.2	4d047	7308	1.97	9.47	9.850	4.01%
P	835	BODY	05/15/2021	23.5	20.8	0.2	4d047	7308	1.89	9.47	9.450	-0.21%
H	1750	BODY	05/06/2021	21.7	21.1	0.1	1148	7410	3.70	36.30	37.000	1.93%
E	1750	BODY	05/10/2021	22.7	22.9	0.1	1150	7571	3.73	36.60	37.300	1.91%
E	1750	BODY	05/12/2021	24.3	23.2	0.1	1150	7571	3.83	36.60	38.300	4.64%
H	1750	BODY	05/24/2021	22.2	21.3	0.1	1148	7410	3.60	36.30	36.000	-0.83%
H	1750	BODY	06/03/2021	23.0	23.4	0.1	1148	7410	3.56	36.30	35.600	-1.93%
G	1750	BODY	06/06/2021	22.3	21.0	0.1	1150	7357	3.85	36.60	38.500	5.19%
H	1750	BODY	06/07/2021	21.9	22.7	0.1	1150	7410	3.88	36.60	38.800	6.01%
H	1750	BODY	06/09/2021	22.2	22.9	0.1	1150	7410	3.92	36.60	39.200	7.10%
D	1900	BODY	05/09/2021	23.3	22.2	0.1	5d080	3589	4.22	39.20	42.200	7.65%
D	1900	BODY	05/16/2021	23.3	22.9	0.1	5d080	3589	4.01	39.20	40.100	2.30%
E	1900	BODY	06/06/2021	23.6	23.5	0.1	5d149	7571	4.19	39.40	41.900	6.35%
E	1900	BODY	06/09/2021	23.1	22.8	0.1	5d080	7571	3.93	39.20	39.300	0.26%
E	1900	BODY	06/13/2021	23.4	22.7	0.1	5d149	7571	3.91	39.40	39.100	-0.76%
K2	2450	BODY	04/28/2021	21.3	22.2	0.1	882	7527	5.11	50.60	51.100	0.99%
E	2450	BODY	05/25/2021	24.7	24.5	0.1	719	7571	5.12	50.70	51.200	0.99%
L	2450	BODY	06/14/2021	21.3	22.9	0.1	981	7539	5.10	50.10	51.000	1.80%
E	2600	BODY	05/25/2021	24.7	24.5	0.1	1064	7571	5.56	55.60	55.600	0.00%
L	2600	BODY	06/14/2021	21.3	22.9	0.1	1071	7539	5.21	54.30	52.100	-4.05%
K1	5250	BODY	04/19/2021	22.0	21.8	0.1	1120	7637	3.59	74.30	71.800	-3.36%
K1	5250	BODY	04/26/2021	20.8	21.6	0.1	1120	7637	3.79	74.30	75.800	2.02%
K1	5250	BODY	05/10/2021	22.0	22.0	0.1	1120	7637	3.50	74.30	70.000	-5.79%
K1	5600	BODY	04/19/2021	22.0	21.8	0.1	1120	7637	3.76	77.80	75.200	-3.34%
K1	5600	BODY	04/26/2021	20.8	21.6	0.1	1120	7637	3.69	77.80	73.800	-5.14%
K1	5600	BODY	05/10/2021	22.0	22.0	0.1	1120	7637	3.71	77.80	74.200	-4.63%
K1	5750	BODY	04/19/2021	22.0	21.8	0.1	1120	7637	3.40	72.30	68.000	-5.95%
K1	5750	BODY	04/26/2021	20.8	21.6	0.1	1120	7637	3.73	72.30	74.600	3.18%
K1	5750	BODY	05/10/2021	22.0	22.0	0.1	1120	7637	3.40	72.30	68.000	-5.95%

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Table 10-9
System Verification Results – 10g

System Verification TARGET & MEASURED												
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR10g (W/kg)	1W Target SAR10g (W/kg)	1W Normalized SAR10g (W/kg)	Deviation10g (%)
G	750	BODY	05/04/2021	23.4	22.8	0.2	1003	7406	1.160	5.67	5.800	2.29%
G	750	BODY	05/09/2021	22.4	21.7	0.2	1003	7406	1.190	5.67	5.950	4.94%
P	835	BODY	05/12/2021	24.7	21.8	0.2	4d047	7308	1.300	6.27	6.500	3.67%
P	835	BODY	05/15/2021	23.5	20.8	0.2	4d047	7308	1.250	6.27	6.250	-0.32%
G	1750	BODY	06/06/2021	22.3	21.0	0.1	1150	7357	2.040	19.40	20.400	5.15%
H	1750	BODY	06/09/2021	22.2	22.9	0.1	1150	7410	2.070	19.40	20.700	6.70%
H	1750	BODY	06/11/2021	22.6	23.4	0.1	1150	7410	1.930	19.40	19.300	-0.52%
P	1750	BODY	06/20/2021	22.0	21.2	0.1	1150	7308	1.860	19.40	18.600	-4.12%
E	1900	BODY	06/06/2021	23.6	23.5	0.1	5d149	7571	2.190	20.70	21.900	5.80%
E	1900	BODY	06/09/2021	23.1	22.8	0.1	5d080	7571	2.040	20.60	20.400	-0.97%
E	1900	BODY	06/13/2021	23.4	22.7	0.1	5d149	7571	2.030	20.70	20.300	-1.93%
H	1900	BODY	06/13/2021	25.0	25.0	0.1	5d080	7410	2.200	20.60	22.000	6.80%
K2	2450	BODY	04/28/2021	21.3	22.2	0.1	882	7527	2.330	23.90	23.300	-2.51%
K2	2450	BODY	05/13/2021	20.5	21.5	0.1	882	7527	2.370	23.90	23.700	-0.84%
K	2450	BODY	06/08/2021	24.0	22.3	0.1	719	7538	2.330	23.90	23.300	-2.51%
L	2450	BODY	06/14/2021	21.3	22.9	0.1	981	7539	2.350	23.70	23.500	-0.84%
K	2600	BODY	06/08/2021	24.0	22.3	0.1	1064	7538	2.540	25.00	25.400	1.60%
L	2600	BODY	06/14/2021	21.3	22.9	0.1	1071	7539	2.330	24.10	23.300	-3.32%
K1	5250	BODY	04/19/2021	22.0	21.8	0.1	1120	7637	1.000	20.80	20.000	-3.85%
K1	5250	BODY	05/03/2021	21.6	21.0	0.1	1120	7637	1.020	20.80	20.400	-1.92%
K1	5600	BODY	04/19/2021	22.0	21.8	0.1	1120	7637	1.030	21.70	20.600	-5.07%
K1	5600	BODY	05/03/2021	21.6	21.0	0.1	1120	7637	1.110	21.70	22.200	2.30%
K1	5750	BODY	04/19/2021	22.0	21.8	0.1	1120	7637	0.938	20.10	18.760	-6.67%
K1	5750	BODY	05/03/2021	21.6	21.0	0.1	1120	7637	1.050	20.10	21.000	4.48%

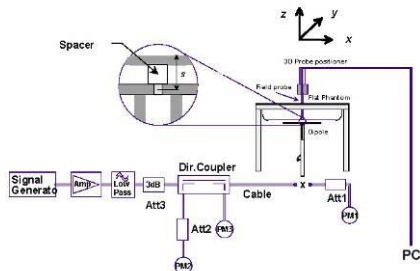


Figure 10-1
System Verification Setup Diagram



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

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
824.20	128	GSM 850	GSM	33.5	32.49	0.15	Right	Cheek	A	0659M	1:8.3	0.087	1.262	0.110	A1
824.20	128	GSM 850	GSM	33.5	32.49	0.13	Right	Tilt	A	0659M	1:8.3	0.033	1.262	0.042	
824.20	128	GSM 850	GSM	33.5	32.49	0.12	Left	Cheek	A	0659M	1:8.3	0.072	1.262	0.091	
824.20	128	GSM 850	GSM	33.5	32.49	0.18	Left	Tilt	A	0659M	1:8.3	0.033	1.262	0.042	
824.20	128	GSM 850	GSM	33.5	32.49	-0.03	Right	Cheek	A + B	0659M	1:8.3	0.052	1.262	0.066	
824.20	128	GSM 850	GSM	33.5	32.49	0.12	Right	Tilt	A + B	0659M	1:8.3	0.017	1.262	0.021	
824.20	128	GSM 850	GSM	33.5	32.49	0.05	Left	Cheek	A + B	0659M	1:8.3	0.045	1.262	0.057	
824.20	128	GSM 850	GSM	33.5	32.49	0.06	Left	Tilt	A + B	0659M	1:8.3	0.027	1.262	0.034	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-2
GSM 1900 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1909.80	810	GSM 1900	GSM	30.2	29.44	-0.14	Right	Cheek	B	0460M	1:8.3	0.018	1.191	0.021	
1909.80	810	GSM 1900	GSM	30.2	29.44	0.13	Right	Tilt	B	0460M	1:8.3	0.023	1.191	0.027	A2
1909.80	810	GSM 1900	GSM	30.2	29.44	-0.10	Left	Cheek	B	0460M	1:8.3	0.019	1.191	0.023	
1909.80	810	GSM 1900	GSM	30.2	29.44	0.12	Left	Tilt	B	0460M	1:8.3	0.017	1.191	0.020	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-3
UMTS 850 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
826.40	4132	UMTS 850	RMC	25.8	24.53	9	0.04	Right	Cheek	A	0659M	1:1	0.091	1.340	0.122	
826.40	4132	UMTS 850	RMC	25.8	24.53	9	0.07	Right	Tilt	A	0659M	1:1	0.027	1.340	0.036	
826.40	4132	UMTS 850	RMC	25.8	24.53	9	0.15	Left	Cheek	A	0659M	1:1	0.058	1.340	0.078	
826.40	4132	UMTS 850	RMC	25.8	24.53	9	0.12	Left	Tilt	A	0659M	1:1	0.038	1.340	0.051	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.10	Right	Cheek	A + B	0659M	1:1	0.093	1.340	0.125	A3
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.06	Right	Tilt	A + B	0659M	1:1	0.032	1.340	0.043	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.16	Left	Cheek	A + B	0659M	1:1	0.063	1.340	0.084	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.06	Left	Tilt	A + B	0659M	1:1	0.040	1.340	0.054	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-4
UMTS 1750 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	0.13	Right	Cheek	B	0460M	1:1	0.041	1.297	0.053	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	0.12	Right	Tilt	B	0460M	1:1	0.049	1.297	0.064	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	0.06	Left	Cheek	B	0460M	1:1	0.056	1.297	0.073	A4
1752.60	1513	UMTS 1750	RMC	25.0	23.87	0.10	Left	Tilt	B	0460M	1:1	0.045	1.297	0.058	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-5
UMTS 1900 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	0.07	Right	Cheek	B	0460M	1:1	0.055	1.324	0.073	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	0.12	Right	Tilt	B	0460M	1:1	0.062	1.324	0.082	A5
1907.60	9538	UMTS 1900	RMC	25.0	23.78	0.18	Left	Cheek	B	0460M	1:1	0.055	1.324	0.073	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	0.20	Left	Tilt	B	0460M	1:1	0.049	1.324	0.065	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 11-6
LTE Band 12 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	0	-0.07	0	Right	Cheek	A + B	QPSK	1	0	0616M	1:1	0.096	1.199	0.115	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	0	-0.11	1	Right	Cheek	A + B	QPSK	25	12	0616M	1:1	0.085	1.189	0.101	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	0	-0.04	0	Right	Tilt	A + B	QPSK	1	0	0616M	1:1	0.051	1.199	0.061	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	0	0.05	1	Right	Tilt	A + B	QPSK	25	12	0616M	1:1	0.042	1.189	0.050	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	0	-0.02	0	Left	Cheek	A + B	QPSK	1	0	0616M	1:1	0.088	1.199	0.106	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	0	0.03	1	Left	Cheek	A + B	QPSK	25	12	0616M	1:1	0.073	1.189	0.087	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	0	0.09	0	Left	Tilt	A + B	QPSK	1	0	0616M	1:1	0.048	1.199	0.058	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	0	0.05	1	Left	Tilt	A + B	QPSK	25	12	0616M	1:1	0.041	1.189	0.049	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	9	0.08	0	Right	Cheek	A	QPSK	1	0	0616M	1:1	0.097	1.199	0.116	A6
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	9	0.20	1	Right	Cheek	A	QPSK	25	12	0616M	1:1	0.072	1.189	0.086	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	9	-0.04	0	Right	Tilt	A	QPSK	1	0	0616M	1:1	0.045	1.199	0.054	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	9	0.07	1	Right	Tilt	A	QPSK	25	12	0616M	1:1	0.035	1.189	0.042	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	9	0.09	0	Left	Cheek	A	QPSK	1	0	0616M	1:1	0.066	1.199	0.079	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	9	0.06	1	Left	Cheek	A	QPSK	25	12	0616M	1:1	0.061	1.189	0.073	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	9	0.13	0	Left	Tilt	A	QPSK	1	0	0616M	1:1	0.040	1.199	0.048	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	9	0.07	1	Left	Tilt	A	QPSK	25	12	0616M	1:1	0.034	1.189	0.040	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Table 11-7
LTE Band 13 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	0.18	0	Right	Cheek	A + B	QPSK	1	0	0616M	1:1	0.118	1.230	0.145	A7
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	0.06	1	Right	Cheek	A + B	QPSK	25	12	0616M	1:1	0.084	1.216	0.102	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	-0.17	0	Right	Tilt	A + B	QPSK	1	0	0616M	1:1	0.058	1.230	0.071	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	0.12	1	Right	Tilt	A + B	QPSK	25	12	0616M	1:1	0.038	1.216	0.046	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	0.14	0	Left	Cheek	A + B	QPSK	1	0	0616M	1:1	0.082	1.230	0.101	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	0.14	1	Left	Cheek	A + B	QPSK	25	12	0616M	1:1	0.065	1.216	0.079	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	0.15	0	Left	Tilt	A + B	QPSK	1	0	0616M	1:1	0.044	1.230	0.054	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	-0.03	1	Left	Tilt	A + B	QPSK	25	12	0616M	1:1	0.030	1.216	0.036	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	9	-0.18	0	Right	Cheek	A	QPSK	1	0	0616M	1:1	0.111	1.230	0.137	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	9	-0.07	1	Right	Cheek	A	QPSK	25	12	0616M	1:1	0.079	1.216	0.096	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	9	0.06	0	Right	Tilt	A	QPSK	1	0	0616M	1:1	0.046	1.230	0.057	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	9	0.11	1	Right	Tilt	A	QPSK	25	12	0616M	1:1	0.033	1.216	0.040	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	9	0.04	0	Left	Cheek	A	QPSK	1	0	0616M	1:1	0.091	1.230	0.112	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	9	-0.09	1	Left	Cheek	A	QPSK	25	12	0616M	1:1	0.070	1.216	0.085	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	9	0.13	0	Left	Tilt	A	QPSK	1	0	0616M	1:1	0.042	1.230	0.052	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	9	0.12	1	Left	Tilt	A	QPSK	25	12	0616M	1:1	0.034	1.216	0.041	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

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Table 11-8
LTE Band 26 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	9	-0.04	0	Right	Cheek	A	QPSK	1	0	0659M	1:1	0.105	1.294	0.136	A8
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	9	0.04	1	Right	Cheek	A	QPSK	36	18	0659M	1:1	0.092	1.288	0.118	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	9	0.07	0	Right	Tilt	A	QPSK	1	0	0659M	1:1	0.034	1.294	0.044	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	9	0.17	1	Right	Tilt	A	QPSK	36	18	0659M	1:1	0.035	1.288	0.045	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	9	0.02	0	Left	Cheek	A	QPSK	1	0	0659M	1:1	0.067	1.294	0.087	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	9	0.12	1	Left	Cheek	A	QPSK	36	18	0659M	1:1	0.060	1.288	0.077	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	9	0.16	0	Left	Tilt	A	QPSK	1	0	0659M	1:1	0.047	1.294	0.061	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	9	0.17	1	Left	Tilt	A	QPSK	36	18	0659M	1:1	0.043	1.288	0.055	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.12	0	Right	Cheek	A + B	QPSK	1	0	0659M	1:1	0.095	1.294	0.123	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	0.03	1	Right	Cheek	A + B	QPSK	36	18	0659M	1:1	0.084	1.288	0.108	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	-0.16	0	Right	Tilt	A + B	QPSK	1	0	0659M	1:1	0.033	1.294	0.043	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	0.12	1	Right	Tilt	A + B	QPSK	36	18	0659M	1:1	0.031	1.288	0.040	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.17	0	Left	Cheek	A + B	QPSK	1	0	0659M	1:1	0.066	1.294	0.085	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	0.13	1	Left	Cheek	A + B	QPSK	36	18	0659M	1:1	0.059	1.288	0.076	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.13	0	Left	Tilt	A + B	QPSK	1	0	0659M	1:1	0.044	1.294	0.057	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	0.10	1	Left	Tilt	A + B	QPSK	36	18	0659M	1:1	0.043	1.288	0.055	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

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

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.02	0	Right	Cheek	B	QPSK	1	0	0452M	1:1	0.055	1.236	0.068	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	-0.08	1	Right	Cheek	B	QPSK	50	25	0452M	1:1	0.043	1.189	0.051	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.01	0	Right	Tilt	B	QPSK	1	0	0452M	1:1	0.044	1.236	0.054	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.14	1	Right	Tilt	B	QPSK	50	25	0452M	1:1	0.036	1.189	0.043	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	0.14	0	Left	Cheek	B	QPSK	1	0	0452M	1:1	0.064	1.236	0.079	A9
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.12	1	Left	Cheek	B	QPSK	50	25	0452M	1:1	0.044	1.189	0.052	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.11	0	Left	Tilt	B	QPSK	1	0	0452M	1:1	0.032	1.236	0.040	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.06	1	Left	Tilt	B	QPSK	50	25	0452M	1:1	0.026	1.189	0.031	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

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

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	0.18	0	Right	Cheek	B	QPSK	1	99	0452M	1:1	0.032	1.189	0.038	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.03	1	Right	Cheek	B	QPSK	50	50	0452M	1:1	0.030	1.175	0.035	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	0.00	0	Right	Tilt	B	QPSK	1	99	0452M	1:1	0.042	1.189	0.050	A10
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.13	1	Right	Tilt	B	QPSK	50	50	0452M	1:1	0.041	1.175	0.048	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	0.12	0	Left	Cheek	B	QPSK	1	99	0452M	1:1	0.028	1.189	0.033	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.14	1	Left	Cheek	B	QPSK	50	50	0452M	1:1	0.026	1.175	0.031	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	0.12	0	Left	Tilt	B	QPSK	1	99	0452M	1:1	0.040	1.189	0.048	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.12	1	Left	Tilt	B	QPSK	50	50	0452M	1:1	0.035	1.175	0.041	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Table 11-11
LTE Band 41 Head SAR

MEASUREMENT RESULTS																					
Power Class	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
	MHz	Ch.															(W/kg)		(W/kg)		
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	0.17	0	Right	Cheek	B	QPSK	1	50	0460M	1:1.58	0.024	1.109	0.027	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	0.15	1	Right	Cheek	B	QPSK	50	25	0460M	1:1.58	0.021	1.164	0.024	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	0.13	0	Right	Tilt	B	QPSK	1	50	0460M	1:1.58	0.013	1.109	0.014	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	-0.18	1	Right	Tilt	B	QPSK	50	25	0460M	1:1.58	0.009	1.164	0.010	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	-0.12	0	Left	Cheek	B	QPSK	1	50	0460M	1:1.58	0.026	1.109	0.029	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	-0.15	1	Left	Cheek	B	QPSK	50	25	0460M	1:1.58	0.018	1.164	0.021	
Power Class 2	2636.50	41055	Mid-High	LTE Band 41	20	26.0	25.40	0.13	0	Left	Cheek	B	QPSK	1	50	0460M	1:2.31	0.031	1.148	0.036	A11
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	-0.13	0	Left	Tilt	B	QPSK	1	50	0460M	1:1.58	0.010	1.109	0.011	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	-0.13	1	Left	Tilt	B	QPSK	50	25	0460M	1:1.58	0.008	1.164	0.009	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-12
NR Band n5 (Cell) Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	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.																	(W/kg)		(W/kg)		
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A	0.21	0	Right	Cheek	9	DFT-S-OFDM	QPSK	1	1	0659M	1:1	0.109	1.227	0.134	A12
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A	0.02	0	Right	Cheek	9	DFT-S-OFDM	QPSK	50	28	0659M	1:1	0.098	1.250	0.123	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.00	A	0.04	1.5	Right	Cheek	9	CP-OFDM	QPSK	1	1	0659M	1:1	0.077	1.259	0.097	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A	0.18	0	Right	Tilt	9	DFT-S-OFDM	QPSK	1	1	0659M	1:1	0.038	1.227	0.047	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A	0.12	0	Right	Tilt	9	DFT-S-OFDM	QPSK	50	28	0659M	1:1	0.039	1.250	0.049	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A	0.18	0	Left	Cheek	9	DFT-S-OFDM	QPSK	1	1	0659M	1:1	0.063	1.227	0.077	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A	0.12	0	Left	Cheek	9	DFT-S-OFDM	QPSK	50	28	0659M	1:1	0.077	1.250	0.096	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A	0.02	0	Left	Tilt	9	DFT-S-OFDM	QPSK	1	1	0659M	1:1	0.041	1.227	0.050	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A	0.12	0	Left	Tilt	9	DFT-S-OFDM	QPSK	50	28	0659M	1:1	0.055	1.250	0.069	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.12	0	Right	Cheek	108	DFT-S-OFDM	QPSK	1	1	0659M	1:1	0.103	1.227	0.126	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.04	0	Right	Cheek	108	DFT-S-OFDM	QPSK	50	28	0659M	1:1	0.105	1.250	0.131	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.00	A + B	0.18	1.5	Right	Cheek	108	CP-OFDM	QPSK	1	1	0659M	1:1	0.075	1.259	0.094	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.14	0	Right	Tilt	108	DFT-S-OFDM	QPSK	1	1	0659M	1:1	0.035	1.227	0.043	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.15	0	Right	Tilt	108	DFT-S-OFDM	QPSK	50	28	0659M	1:1	0.042	1.250	0.053	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.09	0	Left	Cheek	108	DFT-S-OFDM	QPSK	1	1	0659M	1:1	0.074	1.227	0.091	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.12	0	Left	Cheek	108	DFT-S-OFDM	QPSK	50	28	0659M	1:1	0.084	1.250	0.105	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.13	0	Left	Tilt	108	DFT-S-OFDM	QPSK	1	1	0659M	1:1	0.047	1.227	0.058	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.09	0	Left	Tilt	108	DFT-S-OFDM	QPSK	50	28	0659M	1:1	0.060	1.250	0.075	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-13
NR Band n66 (AWS) Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	0.05	0	Right	Cheek	DFT-S-OFDM	QPSK	1	53	0467M	1:1	0.049	1.194	0.059	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	0.12	0	Right	Cheek	DFT-S-OFDM	QPSK	50	28	0467M	1:1	0.050	1.189	0.059	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	-0.13	0	Right	Tilt	DFT-S-OFDM	QPSK	1	53	0467M	1:1	0.065	1.194	0.078	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	0.12	0	Right	Tilt	DFT-S-OFDM	QPSK	50	28	0467M	1:1	0.060	1.189	0.071	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	0.13	0	Left	Cheek	DFT-S-OFDM	QPSK	1	53	0467M	1:1	0.065	1.194	0.078	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	0.08	0	Left	Cheek	DFT-S-OFDM	QPSK	50	28	0467M	1:1	0.067	1.189	0.080	A13
1745.00	349000	Mid	NR Band n66 (AWS)	20	22.5	21.47	0.13	1.5	Left	Cheek	CP-OFDM	QPSK	1	1	0467M	1:1	0.042	1.268	0.053	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	-0.13	0	Left	Tilt	DFT-S-OFDM	QPSK	1	53	0467M	1:1	0.050	1.194	0.060	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	0.16	0	Left	Tilt	DFT-S-OFDM	QPSK	50	28	0467M	1:1	0.053	1.189	0.063	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

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**Table 11-14
DTS SISO Head SAR**

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maxiumum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2412	1	802.11b	DSSS	22	13.0	12.89	-0.03	Right	Cheek	2	0725M	1	98.9	0.010	-	1.026	1.011	-	
2412	1	802.11b	DSSS	22	13.0	12.89	-0.12	Right	Tilt	2	0725M	1	98.9	0.004	-	1.026	1.011	-	
2412	1	802.11b	DSSS	22	13.0	12.89	-0.11	Left	Cheek	2	0725M	1	98.9	0.012	0.000	1.026	1.011	0.000	
2412	1	802.11b	DSSS	22	13.0	12.89	-0.05	Left	Tilt	2	0725M	1	98.9	0.007	-	1.026	1.011	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

**Table 11-15
DTS MIMO Head SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2437	6	802.11n	OFDM	20	13.0	12.67	13.0	12.96	0.11	Right	Cheek	MIMO	0725M	13	92.2	0.685	0.349	1.079	1.085	0.409	
2437	6	802.11n	OFDM	20	13.0	12.67	13.0	12.96	0.12	Right	Tilt	MIMO	0725M	13	92.2	0.677	0.360	1.079	1.085	0.421	A14
2437	6	802.11n	OFDM	20	13.0	12.67	13.0	12.96	0.12	Left	Cheek	MIMO	0725M	13	92.2	0.294	-	1.079	1.085	-	
2437	6	802.11n	OFDM	20	13.0	12.67	13.0	12.96	0.11	Left	Tilt	MIMO	0725M	13	92.2	0.371	-	1.079	1.085	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged 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.

**Table 11-16
NII SISO Head SAR**

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	12.0	11.93	0.14	Right	Cheek	1	0721M	29.3	86.1	0.194	-	1.016	1.161	-	
5290	58	802.11ac	OFDM	80	12.0	11.93	0.15	Right	Tilt	1	0721M	29.3	86.1	0.254	0.090	1.016	1.161	0.106	A15
5290	58	802.11ac	OFDM	80	12.0	11.93	0.11	Left	Cheek	1	0721M	29.3	86.1	0.099	-	1.016	1.161	-	
5290	58	802.11ac	OFDM	80	12.0	11.93	0.11	Left	Tilt	1	0721M	29.3	86.1	0.100	-	1.016	1.161	-	
5690	138	802.11ac	OFDM	80	12.0	11.98	0.13	Right	Cheek	1	0721M	29.3	86.1	0.170	-	1.005	1.161	-	
5690	138	802.11ac	OFDM	80	12.0	11.98	0.17	Right	Tilt	1	0721M	29.3	86.1	0.165	-	1.005	1.161	-	
5690	138	802.11ac	OFDM	80	12.0	11.98	0.16	Left	Cheek	1	0721M	29.3	86.1	0.155	-	1.005	1.161	-	
5690	138	802.11ac	OFDM	80	12.0	11.98	0.12	Left	Tilt	1	0721M	29.3	86.1	0.182	0.057	1.005	1.161	0.067	
5775	155	802.11ac	OFDM	80	12.0	11.91	0.12	Right	Cheek	1	0721M	29.3	86.1	0.084	-	1.021	1.161	-	
5775	155	802.11ac	OFDM	80	12.0	11.91	0.17	Right	Tilt	1	0721M	29.3	86.1	0.104	-	1.021	1.161	-	
5775	155	802.11ac	OFDM	80	12.0	11.91	0.18	Left	Cheek	1	0721M	29.3	86.1	0.128	0.038	1.021	1.161	0.045	
5775	155	802.11ac	OFDM	80	12.0	11.91	0.19	Left	Tilt	1	0721M	29.3	86.1	0.114	-	1.021	1.161	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-17
NII MIMO Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)	(Power)	(Duty Cycle)	(W/kg)	
5290	58	802.11ac	OFDM	80	12.0	11.62	12.0	11.63	0.17	Right	Cheek	MIMO	0721M	58.5	86.3	0.207	0.063	1.091	1.159	0.080	
5290	58	802.11ac	OFDM	80	12.0	11.62	12.0	11.63	0.18	Right	Tilt	MIMO	0721M	58.5	86.3	0.174	-	1.091	1.159	-	
5290	58	802.11ac	OFDM	80	12.0	11.62	12.0	11.63	0.19	Left	Cheek	MIMO	0721M	58.5	86.3	0.088	-	1.091	1.159	-	
5290	58	802.11ac	OFDM	80	12.0	11.62	12.0	11.63	0.20	Left	Tilt	MIMO	0721M	58.5	86.3	0.094	-	1.091	1.159	-	
5690	138	802.11ac	OFDM	80	12.0	11.98	12.0	11.91	0.13	Right	Cheek	MIMO	0721M	58.5	86.3	0.126	-	1.021	1.159	-	
5690	138	802.11ac	OFDM	80	12.0	11.98	12.0	11.91	0.12	Right	Tilt	MIMO	0721M	58.5	86.3	0.149	-	1.021	1.159	-	
5690	138	802.11ac	OFDM	80	12.0	11.98	12.0	11.91	0.11	Left	Cheek	MIMO	0721M	58.5	86.3	0.178	-	1.021	1.159	-	
5690	138	802.11ac	OFDM	80	12.0	11.98	12.0	11.91	0.16	Left	Tilt	MIMO	0721M	58.5	86.3	0.199	0.058	1.021	1.159	0.069	
5775	155	802.11ac	OFDM	80	12.0	11.99	12.0	11.72	0.12	Right	Cheek	MIMO	0721M	58.5	86.3	0.102	-	1.067	1.159	-	
5775	155	802.11ac	OFDM	80	12.0	11.99	12.0	11.72	0.10	Right	Tilt	MIMO	0721M	58.5	86.3	0.138	-	1.067	1.159	-	
5775	155	802.11ac	OFDM	80	12.0	11.99	12.0	11.72	0.16	Left	Cheek	MIMO	0721M	58.5	86.3	0.119	-	1.067	1.159	-	
5775	155	802.11ac	OFDM	80	12.0	11.99	12.0	11.72	0.10	Left	Tilt	MIMO	0721M	58.5	86.3	0.144	0.056	1.067	1.159	0.069	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Note: To achieve the 15.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12.0 dBm.

Table 11-18
DSS Head SAR

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441.00	39	Bluetooth	FHSS	10.5	10.20	-0.08	Right	Cheek	1	0725M	1	76.80	0.093	1.072	1.302	0.130	A16
2441.00	39	Bluetooth	FHSS	10.5	10.20	-0.09	Right	Tilt	1	0725M	1	76.80	0.093	1.072	1.302	0.130	
2441.00	39	Bluetooth	FHSS	10.5	10.20	0.11	Left	Cheek	1	0725M	1	76.80	0.043	1.072	1.302	0.060	
2441.00	39	Bluetooth	FHSS	10.5	10.20	-0.09	Left	Tilt	1	0725M	1	76.80	0.086	1.072	1.302	0.120	
2441.00	39	Bluetooth	FHSS	10.5	9.31	0.19	Right	Cheek	2	0725M	1	76.80	0.000	1.315	1.302	0.000	
2441.00	39	Bluetooth	FHSS	10.5	9.31	0.17	Right	Tilt	2	0725M	1	76.80	0.000	1.315	1.302	0.000	
2441.00	39	Bluetooth	FHSS	10.5	9.31	0.19	Left	Cheek	2	0725M	1	76.80	0.000	1.315	1.302	0.000	
2441.00	39	Bluetooth	FHSS	10.5	9.31	0.00	Left	Tilt	2	0725M	1	76.80	0.000	1.315	1.302	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram									

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11.2 Standalone Body-Worn SAR Data

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

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
824.20	128	GSM 850	GSM	33.5	32.49	N/A	0.05	15 mm	A	0659M	1:8.3	back	0.133	1.262	0.168	A17
824.20	128	GSM 850	GSM	33.5	32.49	N/A	0.04	15 mm	A + B	0659M	1:8.3	back	0.048	1.262	0.061	
1909.80	810	GSM 1900	GSM	30.2	29.44	N/A	-0.05	15 mm	B	0469M	1:8.3	back	0.131	1.191	0.156	A19
826.40	4132	UMTS 850	RMC	25.8	24.53	9	-0.17	15 mm	A	0659M	1:1	back	0.128	1.340	0.172	A21
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.02	15 mm	A + B	0659M	1:1	back	0.099	1.340	0.133	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	N/A	0.00	15 mm	B	0469M	1:1	back	0.398	1.297	0.516	A23
1907.60	9538	UMTS 1900	RMC	25.0	23.78	N/A	0.07	15 mm	B	0442M	1:1	back	0.378	1.324	0.500	A25
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-20
LTE Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	9	-0.08	0	A + B	0616M	QPSK	1	0	15 mm	back	1:1	0.118	1.199	0.141	A27
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	9	0.12	1	A + B	0616M	QPSK	25	12	15 mm	back	1:1	0.092	1.189	0.109	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	18	-0.09	0	A	0616M	QPSK	1	0	15 mm	back	1:1	0.109	1.199	0.131	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	18	0.02	1	A	0616M	QPSK	25	12	15 mm	back	1:1	0.088	1.189	0.105	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	0.06	0	A + B	0616M	QPSK	1	0	15 mm	back	1:1	0.103	1.230	0.127	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	0.07	1	A + B	0616M	QPSK	25	12	15 mm	back	1:1	0.083	1.216	0.101	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	10	0.06	0	A	0616M	QPSK	1	0	15 mm	back	1:1	0.121	1.230	0.149	A29
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	10	0.09	1	A	0616M	QPSK	25	12	15 mm	back	1:1	0.100	1.216	0.122	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	0	-0.02	0	A	0601M	QPSK	1	0	15 mm	back	1:1	0.164	1.294	0.212	A31
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	0	0.04	1	A	0601M	QPSK	36	18	15 mm	back	1:1	0.136	1.288	0.175	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.05	0	A + B	0601M	QPSK	1	0	15 mm	back	1:1	0.113	1.294	0.146	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	0.06	1	A + B	0601M	QPSK	36	18	15 mm	back	1:1	0.094	1.288	0.121	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	N/A	-0.02	0	B	0543M	QPSK	1	0	15 mm	back	1:1	0.466	1.236	0.576	A33
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	N/A	-0.05	1	B	0543M	QPSK	50	25	15 mm	back	1:1	0.286	1.189	0.340	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	N/A	-0.15	0	B	0452M	QPSK	1	99	15 mm	back	1:1	0.263	1.189	0.313	A35
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	N/A	-0.12	1	B	0452M	QPSK	50	50	15 mm	back	1:1	0.226	1.175	0.266	
2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	N/A	-0.12	0	B	0460M	QPSK	1	50	15 mm	back	1:1.58	0.143	1.109	0.159	A37
2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	N/A	-0.14	1	B	0460M	QPSK	50	25	15 mm	back	1:1.58	0.102	1.164	0.119	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-21
NR Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	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	Ch.																	(W/kg)		(W/kg)		(W/kg)
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A	0.16	0	0	0691M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1.1	0.122	1.227	0.150	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A	0.08	0	0	0691M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1.1	0.134	1.250	0.168	A39
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.00	A	0.03	1.5	0	0691M	CP-OFDM	QPSK	1	1	15 mm	back	1.1	0.086	1.259	0.108	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.03	0	108	0691M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1.1	0.094	1.227	0.115	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.07	0	108	0691M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1.1	0.099	1.250	0.124	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.00	A + B	0.07	1.5	108	0691M	CP-OFDM	QPSK	1	1	15 mm	back	1.1	0.068	1.259	0.086	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	0.08	0	N/A	0454M	DFT-S-OFDM	QPSK	1	53	15 mm	back	1.1	0.446	1.194	0.533	A41
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	0.10	0	N/A	0454M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1.1	0.445	1.189	0.529	
1745.00	349000	Mid	NR Band n66 (AWS)	20	22.5	21.47	B	0.04	1.5	N/A	0454M	CP-OFDM	QPSK	1	1	15 mm	back	1.1	0.337	1.268	0.427	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

Table 11-22
DTS SISO Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2412	1	802.11b	DSSS	22	19.0	18.91	0.17	15 mm	2	0725M	1	back	98.9	0.033	0.020	1.021	1.011	0.021	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body									
Spatial Peak										1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population										averaged over 1 gram									

Table 11-23
DTS MIMO Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)	(W/kg)	(W/kg)		
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	0.15	15 mm	MIMO	0725M	1	back	98.9	0.073	0.046	1.042	1.011	0.048	A43
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Note: To achieve the 22.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19.0 dBm.

Table 11-24
NII SISO Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5320	64	802.11a	OFDM	20	18.0	17.74	0.19	15 mm	1	0721M	6	back	93.8	0.025	0.000	1.062	1.066	0.000	
5720	144	802.11a	OFDM	20	18.0	17.85	0.18	15 mm	1	0721M	6	back	93.8	0.019	0.000	1.035	1.066	0.000	
5785	157	802.11a	OFDM	20	18.0	17.80	0.19	15 mm	1	0721M	6	back	93.8	0.043	0.000	1.047	1.066	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body									
Spatial Peak										1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population										averaged over 1 gram									

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Table 11-25
NII MIMO Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)	(W/kg)			
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.17	15 mm	MIMO	0721M	13	back	86.9	0.016	0.005	1.175	1.151	0.007	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.19	15 mm	MIMO	0721M	13	back	86.9	0.019	0.007	1.109	1.151	0.009	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	-0.11	15 mm	MIMO	0721M	13	back	86.9	0.021	0.007	1.189	1.151	0.010	A45
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged 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 11-26
DSS Body-Worn SAR

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	17.5	17.29	0.08	15 mm	1	0725M	1	back	76.80	0.013	1.050	1.302	0.018	A47
2441	39	Bluetooth	FHSS	17.5	16.93	-0.13	15 mm	2	0725M	1	back	76.80	0.004	1.140	1.302	0.006	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body										
Spatial Peak							1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population							averaged over 1 gram										

11.3 Standalone Hotspot SAR Data

Table 11-27
GPRS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	190	GSM 850	GPRS	30.5	29.47	-0.17	10 mm	A	0659M	3	1:2.76	back	0.253	1.268	0.321	A18
836.60	190	GSM 850	GPRS	30.5	29.47	-0.10	10 mm	A	0659M	3	1:2.76	front	0.076	1.268	0.096	
836.60	190	GSM 850	GPRS	30.5	29.47	-0.08	10 mm	A	0659M	3	1:2.76	bottom	0.066	1.268	0.084	
836.60	190	GSM 850	GPRS	30.5	29.47	-0.12	10 mm	A	0659M	3	1:2.76	right	0.188	1.268	0.238	
836.60	190	GSM 850	GPRS	30.5	29.47	-0.08	10 mm	A + B	0659M	3	1:2.76	back	0.211	1.268	0.268	
836.60	190	GSM 850	GPRS	30.5	29.47	0.06	10 mm	A + B	0659M	3	1:2.76	front	0.073	1.268	0.093	
836.60	190	GSM 850	GPRS	30.5	29.47	0.08	10 mm	A + B	0659M	3	1:2.76	bottom	0.047	1.268	0.060	
836.60	190	GSM 850	GPRS	30.5	29.47	0.12	10 mm	A + B	0659M	3	1:2.76	right	0.173	1.268	0.219	
836.60	190	GSM 850	GPRS	30.5	29.47	0.12	10 mm	A + B	0659M	3	1:2.76	left	0.080	1.268	0.101	
1909.80	810	GSM 1900	GPRS	23.0	21.97	-0.16	10 mm	B	0469M	4	1:2.076	back	0.124	1.268	0.157	
1909.80	810	GSM 1900	GPRS	23.0	21.97	-0.19	10 mm	B	0469M	4	1:2.076	front	0.029	1.268	0.037	
1909.80	810	GSM 1900	GPRS	23.0	21.97	0.00	10 mm	B	0469M	4	1:2.076	bottom	0.311	1.268	0.394	A20
1909.80	810	GSM 1900	GPRS	23.0	21.97	-0.05	10 mm	B	0469M	4	1:2.076	right	0.046	1.268	0.058	
1909.80	810	GSM 1900	GPRS	23.0	21.97	-0.09	10 mm	B	0469M	4	1:2.076	left	0.017	1.268	0.022	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 11-28
UMTS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
826.40	4132	UMTS 850	RMC	25.8	24.53	9	-0.07	10 mm	A	0659M	1:1	back	0.249	1.340	0.334	A22
826.40	4132	UMTS 850	RMC	25.8	24.53	9	-0.03	10 mm	A	0659M	1:1	front	0.100	1.340	0.134	
826.40	4132	UMTS 850	RMC	25.8	24.53	9	0.05	10 mm	A	0659M	1:1	bottom	0.085	1.340	0.114	
826.40	4132	UMTS 850	RMC	25.8	24.53	9	-0.11	10 mm	A	0659M	1:1	right	0.230	1.340	0.308	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.00	10 mm	A + B	0659M	1:1	back	0.222	1.340	0.297	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.08	10 mm	A + B	0659M	1:1	front	0.077	1.340	0.103	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.06	10 mm	A + B	0659M	1:1	bottom	0.057	1.340	0.076	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	-0.04	10 mm	A + B	0659M	1:1	right	0.197	1.340	0.264	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.03	10 mm	A + B	0659M	1:1	left	0.098	1.340	0.131	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	N/A	-0.02	10 mm	B	0460M	1:1	back	0.306	1.156	0.354	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	N/A	0.12	10 mm	B	0460M	1:1	front	0.056	1.156	0.065	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	N/A	-0.06	10 mm	B	0460M	1:1	bottom	0.414	1.156	0.479	A24
1752.60	1513	UMTS 1750	RMC	19.0	18.37	N/A	0.12	10 mm	B	0460M	1:1	right	0.066	1.156	0.076	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	N/A	0.18	10 mm	B	0460M	1:1	left	0.031	1.156	0.036	
1907.60	9538	UMTS 1900	RMC	19.0	18.44	N/A	0.14	10 mm	B	0442M	1:1	back	0.192	1.138	0.218	
1907.60	9538	UMTS 1900	RMC	19.0	18.44	N/A	0.08	10 mm	B	0442M	1:1	front	0.040	1.138	0.046	
1907.60	9538	UMTS 1900	RMC	19.0	18.44	N/A	-0.03	10 mm	B	0442M	1:1	bottom	0.339	1.138	0.386	A26
1907.60	9538	UMTS 1900	RMC	19.0	18.44	N/A	0.01	10 mm	B	0442M	1:1	right	0.193	1.138	0.220	
1907.60	9538	UMTS 1900	RMC	19.0	18.44	N/A	-0.03	10 mm	B	0442M	1:1	left	0.089	1.138	0.101	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-29
LTE Band 12 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	0	0.12	0	A + B	0616M	QPSK	1	0	10 mm	back	1:1	0.195	1.199	0.234	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	0	0.11	1	A + B	0616M	QPSK	25	12	10 mm	back	1:1	0.154	1.189	0.183	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	0	-0.14	0	A + B	0616M	QPSK	1	0	10 mm	front	1:1	0.086	1.199	0.103	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	0	0.07	1	A + B	0616M	QPSK	25	12	10 mm	front	1:1	0.068	1.189	0.081	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	0	0.05	0	A + B	0616M	QPSK	1	0	10 mm	bottom	1:1	0.051	1.199	0.061	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	0	0.11	1	A + B	0616M	QPSK	25	12	10 mm	bottom	1:1	0.042	1.189	0.050	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	0	-0.16	0	A + B	0616M	QPSK	1	0	10 mm	right	1:1	0.246	1.199	0.295	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	0	-0.04	1	A + B	0616M	QPSK	25	12	10 mm	right	1:1	0.197	1.189	0.234	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	0	0.17	0	A + B	0616M	QPSK	1	0	10 mm	left	1:1	0.086	1.199	0.103	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	0	-0.04	1	A + B	0616M	QPSK	25	12	10 mm	left	1:1	0.069	1.189	0.082	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	18	0.05	0	A	0616M	QPSK	1	0	10 mm	back	1:1	0.179	1.199	0.215	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	18	0.05	1	A	0616M	QPSK	25	12	10 mm	back	1:1	0.151	1.189	0.180	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	18	0.00	0	A	0616M	QPSK	1	0	10 mm	front	1:1	0.082	1.199	0.098	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	18	0.13	1	A	0616M	QPSK	25	12	10 mm	front	1:1	0.063	1.189	0.075	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	18	-0.09	0	A	0616M	QPSK	1	0	10 mm	bottom	1:1	0.069	1.199	0.083	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	18	-0.12	1	A	0616M	QPSK	25	12	10 mm	bottom	1:1	0.062	1.189	0.074	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	18	-0.16	0	A	0616M	QPSK	1	0	10 mm	right	1:1	0.264	1.199	0.317	A28
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	18	0.03	1	A	0616M	QPSK	25	12	10 mm	right	1:1	0.206	1.189	0.245	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-30
LTE Band 13 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	0.07	0	A + B	0616M	QPSK	1	0	10 mm	back	1:1	0.240	1.230	0.295	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	0.08	1	A + B	0616M	QPSK	25	12	10 mm	back	1:1	0.197	1.216	0.240	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	-0.02	0	A + B	0616M	QPSK	1	0	10 mm	front	1:1	0.103	1.230	0.127	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	0.07	1	A + B	0616M	QPSK	25	12	10 mm	front	1:1	0.079	1.216	0.096	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	0.17	0	A + B	0616M	QPSK	1	0	10 mm	bottom	1:1	0.072	1.230	0.089	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	0.06	1	A + B	0616M	QPSK	25	12	10 mm	bottom	1:1	0.058	1.216	0.071	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	-0.02	0	A + B	0616M	QPSK	1	0	10 mm	right	1:1	0.216	1.230	0.266	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	-0.08	1	A + B	0616M	QPSK	25	12	10 mm	right	1:1	0.167	1.216	0.203	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	-0.14	0	A + B	0616M	QPSK	1	0	10 mm	left	1:1	0.105	1.230	0.129	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	0.05	1	A + B	0616M	QPSK	25	12	10 mm	left	1:1	0.078	1.216	0.095	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	10	-0.18	0	A	0616M	QPSK	1	0	10 mm	back	1:1	0.258	1.230	0.317	A30
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	10	-0.13	1	A	0616M	QPSK	25	12	10 mm	back	1:1	0.217	1.216	0.264	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	10	0.04	0	A	0616M	QPSK	1	0	10 mm	front	1:1	0.090	1.230	0.111	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	10	0.12	1	A	0616M	QPSK	25	12	10 mm	front	1:1	0.076	1.216	0.092	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	10	-0.17	0	A	0616M	QPSK	1	0	10 mm	bottom	1:1	0.088	1.230	0.108	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	10	0.09	1	A	0616M	QPSK	25	12	10 mm	bottom	1:1	0.075	1.216	0.091	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	10	-0.14	0	A	0616M	QPSK	1	0	10 mm	right	1:1	0.197	1.230	0.242	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	10	0.02	1	A	0616M	QPSK	25	12	10 mm	right	1:1	0.168	1.216	0.204	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram												

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Table 11-31
LTE Band 26 (Cell) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	9	-0.15	0	A	0601M	QPSK	1	0	10 mm	back	1:1	0.309	1.294	0.400	A32
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	9	-0.08	1	A	0601M	QPSK	36	18	10 mm	back	1:1	0.250	1.288	0.322	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	0	0.06	0	A	0601M	QPSK	1	0	10 mm	front	1:1	0.075	1.294	0.097	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	0	0.03	1	A	0601M	QPSK	36	18	10 mm	front	1:1	0.060	1.288	0.077	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	9	-0.01	0	A	0601M	QPSK	1	0	10 mm	bottom	1:1	0.069	1.294	0.089	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	9	0.05	1	A	0601M	QPSK	36	18	10 mm	bottom	1:1	0.050	1.288	0.064	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	0	-0.10	0	A	0601M	QPSK	1	0	10 mm	right	1:1	0.166	1.294	0.215	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	0	-0.09	1	A	0601M	QPSK	36	18	10 mm	right	1:1	0.129	1.288	0.166	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.02	0	A + B	0601M	QPSK	1	0	10 mm	back	1:1	0.262	1.294	0.339	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	0.05	1	A + B	0601M	QPSK	36	18	10 mm	back	1:1	0.214	1.288	0.276	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.21	0	A + B	0601M	QPSK	1	0	10 mm	front	1:1	0.069	1.294	0.089	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	0.02	1	A + B	0601M	QPSK	36	18	10 mm	front	1:1	0.058	1.288	0.075	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.19	0	A + B	0601M	QPSK	1	0	10 mm	bottom	1:1	0.043	1.294	0.056	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	0.15	1	A + B	0601M	QPSK	36	18	10 mm	bottom	1:1	0.030	1.288	0.039	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	109	0.03	0	A + B	0601M	QPSK	1	0	10 mm	right	1:1	0.089	1.294	0.115	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	109	0.08	1	A + B	0601M	QPSK	36	18	10 mm	right	1:1	0.077	1.288	0.099	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.09	0	A + B	0601M	QPSK	1	0	10 mm	left	1:1	0.057	1.294	0.074	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	0.12	1	A + B	0601M	QPSK	36	18	10 mm	left	1:1	0.046	1.288	0.059	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body												
Spatial Peak									1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 1 gram												

Table 11-32
LTE Band 66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	0.01	0	B	0460M	QPSK	1	0	10 mm	back	1:1	0.287	1.153	0.331	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	-0.03	0	B	0460M	QPSK	50	25	10 mm	back	1:1	0.273	1.146	0.313	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	-0.02	0	B	0460M	QPSK	1	0	10 mm	front	1:1	0.047	1.153	0.054	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	-0.03	0	B	0460M	QPSK	50	25	10 mm	front	1:1	0.046	1.146	0.053	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	-0.06	0	B	0460M	QPSK	1	0	10 mm	bottom	1:1	0.407	1.153	0.469	A34
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	-0.07	0	B	0460M	QPSK	50	25	10 mm	bottom	1:1	0.407	1.146	0.466	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	0.05	0	B	0460M	QPSK	1	0	10 mm	right	1:1	0.077	1.153	0.089	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	0.00	0	B	0460M	QPSK	50	25	10 mm	right	1:1	0.079	1.146	0.091	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	0.14	0	B	0460M	QPSK	1	0	10 mm	left	1:1	0.034	1.153	0.039	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	0.12	0	B	0460M	QPSK	50	25	10 mm	left	1:1	0.034	1.146	0.039	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram												

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Table 11-33
LTE Band 25 (PCS) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	0.03	0	B	0452M	QPSK	1	99	10 mm	back	1:1	0.167	1.125	0.188	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	-0.16	0	B	0452M	QPSK	50	50	10 mm	back	1:1	0.176	1.107	0.195	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	-0.04	0	B	0452M	QPSK	1	99	10 mm	front	1:1	0.124	1.125	0.140	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	-0.14	0	B	0452M	QPSK	50	50	10 mm	front	1:1	0.134	1.107	0.148	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	0.02	0	B	0452M	QPSK	1	99	10 mm	bottom	1:1	0.285	1.125	0.321	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	-0.01	0	B	0452M	QPSK	50	50	10 mm	bottom	1:1	0.293	1.107	0.324	A36
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	-0.06	0	B	0452M	QPSK	1	99	10 mm	right	1:1	0.055	1.125	0.062	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	0.13	0	B	0452M	QPSK	50	50	10 mm	right	1:1	0.057	1.107	0.063	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	-0.21	0	B	0452M	QPSK	1	99	10 mm	left	1:1	0.027	1.125	0.030	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	-0.03	0	B	0452M	QPSK	50	50	10 mm	left	1:1	0.029	1.107	0.032	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-34
LTE Band 41 Hotspot SAR

MEASUREMENT RESULTS																					
Power Class	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
	MHz	Ch.															(W/kg)		(W/kg)		
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.32	0.13	0	B	0460M	QPSK	1	50	10 mm	back	1:1.58	0.113	1.169	0.132	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.39	0.05	0	B	0460M	QPSK	50	25	10 mm	back	1:1.58	0.109	1.151	0.125	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.32	0.03	0	B	0460M	QPSK	1	50	10 mm	front	1:1.58	0.043	1.169	0.050	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.39	0.19	0	B	0460M	QPSK	50	25	10 mm	front	1:1.58	0.042	1.151	0.048	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.32	0.02	0	B	0460M	QPSK	1	50	10 mm	bottom	1:1.58	0.259	1.169	0.303	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.39	-0.05	0	B	0460M	QPSK	50	25	10 mm	bottom	1:1.58	0.263	1.151	0.303	A38
Power Class 2	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.36	-0.17	0	B	0460M	QPSK	50	25	10 mm	bottom	1:2.31	0.189	1.159	0.219	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.32	-0.04	0	B	0460M	QPSK	1	50	10 mm	right	1:1.58	0.021	1.169	0.025	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.39	-0.02	0	B	0460M	QPSK	50	25	10 mm	right	1:1.58	0.020	1.151	0.023	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.32	-0.04	0	B	0460M	QPSK	1	50	10 mm	left	1:1.58	0.014	1.169	0.016	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.39	0.18	0	B	0460M	QPSK	50	25	10 mm	left	1:1.58	0.014	1.151	0.016	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram												

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Table 11-35
NR Band n5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	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 (2g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.61	A	-0.07	0	9	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.288	1.227	0.353	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.53	A	-0.03	0	9	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.298	1.250	0.373	A40
836.50	167300	Md	NR Band n5 (Cell)	20	24.0	23.00	A	-0.01	1.5	9	0691M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.197	1.259	0.248	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.61	A	0.10	0	0	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.074	1.227	0.091	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.53	A	-0.01	0	0	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.079	1.250	0.099	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.61	A	0.01	0	9	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.088	1.227	0.108	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.53	A	0.08	0	9	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.077	1.250	0.096	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.61	A	0.07	0	0	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.149	1.227	0.183	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.53	A	0.05	0	0	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.148	1.250	0.185	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.01	0	108	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.224	1.227	0.275	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.03	0	108	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.232	1.250	0.290	
836.50	167300	Md	NR Band n5 (Cell)	20	24.0	23.00	A + B	0.01	1.5	108	0691M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.159	1.259	0.200	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.07	0	108	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.065	1.227	0.080	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.06	0	108	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.070	1.250	0.088	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.13	0	108	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.054	1.227	0.066	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.53	A + B	-0.07	0	108	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.048	1.250	0.060	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.03	0	109	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.099	1.227	0.121	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.12	0	109	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.099	1.250	0.124	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.61	A + B	-0.06	0	108	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.054	1.227	0.066	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.15	0	108	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.064	1.250	0.080	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body													
Spatial Peak									1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population									averaged over 1 gram													

Table 11-36
NR Band n66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
																		(W/kg)	(W/kg)	(W/kg)	
MHz	Ch.																				
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	-0.03	0	0454M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.256	1.233	0.316	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	-0.01	0	0454M	DFT-S-OFDM	QPSK	50	0	10 mm	back	1:1	0.247	1.262	0.312	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	0.07	0	0454M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.050	1.233	0.062	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	0.08	0	0454M	DFT-S-OFDM	QPSK	50	0	10 mm	front	1:1	0.049	1.262	0.062	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	0.00	0	0454M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.456	1.233	0.562	A42
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	-0.06	0	0454M	DFT-S-OFDM	QPSK	50	0	10 mm	bottom	1:1	0.418	1.262	0.528	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.92	B	-0.08	0	0454M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.452	1.282	0.579	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	0.10	0	0454M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.077	1.233	0.095	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	0.00	0	0454M	DFT-S-OFDM	QPSK	50	0	10 mm	right	1:1	0.069	1.262	0.087	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	0.10	0	0454M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.035	1.233	0.043	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	0.16	0	0454M	DFT-S-OFDM	QPSK	50	0	10 mm	left	1:1	0.034	1.262	0.043	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body												
Spatial Peak									1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 1 gram												

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Table 11-37
WLAN SISO Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2412	1	802.11b	DSSS	22	19.0	18.91	-0.15	10 mm	2	0725M	1	back	98.9	0.064	-	1.021	1.011	-	
2412	1	802.11b	DSSS	22	19.0	18.91	-0.10	10 mm	2	0725M	1	front	98.9	0.146	-	1.021	1.011	-	
2412	1	802.11b	DSSS	22	19.0	18.91	-0.02	10 mm	2	0725M	1	bottom	98.9	0.318	0.198	1.021	1.011	0.204	
2412	1	802.11b	DSSS	22	19.0	18.91	-0.02	10 mm	2	0725M	1	left	98.9	0.056	-	1.021	1.011	-	
5785	157	802.11a	OFDM	20	18.0	17.80	0.19	10 mm	1	0721M	6	back	93.8	0.037	-	1.047	1.066	-	
5785	157	802.11a	OFDM	20	18.0	17.80	0.10	10 mm	1	0721M	6	front	93.8	0.074	-	1.047	1.066	-	
5785	157	802.11a	OFDM	20	18.0	17.80	0.13	10 mm	1	0721M	6	top	93.8	0.120	0.044	1.047	1.066	0.049	A46
5785	157	802.11a	OFDM	20	18.0	17.80	0.00	10 mm	1	0721M	6	left	93.8	0.033	-	1.047	1.066	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-38
WLAN MIMO Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	0.01	10 mm	MIMO	0725M	1	back	98.9	0.108	-	1.042	1.011	-	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	0.06	10 mm	MIMO	0725M	1	front	98.9	0.374	-	1.042	1.011	-	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	0.00	10 mm	MIMO	0725M	1	top	98.9	0.505	0.302	1.042	1.011	0.318	A44
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	-0.10	10 mm	MIMO	0725M	1	bottom	98.9	0.417	-	1.042	1.011	-	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	0.00	10 mm	MIMO	0725M	1	left	98.9	0.175	-	1.042	1.011	-	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	0.00	10 mm	MIMO	0721M	13	back	86.9	0.017	-	1.189	1.151	-	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	0.00	10 mm	MIMO	0721M	13	front	86.9	0.119	-	1.189	1.151	-	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	0.12	10 mm	MIMO	0721M	13	top	86.9	0.119	-	1.189	1.151	-	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	-0.14	10 mm	MIMO	0721M	13	bottom	86.9	0.126	0.041	1.189	1.151	0.056	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	0.00	10 mm	MIMO	0721M	13	left	86.9	0.027	-	1.189	1.151	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: For 2450 MHz WLAN, to achieve the 22.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19.0 dBm. For 5 GHz WLAN, 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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**Table 11-39
DSS Hotspot SAR**

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	17.5	17.29	0.12	10 mm	1	0725M	1	back	76.80	0.020	1.050	1.302	0.027	
2441	39	Bluetooth	FHSS	17.5	17.29	0.18	10 mm	1	0725M	1	front	76.80	0.093	1.050	1.302	0.127	
2441	39	Bluetooth	FHSS	17.5	17.29	-0.04	10 mm	1	0725M	1	top	76.80	0.126	1.050	1.302	0.172	A48
2441	39	Bluetooth	FHSS	17.5	17.29	-0.08	10 mm	1	0725M	1	left	76.80	0.029	1.050	1.302	0.040	
2441	39	Bluetooth	FHSS	17.5	16.93	0.08	10 mm	2	0725M	1	back	76.80	0.009	1.140	1.302	0.013	
2441	39	Bluetooth	FHSS	17.5	16.93	0.01	10 mm	2	0725M	1	front	76.80	0.028	1.140	1.302	0.042	
2441	39	Bluetooth	FHSS	17.5	16.93	0.08	10 mm	2	0725M	1	bottom	76.80	0.062	1.140	1.302	0.092	
2441	39	Bluetooth	FHSS	17.5	16.93	0.19	10 mm	2	0725M	1	left	76.80	0.008	1.140	1.302	0.012	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

11.4 Standalone Phablet SAR Data

**Table 11-40
GPRS 1900 Phablet SAR Data**

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.												(W/kg)			
1909.80	810	GSM 1900	GPRS	27.5	27.11	-0.18	10 mm	B	0469M	3	1:2.76	back	0.156	1.094	0.171	
1909.80	810	GSM 1900	GPRS	27.5	27.11	0.15	0 mm	B	0469M	3	1:2.76	front	0.146	1.094	0.160	
1909.80	810	GSM 1900	GPRS	27.5	27.11	0.13	12 mm	B	0469M	3	1:2.76	bottom	0.171	1.094	0.187	
1909.80	810	GSM 1900	GPRS	27.5	27.11	0.13	0 mm	B	0469M	3	1:2.76	right	0.153	1.094	0.167	
1909.80	810	GSM 1900	GPRS	27.5	27.11	0.21	0 mm	B	0469M	3	1:2.76	left	0.056	1.094	0.061	
1909.80	810	GSM 1900	GPRS	23.0	21.97	-0.17	0 mm	B	0469M	4	1:2.076	back	0.699	1.268	0.886	
1850.20	512	GSM 1900	GPRS	23.0	21.49	-0.12	0 mm	B	0469M	4	1:2.076	bottom	1.180	1.416	1.671	
1880.00	661	GSM 1900	GPRS	23.0	21.84	-0.12	0 mm	B	0469M	4	1:2.076	bottom	1.320	1.306	1.724	A49
1909.80	810	GSM 1900	GPRS	23.0	21.97	-0.13	0 mm	B	0469M	4	1:2.076	bottom	1.140	1.268	1.446	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams									

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Table 11-41
UMTS Band 4 Phablet SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	-0.04	10 mm	B	0469M	1:1	back	0.495	1.297	0.642	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	-0.01	0 mm	B	0469M	1:1	front	0.496	1.297	0.643	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	0.04	12 mm	B	0469M	1:1	bottom	0.663	1.297	0.860	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	0.03	0 mm	B	0469M	1:1	right	0.670	1.297	0.869	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	0.12	0 mm	B	0469M	1:1	left	0.191	1.297	0.248	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	-0.13	0 mm	B	0460M	1:1	back	0.915	1.156	1.058	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	0.05	0 mm	B	0460M	1:1	bottom	0.974	1.156	1.126	A50
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

Table 11-42
UMTS Band 2 Phablet SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	-0.09	10 mm	B	0523M	1:1	back	0.529	1.324	0.700	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	-0.12	0 mm	B	0523M	1:1	front	1.150	1.324	1.523	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	-0.02	12 mm	B	0523M	1:1	bottom	0.822	1.324	1.088	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	0.00	0 mm	B	0523M	1:1	right	0.655	1.324	0.867	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	0.10	0 mm	B	0523M	1:1	left	0.221	1.324	0.293	
1907.60	9538	UMTS 1900	RMC	19.0	18.44	-0.21	0 mm	B	0523M	1:1	back	0.823	1.138	0.937	
1852.40	9262	UMTS 1900	RMC	19.0	18.05	-0.15	0 mm	B	0523M	1:1	bottom	1.650	1.245	2.054	
1880.00	9400	UMTS 1900	RMC	19.0	18.14	-0.15	0 mm	B	0523M	1:1	bottom	1.870	1.219	2.280	A51
1907.60	9538	UMTS 1900	RMC	19.0	18.44	-0.12	0 mm	B	0523M	1:1	bottom	1.760	1.138	2.003	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

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Table 11-43
LTE Band 66 (AWS) Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.05	0	B	0543M	QPSK	1	0	10 mm	back	1:1	0.531	1.236	0.656	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	-0.06	1	B	0543M	QPSK	50	25	10 mm	back	1:1	0.402	1.189	0.478	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	0.03	0	B	0543M	QPSK	1	0	0 mm	front	1:1	0.606	1.236	0.749	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.07	1	B	0543M	QPSK	50	25	0 mm	front	1:1	0.470	1.189	0.559	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.09	0	B	0543M	QPSK	1	0	12 mm	bottom	1:1	0.784	1.236	0.969	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	-0.13	1	B	0543M	QPSK	50	25	12 mm	bottom	1:1	0.629	1.189	0.748	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	0.09	0	B	0543M	QPSK	1	0	0 mm	right	1:1	0.807	1.236	0.997	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.09	1	B	0543M	QPSK	50	25	0 mm	right	1:1	0.665	1.189	0.791	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	0.08	0	B	0543M	QPSK	1	0	0 mm	left	1:1	0.261	1.236	0.323	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.06	1	B	0543M	QPSK	50	25	0 mm	left	1:1	0.201	1.189	0.239	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	-0.15	0	B	0460M	QPSK	1	0	0 mm	back	1:1	0.840	1.153	0.969	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	-0.12	0	B	0460M	QPSK	50	25	0 mm	back	1:1	0.831	1.146	0.952	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	0.05	0	B	0460M	QPSK	1	0	0 mm	bottom	1:1	0.851	1.153	0.981	A52
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	0.08	0	B	0460M	QPSK	50	25	0 mm	bottom	1:1	0.840	1.146	0.963	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet												
Spatial Peak								4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 10 grams												

Table 11-44
LTE Band 25 (AWS) Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
																	(W/kg)		(W/kg)	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	0.00	0	B	0523M	QPSK	1	99	10 mm	back	1:1	0.374	1.189	0.445	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	-0.02	1	B	0523M	QPSK	50	50	10 mm	back	1:1	0.313	1.175	0.368	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	0.05	0	B	0523M	QPSK	1	99	0 mm	front	1:1	1.350	1.189	1.605	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.07	1	B	0523M	QPSK	50	50	0 mm	front	1:1	1.170	1.175	1.375	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	-0.05	0	B	0523M	QPSK	1	99	12 mm	bottom	1:1	0.847	1.189	1.007	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	-0.01	1	B	0523M	QPSK	50	50	12 mm	bottom	1:1	0.738	1.175	0.867	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	-0.01	0	B	0523M	QPSK	1	99	0 mm	right	1:1	0.749	1.189	0.891	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.03	1	B	0523M	QPSK	50	50	0 mm	right	1:1	0.616	1.175	0.724	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	0.01	0	B	0523M	QPSK	1	99	0 mm	left	1:1	0.357	1.189	0.424	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.01	1	B	0523M	QPSK	50	50	0 mm	left	1:1	0.283	1.175	0.333	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	-0.01	0	B	0523M	QPSK	1	99	0 mm	back	1:1	0.906	1.125	1.019	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	0.04	0	B	0523M	QPSK	50	50	0 mm	back	1:1	0.949	1.107	1.051	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	-0.15	0	B	0523M	QPSK	1	99	0 mm	bottom	1:1	1.690	1.125	1.901	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.0	18.34	-0.16	0	B	0523M	QPSK	50	50	0 mm	bottom	1:1	1.780	1.164	2.072	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	-0.17	0	B	0523M	QPSK	50	50	0 mm	bottom	1:1	1.790	1.135	2.032	A53
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	-0.12	0	B	0523M	QPSK	50	50	0 mm	bottom	1:1	1.760	1.107	1.948	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.37	-0.13	0	B	0523M	QPSK	100	0	0 mm	bottom	1:1	1.750	1.156	2.023	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet												
Spatial Peak								4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 10 grams												

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Table 11-45
LTE Band 41 Phablet SAR

MEASUREMENT RESULTS																				
Power Class	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #
	MHz	Ch.															(W/kg)			
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	23.0	22.55	-0.09	0	B	0532M	QPSK	1	50	10 mm	back	1.158	0.122	1.109	0.135
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	22.0	21.34	-0.01	1	B	0532M	QPSK	50	25	10 mm	back	1.158	0.102	1.164	0.119
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	23.0	22.55	-0.04	0	B	0532M	QPSK	1	50	0 mm	front	1.158	0.048	1.109	0.053
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	22.0	21.34	-0.03	1	B	0532M	QPSK	50	25	0 mm	front	1.158	0.040	1.164	0.047
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	23.0	22.55	0.02	0	B	0532M	QPSK	1	50	12 mm	bottom	1.158	0.258	1.109	0.286
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	22.0	21.34	0.00	1	B	0532M	QPSK	50	25	12 mm	bottom	1.158	0.211	1.164	0.246
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	23.0	22.55	-0.05	0	B	0532M	QPSK	1	50	0 mm	right	1.158	0.125	1.109	0.139
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	22.0	21.34	0.04	1	B	0532M	QPSK	50	25	0 mm	right	1.158	0.099	1.164	0.115
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	23.0	22.55	-0.10	0	B	0532M	QPSK	1	50	0 mm	left	1.158	0.122	1.109	0.135
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	22.0	21.34	-0.03	1	B	0532M	QPSK	50	25	0 mm	left	1.158	0.100	1.164	0.116
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	19.0	18.32	0.01	0	B	0542M	QPSK	1	50	0 mm	back	1.158	0.512	1.169	0.599
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	19.0	18.39	-0.01	0	B	0542M	QPSK	50	25	0 mm	back	1.158	0.522	1.151	0.601
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	19.0	18.32	-0.01	0	B	0542M	QPSK	1	50	0 mm	bottom	1.158	1.260	1.169	1.473
Power Class 3	2636.50	41055	Md-High	LTE Band 41	20	19.0	18.39	-0.07	0	B	0542M	QPSK	50	25	0 mm	bottom	1.158	1.280	1.151	1.473
Power Class 2	2636.50	41055	Md-High	LTE Band 41	20	19.0	18.36	0.01	0	B	0542M	QPSK	50	25	0 mm	bottom	1.231	0.872	1.159	1.011
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

Table 11-46
NR Band n66 (AWS) Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)																(W/kg)			
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	0.10	0	0467M	DFT-S-OFDM	QPSK	1	53	10 mm	back	1:1	0.617	1.194	0.737	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	-0.10	0	0467M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.594	1.189	0.706	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	0.12	0	0467M	DFT-S-OFDM	QPSK	1	53	0 mm	front	1:1	0.527	1.194	0.629	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	0.12	0	0467M	DFT-S-OFDM	QPSK	50	28	0 mm	front	1:1	0.523	1.189	0.622	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	-0.09	0	0467M	DFT-S-OFDM	QPSK	1	53	12 mm	bottom	1:1	0.577	1.194	0.689	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	-0.06	0	0467M	DFT-S-OFDM	QPSK	50	28	12 mm	bottom	1:1	0.560	1.189	0.666	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	0.09	0	0467M	DFT-S-OFDM	QPSK	1	53	0 mm	right	1:1	0.678	1.194	0.810	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	0.00	0	0467M	DFT-S-OFDM	QPSK	50	28	0 mm	right	1:1	0.686	1.189	0.816	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	0.04	0	0467M	DFT-S-OFDM	QPSK	1	53	0 mm	left	1:1	0.233	1.194	0.278	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	-0.05	0	0467M	DFT-S-OFDM	QPSK	50	28	0 mm	left	1:1	0.234	1.189	0.278	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	-0.10	0	0467M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.898	1.233	1.107	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	-0.20	0	0467M	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.910	1.262	1.148	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	-0.10	0	0467M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.680	1.233	2.071	
1745.00	349000	Mid	NR Band n66 (AWS)	20	19.0	17.96	B	0.06	0	0467M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.550	1.271	1.970	
1770.00	354000	High	NR Band n66 (AWS)	20	19.0	17.96	B	-0.19	0	0467M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.430	1.271	1.818	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	-0.03	0	0467M	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	1.690	1.262	2.133	A55
1745.00	349000	Mid	NR Band n66 (AWS)	20	19.0	17.89	B	0.01	0	0467M	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	1.570	1.291	2.027	
1770.00	354000	High	NR Band n66 (AWS)	20	19.0	17.83	B	-0.12	0	0467M	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	1.420	1.309	1.859	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.91	B	-0.12	0	0467M	DFT-S-OFDM	QPSK	100	0	0 mm	bottom	1:1	1.670	1.285	2.146	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.92	B	-0.06	0	0467M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.670	1.282	2.141	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak									Extremity												
Uncontrolled Exposure/General Population									4.0 W/kg (mW/g)												
									averaged over 10 grams												

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Table 11-47
WLAN Phablet SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5320	64	802.11a	OFDM	20	18.0	17.74	0.13	0 mm	1	0721M	6	back	93.8	0.034	-	1.062	1.066	-	
5320	64	802.11a	OFDM	20	18.0	17.74	-0.15	0 mm	1	0721M	6	front	93.8	3.095	-	1.062	1.066	-	
5320	64	802.11a	OFDM	20	18.0	17.74	-0.03	0 mm	1	0721M	6	top	93.8	3.730	0.283	1.062	1.066	0.320	
5320	64	802.11a	OFDM	20	18.0	17.74	0.10	0 mm	1	0721M	6	left	93.8	0.134	-	1.062	1.066	-	
5720	144	802.11a	OFDM	20	18.0	17.85	0.13	0 mm	1	0721M	6	back	93.8	0.044	-	1.035	1.066	-	
5720	144	802.11a	OFDM	20	18.0	17.85	0.13	0 mm	1	0721M	6	front	93.8	1.482	-	1.035	1.066	-	
5720	144	802.11a	OFDM	20	18.0	17.85	0.18	0 mm	1	0721M	6	top	93.8	2.962	0.331	1.035	1.066	0.365	
5720	144	802.11a	OFDM	20	18.0	17.85	0.12	0 mm	1	0721M	6	left	93.8	0.221	-	1.035	1.066	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

Table 11-48
WLAN MIMO Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.															W/kg	(W/kg)	(W/kg)			
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.13	0 mm	MIMO	0721M	13	back	86.9	0.496	-	1.175	1.151	-	
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.10	0 mm	MIMO	0721M	13	front	86.9	3.823	-	1.175	1.151	-	
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.03	0 mm	MIMO	0721M	13	top	86.9	2.983	-	1.175	1.151	-	
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	-0.18	0 mm	MIMO	0721M	13	bottom	86.9	9.717	0.618	1.175	1.151	0.836	A56
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.18	0 mm	MIMO	0721M	13	left	86.9	0.112	-	1.175	1.151	-	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.19	0 mm	MIMO	0721M	13	back	86.9	0.282	-	1.109	1.151	-	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.15	0 mm	MIMO	0721M	13	front	86.9	3.674	-	1.109	1.151	-	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.21	0 mm	MIMO	0721M	13	top	86.9	3.827	-	1.109	1.151	-	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.20	0 mm	MIMO	0721M	13	bottom	86.9	4.787	0.279	1.109	1.151	0.356	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.19	0 mm	MIMO	0721M	13	left	86.9	0.304	-	1.109	1.151	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Phablet 4.0 W/kg (mW/g) 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 Standalone UMPC Body SAR

Table 11-49
GSM UMPC Body SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	190	GSM 850	GPRS	30.5	29.47	-0.03	10 mm	A + B	0659M	3	1:2.76	back	0.456	1.268	0.578	A57
836.60	190	GSM 850	GPRS	30.5	29.47	-0.13	10 mm	A + B	0659M	3	1:2.76	front	0.385	1.268	0.488	
836.60	190	GSM 850	GPRS	30.5	29.47	0.02	10 mm	A + B	0659M	3	1:2.76	bottom	0.238	1.268	0.302	
836.60	190	GSM 850	GPRS	30.5	29.47	-0.10	10 mm	A + B	0659M	3	1:2.76	right	0.191	1.268	0.242	
1909.80	810	GSM 1900	GPRS	27.5	27.11	0.01	12 mm	B	0523M	3	1:2.76	back	0.409	1.094	0.447	
1909.80	810	GSM 1900	GPRS	27.5	27.11	-0.01	10 mm	B	0523M	3	1:2.76	front	0.405	1.094	0.443	
1909.80	810	GSM 1900	GPRS	27.5	27.11	0.03	16 mm	B	0523M	3	1:2.76	bottom	0.391	1.094	0.428	
1909.80	810	GSM 1900	GPRS	27.5	27.11	0.06	10 mm	B	0523M	3	1:2.76	right	0.112	1.094	0.123	
1909.80	810	GSM 1900	GPRS	23.0	21.97	0.10	10 mm	B	0523M	4	1:2.076	back	0.249	1.268	0.316	
1909.80	810	GSM 1900	GPRS	23.0	21.97	-0.07	10 mm	B	0523M	4	1:2.076	bottom	0.471	1.268	0.597	A58
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 11-50
UMTS UMPC Body SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
826.40	4132	UMTS 850	RMC	25.8	24.53	-0.01	10 mm	A + B	0659M	1:1	back	0.470	1.340	0.630	
836.60	4183	UMTS 850	RMC	25.8	24.50	0.04	10 mm	A + B	0659M	1:1	back	0.485	1.349	0.654	A59
846.60	4233	UMTS 850	RMC	25.8	24.41	-0.02	10 mm	A + B	0659M	1:1	back	0.388	1.377	0.534	
826.40	4132	UMTS 850	RMC	25.8	24.53	-0.03	10 mm	A + B	0659M	1:1	front	0.186	1.340	0.249	
826.40	4132	UMTS 850	RMC	25.8	24.53	-0.05	10 mm	A + B	0659M	1:1	bottom	0.251	1.340	0.336	
826.40	4132	UMTS 850	RMC	25.8	24.53	-0.21	10 mm	A + B	0659M	1:1	right	0.203	1.340	0.272	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	-0.05	12 mm	B	0452M	1:1	back	0.529	1.297	0.686	
1712.40	1312	UMTS 1750	RMC	25.0	23.45	0.09	10 mm	B	0452M	1:1	front	0.829	1.429	1.185	A60
1732.40	1412	UMTS 1750	RMC	25.0	23.50	-0.02	10 mm	B	0452M	1:1	front	0.825	1.413	1.166	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	0.00	10 mm	B	0452M	1:1	front	0.829	1.297	1.075	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	0.04	16 mm	B	0452M	1:1	bottom	0.565	1.297	0.733	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	-0.04	10 mm	B	0452M	1:1	right	0.276	1.297	0.358	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	-0.13	10 mm	B	0452M	1:1	back	0.201	1.156	0.232	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	-0.05	10 mm	B	0452M	1:1	bottom	0.350	1.156	0.405	
1712.40	1312	UMTS 1750	RMC	25.0	23.45	0.00	10 mm	B	0452M	1:1	front	0.712	1.429	1.017	
1852.40	9262	UMTS 1900	RMC	25.0	23.20	-0.05	12 mm	B	0523M	1:1	back	0.740	1.514	1.120	
1880.00	9400	UMTS 1900	RMC	25.0	23.24	-0.11	12 mm	B	0523M	1:1	back	0.820	1.500	1.230	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	-0.06	12 mm	B	0523M	1:1	back	0.879	1.324	1.164	A61
1852.40	9262	UMTS 1900	RMC	25.0	23.20	0.02	10 mm	B	0523M	1:1	front	0.681	1.514	1.031	
1880.00	9400	UMTS 1900	RMC	25.0	23.24	0.01	10 mm	B	0523M	1:1	front	0.718	1.500	1.077	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	0.00	10 mm	B	0523M	1:1	front	0.762	1.324	1.009	
1852.40	9262	UMTS 1900	RMC	25.0	23.20	0.02	16 mm	B	0523M	1:1	bottom	0.609	1.514	0.922	
1880.00	9400	UMTS 1900	RMC	25.0	23.24	0.04	16 mm	B	0523M	1:1	bottom	0.764	1.500	1.146	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	0.03	16 mm	B	0523M	1:1	bottom	0.745	1.324	0.986	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	-0.01	10 mm	B	0523M	1:1	right	0.233	1.324	0.308	
1907.60	9538	UMTS 1900	RMC	19.0	18.44	0.04	10 mm	B	0523M	1:1	back	0.287	1.138	0.327	
1907.60	9538	UMTS 1900	RMC	19.0	18.44	0.07	10 mm	B	0523M	1:1	bottom	0.545	1.138	0.620	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	-0.07	12 mm	B	0523M	1:1	back	0.809	1.324	1.071	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Blue entry represents variability measurement.

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Table 11-51
LTE Band 12 UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	9	-0.05	0	A + B	0616M	QPSK	1	0	10 mm	back	1:1	0.319	1.199	0.382	A62
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	9	-0.03	1	A + B	0616M	QPSK	25	12	10 mm	back	1:1	0.265	1.189	0.315	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	9	-0.03	0	A + B	0616M	QPSK	1	0	10 mm	front	1:1	0.220	1.199	0.264	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	9	0.00	1	A + B	0616M	QPSK	25	12	10 mm	front	1:1	0.186	1.189	0.221	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	9	0.11	0	A + B	0616M	QPSK	1	0	10 mm	bottom	1:1	0.143	1.199	0.171	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	9	0.02	1	A + B	0616M	QPSK	25	12	10 mm	bottom	1:1	0.115	1.189	0.137	
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	9	-0.06	0	A + B	0616M	QPSK	1	0	10 mm	right	1:1	0.197	1.199	0.236	
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	9	-0.02	1	A + B	0616M	QPSK	25	12	10 mm	right	1:1	0.153	1.189	0.182	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-52
LTE Band 13 UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	-0.08	0	A + B	0616M	QPSK	1	0	10 mm	back	1:1	0.437	1.230	0.538	A63
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	-0.05	1	A + B	0616M	QPSK	25	12	10 mm	back	1:1	0.352	1.216	0.428	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	0.03	0	A + B	0616M	QPSK	1	0	10 mm	front	1:1	0.333	1.230	0.410	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	0.02	1	A + B	0616M	QPSK	25	12	10 mm	front	1:1	0.268	1.216	0.326	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	-0.01	0	A + B	0616M	QPSK	1	0	10 mm	bottom	1:1	0.203	1.230	0.250	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	-0.07	1	A + B	0616M	QPSK	25	12	10 mm	bottom	1:1	0.153	1.216	0.186	
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	0.00	0	A + B	0616M	QPSK	1	0	10 mm	right	1:1	0.154	1.230	0.189	
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	-0.07	1	A + B	0616M	QPSK	25	12	10 mm	right	1:1	0.122	1.216	0.148	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-53
LTE Band 26 (Cell) UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.02	0	A + B	0601M	QPSK	1	0	10 mm	back	1:1	0.428	1.294	0.554	A64
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	-0.05	1	A + B	0601M	QPSK	36	18	10 mm	back	1:1	0.353	1.288	0.455	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.00	0	A + B	0601M	QPSK	1	0	10 mm	front	1:1	0.391	1.294	0.506	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	-0.01	1	A + B	0601M	QPSK	36	18	10 mm	front	1:1	0.316	1.288	0.407	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.04	0	A + B	0601M	QPSK	1	0	10 mm	bottom	1:1	0.250	1.294	0.324	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	0.03	1	A + B	0601M	QPSK	36	18	10 mm	bottom	1:1	0.181	1.288	0.233	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.12	0	A + B	0601M	QPSK	1	0	10 mm	right	1:1	0.209	1.294	0.270	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	-0.03	1	A + B	0601M	QPSK	36	18	10 mm	right	1:1	0.150	1.288	0.193	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram												

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Table 11-54
LTE Band 66 (AWS) UMPC Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.08	0	B	0543M	QPSK	1	0	12 mm	back	1:1	0.521	1.236	0.644	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.03	1	B	0543M	QPSK	50	25	12 mm	back	1:1	0.404	1.189	0.480	
1720.00	132072	Low	LTE Band 66 (AWS)	20	25.5	24.47	0.01	0	B	0532M	QPSK	1	50	10 mm	front	1:1	0.778	1.268	0.987	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.41	0.02	0	B	0532M	QPSK	1	50	10 mm	front	1:1	0.753	1.285	0.968	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.02	0	B	0532M	QPSK	1	0	10 mm	front	1:1	0.787	1.236	0.973	A65
1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.71	-0.01	1	B	0543M	QPSK	50	25	10 mm	front	1:1	0.666	1.199	0.799	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.64	-0.10	1	B	0543M	QPSK	50	25	10 mm	front	1:1	0.628	1.219	0.766	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.03	1	B	0543M	QPSK	50	25	10 mm	front	1:1	0.635	1.189	0.755	
1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.61	0.03	1	B	0543M	QPSK	100	0	10 mm	front	1:1	0.653	1.227	0.801	
1720.00	132072	Low	LTE Band 66 (AWS)	20	25.5	24.47	-0.05	0	B	0543M	QPSK	1	50	16 mm	bottom	1:1	0.684	1.268	0.867	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.41	-0.04	0	B	0543M	QPSK	1	50	16 mm	bottom	1:1	0.737	1.285	0.947	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.01	0	B	0543M	QPSK	1	0	16 mm	bottom	1:1	0.785	1.236	0.970	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.01	1	B	0543M	QPSK	50	25	16 mm	bottom	1:1	0.634	1.189	0.754	
1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.61	-0.02	1	B	0543M	QPSK	100	0	16 mm	bottom	1:1	0.592	1.227	0.726	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	0.01	0	B	0543M	QPSK	1	0	10 mm	right	1:1	0.418	1.236	0.517	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	-0.01	1	B	0543M	QPSK	50	25	10 mm	right	1:1	0.348	1.189	0.414	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	0.03	0	B	0460M	QPSK	1	0	10 mm	back	1:1	0.202	1.153	0.233	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	-0.01	0	B	0460M	QPSK	50	25	10 mm	back	1:1	0.196	1.146	0.225	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	-0.02	0	B	0460M	QPSK	1	0	10 mm	bottom	1:1	0.347	1.153	0.400	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	-0.04	0	B	0460M	QPSK	50	25	10 mm	bottom	1:1	0.340	1.146	0.390	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								UMPC Body												
Spatial Peak								1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 1 gram												

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Table 11-55
LTE Band 25 (PCS) UMPC Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	-0.17	0	B	0469M	QPSK	1	99	12 mm	back	1:1	0.503	1.189	0.598	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.03	1	B	0469M	QPSK	50	50	12 mm	back	1:1	0.446	1.175	0.524	
1860.00	26140	Low	LTE Band 25 (PCS)	20	25.0	24.18	0.03	0	B	0469M	QPSK	1	99	10 mm	front	1:1	0.742	1.208	0.896	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.22	0.15	0	B	0469M	QPSK	1	99	10 mm	front	1:1	0.824	1.197	0.986	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	0.13	0	B	0469M	QPSK	1	99	10 mm	front	1:1	0.737	1.189	0.876	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	-0.12	1	B	0469M	QPSK	50	50	10 mm	front	1:1	0.680	1.175	0.799	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.27	-0.02	1	B	0469M	QPSK	100	0	10 mm	front	1:1	0.641	1.183	0.758	
1860.00	26140	Low	LTE Band 25 (PCS)	20	25.0	24.18	0.00	0	B	0523M	QPSK	1	99	16 mm	bottom	1:1	0.803	1.208	0.970	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.22	-0.01	0	B	0523M	QPSK	1	99	16 mm	bottom	1:1	0.813	1.197	0.973	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	-0.03	0	B	0523M	QPSK	1	99	16 mm	bottom	1:1	0.872	1.189	1.037	A66
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.28	0.01	1	B	0523M	QPSK	50	25	16 mm	bottom	1:1	0.648	1.180	0.765	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.23	0.01	1	B	0523M	QPSK	50	50	16 mm	bottom	1:1	0.691	1.194	0.825	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	-0.02	1	B	0523M	QPSK	50	50	16 mm	bottom	1:1	0.715	1.175	0.840	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.27	-0.02	1	B	0523M	QPSK	100	0	16 mm	bottom	1:1	0.670	1.183	0.793	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	-0.15	0	B	0523M	QPSK	1	99	10 mm	right	1:1	0.229	1.189	0.272	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.04	1	B	0523M	QPSK	50	50	10 mm	right	1:1	0.210	1.175	0.247	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	-0.07	0	B	0469M	QPSK	1	99	10 mm	back	1:1	0.169	1.125	0.190	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	-0.06	0	B	0469M	QPSK	50	50	10 mm	back	1:1	0.178	1.107	0.197	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	-0.09	0	B	0469M	QPSK	1	99	10 mm	bottom	1:1	0.385	1.125	0.433	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	-0.07	0	B	0469M	QPSK	50	50	10 mm	bottom	1:1	0.394	1.107	0.436	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								UMPC Body												
Spatial Peak								1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 1 gram												

Table 11-56
LTE Band 41 UMPC Body SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	-0.06	0	B	0460M	QPSK	1	50	12 mm	back	1:1.58	0.211	1.109	0.234	
2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	0.01	1	B	0460M	QPSK	50	25	12 mm	back	1:1.58	0.164	1.164	0.191	
2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	0.19	0	B	0460M	QPSK	1	50	10 mm	front	1:1.58	0.252	1.109	0.279	A67
2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	0.00	1	B	0460M	QPSK	50	25	10 mm	front	1:1.58	0.198	1.164	0.230	
2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	0.01	0	B	0460M	QPSK	1	50	16 mm	bottom	1:1.58	0.223	1.109	0.247	
2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	0.15	1	B	0460M	QPSK	50	25	16 mm	bottom	1:1.58	0.175	1.164	0.204	
2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	0.19	0	B	0460M	QPSK	1	50	10 mm	right	1:1.58	0.033	1.109	0.037	
2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	0.14	1	B	0460M	QPSK	50	25	10 mm	right	1:1.58	0.025	1.164	0.029	
2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.32	0.17	0	B	0460M	QPSK	1	50	10 mm	back	1:1.58	0.106	1.169	0.124	
2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.39	0.13	0	B	0460M	QPSK	50	25	10 mm	back	1:1.58	0.107	1.151	0.123	
2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.32	0.05	0	B	0460M	QPSK	1	50	10 mm	bottom	1:1.58	0.228	1.169	0.267	
2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.39	0.05	0	B	0460M	QPSK	50	25	10 mm	bottom	1:1.58	0.230	1.151	0.265	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								UMPC Body												
Spatial Peak								1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 1 gram												

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Table 11-57
NR Band n5 (Cell) UMPC Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	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	Ch.																	(W/kg)		(W/kg)		
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.16	0	108	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.462	1.227	0.567	A68
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	-0.01	0	108	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.469	1.250	0.586	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.00	A + B	-0.01	1.5	108	0691M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.323	1.259	0.407	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.16	0	108	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.350	1.227	0.429	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	-0.01	0	108	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.338	1.250	0.423	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.15	0	108	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.270	1.227	0.331	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.00	0	108	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.230	1.250	0.288	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.10	0	108	0691M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.203	1.227	0.249	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	-0.03	0	108	0691M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.185	1.250	0.231	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									UMPC Body													
Spatial Peak									1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population									averaged over 1 gram													

Table 11-58
NR Band n66 (AWS) UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	-0.16	0	0454M	DFT-S-OFDM	QPSK	1	53	12 mm	back	1:1	0.587	1.194	0.701	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	-0.17	0	0454M	DFT-S-OFDM	QPSK	50	28	12 mm	back	1:1	0.593	1.189	0.705	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	-0.04	0	0454M	DFT-S-OFDM	QPSK	1	53	10 mm	front	1:1	0.769	1.194	0.918	A69
1745.00	349000	Mid	NR Band n66 (AWS)	20	24.0	23.04	B	0.00	0	0454M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.692	1.247	0.863	
1770.00	354000	High	NR Band n66 (AWS)	20	24.0	22.93	B	0.04	0	0454M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.678	1.279	0.867	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	-0.02	0	0454M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.709	1.189	0.843	
1745.00	349000	Mid	NR Band n66 (AWS)	20	24.0	22.93	B	0.03	0	0454M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.652	1.279	0.834	
1770.00	354000	High	NR Band n66 (AWS)	20	24.0	22.70	B	0.02	0	0454M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.663	1.349	0.894	
1720.00	344000	Low	NR Band n66 (AWS)	20	23.0	22.26	B	0.04	1.0	0454M	DFT-S-OFDM	QPSK	100	0	10 mm	front	1:1	0.548	1.186	0.650	
1745.00	349000	Mid	NR Band n66 (AWS)	20	22.5	21.47	B	0.03	1.5	0454M	CP-OFDM	QPSK	1	1	10 mm	front	1:1	0.480	1.268	0.609	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	-0.02	0	0454M	DFT-S-OFDM	QPSK	1	53	16 mm	bottom	1:1	0.582	1.194	0.695	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	-0.03	0	0454M	DFT-S-OFDM	QPSK	50	28	16 mm	bottom	1:1	0.561	1.189	0.667	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	-0.01	0	0454M	DFT-S-OFDM	QPSK	1	53	10 mm	right	1:1	0.380	1.194	0.454	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	0.03	0	0454M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.378	1.189	0.449	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	-0.02	0	0454M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.205	1.233	0.253	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	-0.03	0	0454M	DFT-S-OFDM	QPSK	50	0	10 mm	back	1:1	0.200	1.262	0.252	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	-0.03	0	0454M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.365	1.233	0.450	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	-0.04	0	0454M	DFT-S-OFDM	QPSK	50	0	10 mm	bottom	1:1	0.364	1.262	0.459	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak									UMPC Body												
Uncontrolled Exposure/General Population									1.6 W/kg (mW/g)												
									averaged over 1 gram												

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Table 11-59
WLAN UMPC Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2412	1	802.11b	DSSS	22	19.0	18.91	0.07	10 mm	2	0725M	1	back	98.9	0.246	0.167	1.021	1.011	0.172	
2412	1	802.11b	DSSS	22	19.0	18.91	-0.01	10 mm	2	0725M	1	front	98.9	0.248	0.169	1.021	1.011	0.174	
2412	1	802.11b	DSSS	22	19.0	18.91	0.12	10 mm	2	0725M	1	bottom	98.9	0.441	0.301	1.021	1.011	0.311	
5320	64	802.11a	OFDM	20	18.0	17.74	0.10	10 mm	1	0721M	6	back	93.8	0.094	0.025	1.062	1.066	0.028	
5320	64	802.11a	OFDM	20	18.0	17.74	0.10	10 mm	1	0721M	6	front	93.8	0.074	0.025	1.062	1.066	0.028	
5320	64	802.11a	OFDM	20	18.0	17.74	0.12	10 mm	1	0721M	6	top	93.8	0.177	0.071	1.062	1.066	0.080	
5720	144	802.11a	OFDM	20	18.0	17.85	0.15	10 mm	1	0721M	6	back	93.8	0.117	0.038	1.035	1.066	0.042	
5720	144	802.11a	OFDM	20	18.0	17.85	0.17	10 mm	1	0721M	6	front	93.8	0.126	0.030	1.035	1.066	0.033	
5720	144	802.11a	OFDM	20	18.0	17.85	-0.14	10 mm	1	0721M	6	top	93.8	0.219	0.105	1.035	1.066	0.116	
5785	157	802.11a	OFDM	20	18.0	17.80	0.14	10 mm	1	0721M	6	back	93.8	0.191	0.054	1.047	1.066	0.060	
5785	157	802.11a	OFDM	20	18.0	17.80	0.14	10 mm	1	0721M	6	front	93.8	0.111	0.037	1.047	1.066	0.041	
5785	157	802.11a	OFDM	20	18.0	17.80	0.14	10 mm	1	0721M	6	top	93.8	0.189	0.092	1.047	1.066	0.103	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-60
2.4 GHz WLAN UMPC Body SAR for Conditions with 5/6 GHz WLAN or 5G NR Active

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate [Mbps]	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2412	1	802.11b	DSSS	22	15.0	14.98	0.14	10 mm	2	0255M	1	back	98.9	0.051	0.030	1.005	1.011	0.030	
2412	1	802.11b	DSSS	22	15.0	14.98	0.05	10 mm	2	0255M	1	front	98.9	0.057	0.036	1.005	1.011	0.037	
2412	1	802.11b	DSSS	22	15.0	14.98	-0.05	10 mm	2	0255M	1	bottom	98.9	0.097	0.063	1.005	1.011	0.064	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: 5/6 GHz WIFI and/or 5g NR were not transmitting during the above evaluations.

Table 11-61
5 GHz WLAN UMPC Body SAR for Conditions with 2.4 GHz WLAN or 5G NR Active

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	15.0	14.97	0.16	10 mm	1	0255M	29.3	back	86.1	0.043	0.015	1.007	1.161	0.018	
5290	58	802.11ac	OFDM	80	15.0	14.97	0.18	10 mm	1	0255M	29.3	front	86.1	0.034	0.011	1.007	1.161	0.013	
5290	58	802.11ac	OFDM	80	15.0	14.97	0.04	10 mm	1	0255M	29.3	top	86.1	0.074	0.030	1.007	1.161	0.035	
5690	138	802.11ac	OFDM	80	15.0	14.76	-0.19	10 mm	1	0255M	29.3	back	86.1	0.045	0.016	1.057	1.161	0.020	
5690	138	802.11ac	OFDM	80	15.0	14.76	0.12	10 mm	1	0255M	29.3	front	86.1	0.032	0.011	1.057	1.161	0.013	
5690	138	802.11ac	OFDM	80	15.0	14.76	0.18	10 mm	1	0255M	29.3	top	86.1	0.083	0.026	1.057	1.161	0.032	
5775	155	802.11ac	OFDM	80	15.0	14.75	0.00	10 mm	1	0225M	29.3	back	86.1	0.045	0.015	1.059	1.161	0.018	
5775	155	802.11ac	OFDM	80	15.0	14.75	0.16	10 mm	1	0225M	29.3	front	86.1	0.029	0.011	1.059	1.161	0.014	
5775	155	802.11ac	OFDM	80	15.0	14.75	-0.13	10 mm	1	0225M	29.3	top	86.1	0.081	0.025	1.059	1.161	0.031	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: 2.4 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

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Table 11-62
WLAN MIMO UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	-0.14	10 mm	MIMO (Peak 1)	0725M	1	back	98.9	0.601	0.423	1.042	1.011	0.446	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	0.05	10 mm	MIMO (Peak 2)	0725M	1	back	98.9	0.242	0.165	1.042	1.011	0.174	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	-0.02	10 mm	MIMO	0725M	1	front	98.9	0.456	0.366	1.042	1.011	0.386	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	0.02	10 mm	MIMO	0725M	1	top	98.9	0.908	0.569	1.042	1.011	0.599	A70
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	0.02	10 mm	MIMO	0725M	1	bottom	98.9	0.398	0.268	1.042	1.011	0.282	
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.12	10 mm	MIMO	0721M	13	back	86.9	0.246	0.123	1.175	1.151	0.166	
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.13	10 mm	MIMO	0721M	13	front	86.9	0.213	0.100	1.175	1.151	0.135	
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.14	10 mm	MIMO	0721M	13	top	86.9	0.162	0.068	1.175	1.151	0.092	
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.14	10 mm	MIMO	0721M	13	bottom	86.9	0.360	0.181	1.175	1.151	0.245	A71
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	-0.10	10 mm	MIMO	0721M	13	back	86.9	0.097	0.042	1.109	1.151	0.054	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.19	10 mm	MIMO	0721M	13	front	86.9	0.130	0.032	1.109	1.151	0.041	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	-0.13	10 mm	MIMO	0721M	13	top	86.9	0.225	0.089	1.109	1.151	0.114	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.14	10 mm	MIMO	0721M	13	bottom	86.9	0.121	0.042	1.109	1.151	0.054	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	0.13	10 mm	MIMO	0721M	13	back	86.9	0.120	0.033	1.189	1.151	0.045	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	0.00	10 mm	MIMO	0721M	13	front	86.9	0.208	0.072	1.189	1.151	0.099	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	0.15	10 mm	MIMO	0721M	13	top	86.9	0.188	0.066	1.189	1.151	0.090	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	0.11	10 mm	MIMO	0721M	13	bottom	86.9	0.109	0.038	1.189	1.151	0.052	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak										UMPC Body											
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g)											
										averaged over 1 gram											

Note: 1) For 2450 MHz WLAN, to achieve the 22.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19.0 dBm. For 5GHz WLAN, 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.

2) For simultaneous analysis, back side SAR at the worst-case 2.4 GHz WLAN MIMO configuration was evaluated for both antennas; the highest SAR peak (Peak 1) corresponds to WIFI Antenna 1, and the secondary peak (Peak 2, shown in green) corresponds to WIFI Antenna 2.

Table 11-63
DTS MIMO UMPC Body SAR for Conditions with 5/6 GHz WLAN or 5G NR Active

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)	(W/kg)			
2437	6	802.11n	OFDM	20	15.0	14.87	15.0	14.95	-0.04	10 mm	MIMO	0255M	13	back	92.2	0.090	0.063	1.030	1.085	0.070	
2437	6	802.11n	OFDM	20	15.0	14.87	15.0	14.95	-0.07	10 mm	MIMO	0255M	13	front	92.2	0.085	0.055	1.030	1.085	0.061	
2437	6	802.11n	OFDM	20	15.0	14.87	15.0	14.95	0.03	10 mm	MIMO	0255M	13	top	92.2	0.169	0.105	1.030	1.085	0.117	
2437	6	802.11n	OFDM	20	15.0	14.87	15.0	14.95	-0.04	10 mm	MIMO	0255M	13	bottom	92.2	0.105	0.067	1.030	1.085	0.075	

Note: 2.4 GHz WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz WLAN and 5/6 GHz WLAN or 2.4 GHz WLAN and 5 NR active. 5/6 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

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Table 11-64
NII MIMO UMPC Body SAR for Conditions with 2.4 GHz WLAN or 5G NR Active

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)		(W/kg)		
5290	58	802.11ac	OFDM	80	15.0	14.69	15.0	13.28	0.14	10 mm	MIMO	0255M	58.5	back	86.3	0.040	0.015	1.486	1.159	0.026	
5290	58	802.11ac	OFDM	80	15.0	14.69	15.0	13.28	0.13	10 mm	MIMO	0255M	58.5	front	86.3	0.027	0.011	1.486	1.159	0.019	
5290	58	802.11ac	OFDM	80	15.0	14.69	15.0	13.28	0.16	10 mm	MIMO	0255M	58.5	top	86.3	0.073	0.026	1.486	1.159	0.045	
5290	58	802.11ac	OFDM	80	15.0	14.69	15.0	13.28	-0.16	10 mm	MIMO	0255M	58.5	bottom	86.3	0.031	0.006	1.486	1.159	0.010	
5690	138	802.11ac	OFDM	80	15.0	14.93	15.0	14.04	0.18	10 mm	MIMO	0255M	58.5	back	86.3	0.056	0.017	1.247	1.159	0.025	
5690	138	802.11ac	OFDM	80	15.0	14.93	15.0	14.04	0.18	10 mm	MIMO	0255M	58.5	front	86.3	0.041	0.015	1.247	1.159	0.022	
5690	138	802.11ac	OFDM	80	15.0	14.93	15.0	14.04	0.16	10 mm	MIMO	0255M	58.5	top	86.3	0.089	0.031	1.247	1.159	0.045	
5690	138	802.11ac	OFDM	80	15.0	14.93	15.0	14.04	0.12	10 mm	MIMO	0255M	58.5	bottom	86.3	0.014	0.006	1.247	1.159	0.009	
5775	155	802.11ac	OFDM	80	15.0	14.91	15.0	13.84	0.16	10 mm	MIMO	0255M	58.5	back	86.3	0.044	0.015	1.306	1.159	0.023	
5775	155	802.11ac	OFDM	80	15.0	14.91	15.0	13.84	0.18	10 mm	MIMO	0255M	58.5	front	86.3	0.040	0.014	1.306	1.159	0.021	
5775	155	802.11ac	OFDM	80	15.0	14.91	15.0	13.84	0.19	10 mm	MIMO	0255M	58.5	top	86.3	0.071	0.026	1.306	1.159	0.039	
5775	155	802.11ac	OFDM	80	15.0	14.91	15.0	13.84	0.12	10 mm	MIMO	0255M	58.5	bottom	86.3	0.015	0.006	1.306	1.159	0.009	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: 5 GHz WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz WLAN and 5/6 GHz WLAN or 2.4 GHz WLAN and 5 NR active. 5/6 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

Table 11-65
DSS UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	17.5	17.29	-0.05	10 mm	1	0725M	1	back	76.80	0.113	1.050	1.302	0.154	
2441	39	Bluetooth	FHSS	17.5	17.29	-0.07	10 mm	1	0725M	1	front	76.80	0.102	1.050	1.302	0.139	
2441	39	Bluetooth	FHSS	17.5	17.29	0.03	10 mm	1	0725M	1	top	76.80	0.155	1.050	1.302	0.212	A72
2441	39	Bluetooth	FHSS	17.5	16.93	-0.02	10 mm	2	0725M	1	back	76.80	0.055	1.140	1.302	0.082	
2441	39	Bluetooth	FHSS	17.5	16.93	0.09	10 mm	2	0725M	1	front	76.80	0.058	1.140	1.302	0.086	
2441	39	Bluetooth	FHSS	17.5	16.93	-0.05	10 mm	2	0725M	1	bottom	76.80	0.116	1.140	1.302	0.172	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-66
DSS UMPC Body SAR for Conditions with 5G NR Active

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	15.5	15.49	-0.14	10 mm	1	0255M	1	back	76.80	0.064	1.002	1.302	0.083	
2441	39	Bluetooth	FHSS	15.5	15.49	-0.04	10 mm	1	0255M	1	front	76.80	0.079	1.002	1.302	0.103	
2441	39	Bluetooth	FHSS	15.5	15.49	0.12	10 mm	1	0255M	1	top	76.80	0.137	1.002	1.302	0.179	
2441	39	Bluetooth	FHSS	15.5	15.07	0.17	10 mm	2	0255M	1	back	76.80	0.048	1.104	1.302	0.069	
2441	39	Bluetooth	FHSS	15.5	15.07	0.04	10 mm	2	0255M	1	front	76.80	0.055	1.104	1.302	0.079	
2441	39	Bluetooth	FHSS	15.5	15.07	-0.01	10 mm	2	0255M	1	bottom	76.80	0.104	1.104	1.302	0.149	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram										

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11.6 Standalone UMPC Extremity SAR

Table 11-67
GSM UMPC Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	190	GSM 850	GPRS	30.5	29.47	0.09	0 mm	A + B	0659M	3	1:2.76	back	0.913	1.268	1.158	A73
836.60	190	GSM 850	GPRS	30.5	29.47	0.07	0 mm	A + B	0659M	3	1:2.76	front	0.698	1.268	0.885	
836.60	190	GSM 850	GPRS	30.5	29.47	-0.10	0 mm	A + B	0659M	3	1:2.76	bottom	0.633	1.268	0.803	
836.60	190	GSM 850	GPRS	30.5	29.47	-0.03	0 mm	A + B	0659M	3	1:2.76	right	0.657	1.268	0.833	
1909.80	810	GSM 1900	GPRS	27.5	27.11	0.01	12 mm	B	0523M	3	1:2.76	back	0.228	1.094	0.249	
1909.80	810	GSM 1900	GPRS	27.5	27.11	-0.03	9 mm	B	0523M	3	1:2.76	front	0.320	1.094	0.350	
1909.80	810	GSM 1900	GPRS	27.5	27.11	0.03	16 mm	B	0523M	3	1:2.76	bottom	0.217	1.094	0.237	
1909.80	810	GSM 1900	GPRS	27.5	27.11	-0.03	0 mm	B	0523M	3	1:2.76	right	0.397	1.094	0.434	
1909.80	810	GSM 1900	GPRS	23.0	21.97	0.07	0 mm	B	0523M	4	1:2.076	back	0.648	1.268	0.822	
1909.80	810	GSM 1900	GPRS	23.0	21.97	-0.05	0 mm	B	0523M	4	1:2.076	front	0.822	1.268	1.042	
1850.20	512	GSM 1900	GPRS	23.0	21.49	0.05	0 mm	B	0523M	4	1:2.076	bottom	1.740	1.416	2.464	
1880.00	661	GSM 1900	GPRS	23.0	21.84	0.07	0 mm	B	0523M	4	1:2.076	bottom	1.630	1.306	2.129	
1909.80	810	GSM 1900	GPRS	23.0	21.97	0.12	0 mm	B	0523M	4	1:2.076	bottom	1.760	1.268	2.232	A74
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

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Table 11-68
UMTS UMPC Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.08	0 mm	A + B	0659M	1:1	back	1.050	1.340	1.407	A75
826.40	4132	UMTS 850	RMC	25.8	24.53	108	0.00	0 mm	A + B	0659M	1:1	front	0.800	1.340	1.072	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	-0.14	0 mm	A + B	0659M	1:1	bottom	0.645	1.340	0.864	
826.40	4132	UMTS 850	RMC	25.8	24.53	108	-0.08	0 mm	A + B	0659M	1:1	right	0.936	1.340	1.254	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	N/A	-0.05	12 mm	B	0452M	1:1	back	0.295	1.297	0.383	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	N/A	0.00	9 mm	B	0452M	1:1	front	0.449	1.297	0.582	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	N/A	0.04	16 mm	B	0452M	1:1	bottom	0.315	1.297	0.409	
1752.60	1513	UMTS 1750	RMC	25.0	23.87	N/A	0.00	0 mm	B	0452M	1:1	right	0.645	1.297	0.837	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	N/A	0.04	0 mm	B	0452M	1:1	back	0.793	1.156	0.917	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	N/A	-0.01	0 mm	B	0452M	1:1	front	0.852	1.156	0.985	
1712.40	1312	UMTS 1750	RMC	19.0	18.19	N/A	-0.03	0 mm	B	0452M	1:1	bottom	1.790	1.205	2.157	A76
1732.40	1412	UMTS 1750	RMC	19.0	18.23	N/A	-0.04	0 mm	B	0452M	1:1	bottom	1.770	1.194	2.113	
1752.60	1513	UMTS 1750	RMC	19.0	18.37	N/A	-0.02	0 mm	B	0452M	1:1	bottom	1.760	1.156	2.035	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	N/A	-0.06	12 mm	B	0523M	1:1	back	0.485	1.324	0.642	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	N/A	0.00	9 mm	B	0523M	1:1	front	0.430	1.324	0.569	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	N/A	0.03	16 mm	B	0523M	1:1	bottom	0.413	1.324	0.547	
1907.60	9538	UMTS 1900	RMC	25.0	23.78	N/A	0.04	0 mm	B	0523M	1:1	right	0.673	1.324	0.891	
1907.60	9538	UMTS 1900	RMC	19.0	18.44	N/A	0.10	0 mm	B	0523M	1:1	back	0.994	1.138	1.131	
1907.60	9538	UMTS 1900	RMC	19.0	18.44	N/A	-0.02	0 mm	B	0523M	1:1	front	0.915	1.138	1.041	
1852.40	9262	UMTS 1900	RMC	19.0	18.05	N/A	-0.06	0 mm	B	0523M	1:1	bottom	1.910	1.245	2.378	
1880.00	9400	UMTS 1900	RMC	19.0	18.14	N/A	-0.04	0 mm	B	0523M	1:1	bottom	2.020	1.219	2.462	A77
1907.60	9538	UMTS 1900	RMC	19.0	18.44	N/A	-0.08	0 mm	B	0523M	1:1	bottom	1.990	1.138	2.265	
1880.00	9400	UMTS 1900	RMC	19.0	18.14	N/A	-0.04	0 mm	B	0523M	1:1	bottom	1.990	1.219	2.426	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

Note: Blue entry represents variability measurement.

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Table 11-69
LTE Band 12 UMPC Extremity SAR

MEASUREMENT RESULTS																		
FREQUENCY		Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)
MHz																		(W/kg)
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	108	-0.11	0	A + B	0616M	QPSK	1	0	0 mm	back	1:1	0.783
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	108	-0.08	1	A + B	0616M	QPSK	25	12	0 mm	back	1:1	0.649
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	108	0.00	0	A + B	0616M	QPSK	1	0	0 mm	front	1:1	0.589
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	108	0.01	1	A + B	0616M	QPSK	25	12	0 mm	front	1:1	0.489
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	108	0.05	0	A + B	0616M	QPSK	1	0	0 mm	bottom	1:1	0.744
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	108	0.05	1	A + B	0616M	QPSK	25	12	0 mm	bottom	1:1	0.601
707.50	23095	Mid	LTE Band 12	10	25.8	25.01	108	-0.13	0	A + B	0616M	QPSK	1	0	0 mm	right	1:1	0.866
707.50	23095	Mid	LTE Band 12	10	24.8	24.05	108	-0.16	1	A + B	0616M	QPSK	25	12	0 mm	right	1:1	0.764
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

Table 11-70
LTE Band 13 UMPC Extremity SAR

MEASUREMENT RESULTS																		
FREQUENCY		Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)
MHz																		(W/kg)
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	-0.01	0	A + B	0616M	QPSK	1	0	0 mm	back	1:1	1.020
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	-0.03	1	A + B	0616M	QPSK	25	12	0 mm	back	1:1	0.832
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	-0.01	0	A + B	0616M	QPSK	1	0	0 mm	front	1:1	0.796
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	0.00	1	A + B	0616M	QPSK	25	12	0 mm	front	1:1	0.652
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	-0.05	0	A + B	0616M	QPSK	1	0	0 mm	bottom	1:1	0.826
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	-0.02	1	A + B	0616M	QPSK	25	12	0 mm	bottom	1:1	0.632
782.00	23230	Mid	LTE Band 13	10	25.8	24.90	36	-0.08	0	A + B	0616M	QPSK	1	0	0 mm	right	1:1	0.996
782.00	23230	Mid	LTE Band 13	10	24.8	23.95	36	-0.14	1	A + B	0616M	QPSK	25	12	0 mm	right	1:1	0.829
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

Table 11-71
LTE Band 26 (Cell) UMPC Extremity SAR

MEASUREMENT RESULTS																		
FREQUENCY		Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)
MHz																		(W/kg)
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.00	0	A + B	0601M	QPSK	1	0	0 mm	back	1:1	0.955
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	-0.03	1	A + B	0601M	QPSK	36	18	0 mm	back	1:1	0.766
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	0.00	0	A + B	0601M	QPSK	1	0	0 mm	front	1:1	0.827
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	-0.01	1	A + B	0601M	QPSK	36	18	0 mm	front	1:1	0.638
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	-0.06	0	A + B	0601M	QPSK	1	0	0 mm	bottom	1:1	0.686
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	-0.07	1	A + B	0601M	QPSK	36	18	0 mm	bottom	1:1	0.519
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.68	108	-0.11	0	A + B	0601M	QPSK	1	0	0 mm	right	1:1	0.847
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.70	108	-0.07	1	A + B	0601M	QPSK	36	18	0 mm	right	1:1	0.686
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

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Table 11-72
LTE Band 66 (AWS) UMPC Extremity SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.08	0	B	0543M	QPSK	1	0	12 mm	back	1:1	0.298	1.236	0.368	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.03	1	B	0543M	QPSK	50	25	12 mm	back	1:1	0.231	1.189	0.275	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.01	0	B	0543M	QPSK	1	0	9 mm	front	1:1	0.481	1.236	0.595	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.01	1	B	0543M	QPSK	50	25	9 mm	front	1:1	0.365	1.189	0.434	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.01	0	B	0543M	QPSK	1	0	16 mm	bottom	1:1	0.438	1.236	0.541	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.01	1	B	0543M	QPSK	50	25	16 mm	bottom	1:1	0.353	1.189	0.420	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.58	-0.02	0	B	0543M	QPSK	1	0	0 mm	right	1:1	1.080	1.236	1.335	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.75	0.03	1	B	0543M	QPSK	50	25	0 mm	right	1:1	0.883	1.189	1.050	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	-0.03	0	B	0460M	QPSK	1	0	0 mm	back	1:1	0.867	1.153	1.000	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	-0.05	0	B	0460M	QPSK	50	25	0 mm	back	1:1	0.861	1.146	0.987	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	0.02	0	B	0460M	QPSK	1	0	0 mm	front	1:1	0.799	1.153	0.921	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	-0.02	0	B	0460M	QPSK	50	25	0 mm	front	1:1	0.788	1.146	0.903	
1720.00	132072	Low	LTE Band 66 (AWS)	20	19.0	18.01	-0.03	0	B	0460M	QPSK	1	50	0 mm	bottom	1:1	1.680	1.256	2.110	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.26	-0.14	0	B	0460M	QPSK	1	50	0 mm	bottom	1:1	1.750	1.186	2.076	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.38	-0.10	0	B	0460M	QPSK	1	0	0 mm	bottom	1:1	1.750	1.153	2.018	
1720.00	132072	Low	LTE Band 66 (AWS)	20	19.0	18.36	-0.09	0	B	0460M	QPSK	50	25	0 mm	bottom	1:1	1.770	1.159	2.051	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.40	-0.09	0	B	0460M	QPSK	50	25	0 mm	bottom	1:1	1.800	1.148	2.066	A81
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.41	-0.09	0	B	0460M	QPSK	50	25	0 mm	bottom	1:1	1.780	1.146	2.040	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.33	-0.09	0	B	0460M	QPSK	100	0	0 mm	bottom	1:1	1.760	1.167	2.054	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

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Table 11-73
LTE Band 25 (PCS) UMPC Extremity SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	-0.17	0	B	0469M	QPSK	1	99	12 mm	back	1:1	0.283	1.189	0.336	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.06	1	B	0469M	QPSK	50	50	12 mm	back	1:1	0.254	1.175	0.298	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	-0.01	0	B	0523M	QPSK	1	99	9 mm	front	1:1	0.594	1.189	0.706	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.00	1	B	0523M	QPSK	50	50	9 mm	front	1:1	0.490	1.175	0.576	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	-0.03	0	B	0523M	QPSK	1	99	16 mm	bottom	1:1	0.486	1.189	0.578	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	-0.02	1	B	0523M	QPSK	50	50	16 mm	bottom	1:1	0.398	1.175	0.468	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.25	0.14	0	B	0523M	QPSK	1	99	0 mm	right	1:1	1.080	1.189	1.284	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.0	23.30	0.09	1	B	0523M	QPSK	50	50	0 mm	right	1:1	0.904	1.175	1.062	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	-0.13	0	B	0469M	QPSK	1	99	0 mm	back	1:1	0.544	1.125	0.612	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	-0.02	0	B	0469M	QPSK	50	50	0 mm	back	1:1	0.586	1.107	0.649	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	-0.03	0	B	0469M	QPSK	1	99	0 mm	front	1:1	0.673	1.125	0.757	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	-0.04	0	B	0469M	QPSK	50	50	0 mm	front	1:1	0.704	1.107	0.779	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.49	0.03	0	B	0469M	QPSK	1	99	0 mm	bottom	1:1	1.710	1.125	1.924	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.0	18.34	-0.01	0	B	0469M	QPSK	50	50	0 mm	bottom	1:1	1.860	1.164	2.165	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	-0.05	0	B	0469M	QPSK	50	50	0 mm	bottom	1:1	1.880	1.135	2.134	A82
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.56	-0.05	0	B	0469M	QPSK	50	50	0 mm	bottom	1:1	1.790	1.107	1.982	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.37	0.16	0	B	0469M	QPSK	100	0	0 mm	bottom	1:1	1.690	1.156	1.954	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								UMPC Extremity												
Spatial Peak								4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 10 grams												

Table 11-74
LTE Band 41 UMPC Extremity SAR

MEASUREMENT RESULTS																					
Power Class	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
	MHz	Ch.																(W/kg)		(W/kg)	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	-0.06	0	B	0460M	QPSK	1	50	12 mm	back	1:1.58	0.108	1.109	0.120	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	0.01	1	B	0460M	QPSK	50	25	12 mm	back	1:1.58	0.083	1.164	0.097	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	0.12	0	B	0460M	QPSK	1	50	9 mm	front	1:1.58	0.139	1.109	0.154	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	0.14	1	B	0460M	QPSK	50	25	9 mm	front	1:1.58	0.107	1.164	0.125	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	0.01	0	B	0460M	QPSK	1	50	16 mm	bottom	1:1.58	0.112	1.109	0.124	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	0.15	1	B	0460M	QPSK	50	25	16 mm	bottom	1:1.58	0.088	1.164	0.102	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.55	0.12	0	B	0460M	QPSK	1	50	0 mm	right	1:1.58	0.072	1.109	0.080	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	22.0	21.34	0.08	1	B	0460M	QPSK	50	25	0 mm	right	1:1.58	0.058	1.164	0.068	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.32	0.00	0	B	0460M	QPSK	1	50	0 mm	back	1:1.58	0.419	1.169	0.490	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.39	0.18	0	B	0460M	QPSK	50	25	0 mm	back	1:1.58	0.441	1.151	0.508	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.32	0.01	0	B	0460M	QPSK	1	50	0 mm	front	1:1.58	0.431	1.169	0.504	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.39	0.01	0	B	0460M	QPSK	50	25	0 mm	front	1:1.58	0.435	1.151	0.501	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.32	0.01	0	B	0460M	QPSK	1	50	0 mm	bottom	1:1.58	1.170	1.169	1.368	A83
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.39	0.03	0	B	0460M	QPSK	50	25	0 mm	bottom	1:1.58	1.170	1.151	1.347	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									UMPC Extremity												
Spatial Peak									4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 10 grams												

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Table 11-75
NR Band n5 (Cell) UMPC Extremity SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	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	Ch.																	(W/kg)		(W/kg)		
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.10	0	108	0691M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.060	1.227	1.301	A84
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.15	0	108	0691M	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	1.040	1.250	1.300	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.00	A + B	-0.09	1.5	108	0691M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.750	1.259	0.944	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.16	0	108	0691M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	0.797	1.227	0.978	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.10	0	108	0691M	DFT-S-OFDM	QPSK	50	28	0 mm	front	1:1	0.773	1.250	0.966	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.13	0	108	0691M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.575	1.227	0.706	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	0.06	0	108	0691M	DFT-S-OFDM	QPSK	50	28	0 mm	bottom	1:1	0.593	1.250	0.741	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.61	A + B	0.13	0	108	0691M	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.845	1.227	1.037	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.53	A + B	-0.07	0	108	0691M	DFT-S-OFDM	QPSK	50	28	0 mm	right	1:1	0.859	1.250	1.074	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									UMPC Extremity													
Spatial Peak									4.0 W/kg (mW/g)													
Uncontrolled Exposure/General Population									averaged over 10 grams													

Table 11-76
NR Band n66 (AWS) UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	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	Ch.																	(W/kg)		(W/kg)	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	-0.16	0	0454M	DFT-S-OFDM	QPSK	1	53	12 mm	back	1:1	0.329	1.194	0.393	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	-0.17	0	0454M	DFT-S-OFDM	QPSK	50	28	12 mm	back	1:1	0.331	1.189	0.394	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	0.00	0	0454M	DFT-S-OFDM	QPSK	1	53	9 mm	front	1:1	0.587	1.194	0.701	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	-0.05	0	0454M	DFT-S-OFDM	QPSK	50	28	9 mm	front	1:1	0.566	1.189	0.673	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	-0.02	0	0454M	DFT-S-OFDM	QPSK	1	53	16 mm	bottom	1:1	0.332	1.194	0.396	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	-0.03	0	0454M	DFT-S-OFDM	QPSK	50	28	16 mm	bottom	1:1	0.320	1.189	0.380	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.23	B	-0.02	0	0454M	DFT-S-OFDM	QPSK	1	53	0 mm	right	1:1	0.925	1.194	1.104	
1720.00	344000	Low	NR Band n66 (AWS)	20	24.0	23.25	B	-0.02	0	0454M	DFT-S-OFDM	QPSK	50	28	0 mm	right	1:1	0.935	1.189	1.112	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	-0.14	0	0454M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.723	1.233	0.891	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	-0.11	0	0454M	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.704	1.262	0.888	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	-0.03	0	0454M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	0.928	1.233	1.144	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	0.05	0	0454M	DFT-S-OFDM	QPSK	50	0	0 mm	front	1:1	0.906	1.262	1.143	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	18.09	B	-0.03	0	0454M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.730	1.233	2.133	A85
1745.00	349000	Mid	NR Band n66 (AWS)	20	19.0	17.96	B	0.02	0	0454M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.640	1.271	2.084	
1770.00	354000	High	NR Band n66 (AWS)	20	19.0	17.96	B	-0.05	0	0454M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.680	1.271	2.135	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.99	B	0.03	0	0454M	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	1.710	1.262	2.158	
1745.00	349000	Mid	NR Band n66 (AWS)	20	19.0	17.89	B	-0.05	0	0454M	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	1.670	1.291	2.156	
1770.00	354000	High	NR Band n66 (AWS)	20	19.0	17.83	B	-0.05	0	0454M	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	1.650	1.309	2.160	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.91	B	-0.10	0	0454M	DFT-S-OFDM	QPSK	100	0	0 mm	bottom	1:1	1.660	1.285	2.133	
1720.00	344000	Low	NR Band n66 (AWS)	20	19.0	17.92	B	-0.03	0	0454M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.660	1.282	2.128	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams													

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Table 11-77
WLAN UMPC Extremity SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2412	1	802.11b	DSSS	22	19.0	18.91	0.08	0 mm	2	0725M	1	back	98.9	2.749	0.788	1.021	1.011	0.813	
2412	1	802.11b	DSSS	22	19.0	18.91	0.06	0 mm	2	0725M	1	front	98.9	1.700	0.761	1.021	1.011	0.786	
2412	1	802.11b	DSSS	22	19.0	18.91	-0.19	0 mm	2	0725M	1	bottom	98.9	6.089	0.906	1.021	1.011	0.935	
5320	64	802.11a	OFDM	20	18.0	17.74	0.15	0 mm	1	0721M	6	back	93.8	1.661	0.155	1.062	1.066	0.175	
5320	64	802.11a	OFDM	20	18.0	17.74	0.16	0 mm	1	0721M	6	front	93.8	1.590	0.200	1.062	1.066	0.226	
5320	64	802.11a	OFDM	20	18.0	17.74	0.01	0 mm	1	0721M	6	top	93.8	5.023	0.389	1.062	1.066	0.440	
5720	144	802.11a	OFDM	20	18.0	17.85	0.13	0 mm	1	0721M	6	back	93.8	3.439	0.366	1.035	1.066	0.404	
5720	144	802.11a	OFDM	20	18.0	17.85	0.12	0 mm	1	0721M	6	front	93.8	1.953	0.239	1.035	1.066	0.264	
5720	144	802.11a	OFDM	20	18.0	17.85	0.09	0 mm	1	0721M	6	top	93.8	3.505	0.419	1.035	1.066	0.462	
5785	157	802.11a	OFDM	20	18.0	17.80	-0.13	0 mm	1	0721M	6	back	93.8	1.104	0.179	1.047	1.066	0.200	
5785	157	802.11a	OFDM	20	18.0	17.80	0.00	0 mm	1	0721M	6	front	93.8	2.183	0.216	1.047	1.066	0.241	
5785	157	802.11a	OFDM	20	18.0	17.80	-0.08	0 mm	1	0721M	6	top	93.8	4.445	0.355	1.047	1.066	0.396	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams											

Table 11-78
2.4 GHz WLAN UMPC Extremity SAR for Conditions with 5/6 GHz WLAN or 5G NR Active

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2412	1	802.11b	DSSS	22	15.0	14.98	-0.04	0 mm	2	0255M	1	back	98.9	0.972	0.154	1.005	1.011	0.156	
2412	1	802.11b	DSSS	22	15.0	14.98	-0.09	0 mm	2	0255M	1	front	98.9	1.070	0.163	1.005	1.011	0.166	
2412	1	802.11b	DSSS	22	15.0	14.98	-0.15	0 mm	2	0255M	1	bottom	98.9	0.795	0.173	1.005	1.011	0.176	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

Note: 5/6 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

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Table 11-79
WLAN MIMO UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	-0.01	0 mm	MIMO	0725M	1	back	98.9	10.048	1.670	1.042	1.011	1.759	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	-0.03	0 mm	MIMO	0725M	1	front	98.9	9.870	1.500	1.042	1.011	1.580	
2412	1	802.11b	DSSS	22	19.0	18.59	19.0	18.82	0.03	0 mm	MIMO	0725M	1	top	98.9	7.900	1.580	1.099	1.011	1.756	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	-0.05	0 mm	MIMO	0725M	1	top	98.9	11.366	2.060	1.042	1.011	2.170	
2462	11	802.11b	DSSS	22	19.0	18.64	19.0	18.95	0.03	0 mm	MIMO	0725M	1	top	98.9	11.166	2.070	1.086	1.011	2.273	
2437	6	802.11b	DSSS	22	19.0	18.82	19.0	18.98	-0.09	0 mm	MIMO	0725M	1	bottom	98.9	4.998	0.784	1.042	1.011	0.826	
2462	11	802.11b	DSSS	22	19.0	18.64	19.0	18.95	0.05	0 mm	MIMO	0725M	1	top	98.9	11.506	2.160	1.086	1.011	2.372	A86
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	-0.10	0 mm	MIMO	0721M	13	back	86.9	3.311	0.360	1.175	1.151	0.487	
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	-0.16	0 mm	MIMO	0721M	13	front	86.9	5.032	0.535	1.175	1.151	0.724	
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.05	0 mm	MIMO	0721M	13	top	86.9	5.128	0.379	1.175	1.151	0.513	
5260	52	802.11n	OFDM	20	18.0	17.75	18.0	17.30	0.06	0 mm	MIMO	0721M	13	bottom	86.9	6.110	0.488	1.175	1.151	0.660	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	-0.12	0 mm	MIMO	0721M	13	back	86.9	2.930	0.320	1.109	1.151	0.408	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.14	0 mm	MIMO	0721M	13	front	86.9	2.957	0.375	1.109	1.151	0.479	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.12	0 mm	MIMO	0721M	13	top	86.9	5.507	0.459	1.109	1.151	0.586	
5600	120	802.11n	OFDM	20	18.0	17.65	18.0	17.55	0.13	0 mm	MIMO	0721M	13	bottom	86.9	4.312	0.265	1.109	1.151	0.338	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	-0.12	0 mm	MIMO	0721M	13	back	86.9	6.667	0.488	1.189	1.151	0.668	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	-0.13	0 mm	MIMO	0721M	13	front	86.9	4.222	0.576	1.189	1.151	0.788	A87
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	-0.18	0 mm	MIMO	0721M	13	top	86.9	4.009	0.335	1.189	1.151	0.458	
5825	165	802.11n	OFDM	20	18.0	17.76	18.0	17.25	-0.05	0 mm	MIMO	0721M	13	bottom	86.9	9.460	0.549	1.189	1.151	0.751	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams											

Note: For 2450 MHz WLAN, to achieve the 22.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19.0 dBm. For 5GHz WLAN, 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 11-80
DTS MIMO UMPC Extremity SAR for Conditions with 5/6 GHz WLAN or 5G NR Active

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Dnrt [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2437	6	802.11n	OFDM	20	15.0	14.87	15.0	14.95	-0.06	0 mm	MIMO	0255M	13	back	92.2	0.793	0.264	1.030	1.085	0.295	
2437	6	802.11n	OFDM	20	15.0	14.87	15.0	14.95	-0.01	0 mm	MIMO	0255M	13	front	92.2	0.922	0.264	1.030	1.085	0.295	
2437	6	802.11n	OFDM	20	15.0	14.87	15.0	14.95	0.07	0 mm	MIMO	0255M	13	top	92.2	1.886	0.415	1.030	1.085	0.464	
2437	6	802.11n	OFDM	20	15.0	14.87	15.0	14.95	0.00	0 mm	MIMO	0255M	13	bottom	92.2	1.377	0.237	1.030	1.085	0.265	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										UMPC Extremity											
Spatial Peak										4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 10 grams											

Note: 2.4 GHz WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz WLAN and 5/6 GHz WLAN or 2.4 GHz WLAN and 5 NR active. 5/6 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

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Table 11-81
NII MIMO UMPC Extremity SAR for Conditions with 2.4 GHz WLAN or 5G NR Active

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate [Mbps]	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.															W/kg	(W/kg)		(W/kg)		
5290	58	802.11ac	OFDM	80	15.0	14.69	15.0	13.28	0.16	0 mm	MIMO	0255M	58.5	back	86.3	0.682	0.062	1.486	1.159	0.107	
5290	58	802.11ac	OFDM	80	15.0	14.69	15.0	13.28	0.15	0 mm	MIMO	0255M	58.5	front	86.3	0.837	0.069	1.486	1.159	0.119	
5290	58	802.11ac	OFDM	80	15.0	14.69	15.0	13.28	0.14	0 mm	MIMO	0255M	58.5	top	86.3	1.632	0.139	1.486	1.159	0.239	
5290	58	802.11ac	OFDM	80	15.0	14.69	15.0	13.28	0.04	0 mm	MIMO	0255M	58.5	bottom	86.3	1.188	0.066	1.486	1.159	0.114	
5690	138	802.11ac	OFDM	80	15.0	14.93	15.0	14.04	0.13	0 mm	MIMO	0255M	58.5	back	86.3	0.766	0.069	1.247	1.159	0.100	
5690	138	802.11ac	OFDM	80	15.0	14.93	15.0	14.04	0.13	0 mm	MIMO	0255M	58.5	front	86.3	1.020	0.087	1.247	1.159	0.126	
5690	138	802.11ac	OFDM	80	15.0	14.93	15.0	14.04	-0.15	0 mm	MIMO	0255M	58.5	top	86.3	2.519	0.176	1.247	1.159	0.254	
5690	138	802.11ac	OFDM	80	15.0	14.93	15.0	14.04	0.13	0 mm	MIMO	0255M	58.5	bottom	86.3	0.312	0.022	1.247	1.159	0.032	
5775	155	802.11ac	OFDM	80	15.0	14.91	15.0	13.84	0.00	0 mm	MIMO	0255M	58.5	back	86.3	0.669	0.105	1.306	1.159	0.159	
5775	155	802.11ac	OFDM	80	15.0	14.91	15.0	13.84	0.17	0 mm	MIMO	0255M	58.5	front	86.3	0.864	0.070	1.306	1.159	0.106	
5775	155	802.11ac	OFDM	80	15.0	14.91	15.0	13.84	0.12	0 mm	MIMO	0255M	58.5	top	86.3	1.889	0.141	1.306	1.159	0.213	
5775	155	802.11ac	OFDM	80	15.0	14.91	15.0	13.84	0.17	0 mm	MIMO	0255M	58.5	bottom	86.3	0.287	0.019	1.306	1.159	0.029	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams										

Note: 5 GHz WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz WLAN and 5/6 GHz WLAN or 2.4 GHz WLAN and 5 NR active. 5/6 GHz WIFI and/or 5G NR were not transmitting during the above evaluations

Table 11-82
DSS UMPC Extremity SAR

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (10g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)		
2441	39	Bluetooth	FHSS	17.5	17.29	0.00	0 mm	1	0725M	1	back	76.80	0.506	1.050	1.302	0.692	
2441	39	Bluetooth	FHSS	17.5	17.29	0.04	0 mm	1	0725M	1	front	76.80	0.443	1.050	1.302	0.606	
2441	39	Bluetooth	FHSS	17.5	17.29	-0.05	0 mm	1	0725M	1	top	76.80	0.667	1.050	1.302	0.912	A88
2441	39	Bluetooth	FHSS	17.5	16.93	0.05	0 mm	2	0725M	1	back	76.80	0.222	1.140	1.302	0.330	
2441	39	Bluetooth	FHSS	17.5	16.93	-0.01	0 mm	2	0725M	1	front	76.80	0.219	1.140	1.302	0.325	
2441	39	Bluetooth	FHSS	17.5	16.93	-0.04	0 mm	2	0725M	1	bottom	76.80	0.257	1.140	1.302	0.381	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams										

11.7 SAR Test Notes

General Notes:

- 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.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- 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.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- 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.

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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 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" when it is in closed configuration 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. 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.
12. This device utilizes power reduction for some wireless modes and technologies, as outlined in Section 1.3. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.
13. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.
14. Per FCC KDB Publication 941225 D07v01r02, this device is considered a "UMPC mini-tablet" when it is in open configuration. UMPC body 1g SAR tests are required on all surfaces and edges ≤ 25 mm from a transmitting antenna. Therefore, to address hand exposure, UMPC extremity 10g SAR tests are required at a test separation distance of 0 mm for all measured 1g SAR (at 10 mm) configurations.

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 middle channel or 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). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

UMTS Notes:

1. 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 middle channel or 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). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

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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 and MCC=001 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. 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.
2. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. 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.
6. 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.

WLAN Notes:

1. For held-to-ear, and 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 single transmission chain 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.

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3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain 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. 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.
5. 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.
6. 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.

Bluetooth Notes

1. 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

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 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.

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.

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.

Please refer to WIFI6E RF Exposure Report for 6 GHz WLAN standalone reported SAR results (report SN could be found in Section 1.10 – Bibliography).

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.

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12.3 Head SAR Simultaneous Transmission Analysis

Table 12-1
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO (Held to Ear)

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
Head SAR	GSM 850	0.110	0.421	0.531
	GSM 1900	0.027	0.421	0.448
	UMTS 850	0.125	0.421	0.546
	UMTS 1750	0.073	0.421	0.494
	UMTS 1900	0.082	0.421	0.503
	LTE Band 12	0.116	0.421	0.537
	LTE Band 13	0.145	0.421	0.566
	LTE Band 26 (Cell)	0.136	0.421	0.557
	LTE Band 66 (AWS)	0.079	0.421	0.500
	LTE Band 25 (PCS)	0.050	0.421	0.471
	LTE Band 41	0.036	0.421	0.457
	NR Band n5 (Cell)	0.134	0.421	0.555
	NR Band n66 (AWS)	0.080	0.421	0.501

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)	0.079	0.134	0.421	0.634
	LTE Band 25 (PCS)	0.050	0.134	0.421	0.605

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 12	0.116	0.080	0.421	0.617
	LTE Band 26 (Cell)	0.136	0.080	0.421	0.637

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Table 12-2
Simultaneous Transmission Scenario with 5 GHz WLAN Ant 1 (Held to Ear)

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
Head SAR	GSM 850	0.110	0.106	0.216
	GSM 1900	0.027	0.106	0.133
	UMTS 850	0.125	0.106	0.231
	UMTS 1750	0.073	0.106	0.179
	UMTS 1900	0.082	0.106	0.188
	LTE Band 12	0.116	0.106	0.222
	LTE Band 13	0.145	0.106	0.251
	LTE Band 26 (Cell)	0.136	0.106	0.242
	LTE Band 66 (AWS)	0.079	0.106	0.185
	LTE Band 25 (PCS)	0.050	0.106	0.156
	LTE Band 41	0.036	0.106	0.142
	NR Band n5 (Cell)	0.134	0.106	0.240
	NR Band n66 (AWS)	0.080	0.106	0.186

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)	0.079	0.134	0.106	0.319
	LTE Band 25 (PCS)	0.050	0.134	0.106	0.290

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 12	0.116	0.080	0.106	0.302
	LTE Band 26 (Cell)	0.136	0.080	0.106	0.322

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Table 12-3
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Held to Ear)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	GSM 850	0.110	0.080	0.190
	GSM 1900	0.027	0.080	0.107
	UMTS 850	0.125	0.080	0.205
	UMTS 1750	0.073	0.080	0.153
	UMTS 1900	0.082	0.080	0.162
	LTE Band 12	0.116	0.080	0.196
	LTE Band 13	0.145	0.080	0.225
	LTE Band 26 (Cell)	0.136	0.080	0.216
	LTE Band 66 (AWS)	0.079	0.080	0.159
	LTE Band 25 (PCS)	0.050	0.080	0.130
	LTE Band 41	0.036	0.080	0.116
	NR Band n5 (Cell)	0.134	0.080	0.214
	NR Band n66 (AWS)	0.080	0.080	0.160

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)	0.079	0.134	0.080	0.293
	LTE Band 25 (PCS)	0.050	0.134	0.080	0.264

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 12	0.116	0.080	0.080	0.276
	LTE Band 26 (Cell)	0.136	0.080	0.080	0.296

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Table 12-4
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO (Held to Ear)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	GSM 850	0.110	0.258	0.368
	GSM 1900	0.027	0.258	0.285
	UMTS 850	0.125	0.258	0.383
	UMTS 1750	0.073	0.258	0.331
	UMTS 1900	0.082	0.258	0.340
	LTE Band 12	0.116	0.258	0.374
	LTE Band 13	0.145	0.258	0.403
	LTE Band 26 (Cell)	0.136	0.258	0.394
	LTE Band 66 (AWS)	0.079	0.258	0.337
	LTE Band 25 (PCS)	0.050	0.258	0.308
	LTE Band 41	0.036	0.258	0.294
	NR Band n5 (Cell)	0.134	0.258	0.392
	NR Band n66 (AWS)	0.080	0.258	0.338

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	LTE Band 66 (AWS)	0.079	0.134	0.258	0.471
	LTE Band 25 (PCS)	0.050	0.134	0.258	0.442

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	LTE Band 12	0.116	0.080	0.258	0.454
	LTE Band 26 (Cell)	0.136	0.080	0.258	0.474

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

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
Head SAR	GSM 850	0.110	0.421	0.080	0.611
	GSM 1900	0.027	0.421	0.080	0.528
	UMTS 850	0.125	0.421	0.080	0.626
	UMTS 1750	0.073	0.421	0.080	0.574
	UMTS 1900	0.082	0.421	0.080	0.583
	LTE Band 12	0.116	0.421	0.080	0.617
	LTE Band 13	0.145	0.421	0.080	0.646
	LTE Band 26 (Cell)	0.136	0.421	0.080	0.637
	LTE Band 66 (AWS)	0.079	0.421	0.080	0.580
	LTE Band 25 (PCS)	0.050	0.421	0.080	0.551
	LTE Band 41	0.036	0.421	0.080	0.537
	NR Band n5 (Cell)	0.134	0.421	0.080	0.635
	NR Band n66 (AWS)	0.080	0.421	0.080	0.581

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)	0.079	0.134	0.421	0.080	0.714
	LTE Band 25 (PCS)	0.050	0.134	0.421	0.080	0.685
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 12	0.116	0.080	0.421	0.080	0.697
	LTE Band 26 (Cell)	0.136	0.080	0.421	0.080	0.717

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Table 12-6
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 6 GHz WLAN MIMO (Held to Ear)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	GSM 850	0.110	0.421	0.258	0.789
	GSM 1900	0.027	0.421	0.258	0.706
	UMTS 850	0.125	0.421	0.258	0.804
	UMTS 1750	0.073	0.421	0.258	0.752
	UMTS 1900	0.082	0.421	0.258	0.761
	LTE Band 12	0.116	0.421	0.258	0.795
	LTE Band 13	0.145	0.421	0.258	0.824
	LTE Band 26 (Cell)	0.136	0.421	0.258	0.815
	LTE Band 66 (AWS)	0.079	0.421	0.258	0.758
	LTE Band 25 (PCS)	0.050	0.421	0.258	0.729
	LTE Band 41	0.036	0.421	0.258	0.715
	NR Band n5 (Cell)	0.134	0.421	0.258	0.813
	NR Band n66 (AWS)	0.080	0.421	0.258	0.759

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.079	0.134	0.421	0.258	0.892
	LTE Band 25 (PCS)	0.050	0.134	0.421	0.258	0.863
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 12	0.116	0.080	0.421	0.258	0.875
	LTE Band 26 (Cell)	0.136	0.080	0.421	0.258	0.895

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Table 12-7
Simultaneous Transmission Scenario with Bluetooth (Held to Ear)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	GSM 850	0.110	0.130	0.000	0.240
	GSM 1900	0.027	0.130	0.000	0.157
	UMTS 850	0.125	0.130	0.000	0.255
	UMTS 1750	0.073	0.130	0.000	0.203
	UMTS 1900	0.082	0.130	0.000	0.212
	LTE Band 12	0.116	0.130	0.000	0.246
	LTE Band 13	0.145	0.130	0.000	0.275
	LTE Band 26 (Cell)	0.136	0.130	0.000	0.266
	LTE Band 66 (AWS)	0.079	0.130	0.000	0.209
	LTE Band 25 (PCS)	0.050	0.130	0.000	0.180
	LTE Band 41	0.036	0.130	0.000	0.166
	NR Band n5 (Cell)	0.134	0.130	0.000	0.264
	NR Band n66 (AWS)	0.080	0.130	0.000	0.210

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)	0.079	0.134	0.130	0.343
	LTE Band 25 (PCS)	0.050	0.134	0.130	0.314
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 12	0.116	0.080	0.130	0.326
	LTE Band 26 (Cell)	0.136	0.080	0.130	0.346
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
Head SAR	LTE Band 66 (AWS)	0.079	0.134	0.000	0.213
	LTE Band 25 (PCS)	0.050	0.134	0.000	0.184

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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
Head SAR	LTE Band 12	0.116	0.080	0.000	0.196
	LTE Band 26 (Cell)	0.136	0.080	0.000	0.216

Table 12-8
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2 and Bluetooth Ant 1 (Held to Ear)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	GSM 850	0.110	0.000	0.130	0.240
	GSM 1900	0.027	0.000	0.130	0.157
	UMTS 850	0.125	0.000	0.130	0.255
	UMTS 1750	0.073	0.000	0.130	0.203
	UMTS 1900	0.082	0.000	0.130	0.212
	LTE Band 12	0.116	0.000	0.130	0.246
	LTE Band 13	0.145	0.000	0.130	0.275
	LTE Band 26 (Cell)	0.136	0.000	0.130	0.266
	LTE Band 66 (AWS)	0.079	0.000	0.130	0.209
	LTE Band 25 (PCS)	0.050	0.000	0.130	0.180
	LTE Band 41	0.036	0.000	0.130	0.166
	NR Band n5 (Cell)	0.134	0.000	0.130	0.264
	NR Band n66 (AWS)	0.080	0.000	0.130	0.210

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.079	0.134	0.000	0.130	0.343
	LTE Band 25 (PCS)	0.050	0.134	0.000	0.130	0.314
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 12	0.116	0.080	0.000	0.130	0.326
	LTE Band 26 (Cell)	0.136	0.080	0.000	0.130	0.346

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

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Head SAR	GSM 850	0.110	0.080	0.130	0.000	0.320	0.190
	GSM 1900	0.027	0.080	0.130	0.000	0.237	0.107
	UMTS 850	0.125	0.080	0.130	0.000	0.335	0.205
	UMTS 1750	0.073	0.080	0.130	0.000	0.283	0.153
	UMTS 1900	0.082	0.080	0.130	0.000	0.292	0.162
	LTE Band 12	0.116	0.080	0.130	0.000	0.326	0.196
	LTE Band 13	0.145	0.080	0.130	0.000	0.355	0.225
	LTE Band 26 (Cell)	0.136	0.080	0.130	0.000	0.346	0.216
	LTE Band 66 (AWS)	0.079	0.080	0.130	0.000	0.289	0.159
	LTE Band 25 (PCS)	0.050	0.080	0.130	0.000	0.260	0.130
	LTE Band 41	0.036	0.080	0.130	0.000	0.246	0.116
	NR Band n5 (Cell)	0.134	0.080	0.130	0.000	0.344	0.214
	NR Band n66 (AWS)	0.080	0.080	0.130	0.000	0.290	0.160

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.079	0.134	0.080	0.130	0.423
	LTE Band 25 (PCS)	0.050	0.134	0.080	0.130	0.394
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 12	0.116	0.080	0.080	0.130	0.406
	LTE Band 26 (Cell)	0.136	0.080	0.080	0.130	0.426
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.079	0.134	0.080	0.000	0.293
	LTE Band 25 (PCS)	0.050	0.134	0.080	0.000	0.264
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 12	0.116	0.080	0.080	0.000	0.276
	LTE Band 26 (Cell)	0.136	0.080	0.080	0.000	0.296

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Table 12-10
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO and Bluetooth (Held to Ear)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Head SAR	GSM 850	0.110	0.258	0.130	0.000	0.498	0.368
	GSM 1900	0.027	0.258	0.130	0.000	0.415	0.285
	UMTS 850	0.125	0.258	0.130	0.000	0.513	0.383
	UMTS 1750	0.073	0.258	0.130	0.000	0.461	0.331
	UMTS 1900	0.082	0.258	0.130	0.000	0.470	0.340
	LTE Band 12	0.116	0.258	0.130	0.000	0.504	0.374
	LTE Band 13	0.145	0.258	0.130	0.000	0.533	0.403
	LTE Band 26 (Cell)	0.136	0.258	0.130	0.000	0.524	0.394
	LTE Band 66 (AWS)	0.079	0.258	0.130	0.000	0.467	0.337
	LTE Band 25 (PCS)	0.050	0.258	0.130	0.000	0.438	0.308
	LTE Band 41	0.036	0.258	0.130	0.000	0.424	0.294
	NR Band n5 (Cell)	0.134	0.258	0.130	0.000	0.522	0.392
	NR Band n66 (AWS)	0.080	0.258	0.130	0.000	0.468	0.338

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.079	0.134	0.258	0.130	0.601
	LTE Band 25 (PCS)	0.050	0.134	0.258	0.130	0.572
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 12	0.116	0.080	0.258	0.130	0.584
	LTE Band 26 (Cell)	0.136	0.080	0.258	0.130	0.604
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 66 (AWS)	0.079	0.134	0.258	0.000	0.471
	LTE Band 25 (PCS)	0.050	0.134	0.258	0.000	0.442
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	LTE Band 12	0.116	0.080	0.258	0.000	0.454
	LTE Band 26 (Cell)	0.136	0.080	0.258	0.000	0.474

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

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3+4	
Head SAR	GSM 850	0.110	0.000	0.080	0.130	0.320	
	GSM 1900	0.027	0.000	0.080	0.130	0.237	
	UMTS 850	0.125	0.000	0.080	0.130	0.335	
	UMTS 1750	0.073	0.000	0.080	0.130	0.283	
	UMTS 1900	0.082	0.000	0.080	0.130	0.292	
	LTE Band 12	0.116	0.000	0.080	0.130	0.326	
	LTE Band 13	0.145	0.000	0.080	0.130	0.355	
	LTE Band 26 (Cell)	0.136	0.000	0.080	0.130	0.346	
	LTE Band 66 (AWS)	0.079	0.000	0.080	0.130	0.289	
	LTE Band 25 (PCS)	0.050	0.000	0.080	0.130	0.260	
	LTE Band 41	0.036	0.000	0.080	0.130	0.246	
	NR Band n5 (Cell)	0.134	0.000	0.080	0.130	0.344	
	NR Band n66 (AWS)	0.080	0.000	0.080	0.130	0.290	
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth 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)	0.079	0.134	0.000	0.080	0.130	0.423
	LTE Band 25 (PCS)	0.050	0.134	0.000	0.080	0.130	0.394
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Head SAR	LTE Band 12	0.116	0.080	0.000	0.080	0.130	0.406
	LTE Band 26 (Cell)	0.136	0.080	0.000	0.080	0.130	0.426

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Table 12-12
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2, 6 GHz WLAN MIMO, and Bluetooth Ant 1 (Held to Ear)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3+4	
Head SAR	GSM 850	0.110	0.000	0.258	0.130	0.498	
	GSM 1900	0.027	0.000	0.258	0.130	0.415	
	UMTS 850	0.125	0.000	0.258	0.130	0.513	
	UMTS 1750	0.073	0.000	0.258	0.130	0.461	
	UMTS 1900	0.082	0.000	0.258	0.130	0.470	
	LTE Band 12	0.116	0.000	0.258	0.130	0.504	
	LTE Band 13	0.145	0.000	0.258	0.130	0.533	
	LTE Band 26 (Cell)	0.136	0.000	0.258	0.130	0.524	
	LTE Band 66 (AWS)	0.079	0.000	0.258	0.130	0.467	
	LTE Band 25 (PCS)	0.050	0.000	0.258	0.130	0.438	
	LTE Band 41	0.036	0.000	0.258	0.130	0.424	
	NR Band n5 (Cell)	0.134	0.000	0.258	0.130	0.522	
	NR Band n66 (AWS)	0.080	0.000	0.258	0.130	0.468	
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth 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)	0.079	0.134	0.000	0.258	0.130	0.601
	LTE Band 25 (PCS)	0.050	0.134	0.000	0.258	0.130	0.572
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Head SAR	LTE Band 12	0.116	0.080	0.000	0.258	0.130	0.584
	LTE Band 26 (Cell)	0.136	0.080	0.000	0.258	0.130	0.604

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12.4 Body-Worn Simultaneous Transmission Analysis

Table 12-13
Simultaneous Transmission Scenario with 2.4 GHz 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
Body - Worn SAR	GSM 850	0.168	0.048	0.216
	GSM 1900	0.156	0.048	0.204
	UMTS 850	0.172	0.048	0.220
	UMTS 1750	0.516	0.048	0.564
	UMTS 1900	0.500	0.048	0.548
	LTE Band 12	0.141	0.048	0.189
	LTE Band 13	0.149	0.048	0.197
	LTE Band 26 (Cell)	0.212	0.048	0.260
	LTE Band 66 (AWS)	0.576	0.048	0.624
	LTE Band 25 (PCS)	0.313	0.048	0.361
	LTE Band 41	0.159	0.048	0.207
	NR Band n5 (Cell)	0.168	0.048	0.216
	NR Band n66 (AWS)	0.533	0.048	0.581

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 SAR	LTE Band 66 (AWS)	0.576	0.168	0.048	0.792
	LTE Band 25 (PCS)	0.313	0.168	0.048	0.529
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 SAR	LTE Band 12	0.141	0.533	0.048	0.722
	LTE Band 26 (Cell)	0.212	0.533	0.048	0.793

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Table 12-14
Simultaneous Transmission Scenario with 5 GHz WLAN Ant 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 (W/kg)
		1	2	1+2
Body - Worn SAR	GSM 850	0.168	0.000	0.168
	GSM 1900	0.156	0.000	0.156
	UMTS 850	0.172	0.000	0.172
	UMTS 1750	0.516	0.000	0.516
	UMTS 1900	0.500	0.000	0.500
	LTE Band 12	0.141	0.000	0.141
	LTE Band 13	0.149	0.000	0.149
	LTE Band 26 (Cell)	0.212	0.000	0.212
	LTE Band 66 (AWS)	0.576	0.000	0.576
	LTE Band 25 (PCS)	0.313	0.000	0.313
	LTE Band 41	0.159	0.000	0.159
	NR Band n5 (Cell)	0.168	0.000	0.168
	NR Band n66 (AWS)	0.533	0.000	0.533

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 SAR	LTE Band 66 (AWS)	0.576	0.168	0.000	0.744
	LTE Band 25 (PCS)	0.313	0.168	0.000	0.481
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 SAR	LTE Band 12	0.141	0.533	0.000	0.674
	LTE Band 26 (Cell)	0.212	0.533	0.000	0.745

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Table 12-15
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Body-Worn at 1.5 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	
Body - Worn SAR	GSM 850	0.168	0.010	0.178	
	GSM 1900	0.156	0.010	0.166	
	UMTS 850	0.172	0.010	0.182	
	UMTS 1750	0.516	0.010	0.526	
	UMTS 1900	0.500	0.010	0.510	
	LTE Band 12	0.141	0.010	0.151	
	LTE Band 13	0.149	0.010	0.159	
	LTE Band 26 (Cell)	0.212	0.010	0.222	
	LTE Band 66 (AWS)	0.576	0.010	0.586	
	LTE Band 25 (PCS)	0.313	0.010	0.323	
	LTE Band 41	0.159	0.010	0.169	
	NR Band n5 (Cell)	0.168	0.010	0.178	
	NR Band n66 (AWS)	0.533	0.010	0.543	
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 SAR	LTE Band 66 (AWS)	0.576	0.168	0.010	0.754
	LTE Band 25 (PCS)	0.313	0.168	0.010	0.491
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 SAR	LTE Band 12	0.141	0.533	0.010	0.684
	LTE Band 26 (Cell)	0.212	0.533	0.010	0.755

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Table 12-16
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2	
Body - Worn SAR	GSM 850	0.168	0.007	0.175	
	GSM 1900	0.156	0.007	0.163	
	UMTS 850	0.172	0.007	0.179	
	UMTS 1750	0.516	0.007	0.523	
	UMTS 1900	0.500	0.007	0.507	
	LTE Band 12	0.141	0.007	0.148	
	LTE Band 13	0.149	0.007	0.156	
	LTE Band 26 (Cell)	0.212	0.007	0.219	
	LTE Band 66 (AWS)	0.576	0.007	0.583	
	LTE Band 25 (PCS)	0.313	0.007	0.320	
	LTE Band 41	0.159	0.007	0.166	
	NR Band n5 (Cell)	0.168	0.007	0.175	
	NR Band n66 (AWS)	0.533	0.007	0.540	
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn SAR	LTE Band 66 (AWS)	0.576	0.168	0.007	0.751
	LTE Band 25 (PCS)	0.313	0.168	0.007	0.488
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn SAR	LTE Band 12	0.141	0.533	0.007	0.681
	LTE Band 26 (Cell)	0.212	0.533	0.007	0.752

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Table 12-17
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO
(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
Body - Worn SAR	GSM 850	0.168	0.048	0.010	0.226
	GSM 1900	0.156	0.048	0.010	0.214
	UMTS 850	0.172	0.048	0.010	0.230
	UMTS 1750	0.516	0.048	0.010	0.574
	UMTS 1900	0.500	0.048	0.010	0.558
	LTE Band 12	0.141	0.048	0.010	0.199
	LTE Band 13	0.149	0.048	0.010	0.207
	LTE Band 26 (Cell)	0.212	0.048	0.010	0.270
	LTE Band 66 (AWS)	0.576	0.048	0.010	0.634
	LTE Band 25 (PCS)	0.313	0.048	0.010	0.371
	LTE Band 41	0.159	0.048	0.010	0.217
	NR Band n5 (Cell)	0.168	0.048	0.010	0.226
	NR Band n66 (AWS)	0.533	0.048	0.010	0.591

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 SAR	LTE Band 66 (AWS)	0.576	0.168	0.048	0.010	0.802
	LTE Band 25 (PCS)	0.313	0.168	0.048	0.010	0.539
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 SAR	LTE Band 12	0.141	0.533	0.048	0.010	0.732
	LTE Band 26 (Cell)	0.212	0.533	0.048	0.010	0.803

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Table 12-18
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 6 GHz WLAN MIMO
(Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn SAR	GSM 850	0.168	0.048	0.007	0.223
	GSM 1900	0.156	0.048	0.007	0.211
	UMTS 850	0.172	0.048	0.007	0.227
	UMTS 1750	0.516	0.048	0.007	0.571
	UMTS 1900	0.500	0.048	0.007	0.555
	LTE Band 12	0.141	0.048	0.007	0.196
	LTE Band 13	0.149	0.048	0.007	0.204
	LTE Band 26 (Cell)	0.212	0.048	0.007	0.267
	LTE Band 66 (AWS)	0.576	0.048	0.007	0.631
	LTE Band 25 (PCS)	0.313	0.048	0.007	0.368
	LTE Band 41	0.159	0.048	0.007	0.214
	NR Band n5 (Cell)	0.168	0.048	0.007	0.223
	NR Band n66 (AWS)	0.533	0.048	0.007	0.588

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 66 (AWS)	0.576	0.168	0.048	0.007	0.799
	LTE Band 25 (PCS)	0.313	0.168	0.048	0.007	0.536
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 12	0.141	0.533	0.048	0.007	0.729
	LTE Band 26 (Cell)	0.212	0.533	0.048	0.007	0.800

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Table 12-19
Simultaneous Transmission Scenario with Bluetooth (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Body - Worn SAR	GSM 850	0.168	0.018	0.006	0.186	0.174
	GSM 1900	0.156	0.018	0.006	0.174	0.162
	UMTS 850	0.172	0.018	0.006	0.190	0.178
	UMTS 1750	0.516	0.018	0.006	0.534	0.522
	UMTS 1900	0.500	0.018	0.006	0.518	0.506
	LTE Band 12	0.141	0.018	0.006	0.159	0.147
	LTE Band 13	0.149	0.018	0.006	0.167	0.155
	LTE Band 26 (Cell)	0.212	0.018	0.006	0.230	0.218
	LTE Band 66 (AWS)	0.576	0.018	0.006	0.594	0.582
	LTE Band 25 (PCS)	0.313	0.018	0.006	0.331	0.319
	LTE Band 41	0.159	0.018	0.006	0.177	0.165
	NR Band n5 (Cell)	0.168	0.018	0.006	0.186	0.174
	NR Band n66 (AWS)	0.533	0.018	0.006	0.551	0.539

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 SAR	LTE Band 66 (AWS)	0.576	0.168	0.018	0.762
	LTE Band 25 (PCS)	0.313	0.168	0.018	0.499
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 SAR	LTE Band 12	0.141	0.533	0.018	0.692
	LTE Band 26 (Cell)	0.212	0.533	0.018	0.763
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 SAR	LTE Band 66 (AWS)	0.576	0.168	0.006	0.750
	LTE Band 25 (PCS)	0.313	0.168	0.006	0.487
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 SAR	LTE Band 12	0.141	0.533	0.006	0.680
	LTE Band 26 (Cell)	0.212	0.533	0.006	0.751

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Table 12-20
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2 and Bluetooth Ant 1
(Body-Worn at 1.5 cm)

Configuration		Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
			1	2	3	1+2+3
Body - Worn SAR		GSM 850	0.168	0.021	0.018	0.207
		GSM 1900	0.156	0.021	0.018	0.195
		UMTS 850	0.172	0.021	0.018	0.211
		UMTS 1750	0.516	0.021	0.018	0.555
		UMTS 1900	0.500	0.021	0.018	0.539
		LTE Band 12	0.141	0.021	0.018	0.180
		LTE Band 13	0.149	0.021	0.018	0.188
		LTE Band 26 (Cell)	0.212	0.021	0.018	0.251
		LTE Band 66 (AWS)	0.576	0.021	0.018	0.615
		LTE Band 25 (PCS)	0.313	0.021	0.018	0.352
		LTE Band 41	0.159	0.021	0.018	0.198
		NR Band n5 (Cell)	0.168	0.021	0.018	0.207
		NR Band n66 (AWS)	0.533	0.021	0.018	0.572
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 66 (AWS)	0.576	0.168	0.021	0.018	0.783
	LTE Band 25 (PCS)	0.313	0.168	0.021	0.018	0.520
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 12	0.141	0.533	0.021	0.018	0.713
	LTE Band 26 (Cell)	0.212	0.533	0.021	0.018	0.784

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

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Body - Worn SAR	GSM 850	0.168	0.010	0.018	0.006	0.196	0.184
	GSM 1900	0.156	0.010	0.018	0.006	0.184	0.172
	UMTS 850	0.172	0.010	0.018	0.006	0.200	0.188
	UMTS 1750	0.516	0.010	0.018	0.006	0.544	0.532
	UMTS 1900	0.500	0.010	0.018	0.006	0.528	0.516
	LTE Band 12	0.141	0.010	0.018	0.006	0.169	0.157
	LTE Band 13	0.149	0.010	0.018	0.006	0.177	0.165
	LTE Band 26 (Cell)	0.212	0.010	0.018	0.006	0.240	0.228
	LTE Band 66 (AWS)	0.576	0.010	0.018	0.006	0.604	0.592
	LTE Band 25 (PCS)	0.313	0.010	0.018	0.006	0.341	0.329
	LTE Band 41	0.159	0.010	0.018	0.006	0.187	0.175
	NR Band n5 (Cell)	0.168	0.010	0.018	0.006	0.196	0.184
	NR Band n66 (AWS)	0.533	0.010	0.018	0.006	0.561	0.549

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 66 (AWS)	0.576	0.168	0.010	0.018	0.772
	LTE Band 25 (PCS)	0.313	0.168	0.010	0.018	0.509
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 12	0.141	0.533	0.010	0.018	0.702
	LTE Band 26 (Cell)	0.212	0.533	0.010	0.018	0.773
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 66 (AWS)	0.576	0.168	0.010	0.006	0.760
	LTE Band 25 (PCS)	0.313	0.168	0.010	0.006	0.497
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 12	0.141	0.533	0.010	0.006	0.690
	LTE Band 26 (Cell)	0.212	0.533	0.010	0.006	0.761

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Table 12-22
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO and Bluetooth (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Body - Worn SAR	GSM 850	0.168	0.007	0.018	0.006	0.193	0.181
	GSM 1900	0.156	0.007	0.018	0.006	0.181	0.169
	UMTS 850	0.172	0.007	0.018	0.006	0.197	0.185
	UMTS 1750	0.516	0.007	0.018	0.006	0.541	0.529
	UMTS 1900	0.500	0.007	0.018	0.006	0.525	0.513
	LTE Band 12	0.141	0.007	0.018	0.006	0.166	0.154
	LTE Band 13	0.149	0.007	0.018	0.006	0.174	0.162
	LTE Band 26 (Cell)	0.212	0.007	0.018	0.006	0.237	0.225
	LTE Band 66 (AWS)	0.576	0.007	0.018	0.006	0.601	0.589
	LTE Band 25 (PCS)	0.313	0.007	0.018	0.006	0.338	0.326
	LTE Band 41	0.159	0.007	0.018	0.006	0.184	0.172
	NR Band n5 (Cell)	0.168	0.007	0.018	0.006	0.193	0.181
	NR Band n66 (AWS)	0.533	0.007	0.018	0.006	0.558	0.546

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 66 (AWS)	0.576	0.168	0.007	0.018	0.769
	LTE Band 25 (PCS)	0.313	0.168	0.007	0.018	0.506
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 12	0.141	0.533	0.007	0.018	0.699
	LTE Band 26 (Cell)	0.212	0.533	0.007	0.018	0.770
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 66 (AWS)	0.576	0.168	0.007	0.006	0.757
	LTE Band 25 (PCS)	0.313	0.168	0.007	0.006	0.494
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	LTE Band 12	0.141	0.533	0.007	0.006	0.687
	LTE Band 26 (Cell)	0.212	0.533	0.007	0.006	0.758

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Table 12-23
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2, 5 GHz WLAN MIMO and Bluetooth Ant 1
(Body-Worn at 1.5 cm)

Configuration		Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
			1	2	3	4	1+2+3+4
Body - Worn SAR		GSM 850	0.168	0.021	0.010	0.018	0.217
		GSM 1900	0.156	0.021	0.010	0.018	0.205
		UMTS 850	0.172	0.021	0.010	0.018	0.221
		UMTS 1750	0.516	0.021	0.010	0.018	0.565
		UMTS 1900	0.500	0.021	0.010	0.018	0.549
		LTE Band 12	0.141	0.021	0.010	0.018	0.190
		LTE Band 13	0.149	0.021	0.010	0.018	0.198
		LTE Band 26 (Cell)	0.212	0.021	0.010	0.018	0.261
		LTE Band 66 (AWS)	0.576	0.021	0.010	0.018	0.625
		LTE Band 25 (PCS)	0.313	0.021	0.010	0.018	0.362
		LTE Band 41	0.159	0.021	0.010	0.018	0.208
		NR Band n5 (Cell)	0.168	0.021	0.010	0.018	0.217
		NR Band n66 (AWS)	0.533	0.021	0.010	0.018	0.582
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body - Worn SAR	LTE Band 66 (AWS)	0.576	0.168	0.021	0.010	0.018	0.793
	LTE Band 25 (PCS)	0.313	0.168	0.021	0.010	0.018	0.530
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body - Worn SAR	LTE Band 12	0.141	0.533	0.021	0.010	0.018	0.723
	LTE Band 26 (Cell)	0.212	0.533	0.021	0.010	0.018	0.794

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Table 12-24
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2, 6 GHz WLAN MIMO and Bluetooth Ant 1
(Body-Worn at 1.5 cm)

Configuration		Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
			1	2	3	4	1+2+3+4
Body - Worn SAR		GSM 850	0.168	0.021	0.007	0.018	0.214
		GSM 1900	0.156	0.021	0.007	0.018	0.202
		UMTS 850	0.172	0.021	0.007	0.018	0.218
		UMTS 1750	0.516	0.021	0.007	0.018	0.562
		UMTS 1900	0.500	0.021	0.007	0.018	0.546
		LTE Band 12	0.141	0.021	0.007	0.018	0.187
		LTE Band 13	0.149	0.021	0.007	0.018	0.195
		LTE Band 26 (Cell)	0.212	0.021	0.007	0.018	0.258
		LTE Band 66 (AWS)	0.576	0.021	0.007	0.018	0.622
		LTE Band 25 (PCS)	0.313	0.021	0.007	0.018	0.359
		LTE Band 41	0.159	0.021	0.007	0.018	0.205
		NR Band n5 (Cell)	0.168	0.021	0.007	0.018	0.214
		NR Band n66 (AWS)	0.533	0.021	0.007	0.018	0.579
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body - Worn SAR	LTE Band 66 (AWS)	0.576	0.168	0.021	0.007	0.018	0.790
	LTE Band 25 (PCS)	0.313	0.168	0.021	0.007	0.018	0.527
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body - Worn SAR	LTE Band 12	0.141	0.533	0.021	0.007	0.018	0.720
	LTE Band 26 (Cell)	0.212	0.533	0.021	0.007	0.018	0.791

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12.5 Hotspot SAR Simultaneous Transmission Analysis

Table 12-25
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Hotspot at 1.0 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
Hotspot SAR	GPRS 850	0.321	0.318	0.639
	GPRS 1900	0.394	0.318	0.712
	UMTS 850	0.334	0.318	0.652
	UMTS 1750	0.479	0.318	0.797
	UMTS 1900	0.386	0.318	0.704
	LTE Band 12	0.317	0.318	0.635
	LTE Band 13	0.317	0.318	0.635
	LTE Band 26 (Cell)	0.400	0.318	0.718
	LTE Band 66 (AWS)	0.469	0.318	0.787
	LTE Band 25 (PCS)	0.324	0.318	0.642
	LTE Band 41	0.303	0.318	0.621
	NR Band n5 (Cell)	0.373	0.318	0.691
	NR Band n66 (AWS)	0.579	0.318	0.897

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)	0.469	0.373	0.318	1.160
	LTE Band 25 (PCS)	0.324	0.373	0.318	1.015
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 12	0.317	0.579	0.318	1.214
	LTE Band 26 (Cell)	0.400	0.579	0.318	1.297

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Table 12-26
Simultaneous Transmission Scenario with 5 GHz WLAN Ant 1 (Hotspot at 1.0 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
Hotspot SAR	GPRS 850	0.321	0.049	0.370
	GPRS 1900	0.394	0.049	0.443
	UMTS 850	0.334	0.049	0.383
	UMTS 1750	0.479	0.049	0.528
	UMTS 1900	0.386	0.049	0.435
	LTE Band 12	0.317	0.049	0.366
	LTE Band 13	0.317	0.049	0.366
	LTE Band 26 (Cell)	0.400	0.049	0.449
	LTE Band 66 (AWS)	0.469	0.049	0.518
	LTE Band 25 (PCS)	0.324	0.049	0.373
	LTE Band 41	0.303	0.049	0.352
	NR Band n5 (Cell)	0.373	0.049	0.422
	NR Band n66 (AWS)	0.579	0.049	0.628

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)	0.469	0.373	0.049	0.891
	LTE Band 25 (PCS)	0.324	0.373	0.049	0.746
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 12	0.317	0.579	0.049	0.945
	LTE Band 26 (Cell)	0.400	0.579	0.049	1.028

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Table 12-27
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Hotspot at 1.0 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
Hotspot SAR	GPRS 850	0.321	0.056	0.377
	GPRS 1900	0.394	0.056	0.450
	UMTS 850	0.334	0.056	0.390
	UMTS 1750	0.479	0.056	0.535
	UMTS 1900	0.386	0.056	0.442
	LTE Band 12	0.317	0.056	0.373
	LTE Band 13	0.317	0.056	0.373
	LTE Band 26 (Cell)	0.400	0.056	0.456
	LTE Band 66 (AWS)	0.469	0.056	0.525
	LTE Band 25 (PCS)	0.324	0.056	0.380
	LTE Band 41	0.303	0.056	0.359
	NR Band n5 (Cell)	0.373	0.056	0.429
	NR Band n66 (AWS)	0.579	0.056	0.635

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)	0.469	0.373	0.056	0.898
	LTE Band 25 (PCS)	0.324	0.373	0.056	0.753
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 12	0.317	0.579	0.056	0.952
	LTE Band 26 (Cell)	0.400	0.579	0.056	1.035

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Table 12-28
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO
(Hotspot at 1.0 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	2	1+2+3
Hotspot SAR	GPRS 850	0.321	0.318	0.056	0.695
	GPRS 1900	0.394	0.318	0.056	0.768
	UMTS 850	0.334	0.318	0.056	0.708
	UMTS 1750	0.479	0.318	0.056	0.853
	UMTS 1900	0.386	0.318	0.056	0.760
	LTE Band 12	0.317	0.318	0.056	0.691
	LTE Band 13	0.317	0.318	0.056	0.691
	LTE Band 26 (Cell)	0.400	0.318	0.056	0.774
	LTE Band 66 (AWS)	0.469	0.318	0.056	0.843
	LTE Band 25 (PCS)	0.324	0.318	0.056	0.698
	LTE Band 41	0.303	0.318	0.056	0.677
	NR Band n5 (Cell)	0.373	0.318	0.056	0.747
	NR Band n66 (AWS)	0.579	0.318	0.056	0.953

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)	0.469	0.373	0.318	0.056	1.216
	LTE Band 25 (PCS)	0.324	0.373	0.318	0.056	1.071
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 12	0.317	0.579	0.318	0.056	1.270
	LTE Band 26 (Cell)	0.400	0.579	0.318	0.056	1.353

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Table 12-29
Simultaneous Transmission Scenario with Bluetooth (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot SAR	GPRS 850	0.321	0.172	0.092	0.493	0.413
	GPRS 1900	0.394	0.172	0.092	0.566	0.486
	UMTS 850	0.334	0.172	0.092	0.506	0.426
	UMTS 1750	0.479	0.172	0.092	0.651	0.571
	UMTS 1900	0.386	0.172	0.092	0.558	0.478
	LTE Band 12	0.317	0.172	0.092	0.489	0.409
	LTE Band 13	0.317	0.172	0.092	0.489	0.409
	LTE Band 26 (Cell)	0.400	0.172	0.092	0.572	0.492
	LTE Band 66 (AWS)	0.469	0.172	0.092	0.641	0.561
	LTE Band 25 (PCS)	0.324	0.172	0.092	0.496	0.416
	LTE Band 41	0.303	0.172	0.092	0.475	0.395
	NR Band n5 (Cell)	0.373	0.172	0.092	0.545	0.465
	NR Band n66 (AWS)	0.579	0.172	0.092	0.751	0.671

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)	0.469	0.373	0.172	1.014
	LTE Band 25 (PCS)	0.324	0.373	0.172	0.869
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 12	0.317	0.579	0.172	1.068
	LTE Band 26 (Cell)	0.400	0.579	0.172	1.151
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)	0.469	0.373	0.092	0.934
	LTE Band 25 (PCS)	0.324	0.373	0.092	0.789
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 12	0.317	0.579	0.092	0.988
	LTE Band 26 (Cell)	0.400	0.579	0.092	1.071

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Table 12-30
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2 and Bluetooth Ant 1
(Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	GPRS 850	0.321	0.204	0.172	0.697
	GPRS 1900	0.394	0.204	0.172	0.770
	UMTS 850	0.334	0.204	0.172	0.710
	UMTS 1750	0.479	0.204	0.172	0.855
	UMTS 1900	0.386	0.204	0.172	0.762
	LTE Band 12	0.317	0.204	0.172	0.693
	LTE Band 13	0.317	0.204	0.172	0.693
	LTE Band 26 (Cell)	0.400	0.204	0.172	0.776
	LTE Band 66 (AWS)	0.469	0.204	0.172	0.845
	LTE Band 25 (PCS)	0.324	0.204	0.172	0.700
	LTE Band 41	0.303	0.204	0.172	0.679
	NR Band n5 (Cell)	0.373	0.204	0.172	0.749
	NR Band n66 (AWS)	0.579	0.204	0.172	0.955

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.469	0.373	0.204	0.172	1.218
	LTE Band 25 (PCS)	0.324	0.373	0.204	0.172	1.073
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 12	0.317	0.579	0.204	0.172	1.272
	LTE Band 26 (Cell)	0.400	0.579	0.204	0.172	1.355

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Table 12-31
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO and Bluetooth (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	GPRS 850	0.321	0.056	0.172	0.092	0.549	0.469
	GPRS 1900	0.394	0.056	0.172	0.092	0.622	0.542
	UMTS 850	0.334	0.056	0.172	0.092	0.562	0.482
	UMTS 1750	0.479	0.056	0.172	0.092	0.707	0.627
	UMTS 1900	0.386	0.056	0.172	0.092	0.614	0.534
	LTE Band 12	0.317	0.056	0.172	0.092	0.545	0.465
	LTE Band 13	0.317	0.056	0.172	0.092	0.545	0.465
	LTE Band 26 (Cell)	0.400	0.056	0.172	0.092	0.628	0.548
	LTE Band 66 (AWS)	0.469	0.056	0.172	0.092	0.697	0.617
	LTE Band 25 (PCS)	0.324	0.056	0.172	0.092	0.552	0.472
	LTE Band 41	0.303	0.056	0.172	0.092	0.531	0.451
	NR Band n5 (Cell)	0.373	0.056	0.172	0.092	0.601	0.521
	NR Band n66 (AWS)	0.579	0.056	0.172	0.092	0.807	0.727

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.469	0.373	0.056	0.172	1.070
	LTE Band 25 (PCS)	0.324	0.373	0.056	0.172	0.925
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 12	0.317	0.579	0.056	0.172	1.124
	LTE Band 26 (Cell)	0.400	0.579	0.056	0.172	1.207
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 66 (AWS)	0.469	0.373	0.056	0.092	0.990
	LTE Band 25 (PCS)	0.324	0.373	0.056	0.092	0.845
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 12	0.317	0.579	0.056	0.092	1.044
	LTE Band 26 (Cell)	0.400	0.579	0.056	0.092	1.127

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Table 12-32
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2, 5 GHz WLAN MIMO and Bluetooth Ant 1
(Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3+4	
Hotspot SAR	GPRS 850	0.321	0.204	0.056	0.172	0.753	
	GPRS 1900	0.394	0.204	0.056	0.172	0.826	
	UMTS 850	0.334	0.204	0.056	0.172	0.766	
	UMTS 1750	0.479	0.204	0.056	0.172	0.911	
	UMTS 1900	0.386	0.204	0.056	0.172	0.818	
	LTE Band 12	0.317	0.204	0.056	0.172	0.749	
	LTE Band 13	0.317	0.204	0.056	0.172	0.749	
	LTE Band 26 (Cell)	0.400	0.204	0.056	0.172	0.832	
	LTE Band 66 (AWS)	0.469	0.204	0.056	0.172	0.901	
	LTE Band 25 (PCS)	0.324	0.204	0.056	0.172	0.756	
	LTE Band 41	0.303	0.204	0.056	0.172	0.735	
	NR Band n5 (Cell)	0.373	0.204	0.056	0.172	0.805	
	NR Band n66 (AWS)	0.579	0.204	0.056	0.172	1.011	
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth 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)	0.469	0.373	0.204	0.056	0.172	1.274
	LTE Band 25 (PCS)	0.324	0.373	0.204	0.056	0.172	1.129
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Hotspot SAR	LTE Band 12	0.317	0.579	0.204	0.056	0.172	1.328
	LTE Band 26 (Cell)	0.400	0.579	0.204	0.056	0.172	1.411

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12.6 Phablet Simultaneous Transmission Analysis

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.

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.

Table 12-33
Simultaneous Transmission Scenario with 5 GHz WLAN Ant 1 (Phablet)

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
Phablet SAR	GPRS 1900	1.724	0.365	2.089
	UMTS 1750	1.126	0.365	1.491
	UMTS 1900	2.280	0.365	2.645
	LTE Band 66 (AWS)	0.997	0.365	1.362
	LTE Band 25 (PCS)	2.072	0.365	2.437
	LTE Band 41	1.473	0.365	1.838
	NR Band n66 (AWS)	2.146	0.365	2.511

Table 12-34
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Phablet)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Phablet SAR	GPRS 1900	1.724	0.836	2.560
	UMTS 1750	1.126	0.836	1.962
	UMTS 1900	2.280	0.836	3.116
	LTE Band 66 (AWS)	0.997	0.836	1.833
	LTE Band 25 (PCS)	2.072	0.836	2.908
	LTE Band 41	1.473	0.836	2.309
	NR Band n66 (AWS)	2.146	0.836	2.982

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Table 12-35
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO (Phablet)

Configuration	Mode	2G/3G/4G /5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Phablet SAR	GPRS 1900	1.724	0.150	1.874
	UMTS 1750	1.126	0.150	1.276
	UMTS 1900	2.280	0.150	2.430
	LTE Band 66 (AWS)	0.997	0.150	1.147
	LTE Band 25 (PCS)	2.072	0.150	2.222
	LTE Band 41	1.473	0.150	1.623
	NR Band n66 (AWS)	2.146	0.150	2.296

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12.7 UMPC Body Simultaneous Transmission Analysis

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.

Table 12-36
Simultaneous Transmission Scenario with 2.4 GHz WLAN (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
UMPC Body SAR	GPRS 850	0.578	0.599	1.177	UMPC Body SAR	GPRS 850	0.578	0.174	0.752
	GPRS 1900	0.597	0.599	1.196		GPRS 1900	0.597	0.174	0.771
	UMTS 850	0.654	0.599	1.253		UMTS 850	0.654	0.174	0.828
	UMTS 1750	1.185	0.599	See Table Below		UMTS 1750	1.185	0.174	1.359
	UMTS 1900	1.230	0.599	See Table Below		UMTS 1900	1.230	0.174	1.404
	LTE Band 12	0.382	0.599	0.981		LTE Band 12	0.382	0.174	0.556
	LTE Band 13	0.538	0.599	1.137		LTE Band 13	0.538	0.174	0.712
	LTE Band 26 (Cell)	0.554	0.599	1.153		LTE Band 26 (Cell)	0.554	0.174	0.728
	LTE Band 66 (AWS)	0.987	0.599	1.586		LTE Band 66 (AWS)	0.987	0.174	1.161
	LTE Band 25 (PCS)	1.037	0.599	See Table Below		LTE Band 25 (PCS)	1.037	0.174	1.211
	LTE Band 41	0.279	0.599	0.878		LTE Band 41	0.279	0.174	0.453
	NR Band n5 (Cell)	0.586	0.599	1.185		NR Band n5 (Cell)	0.586	0.174	0.760
	NR Band n66 (AWS)	0.918	0.599	1.517		NR Band n66 (AWS)	0.918	0.174	1.092

Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Body SAR	Back	0.686	0.446	1.132
	Front	1.185	0.386	1.571
	Top	-	0.599	0.599
	Bottom	0.733	0.282	1.015
	Right	0.358	-	0.358

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2
UMPC Body SAR	Back	1.230	0.446	See Note 1	0.01
	Front	1.077	0.386	1.463	N/A
	Top	-	0.599	0.599	N/A
	Bottom	1.146	0.282	1.428	N/A
	Right	0.308	-	0.308	N/A

Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Body SAR	Back	0.598	0.446	1.044
	Front	0.986	0.386	1.372
	Top	-	0.599	0.599
	Bottom	1.037	0.282	1.319
	Right	0.272	-	0.272

Notes:

1. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.9 for detailed SPLS ratio analysis.

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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
UMPC Body SAR	LTE Band 12	0.382	0.918	0.117	1.417
	LTE Band 26 (Cell)	0.554	0.918	0.117	1.589

Simult Tx	Configuration	LTE Band 66 (AWS) 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
UMPC Body SAR	Back	0.644	0.586	0.070	1.300
	Front	0.987	0.429	0.061	1.477
	Top	-	-	0.117	0.117
	Bottom	0.970	0.331	0.075	1.376
	Right	0.517	0.249	-	0.766
Simult Tx	Configuration	LTE Band 25 (PCS) 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
UMPC Body SAR	Back	0.598	0.586	0.070	1.254
	Front	0.986	0.429	0.061	1.476
	Top	-	-	0.117	0.117
	Bottom	1.037	0.331	0.075	1.443
	Right	0.272	0.249	-	0.521

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Table 12-37
Simultaneous Transmission Scenario with 5 GHz WLAN Ant 1 (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Body SAR	GPRS 850	0.578	0.116	0.694
	GPRS 1900	0.597	0.116	0.713
	UMTS 850	0.654	0.116	0.770
	UMTS 1750	1.185	0.116	1.301
	UMTS 1900	1.230	0.116	1.346
	LTE Band 12	0.382	0.116	0.498
	LTE Band 13	0.538	0.116	0.654
	LTE Band 26 (Cell)	0.554	0.116	0.670
	LTE Band 66 (AWS)	0.987	0.116	1.103
	LTE Band 25 (PCS)	1.037	0.116	1.153
	LTE Band 41	0.279	0.116	0.395
	NR Band n5 (Cell)	0.586	0.116	0.702
	NR Band n66 (AWS)	0.918	0.116	1.034

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
UMPC Body SAR	LTE Band 12	0.382	0.918	0.080	1.380
	LTE Band 26 (Cell)	0.554	0.918	0.080	1.552

Simult Tx	Configuration	LTE Band 66 (AWS) 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
UMPC Body SAR	Back	0.644	0.586	0.020	1.250
	Front	0.987	0.429	0.014	1.430
	Top	-	-	0.035	0.035
	Bottom	0.970	0.331	-	1.301
	Right	0.517	0.249	-	0.766
Simult Tx	Configuration	LTE Band 25 (PCS) 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
UMPC Body SAR	Back	0.598	0.586	0.020	1.204
	Front	0.986	0.429	0.014	1.429
	Top	-	-	0.035	0.035
	Bottom	1.037	0.331	-	1.368
	Right	0.272	0.249	-	0.521

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Table 12-38
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Body SAR	GPRS 850	0.578	0.245	0.823
	GPRS 1900	0.597	0.245	0.842
	UMTS 850	0.654	0.245	0.899
	UMTS 1750	1.185	0.245	1.430
	UMTS 1900	1.230	0.245	1.475
	LTE Band 12	0.382	0.245	0.627
	LTE Band 13	0.538	0.245	0.783
	LTE Band 26 (Cell)	0.554	0.245	0.799
	LTE Band 66 (AWS)	0.987	0.245	1.232
	LTE Band 25 (PCS)	1.037	0.245	1.282
	LTE Band 41	0.279	0.245	0.524
	NR Band n5 (Cell)	0.586	0.245	0.831
	NR Band n66 (AWS)	0.918	0.245	1.163

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
UMPC Body SAR	LTE Band 12	0.382	0.918	0.045	1.345
	LTE Band 26 (Cell)	0.554	0.918	0.045	1.517

Simult Tx	Configuration	LTE Band 66 (AWS) 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
UMPC Body SAR	Back	0.644	0.586	0.026	1.256
	Front	0.987	0.429	0.022	1.438
	Top	-	-	0.045	0.045
	Bottom	0.970	0.331	0.010	1.311
	Right	0.517	0.249	-	0.766
Simult Tx	Configuration	LTE Band 25 (PCS) 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
UMPC Body SAR	Back	0.598	0.586	0.026	1.210
	Front	0.986	0.429	0.022	1.437
	Top	-	-	0.045	0.045
	Bottom	1.037	0.331	0.010	1.378
	Right	0.272	0.249	-	0.521

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Table 12-39
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Body SAR	GPRS 850	0.578	0.023	0.601
	GPRS 1900	0.597	0.023	0.620
	UMTS 850	0.654	0.023	0.677
	UMTS 1750	1.185	0.023	1.208
	UMTS 1900	1.230	0.023	1.253
	LTE Band 12	0.382	0.023	0.405
	LTE Band 13	0.538	0.023	0.561
	LTE Band 26 (Cell)	0.554	0.023	0.577
	LTE Band 66 (AWS)	0.987	0.023	1.010
	LTE Band 25 (PCS)	1.037	0.023	1.060
	LTE Band 41	0.279	0.023	0.302
	NR Band n5 (Cell)	0.586	0.023	0.609
	NR Band n66 (AWS)	0.918	0.023	0.941

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	LTE Band 12	0.382	0.918	0.023	1.323
	LTE Band 26 (Cell)	0.554	0.918	0.023	1.495

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	Back	0.644	0.586	0.015	1.245
	Front	0.987	0.429	0.023	1.439
	Top	-	-	0.014	0.014
	Bottom	0.970	0.331	0.022	1.323
	Right	0.517	0.249	-	0.766
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	Back	0.598	0.586	0.015	1.199
	Front	0.986	0.429	0.023	1.438
	Top	-	-	0.014	0.014
	Bottom	1.037	0.331	0.022	1.390
	Right	0.272	0.249	-	0.521

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Table 12-40
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO
(UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
UMPC Body SAR	GPRS 850	0.578	0.117	0.045	0.740
	GPRS 1900	0.597	0.117	0.045	0.759
	UMTS 850	0.654	0.117	0.045	0.816
	UMTS 1750	1.185	0.117	0.045	1.347
	UMTS 1900	1.230	0.117	0.045	1.392
	LTE Band 12	0.382	0.117	0.045	0.544
	LTE Band 13	0.538	0.117	0.045	0.700
	LTE Band 26 (Cell)	0.554	0.117	0.045	0.716
	LTE Band 66 (AWS)	0.987	0.117	0.045	1.149
	LTE Band 25 (PCS)	1.037	0.117	0.045	1.199
	LTE Band 41	0.279	0.117	0.045	0.441
	NR Band n5 (Cell)	0.586	0.117	0.045	0.748
	NR Band n66 (AWS)	0.918	0.117	0.045	1.080

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 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
UMPC Body SAR	Back	0.644	0.586	0.070	0.026	1.326
	Front	0.987	0.429	0.061	0.022	1.499
	Top	-	-	0.117	0.045	0.162
	Bottom	0.970	0.331	0.075	0.010	1.386
	Right	0.517	0.249	-	-	0.766
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 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
UMPC Body SAR	Back	0.598	0.586	0.070	0.026	1.280
	Front	0.986	0.429	0.061	0.022	1.498
	Top	-	-	0.117	0.045	0.162
	Bottom	1.037	0.331	0.075	0.010	1.453
	Right	0.272	0.249	-	-	0.521

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)	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 12	0.382	0.918	0.117	0.045	1.462
	LTE Band 26 (Cell)	0.554	0.918	0.117	0.045	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 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
UMPC Body SAR	Back	0.554	0.705	0.070	0.026	1.355
	Front	0.506	0.918	0.061	0.022	1.507
	Top	-	-	0.117	0.045	0.162
	Bottom	0.324	0.695	0.075	0.010	1.104
	Right	0.270	0.454	-	-	0.724

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Table 12-41
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 6 GHz WLAN MIMO
(UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
UMPC Body SAR	GPRS 850	0.578	0.117	0.023	0.718
	GPRS 1900	0.597	0.117	0.023	0.737
	UMTS 850	0.654	0.117	0.023	0.794
	UMTS 1750	1.185	0.117	0.023	1.325
	UMTS 1900	1.230	0.117	0.023	1.370
	LTE Band 12	0.382	0.117	0.023	0.522
	LTE Band 13	0.538	0.117	0.023	0.678
	LTE Band 26 (Cell)	0.554	0.117	0.023	0.694
	LTE Band 66 (AWS)	0.987	0.117	0.023	1.127
	LTE Band 25 (PCS)	1.037	0.117	0.023	1.177
	LTE Band 41	0.279	0.117	0.023	0.419
	NR Band n5 (Cell)	0.586	0.117	0.023	0.726
	NR Band n66 (AWS)	0.918	0.117	0.023	1.058

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.644	0.586	0.070	0.015	1.315
	Front	0.987	0.429	0.061	0.023	1.500
	Top	-	-	0.117	0.014	0.131
	Bottom	0.970	0.331	0.075	0.022	1.398
	Right	0.517	0.249	-	-	0.766
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.598	0.586	0.070	0.015	1.269
	Front	0.986	0.429	0.061	0.023	1.499
	Top	-	-	0.117	0.014	0.131
	Bottom	1.037	0.331	0.075	0.022	1.465
	Right	0.272	0.249	-	-	0.521

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)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 12	0.382	0.918	0.117	0.023	1.440
	LTE Band 26 (Cell)	0.554	0.918	0.117	0.023	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.554	0.705	0.070	0.015	1.344
	Front	0.506	0.918	0.061	0.023	1.508
	Top	-	-	0.117	0.014	0.131
	Bottom	0.324	0.695	0.075	0.022	1.116
	Right	0.270	0.454	-	-	0.724

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Table 12-42
Simultaneous Transmission Scenario with Bluetooth (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
UMPC Body SAR	GPRS 850	0.578	0.212	0.172	0.790	0.750
	GPRS 1900	0.597	0.212	0.172	0.809	0.769
	UMTS 850	0.654	0.212	0.172	0.866	0.826
	UMTS 1750	1.185	0.212	0.172	1.397	1.357
	UMTS 1900	1.230	0.212	0.172	1.442	1.402
	LTE Band 12	0.382	0.212	0.172	0.594	0.554
	LTE Band 13	0.538	0.212	0.172	0.750	0.710
	LTE Band 26 (Cell)	0.554	0.212	0.172	0.766	0.726
	LTE Band 5 (Cell)	0.012	0.212	0.172	0.224	0.184
	LTE Band 66 (AWS)	0.987	0.212	0.172	1.199	1.159
	LTE Band 25 (PCS)	1.037	0.212	0.172	1.249	1.209
	LTE Band 41	0.279	0.212	0.172	0.491	0.451
	NR Band n5 (Cell)	0.586	0.212	0.172	0.798	0.758
	NR Band n66 (AWS)	0.918	0.212	0.172	1.130	1.090

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Body SAR	Back	0.644	0.586	0.083	1.313	UMPC Body SAR	Back	0.644	0.586	0.069	1.299
	Front	0.987	0.429	0.103	1.519		Front	0.987	0.429	0.079	1.495
	Top	-	-	0.179	0.179		Bottom	0.970	0.331	0.149	1.450
	Bottom	0.970	0.331	-	1.301		Right	0.517	0.249	-	0.766
	Right	0.517	0.249	-	0.766						
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Body SAR	Back	0.598	0.586	0.083	1.267	UMPC Body SAR	Back	0.598	0.586	0.069	1.253
	Front	0.986	0.429	0.103	1.518		Front	0.986	0.429	0.079	1.494
	Top	-	-	0.179	0.179		Bottom	1.037	0.331	0.149	1.517
	Bottom	1.037	0.331	-	1.368		Right	0.272	0.249	-	0.521
	Right	0.272	0.249	-	0.521						

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 12	0.382	0.918	0.179	1.479
	LTE Band 26 (Cell)	0.554	0.918	0.179	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	Back	0.554	0.705	0.083	1.342
	Front	0.506	0.918	0.103	1.527
	Top	-	-	0.179	0.179
	Bottom	0.324	0.695	-	1.019
	Right	0.270	0.454	-	0.724

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Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	LTE Band 12	0.382	0.918	0.149	1.449
	LTE Band 26 (Cell)	0.554	0.918	0.149	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	Back	0.554	0.705	0.069	1.328
	Front	0.506	0.918	0.079	1.503
	Bottom	0.324	0.695	0.149	1.168
	Right	0.270	0.454	-	0.724

Table 12-43
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2 and Bluetooth Ant 1 (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
UMPC Body SAR	GPRS 850	0.578	0.311	0.212	1.101
	GPRS 1900	0.597	0.311	0.212	1.120
	UMTS 850	0.654	0.311	0.212	1.177
	UMTS 1750	1.185	0.311	0.212	See Table Below
	UMTS 1900	1.230	0.311	0.212	See Table Below
	LTE Band 12	0.382	0.311	0.212	0.905
	LTE Band 13	0.538	0.311	0.212	1.061
	LTE Band 26 (Cell)	0.554	0.311	0.212	1.077
	LTE Band 66 (AWS)	0.987	0.311	0.212	1.510
	LTE Band 25 (PCS)	1.037	0.311	0.212	1.560
	LTE Band 41	0.279	0.311	0.212	0.802
	NR Band n5 (Cell)	0.586	0.311	0.212	1.109
	NR Band n66 (AWS)	0.918	0.311	0.212	1.441

Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	Back	0.686	0.172	0.154	1.012
	Front	1.185	0.174	0.139	1.498
	Top	-	-	0.212	0.212
	Bottom	0.733	0.311	-	1.044
	Right	0.358	-	-	0.358
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	Back	1.230	0.172	0.154	1.556
	Front	1.077	0.174	0.139	1.390
	Top	-	-	0.212	0.212
	Bottom	1.146	0.311	-	1.457
	Right	0.308	-	-	0.308

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.644	0.586	0.030	0.083	1.343
	Front	0.987	0.429	0.037	0.103	1.556
	Top	-	-	-	0.179	0.179
	Bottom	0.970	0.331	0.064	-	1.365
	Right	0.517	0.249	-	-	0.766
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.598	0.586	0.030	0.083	1.297
	Front	0.986	0.429	0.037	0.103	1.555
	Top	-	-	-	0.179	0.179
	Bottom	1.037	0.331	0.064	-	1.432
	Right	0.272	0.249	-	-	0.521

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 12	0.382	0.918	0.064	0.179	1.543
	LTE Band 26 (Cell)	0.554	0.918	0.064	0.179	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.554	0.705	0.030	0.083	1.372
	Front	0.506	0.918	0.037	0.103	1.564
	Top	-	-	-	0.179	0.179
	Bottom	0.324	0.695	0.064	-	1.083
	Right	0.270	0.454	-	-	0.724

Table 12-44
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO and Bluetooth Ant 1 (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	GPRS 850	0.578	0.245	0.212	1.035
	GPRS 1900	0.597	0.245	0.212	1.054
	UMTS 850	0.654	0.245	0.212	1.111
	UMTS 1750	1.185	0.245	0.212	See Table Below
	UMTS 1900	1.230	0.245	0.212	See Table Below
	LTE Band 12	0.382	0.245	0.212	0.839
	LTE Band 13	0.538	0.245	0.212	0.995
	LTE Band 26 (Cell)	0.554	0.245	0.212	1.011
	LTE Band 66 (AWS)	0.987	0.245	0.212	1.444
	LTE Band 25 (PCS)	1.037	0.245	0.212	1.494
	LTE Band 41	0.279	0.245	0.212	0.736
	NR Band n5 (Cell)	0.586	0.245	0.212	1.043
	NR Band n66 (AWS)	0.918	0.245	0.212	1.375

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Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	Back	0.686	0.166	0.154	1.006
	Front	1.185	0.135	0.139	1.459
	Top	-	0.114	0.212	0.326
	Bottom	0.733	0.245	-	0.978
	Right	0.358	-	-	0.358
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	Back	1.230	0.166	0.154	1.550
	Front	1.077	0.135	0.139	1.351
	Top	-	0.114	0.212	0.326
	Bottom	1.146	0.245	-	1.391
	Right	0.308	-	-	0.308

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.644	0.586	0.026	0.083	1.339
	Front	0.987	0.429	0.022	0.103	1.541
	Top	-	-	0.045	0.179	0.224
	Bottom	0.970	0.331	0.010	-	1.311
	Right	0.517	0.249	-	-	0.766
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.598	0.586	0.026	0.083	1.293
	Front	0.986	0.429	0.022	0.103	1.540
	Top	-	-	0.045	0.179	0.224
	Bottom	1.037	0.331	0.010	-	1.378
	Right	0.272	0.249	-	-	0.521

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)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 12	0.382	0.918	0.045	0.179	1.524
	LTE Band 26 (Cell)	0.554	0.918	0.045	0.179	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.554	0.705	0.026	0.083	1.368
	Front	0.506	0.918	0.022	0.103	1.549
	Top	-	-	0.045	0.179	0.224
	Bottom	0.324	0.695	0.010	-	1.029
	Right	0.270	0.454	-	-	0.724

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Table 12-45
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO and Bluetooth Ant 2 (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	GPRS 850	0.578	0.245	0.172	0.995
	GPRS 1900	0.597	0.245	0.172	1.014
	UMTS 850	0.654	0.245	0.172	1.071
	UMTS 1750	1.185	0.245	0.172	See Table Below
	UMTS 1900	1.230	0.245	0.172	See Table Below
	LTE Band 12	0.382	0.245	0.172	0.799
	LTE Band 13	0.538	0.245	0.172	0.955
	LTE Band 26 (Cell)	0.554	0.245	0.172	0.971
	LTE Band 66 (AWS)	0.987	0.245	0.172	1.404
	LTE Band 25 (PCS)	1.037	0.245	0.172	1.454
	LTE Band 41	0.279	0.245	0.172	0.696
	NR Band n5 (Cell)	0.586	0.245	0.172	1.003
	NR Band n66 (AWS)	0.918	0.245	0.172	1.335

Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
UMPC Body SAR	Back	0.686	0.166	0.082	0.934	UMPC Body SAR	Back	1.230	0.166	0.082	1.478
	Front	1.185	0.135	0.086	1.406		Front	1.077	0.135	0.086	1.298
	Top	-	0.114	-	0.114		Top	-	0.114	-	0.114
	Bottom	0.733	0.245	0.172	1.150		Bottom	1.146	0.245	0.172	1.563
	Right	0.358	-	-	0.358		Right	0.308	-	-	0.308

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
UMPC Body SAR	Back	0.644	0.586	0.026	0.069	1.325	UMPC Body SAR	Back	0.598	0.586	0.026	0.069	1.279
	Front	0.987	0.429	0.022	0.079	1.517		Front	0.986	0.429	0.022	0.079	1.516
	Top	-	-	0.045	-	0.045		Top	-	-	0.045	-	0.045
	Bottom	0.970	0.331	0.010	0.149	1.460		Bottom	1.037	0.331	0.010	0.149	1.527
	Right	0.517	0.249	-	-	0.766		Right	0.272	0.249	-	-	0.521

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)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 12	0.382	0.918	0.045	0.149	1.494
	LTE Band 26 (Cell)	0.554	0.918	0.045	0.149	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
UMPC Body SAR	Back	0.554	0.705	0.026	0.069	1.354
	Front	0.506	0.918	0.022	0.079	1.525
	Top	-	-	0.045	-	0.045
	Bottom	0.324	0.695	0.010	0.149	1.178
	Right	0.270	0.454	-	-	0.724

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Table 12-46
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO and Bluetooth Ant 1 (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	GPRS 850	0.578	0.023	0.212	0.813
	GPRS 1900	0.597	0.023	0.212	0.832
	UMTS 850	0.654	0.023	0.212	0.889
	UMTS 1750	1.185	0.023	0.212	1.420
	UMTS 1900	1.230	0.023	0.212	1.465
	LTE Band 12	0.382	0.023	0.212	0.617
	LTE Band 13	0.538	0.023	0.212	0.773
	LTE Band 26 (Cell)	0.554	0.023	0.212	0.789
	LTE Band 66 (AWS)	0.987	0.023	0.212	1.222
	LTE Band 25 (PCS)	1.037	0.023	0.212	1.272
	LTE Band 41	0.279	0.023	0.212	0.514
	NR Band n5 (Cell)	0.586	0.023	0.212	0.821
	NR Band n66 (AWS)	0.918	0.023	0.212	1.153

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.644	0.586	0.015	0.083	1.328
	Front	0.987	0.429	0.023	0.103	1.542
	Top	-	-	0.014	0.179	0.193
	Bottom	0.970	0.331	0.022	-	1.323
	Right	0.517	0.249	-	-	0.766
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.598	0.586	0.015	0.083	1.282
	Front	0.986	0.429	0.023	0.103	1.541
	Top	-	-	0.014	0.179	0.193
	Bottom	1.037	0.331	0.022	-	1.390
	Right	0.272	0.249	-	-	0.521

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 12	0.382	0.918	0.023	0.179	1.502
	LTE Band 26 (Cell)	0.554	0.918	0.023	0.179	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.554	0.705	0.015	0.083	1.357
	Front	0.506	0.918	0.023	0.103	1.550
	Top	-	-	0.014	0.179	0.193
	Bottom	0.324	0.695	0.022	-	1.041
	Right	0.270	0.454	-	-	0.724

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Table 12-47
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO and Bluetooth Ant 2 (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	GPRS 850	0.578	0.023	0.172	0.773
	GPRS 1900	0.597	0.023	0.172	0.792
	UMTS 850	0.654	0.023	0.172	0.849
	UMTS 1750	1.185	0.023	0.172	1.380
	UMTS 1900	1.230	0.023	0.172	1.425
	LTE Band 12	0.382	0.023	0.172	0.577
	LTE Band 13	0.538	0.023	0.172	0.733
	LTE Band 26 (Cell)	0.554	0.023	0.172	0.749
	LTE Band 66 (AWS)	0.987	0.023	0.172	1.182
	LTE Band 25 (PCS)	1.037	0.023	0.172	1.232
	LTE Band 41	0.279	0.023	0.172	0.474
	NR Band n5 (Cell)	0.586	0.023	0.172	0.781
	NR Band n66 (AWS)	0.918	0.023	0.172	1.113

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.644	0.586	0.015	0.069	1.314
	Front	0.987	0.429	0.023	0.079	1.518
	Top	-	-	0.014	-	0.014
	Bottom	0.970	0.331	0.022	0.149	1.472
	Right	0.517	0.249	-	-	0.766
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.598	0.586	0.015	0.069	1.268
	Front	0.986	0.429	0.023	0.079	1.517
	Top	-	-	0.014	-	0.014
	Bottom	1.037	0.331	0.022	0.149	1.539
	Right	0.272	0.249	-	-	0.521

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	LTE Band 12	0.382	0.918	0.023	0.149	1.472
	LTE Band 26 (Cell)	0.554	0.918	0.023	0.149	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.554	0.705	0.015	0.069	1.343
	Front	0.506	0.918	0.023	0.079	1.526
	Top	-	-	0.014	-	0.014
	Bottom	0.324	0.695	0.022	0.149	1.190
	Right	0.270	0.454	-	-	0.724

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Table 12-48

Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2, 5 GHz WLAN MIMO and Bluetooth Ant 1 (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	GPRS 850	0.578	0.064	0.045	0.212	0.899
	GPRS 1900	0.597	0.064	0.045	0.212	0.918
	UMTS 850	0.654	0.064	0.045	0.212	0.975
	UMTS 1750	1.185	0.064	0.045	0.212	1.506
	UMTS 1900	1.230	0.064	0.045	0.212	1.551
	LTE Band 12	0.382	0.064	0.045	0.212	0.703
	LTE Band 13	0.538	0.064	0.045	0.212	0.859
	LTE Band 26 (Cell)	0.554	0.064	0.045	0.212	0.875
	LTE Band 66 (AWS)	0.987	0.064	0.045	0.212	1.308
	LTE Band 25 (PCS)	1.037	0.064	0.045	0.212	1.358
	LTE Band 41	0.279	0.064	0.045	0.212	0.600
	NR Band n5 (Cell)	0.586	0.064	0.045	0.212	0.907
	NR Band n66 (AWS)	0.918	0.064	0.045	0.212	1.239

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Body SAR	Back	0.644	0.586	0.030	0.026	0.083	1.369
	Front	0.987	0.429	0.037	0.022	0.103	1.578
	Top	-	-	-	0.045	0.179	0.224
	Bottom	0.970	0.331	0.064	0.010	-	1.375
	Right	0.517	0.331	-	-	-	0.848
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Body SAR	Back	0.598	0.586	0.030	0.026	0.083	1.323
	Front	0.986	0.429	0.037	0.022	0.103	1.577
	Top	-	-	-	0.045	0.179	0.224
	Bottom	1.037	0.331	0.064	0.010	-	1.442
	Right	0.272	0.331	-	-	-	0.603

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Hotspot SAR	LTE Band 12	0.382	0.918	0.064	0.045	0.179	1.588
	LTE Band 26 (Cell)	0.554	0.918	0.064	0.045	0.179	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Extremity SAR	Back	0.554	0.705	0.030	0.026	0.083	1.398
	Front	0.506	0.918	0.037	0.022	0.103	1.586
	Top	-	-	-	0.045	0.179	0.224
	Bottom	0.324	0.695	0.064	0.010	-	1.093
	Right	0.270	0.695	-	-	-	0.965

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Table 12-49
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2, 6 GHz WLAN MIMO and Bluetooth Ant 1 (UMPC Body)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	GPRS 850	0.578	0.064	0.023	0.212	0.877
	GPRS 1900	0.597	0.064	0.023	0.212	0.896
	UMTS 850	0.654	0.064	0.023	0.212	0.953
	UMTS 1750	1.185	0.064	0.023	0.212	1.484
	UMTS 1900	1.230	0.064	0.023	0.212	1.529
	LTE Band 12	0.382	0.064	0.023	0.212	0.681
	LTE Band 13	0.538	0.064	0.023	0.212	0.837
	LTE Band 26 (Cell)	0.554	0.064	0.023	0.212	0.853
	LTE Band 66 (AWS)	0.987	0.064	0.023	0.212	1.286
	LTE Band 25 (PCS)	1.037	0.064	0.023	0.212	1.336
	LTE Band 41	0.279	0.064	0.023	0.212	0.578
	NR Band n5 (Cell)	0.586	0.064	0.023	0.212	0.885
	NR Band n66 (AWS)	0.918	0.064	0.023	0.212	1.217

Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Body SAR	LTE Band 12	0.382	0.918	0.064	0.023	0.179	1.566
	LTE Band 26 (Cell)	0.554	0.000	0.064	0.023	0.179	0.820

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Body SAR	Back	0.644	0.586	0.030	0.015	0.083	1.358
	Front	0.987	0.429	0.037	0.023	0.103	1.579
	Top	-	-	-	0.014	0.179	0.193
	Bottom	0.970	0.331	0.064	0.022	-	1.387
	Right	0.517	0.331	-	-	-	0.848
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 14.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Body SAR	Back	0.598	0.586	0.030	0.015	0.083	1.312
	Front	0.986	0.429	0.037	0.023	0.103	1.578
	Top	-	-	-	0.014	0.179	0.193
	Bottom	1.037	0.331	0.064	0.022	-	1.454
	Right	0.272	0.331	-	-	-	0.603

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12.8 UMPC Extremity Simultaneous Transmission Analysis

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.

Table 12-50
Simultaneous Transmission Scenario with 2.4 GHz WLAN (UMPC Extremity)

	Configuration	Mode			2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
					1	2	1+2		
UMPC Extremity SAR		GPRS 850			1.158	2.372	3.530		
		GPRS 1900			2.464	2.372	See Table Below		
		UMTS 850			1.407	2.372	3.779		
		UMTS 1750			2.157	2.372	See Table Below		
		UMTS 1900			2.462	2.372	See Table Below		
		LTE Band 12			1.038	2.372	3.410		
		LTE Band 13			1.255	2.372	3.627		
		LTE Band 26 (Cell)			1.236	2.372	3.608		
		LTE Band 66 (AWS)			2.110	2.372	See Table Below		
		LTE Band 25 (PCS)			2.165	2.372	See Table Below		
		LTE Band 41			1.368	2.372	3.740		
		NR Band n5 (Cell)			1.301	2.372	3.673		
NR Band n66 (AWS)			2.160	2.372	See Table Below				
Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
UMPC Extremity SAR	Back	0.822	1.759	2.581	UMPC Extremity SAR	Back	1.000	1.759	2.759
	Front	1.042	1.580	2.622		Front	0.921	1.580	2.501
	Top	-	2.372	2.372		Top	-	2.372	2.372
	Bottom	2.464	0.826	3.290		Bottom	2.110	0.826	2.936
	Right	0.434	-	0.434		Right	1.335	-	1.335
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
UMPC Extremity SAR	Back	0.917	1.759	2.676	UMPC Extremity SAR	Back	0.649	1.759	2.408
	Front	0.985	1.580	2.565		Front	0.779	1.580	2.359
	Top	-	2.372	2.372		Top	-	2.372	2.372
	Bottom	2.157	0.826	2.983		Bottom	2.165	0.826	2.991
	Right	0.837	-	0.837		Right	1.284	-	1.284
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
UMPC Extremity SAR	Back	1.131	1.759	2.890	UMPC Extremity SAR	Back	0.891	1.759	2.650
	Front	1.041	1.580	2.621		Front	1.144	1.580	2.724
	Top	-	2.372	2.372		Top	-	2.372	2.372
	Bottom	2.462	0.826	3.288		Bottom	2.160	0.826	2.986
	Right	0.891	-	0.891		Right	1.112	-	1.112

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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
UMPC Extremity SAR	LTE Band 66 (AWS)	2.110	1.301	0.464	3.875
	LTE Band 25 (PCS)	2.165	1.301	0.464	3.930
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
UMPC Extremity SAR	LTE Band 12	1.038	2.160	0.464	3.662
	LTE Band 26 (Cell)	1.236	2.160	0.464	3.860

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Table 12-51
Simultaneous Transmission Scenario with 5 GHz WLAN Ant 1 (UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Extremity SAR	GPRS 850	1.158	0.462	1.620
	GPRS 1900	2.464	0.462	2.926
	UMTS 850	1.407	0.462	1.869
	UMTS 1750	2.157	0.462	2.619
	UMTS 1900	2.462	0.462	2.924
	LTE Band 12	1.038	0.462	1.500
	LTE Band 13	1.255	0.462	1.717
	LTE Band 26 (Cell)	1.236	0.462	1.698
	LTE Band 66 (AWS)	2.110	0.462	2.572
	LTE Band 25 (PCS)	2.165	0.462	2.627
	LTE Band 41	1.368	0.462	1.830
	NR Band n5 (Cell)	1.301	0.462	1.763
	NR Band n66 (AWS)	2.160	0.462	2.622

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
UMPC Extremity SAR	LTE Band 66 (AWS)	2.110	1.301	0.462	3.873
	LTE Band 25 (PCS)	2.165	1.301	0.462	3.928
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
UMPC Extremity SAR	LTE Band 12	1.038	2.160	0.462	3.660
	LTE Band 26 (Cell)	1.236	2.160	0.462	3.858

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Table 12-52
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2	
UMPC Extremity SAR	GPRS 850	1.158	0.788	1.946	
	GPRS 1900	2.464	0.788	3.252	
	UMTS 850	1.407	0.788	2.195	
	UMTS 1750	2.157	0.788	2.945	
	UMTS 1900	2.462	0.788	3.250	
	LTE Band 12	1.038	0.788	1.826	
	LTE Band 13	1.255	0.788	2.043	
	LTE Band 26 (Cell)	1.236	0.788	2.024	
	LTE Band 66 (AWS)	2.110	0.788	2.898	
	LTE Band 25 (PCS)	2.165	0.788	2.953	
	LTE Band 41	1.368	0.788	2.156	
	NR Band n5 (Cell)	1.301	0.788	2.089	
	NR Band n66 (AWS)	2.160	0.788	2.948	
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
UMPC Extremity SAR	LTE Band 66 (AWS)	2.110	1.301	0.254	3.665
	LTE Band 25 (PCS)	2.165	1.301	0.254	3.720
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
UMPC Extremity SAR	LTE Band 12	1.038	2.160	0.254	3.452
	LTE Band 26 (Cell)	1.236	2.160	0.254	3.650

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Table 12-53
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO (UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2	
UMPC Extremity SAR	GPRS 850	1.158	0.182	1.340	
	GPRS 1900	2.464	0.182	2.646	
	UMTS 850	1.407	0.182	1.589	
	UMTS 1750	2.157	0.182	2.339	
	UMTS 1900	2.462	0.182	2.644	
	LTE Band 12	1.038	0.182	1.220	
	LTE Band 13	1.255	0.182	1.437	
	LTE Band 26 (Cell)	1.236	0.182	1.418	
	LTE Band 66 (AWS)	2.110	0.182	2.292	
	LTE Band 25 (PCS)	2.165	0.182	2.347	
	LTE Band 41	1.368	0.182	1.550	
	NR Band n5 (Cell)	1.301	0.182	1.483	
	NR Band n66 (AWS)	2.160	0.182	2.342	
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	LTE Band 66 (AWS)	2.110	1.301	0.182	3.593
	LTE Band 25 (PCS)	2.165	1.301	0.182	3.648
Configuration	LTE Anchor Band	4G SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	LTE Band 12	1.038	2.160	0.182	3.380
	LTE Band 26 (Cell)	1.236	2.160	0.182	3.578

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Table 12-54
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO
(UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	GPRS 850	1.158	0.464	0.254	1.876
	GPRS 1900	2.464	0.464	0.254	3.182
	UMTS 850	1.407	0.464	0.254	2.125
	UMTS 1750	2.157	0.464	0.254	2.875
	UMTS 1900	2.462	0.464	0.254	3.180
	LTE Band 12	1.038	0.464	0.254	1.756
	LTE Band 13	1.255	0.464	0.254	1.973
	LTE Band 26 (Cell)	1.236	0.464	0.254	1.954
	LTE Band 66 (AWS)	2.110	0.464	0.254	2.828
	LTE Band 25 (PCS)	2.165	0.464	0.254	2.883
	LTE Band 41	1.368	0.464	0.254	2.086
	NR Band n5 (Cell)	1.301	0.464	0.254	2.019
	NR Band n66 (AWS)	2.160	0.464	0.254	2.878

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 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
UMPC Extremity SAR	Back	1.000	1.301	0.295	0.159	2.755
	Front	0.921	0.978	0.295	0.126	2.320
	Top	-	-	0.464	0.254	0.718
	Bottom	2.110	0.741	0.265	0.114	3.230
	Right	1.335	1.074	-	-	2.409
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 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
UMPC Extremity SAR	Back	0.649	1.301	0.295	0.159	2.404
	Front	0.779	0.978	0.295	0.126	2.178
	Top	-	-	0.464	0.254	0.718
	Bottom	2.165	0.741	0.265	0.114	3.285
	Right	1.284	1.074	-	-	2.358
Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 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
UMPC Extremity SAR	Back	1.236	0.891	0.295	0.159	2.581
	Front	1.070	1.144	0.295	0.126	2.635
	Top	-	-	0.464	0.254	0.718
	Bottom	0.888	2.160	0.265	0.114	3.427
	Right	1.096	1.112	-	-	2.208
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 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
UMPC Extremity SAR	Back	0.939	0.891	0.295	0.159	2.284
	Front	0.706	1.144	0.295	0.126	2.271
	Top	-	-	0.464	0.254	0.718
	Bottom	0.892	2.160	0.265	0.114	3.431
	Right	1.038	1.112	-	-	2.150

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Table 12-55
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 6 GHz WLAN MIMO
(UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	GPRS 850	1.158	0.464	0.182	1.804
	GPRS 1900	2.464	0.464	0.182	3.110
	UMTS 850	1.407	0.464	0.182	2.053
	UMTS 1750	2.157	0.464	0.182	2.803
	UMTS 1900	2.462	0.464	0.182	3.108
	LTE Band 12	1.038	0.464	0.182	1.684
	LTE Band 13	1.255	0.464	0.182	1.901
	LTE Band 26 (Cell)	1.236	0.464	0.182	1.882
	LTE Band 66 (AWS)	2.110	0.464	0.182	2.756
	LTE Band 25 (PCS)	2.165	0.464	0.182	2.811
	LTE Band 41	1.368	0.464	0.182	2.014
	NR Band n5 (Cell)	1.301	0.464	0.182	1.947
	NR Band n66 (AWS)	2.160	0.464	0.182	2.806

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	1.000	1.301	0.295	0.134	2.730	UMPC Extremity SAR	Back	0.649	1.301	0.295	0.134	2.379
	Front	0.921	0.978	0.295	0.133	2.327		Front	0.779	0.978	0.295	0.133	2.185
	Top	-	-	0.464	0.131	0.595		Top	-	-	0.464	0.131	0.595
	Bottom	2.110	0.741	0.265	0.182	3.298		Bottom	2.165	0.741	0.265	0.182	3.353
	Right	1.335	1.074	-	-	2.409		Right	1.284	1.074	-	-	2.358

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)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Extremity SAR	LTE Band 12	1.038	2.160	0.464	0.182	3.844
	LTE Band 26 (Cell)	1.236	2.160	0.464	0.182	See Table Below

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	1.236	0.891	0.295	0.134	2.556
	Front	1.070	1.144	0.295	0.133	2.642
	Top	-	-	0.464	0.131	0.595
	Bottom	0.888	2.160	0.265	0.182	3.495
	Right	1.096	1.112	-	-	2.208

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Table 12-56
Simultaneous Transmission Scenario with Bluetooth (UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
UMPC Extremity SAR	GPRS 850	1.158	0.912	0.381	2.070	1.539
	GPRS 1900	2.464	0.912	0.381	3.376	2.845
	UMTS 850	1.407	0.912	0.381	2.319	1.788
	UMTS 1750	2.157	0.912	0.381	3.069	2.538
	UMTS 1900	2.462	0.912	0.381	3.374	2.843
	LTE Band 12	1.038	0.912	0.381	1.950	1.419
	LTE Band 13	1.255	0.912	0.381	2.167	1.636
	LTE Band 26 (Cell)	1.236	0.912	0.381	2.148	1.617
	LTE Band 66 (AWS)	2.110	0.912	0.381	3.022	2.491
	LTE Band 25 (PCS)	2.165	0.912	0.381	3.077	2.546
	LTE Band 41	1.368	0.912	0.381	2.280	1.749
	NR Band n5 (Cell)	1.301	0.912	0.381	2.213	1.682
	NR Band n66 (AWS)	2.160	0.912	0.381	3.072	2.541

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
UMPC Extremity SAR	LTE Band 66 (AWS)	2.110	1.301	0.381	3.792
	LTE Band 25 (PCS)	2.165	1.301	0.381	3.847
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
UMPC Extremity SAR	LTE Band 12	1.038	2.160	0.381	3.579
	LTE Band 26 (Cell)	1.236	2.160	0.381	3.777

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 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			1	2	3	1+2+3
UMPC Extremity SAR	Back	1.000	1.301	0.692	2.993	UMPC Extremity SAR	Back	0.939	0.891	0.692	2.522
	Front	0.921	0.978	0.606	2.505		Front	0.706	1.144	0.606	2.456
	Top	-	-	0.912	0.912		Top	-	-	0.912	0.912
	Bottom	2.110	0.741	-	2.851		Bottom	0.892	2.160	-	3.052
	Right	1.335	1.074	-	2.409		Right	1.038	1.112	-	2.150
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 26 (Cell) 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			1	2	3	1+2+3
UMPC Extremity SAR	Back	0.649	1.301	0.692	2.642	UMPC Extremity SAR	Back	1.236	0.891	0.692	2.819
	Front	0.779	0.978	0.606	2.363		Front	1.070	1.144	0.606	2.820
	Top	-	-	0.912	0.912		Top	-	-	0.912	0.912
	Bottom	2.165	0.741	-	2.906		Bottom	0.888	2.160	-	3.048
	Right	1.284	1.074	-	2.358		Right	1.096	1.112	-	2.208
	Left	-	-	-	-						

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Table 12-57
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2 and Bluetooth Ant 1
(UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	GPRS 850	1.158	0.935	0.912	3.005
	GPRS 1900	2.464	0.935	0.912	See Table Below
	UMTS 850	1.407	0.935	0.912	3.254
	UMTS 1750	2.157	0.935	0.912	See Table Below
	UMTS 1900	2.462	0.935	0.912	See Table Below
	LTE Band 12	1.038	0.935	0.912	2.885
	LTE Band 13	1.255	0.935	0.912	3.102
	LTE Band 26 (Cell)	1.236	0.935	0.912	3.083
	LTE Band 66 (AWS)	2.110	0.935	0.912	3.957
	LTE Band 25 (PCS)	2.165	0.935	0.912	See Table Below
	LTE Band 41	1.368	0.935	0.912	3.215
	NR Band n5 (Cell)	1.301	0.935	0.912	3.148
	NR Band n66 (AWS)	2.160	0.935	0.912	See Table Below

Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	Back	0.822	0.813	0.692	2.327
	Front	1.042	0.786	0.606	2.434
	Top	-	-	0.912	0.912
	Bottom	2.464	0.935	-	3.399
	Right	0.434	-	-	0.434

Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	Back	0.917	0.813	0.692	2.422
	Front	0.985	0.786	0.606	2.377
	Top	-	-	0.912	0.912
	Bottom	2.157	0.935	-	3.092
	Right	0.837	-	-	0.837

Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	Back	0.649	0.813	0.692	2.154
	Front	0.779	0.786	0.606	2.171
	Top	-	-	0.912	0.912
	Bottom	2.165	0.935	-	3.100
	Right	1.284	-	-	1.284

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	Back	1.131	0.813	0.692	2.636
	Front	1.041	0.786	0.606	2.433
	Top	-	-	0.912	0.912
	Bottom	2.462	0.935	-	3.397
	Right	0.891	-	-	0.891

Simult Tx	Configuration	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	Back	0.891	0.813	0.692	2.396
	Front	1.144	0.786	0.606	2.536
	Top	-	-	0.912	0.912
	Bottom	2.160	0.935	-	3.095
	Right	1.112	-	-	1.112

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	1.000	1.301	0.156	0.692	3.149
	Front	0.921	0.978	0.166	0.606	2.671
	Top	-	-	-	0.912	0.912
	Bottom	2.110	0.741	0.176	-	3.027
	Right	1.335	1.074	-	-	2.409
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	0.649	1.301	0.156	0.692	2.798
	Front	0.779	0.978	0.166	0.606	2.529
	Top	-	-	-	0.912	0.912
	Bottom	2.165	0.741	0.176	-	3.082
	Right	1.284	1.074	-	-	2.358
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	0.939	0.891	0.156	0.692	2.678
	Front	0.706	1.144	0.166	0.606	2.622
	Top	-	-	-	0.912	0.912
	Bottom	0.892	2.160	0.176	-	3.228
	Right	1.038	1.112	-	-	2.150
Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	1.236	0.891	0.156	0.692	2.975
	Front	1.070	1.144	0.166	0.606	2.986
	Top	-	-	-	0.912	0.912
	Bottom	0.888	2.160	0.176	-	3.224
	Right	1.096	1.112	-	-	2.208

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Table 12-58
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO and Bluetooth (UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
UMPC Extremity SAR	GPRS 850	1.158	0.788	0.912	0.381	2.858	2.327
	GPRS 1900	2.464	0.788	0.912	0.381	See Table Below	3.633
	UMTS 850	1.407	0.788	0.912	0.381	3.107	2.576
	UMTS 1750	2.157	0.788	0.912	0.381	3.857	3.326
	UMTS 1900	2.462	0.788	0.912	0.381	See Table Below	3.631
	LTE Band 12	1.038	0.788	0.912	0.381	2.738	2.207
	LTE Band 13	1.255	0.788	0.912	0.381	2.955	2.424
	LTE Band 26 (Cell)	1.236	0.788	0.912	0.381	2.936	2.405
	LTE Band 66 (AWS)	2.110	0.788	0.912	0.381	3.810	3.279
	LTE Band 25 (PCS)	2.165	0.788	0.912	0.381	3.865	3.334
	LTE Band 41	1.368	0.788	0.912	0.381	3.068	2.537
	NR Band n5 (Cell)	1.301	0.788	0.912	0.381	3.001	2.470
	NR Band n66 (AWS)	2.160	0.788	0.912	0.381	3.860	3.329

Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	Back	0.822	0.668	0.692	2.182
	Front	1.042	0.788	0.606	2.436
	Top	-	0.586	0.912	1.498
	Bottom	2.464	0.751	-	3.215
	Right	0.434	-	-	0.434
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	Back	1.131	0.668	0.692	2.491
	Front	1.041	0.788	0.606	2.435
	Top	-	0.586	0.912	1.498
	Bottom	2.462	0.751	-	3.213
	Right	0.891	-	-	0.891

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	1.000	1.301	0.159	0.692	3.152	UMPC Extremity SAR	Back	1.000	1.301	0.159	0.330	2.790
	Front	0.921	0.978	0.126	0.606	2.631		Front	0.921	0.978	0.126	0.325	2.350
	Top	-	-	0.254	0.912	1.166		Top	-	-	0.254	-	0.254
	Bottom	2.110	0.741	0.114	-	2.965		Bottom	2.110	0.741	0.114	0.381	3.346
	Right	1.335	1.074	-	-	2.409		Right	1.335	1.074	-	-	2.409
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	0.649	1.301	0.159	0.692	2.801	UMPC Extremity SAR	Back	0.649	1.301	0.159	0.330	2.439
	Front	0.779	0.978	0.126	0.606	2.489		Front	0.779	0.978	0.126	0.325	2.208
	Top	-	-	0.254	0.912	1.166		Top	-	-	0.254	-	0.254
	Bottom	2.165	0.741	0.114	-	3.020		Bottom	2.165	0.741	0.114	0.381	3.401
	Right	1.284	1.074	-	-	2.358		Right	1.284	1.074	-	-	2.358
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	0.939	0.891	0.159	0.692	2.681	UMPC Extremity SAR	Back	0.939	0.891	0.159	0.330	2.319
	Front	0.706	1.144	0.126	0.606	2.582		Front	0.706	1.144	0.126	0.325	2.301
	Top	-	-	0.254	0.912	1.166		Top	-	-	0.254	-	0.254
	Bottom	0.892	2.160	0.114	-	3.166		Bottom	0.892	2.160	0.114	0.381	3.547
	Right	1.038	1.112	-	-	2.150		Right	1.038	1.112	-	-	2.150
Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	1.236	0.891	0.159	0.692	2.978	UMPC Extremity SAR	Back	1.236	0.891	0.159	0.330	2.616
	Front	1.070	1.144	0.126	0.606	2.946		Front	1.070	1.144	0.126	0.325	2.665
	Top	-	-	0.254	0.912	1.166		Top	-	-	0.254	-	0.254
	Bottom	0.888	2.160	0.114	-	3.162		Bottom	0.888	2.160	0.114	0.381	3.543
	Right	1.096	1.112	-	-	2.208		Right	1.096	1.112	-	-	2.208

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Table 12-59

Simultaneous Transmission Scenario with 6 GHz WLAN MIMO and Bluetooth (UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
UMPC Extremity SAR	GPRS 850	1.158	0.182	0.912	0.381	2.252	1.721
	GPRS 1900	2.464	0.182	0.912	0.381	3.558	3.027
	UMTS 850	1.407	0.182	0.912	0.381	2.501	1.970
	UMTS 1750	2.157	0.182	0.912	0.381	3.251	2.720
	UMTS 1900	2.462	0.182	0.912	0.381	3.556	3.025
	LTE Band 12	1.038	0.182	0.912	0.381	2.132	1.601
	LTE Band 13	1.255	0.182	0.912	0.381	2.349	1.818
	LTE Band 26 (Cell)	1.236	0.182	0.912	0.381	2.330	1.799
	LTE Band 66 (AWS)	2.110	0.182	0.912	0.381	3.204	2.673
	LTE Band 25 (PCS)	2.165	0.182	0.912	0.381	3.259	2.728
	LTE Band 41	1.368	0.182	0.912	0.381	2.462	1.931
	NR Band n5 (Cell)	1.301	0.182	0.912	0.381	2.395	1.864
NR Band n66 (AWS)	2.160	0.182	0.912	0.381	3.254	2.723	

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	1.000	1.301	0.134	0.692	3.127	UMPC Extremity SAR	Back	1.000	1.301	0.134	0.330	2.765
	Front	0.921	0.978	0.133	0.606	2.638		Front	0.921	0.978	0.133	0.325	2.357
	Top	-	-	0.131	0.912	1.043		Top	-	-	0.131	-	0.131
	Bottom	2.110	0.741	0.182	-	3.033		Bottom	2.110	0.741	0.182	0.381	3.414
	Right	1.335	1.074	-	-	2.409		Right	1.335	1.074	-	-	2.409
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	0.649	1.301	0.134	0.692	2.776	UMPC Extremity SAR	Back	0.649	1.301	0.134	0.330	2.414
	Front	0.779	0.978	0.133	0.606	2.496		Front	0.779	0.978	0.133	0.325	2.215
	Top	-	-	0.131	0.912	1.043		Top	-	-	0.131	-	0.131
	Bottom	2.165	0.741	0.182	-	3.088		Bottom	2.165	0.741	0.182	0.381	3.469
	Right	1.284	1.074	-	-	2.358		Right	1.284	1.074	-	-	2.358
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	0.939	0.891	0.134	0.692	2.656	UMPC Extremity SAR	Back	0.939	0.891	0.134	0.330	2.294
	Front	0.706	1.144	0.133	0.606	2.589		Front	0.706	1.144	0.133	0.325	2.308
	Top	-	-	0.131	0.912	1.043		Top	-	-	0.131	-	0.131
	Bottom	0.892	2.160	0.182	-	3.234		Bottom	0.892	2.160	0.182	0.381	3.615
	Right	1.038	1.112	-	-	2.150		Right	1.038	1.112	-	-	2.150
Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Extremity SAR	Back	1.236	0.891	0.134	0.692	2.953	UMPC Extremity SAR	Back	1.236	0.891	0.134	0.330	2.591
	Front	1.070	1.144	0.133	0.606	2.953		Front	1.070	1.144	0.133	0.325	2.672
	Top	-	-	0.131	0.912	1.043		Top	-	-	0.131	-	0.131
	Bottom	0.888	2.160	0.182	-	3.230		Bottom	0.888	2.160	0.182	0.381	3.611
	Right	1.096	1.112	-	-	2.208		Right	1.096	1.112	-	-	2.208

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Table 12-60
Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2, 5 GHz WLAN MIMO and Bluetooth Ant 1
(UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Extremity SAR	GPRS 850	1.158	0.176	0.254	0.912	2.500
	GPRS 1900	2.464	0.176	0.254	0.912	3.806
	UMTS 850	1.407	0.176	0.254	0.912	2.749
	UMTS 1750	2.157	0.176	0.254	0.912	3.499
	UMTS 1900	2.462	0.176	0.254	0.912	3.804
	LTE Band 12	1.038	0.176	0.254	0.912	2.380
	LTE Band 13	1.255	0.176	0.254	0.912	2.597
	LTE Band 26 (Cell)	1.236	0.176	0.254	0.912	2.578
	LTE Band 66 (AWS)	2.110	0.176	0.254	0.912	3.452
	LTE Band 25 (PCS)	2.165	0.176	0.254	0.912	3.507
	LTE Band 41	1.368	0.176	0.254	0.912	2.710
	NR Band n5 (Cell)	1.301	0.176	0.254	0.912	2.643
	NR Band n66 (AWS)	2.160	0.176	0.254	0.912	3.502

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Extremity SAR	Back	1.000	1.301	0.156	0.159	0.692	3.308
	Front	0.921	0.978	0.166	0.126	0.606	2.797
	Top	-	-	-	0.254	0.912	1.166
	Bottom	2.110	0.741	0.176	0.114	-	3.141
	Right	1.335	1.074	-	-	-	2.409
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Extremity SAR	Back	0.649	1.301	0.156	0.159	0.692	2.957
	Front	0.779	0.978	0.166	0.126	0.606	2.655
	Top	-	-	-	0.254	0.912	1.166
	Bottom	2.165	0.741	0.176	0.114	-	3.196
	Right	1.284	1.074	-	-	-	2.358
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Extremity SAR	Back	0.939	0.891	0.156	0.159	0.692	2.837
	Front	0.706	1.144	0.166	0.126	0.606	2.748
	Top	-	-	-	0.254	0.912	1.166
	Bottom	0.892	2.160	0.176	0.114	-	3.342
	Right	1.038	1.112	-	-	-	2.150
Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Extremity SAR	Back	1.236	0.891	0.156	0.159	0.692	3.134
	Front	1.070	1.144	0.166	0.126	0.606	3.112
	Top	-	-	-	0.254	0.912	1.166
	Bottom	0.888	2.160	0.176	0.114	-	3.338
	Right	1.096	1.112	-	-	-	2.208

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Table 12-61

Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 2, 6 GHz WLAN MIMO and Bluetooth Ant 1 (UMPC Extremity)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Extremity SAR	GPRS 850	1.158	0.176	0.182	0.912	2.428
	GPRS 1900	2.464	0.176	0.182	0.912	3.734
	UMTS 850	1.407	0.176	0.182	0.912	2.677
	UMTS 1750	2.157	0.176	0.182	0.912	3.427
	UMTS 1900	2.462	0.176	0.182	0.912	3.732
	LTE Band 12	1.038	0.176	0.182	0.912	2.308
	LTE Band 13	1.255	0.176	0.182	0.912	2.525
	LTE Band 26 (Cell)	1.236	0.176	0.182	0.912	2.506
	LTE Band 66 (AWS)	2.110	0.176	0.182	0.912	3.380
	LTE Band 25 (PCS)	2.165	0.176	0.182	0.912	3.435
	LTE Band 41	1.368	0.176	0.182	0.912	2.638
	NR Band n5 (Cell)	1.301	0.176	0.182	0.912	2.571
	NR Band n66 (AWS)	2.160	0.176	0.182	0.912	3.430

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
UMPC Extremity SAR	Back	1.000	1.301	0.156	0.134	0.692	3.283
	Front	0.921	0.978	0.166	0.133	0.606	2.804
	Top	-	-	-	0.131	0.912	1.043
	Bottom	2.110	0.741	0.176	0.182	-	3.209
	Right	1.335	1.074	-	-	-	2.409
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
	Back	0.649	1.301	0.156	0.134	0.692	2.932
	Front	0.779	0.978	0.166	0.133	0.606	2.662
	Top	-	-	-	0.131	0.912	1.043
UMPC Extremity SAR	Bottom	2.165	0.741	0.176	0.182	-	3.264
	Right	1.284	1.074	-	-	-	2.358
Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
	Back	0.939	0.891	0.156	0.134	0.692	2.812
	Front	0.706	1.144	0.166	0.133	0.606	2.755
	Top	-	-	-	0.131	0.912	1.043
UMPC Extremity SAR	Bottom	0.892	2.160	0.176	0.182	-	3.410
	Right	1.038	1.112	-	-	-	2.150
Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
	Back	1.236	0.891	0.156	0.134	0.692	3.109
	Front	1.070	1.144	0.166	0.133	0.606	3.119
	Top	-	-	-	0.131	0.912	1.043
UMPC Extremity SAR	Bottom	0.888	2.160	0.176	0.182	-	3.406
	Right	1.096	1.112	-	-	-	2.208

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12.9 SPLSR Evaluation and Analysis

Per FCC KDB Publication 447498 D01v06, when the sum of the standalone transmitters is more than 1.6 W/kg for 1g and 4 W/kg for 10g, the SAR sum to peak locations can be analyzed to determine SAR distribution overlaps. When the SAR peak to location ratio (shown below) for each pair of antennas is ≤ 0.04 for 1g and ≤ 0.10 for 10g, simultaneous SAR evaluation is not required. The distance between the transmitters was calculated using the following formula.

$$\text{Distance}_{\text{Tx1} - \text{Tx2}} = R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2} \text{ (Mini-Tablet)}$$

$$\text{SPLS Ratio} = \frac{(SAR_1 + SAR_2)^{1.5}}{R_i}$$

12.9.1 UMPC Body Back Side SPLSR Evaluation and Analysis

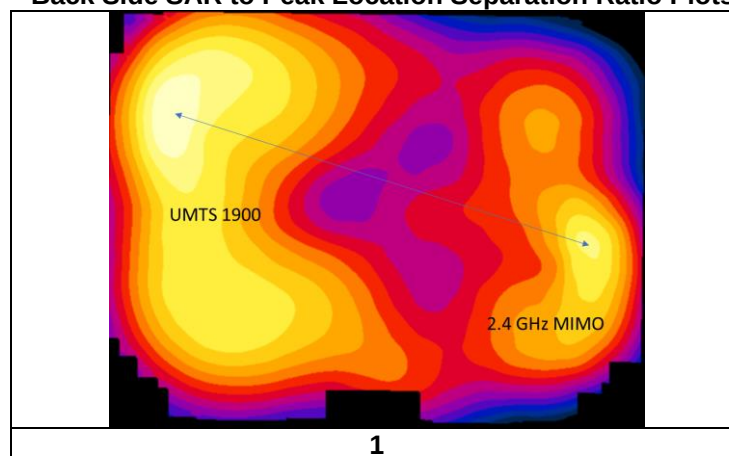
Table 12-62
Peak SAR Locations for UMPC Body Back Side

Mode/Band	x (mm)	y (mm)
2.4 GHz WLAN MIMO	-15.40	81.60
UMTS 1900	-59.00	-77.00

Table 12-63
UMPC Body Back Side SAR to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	(a+b) ^{1.5} /D _{a-b}	
UMTS 1900	2.4 GHz WLAN MIMO	1.230	0.446	1.676	164.48	0.01	1

Table 12-64
Back Side SAR to Peak Location Separation Ratio Plots



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12.10 Simultaneous Transmission Conclusion

The above numerical summed SAR results and SPLSR analysis 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 62209-1528 Section 6.3.4.1.

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13 SAR MEASUREMENT VARIABILITY

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 ≥ 1.45 W/kg ($\sim 10\%$ 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
1g UMPC SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.					(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1750	1712.40	1312	UMTS 1750	RMC	front	10 mm	0.829	0.712	1.16	N/A	N/A	N/A	N/A
1900	1907.60	9538	UMTS 1900	RMC	back	12 mm	0.879	0.809	1.09	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body/UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 13-2
10g UMPC SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Data Rate (Mbps)	Side	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)	
1900	1880.00	9400	UMTS 1900	RMC	N/A	bottom	0 mm	2.020	1.990	1.02	N/A	N/A	N/A	N/A
2450	2462.00	11	802.11b, 22 MHz Bandwidth	DSSS , MIMO	1	top	0 mm	2.070	2.160	1.04	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet/UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams							

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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. 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 152 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 152 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

Supplemental Head SAR Data			
UMTS B5 M1		UMTS B5 M1 + M2	
RMC		RMC	
Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	826.40	Frequency (MHz)	826.40
Channel	4132	Channel	4132
Measured 1g SAR (W/kg)	0.091	Measured 1g SAR (W/kg)	0.093
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 9)	0.130	Auto-tune (State 108)	0.131
Default (State 9)	0.129	Default (State 9)	0.084
State 9	0.129	State 2	0.095
State 11	0.114	State 10	0.075
State 31	0.075	State 30	0.040
State 51	0.036	State 50	0.033
State 71	0.005	State 70	0.002
State 91	0.108	State 90	0.087
State 111	0.072	State 108	0.125
State 131	0.056	State 110	0.083
State 150	0.111	State 130	0.036

Table 14-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data											
LTE B12 M1		LTE B12 M1 + M2		LTE B13 M1		LTE B13 M1 + M2		LTE B26 M1		LTE B26 M1 + M2	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	707.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	782.00	Frequency (MHz)	831.50	Frequency (MHz)	831.50
Channel	23095	Channel	23095	Channel	23230	Channel	23230	Channel	26865	Channel	26865
Measured 1g SAR (W/kg)	0.097	Measured 1g SAR (W/kg)	0.096	Measured 1g SAR (W/kg)	0.111	Measured 1g SAR (W/kg)	0.118	Measured 1g SAR (W/kg)	0.105	Measured 1g SAR (W/kg)	0.095
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 9)	0.126	Auto-tune (State 9)	0.125	Auto-tune (State 9)	0.147	Auto-tune (State 36)	0.130	Auto-tune (State 9)	0.140	Auto-tune (State 108)	0.136
Default (State 9)	0.125	Default (State 9)	0.125	Default (State 9)	0.143	Default (State 9)	0.121	Default (State 9)	0.135	Default (State 9)	0.132
State 9	0.125	State 0	0.129	State 9	0.143	State 9	0.009	State 5	0.073	State 4	0.094
State 20	0.113	State 9	0.125	State 16	0.034	State 28	0.053	State 9	0.135	State 9	0.147
State 24	0.042	State 29	0.084	State 35	0.008	State 36	0.120	State 25	0.021	State 24	0.015
State 39	0.047	State 49	0.066	State 46	0.144	State 48	0.083	State 45	0.138	State 44	0.004
State 60	0.039	State 69	0.014	State 62	0.017	State 68	0.020	State 65	0.101	State 64	0.058
State 76	0.037	State 89	0.003	State 78	0.033	State 88	0.007	State 85	0.093	State 84	0.061
State 84	0.088	State 109	0.090	State 92	0.135	State 108	0.111	State 105	0.023	State 104	0.019
State 99	0.113	State 129	0.062	State 102	0.094	State 128	0.086	State 125	0.010	State 108	0.147
State 114	0.011	State 149	0.120	State 141	0.023	State 148	0.121	State 145	0.134	State 124	0.003

Table 14-3
NR Supplemental Head SAR Data

Supplemental Head SAR Data			
NR Band n5 M1		NR Band n5 M1 + M2	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	836.50	Frequency (MHz)	836.50
Channel	167300	Channel	167300
Measured 1g SAR (W/kg)	0.109	Measured 1g SAR (W/kg)	0.105
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 9)	0.147	Auto-tune (State 108)	0.148
Default (State 9)	0.145	Default (State 9)	0.090
State 3	0.108	State 2	0.115
State 9	0.145	State 22	0.052
State 23	0.081	State 42	0.020
State 43	0.020	State 62	0.001
State 63	0.120	State 82	0.084
State 83	0.119	State 102	0.035
State 103	0.073	State 108	0.148
State 123	0.032	State 122	0.025
State 143	0.005	State 142	0.001

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Table 14-4
UMTS Supplemental Body SAR Data

Supplemental Body SAR Data			
UMTS B5 M1		UMTS B5 M1 + M2	
RMC		RMC	
Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	826.40	Frequency (MHz)	836.60
Channel	4132	Channel	4183
Measured 1g SAR (W/kg)	0.249	Measured 1g SAR (W/kg)	0.485
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 9)	0.421	Auto-tune (State 108)	0.773
Default (State 9)	0.433	Default (State 9)	0.710
State 1	0.370	State 0	0.808
State 9	0.433	State 20	0.602
State 21	0.362	State 40	0.544
State 41	0.208	State 60	0.151
State 61	0.070	State 80	0.053
State 81	0.434	State 100	0.472
State 101	0.323	State 108	0.799
State 121	0.287	State 120	0.478
State 141	0.079	State 140	0.193

Table 14-5
LTE Supplemental Body SAR Data

Supplemental Body SAR Data											
LTE B12 M1		LTE B12 M1 + M2		LTE B13 M1		LTE B13 M1 + M2		LTE B26 M1		LTE B26 M1 + M2	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Right	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	707.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	782.00	Frequency (MHz)	836.50	Frequency (MHz)	836.50
Channel	23095	Channel	23095	Channel	23230	Channel	23230	Channel	20525	Channel	20525
Measured 1g SAR (W/kg)	0.264	Measured 1g SAR (W/kg)	0.319	Measured 1g SAR (W/kg)	0.258	Measured 1g SAR (W/kg)	0.437	Measured 1g SAR (W/kg)	0.309	Measured 1g SAR (W/kg)	0.428
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 18)	0.359	Auto-tune (State 9)	0.522	Auto-tune (State 10)	0.375	Auto-tune (State 36)	0.683	Auto-tune (State 9)	0.414	Auto-tune (State 108)	0.627
Default (State 9)	0.369	Default (State 9)	0.509	Default (State 9)	0.372	Default (State 9)	0.713	Default (State 9)	0.418	Default (State 9)	0.524
State 5	0.108	State 6	0.068	State 3	0.259	State 12	0.567	State 9	0.418	State 16	0.082
State 18	0.362	State 9	0.509	State 10	0.369	State 18	0.697	State 17	0.051	State 36	0.630
State 43	0.027	State 19	0.429	State 28	0.280	State 36	0.691	State 31	0.268	State 45	0.547
State 54	0.351	State 39	0.229	State 50	0.266	State 38	0.528	State 37	0.372	State 56	0.458
State 74	0.169	State 59	0.202	State 68	0.168	State 58	0.463	State 57	0.340	State 76	0.413
State 85	0.235	State 79	0.028	State 94	0.300	State 78	0.127	State 77	0.202	State 96	0.108
State 101	0.287	State 99	0.472	State 109	0.243	State 98	0.047	State 97	0.065	State 108	0.622
State 111	0.130	State 119	0.339	State 125	0.046	State 118	0.589	State 117	0.425	State 116	0.040
State 130	0.230	State 139	0.041	State 129	0.305	State 138	0.397	State 137	0.295	State 136	0.342

Table 14-6
NR Supplemental Body SAR Data

Supplemental Body SAR Data			
NR Band n5 M1		NR Band n5 M1 + M2	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	836.50	Frequency (MHz)	836.50
Channel	167300	Channel	167300
Measured 1g SAR (W/kg)	0.298	Measured 1g SAR (W/kg)	0.469
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 9)	0.482	Auto-tune (State 108)	0.713
Default (State 9)	0.482	Default (State 9)	0.611
State 9	0.482	State 12	0.523
State 13	0.376	State 32	0.231
State 33	0.101	State 52	0.078
State 53	0.043	State 72	0.714
State 73	0.339	State 92	0.503
State 93	0.345	State 108	0.713
State 98	0.037	State 112	0.428
State 113	0.163	State 122	0.269
State 133	0.052	State 132	0.106

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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)	23.00	26.00
Measured Output Power (dBm)	22.55	25.40
Measured SAR (W/kg)	0.026	0.031
Measured Power (mW)	179.89	346.74
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	113.87	150.14
% deviation from expected linearity		-9.57%

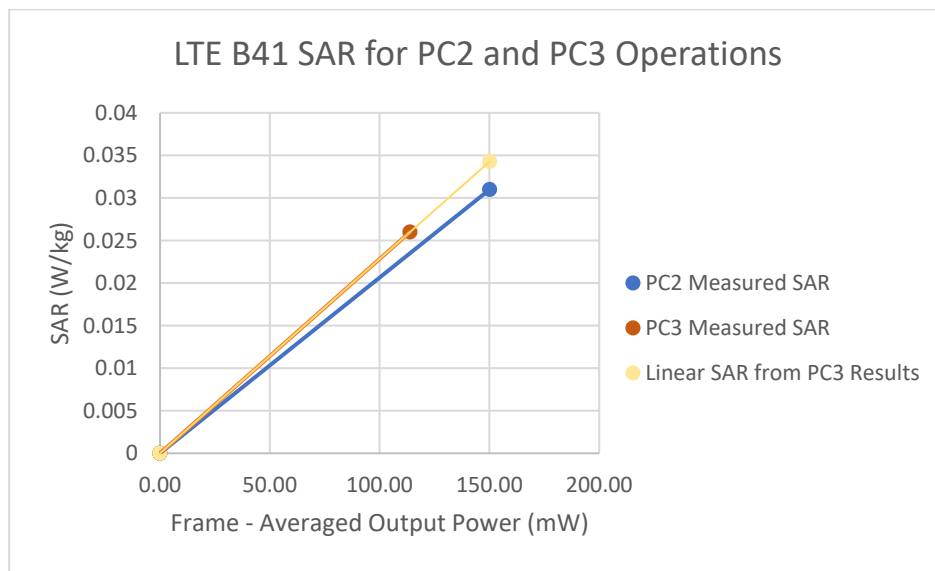


Figure 14-1
LTE Band 41 Head Linearity

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Table 14-8
LTE Band 41 1g Body Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.00	19.00
Measured Output Power (dBm)	18.39	18.36
Measured SAR (W/kg)	0.263	0.189
Measured Power (mW)	69.02	68.55
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	43.69	29.68
% deviation from expected linearity		5.78%

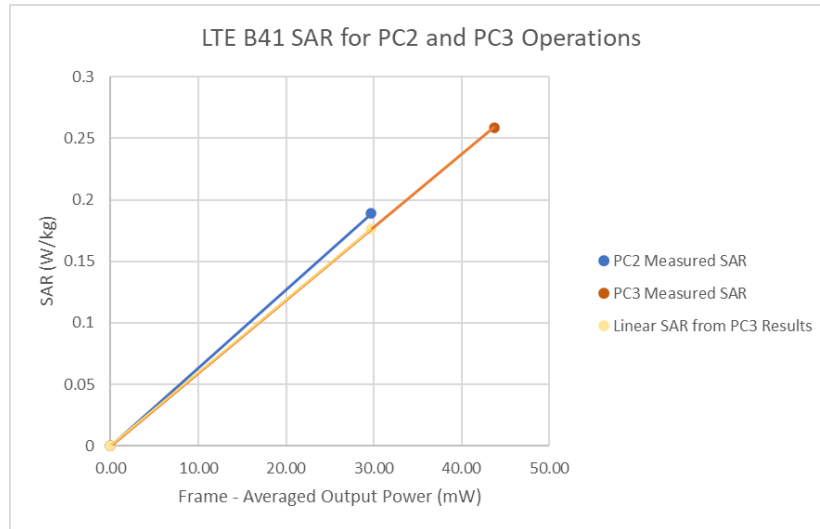


Figure 14-2
LTE Band 41 1g Body Linearity

Table 14-9
LTE Band 41 10g Body Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.00	19.00
Measured Output Power (dBm)	18.39	18.36
Measured SAR (W/kg)	1.280	0.872
Measured Power (mW)	69.02	68.55
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	43.69	29.68
% deviation from expected linearity		0.28%

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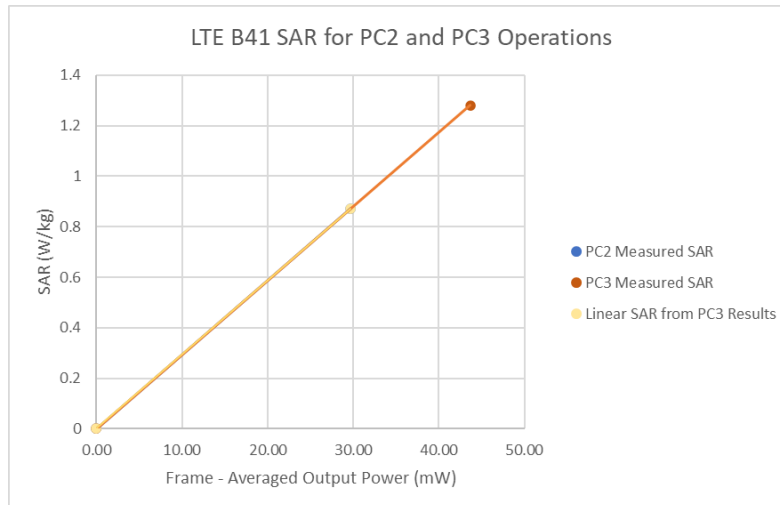


Figure 14-3
LTE Band 41 10g Body Linearity

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15 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	CBT	N/A	CBT	3051A00187
Agilent	E4438C	ESG Vector Signal Generator	12/14/2020	Biennial	12/14/2022	MY42082385
Agilent	E4438C	ESG Vector Signal Generator	8/10/2020	Annual	8/10/2021	MY4220082
Agilent	E4438B	ESG-D Series Signal Generator	2/24/2021	Annual	2/24/2022	US40253896
Agilent	N5182A	MWG Vector Signal Generator	5/13/2020	Annual	5/13/2021	MY47420603
Agilent	8753ES	S-Parameter Network Analyzer	2/2/2021	Annual	2/2/2022	US39170122
Agilent	8753ES	S-Parameter Vector Network Analyzer	12/15/2020	Annual	12/15/2021	MY40003841
Agilent	E5515C	Wireless Communications Test Set	2/4/2021	Annual	2/4/2022	GB43193563
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB44450273
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	353317
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433978
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2495A	Power Meter	1/18/2021	Annual	1/18/2022	941001
Anritsu	ML2496A	Power Meter	3/3/2021	Annual	3/3/2022	1306009
Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1126066
Anritsu	MA2411B	Pulse Power Sensor	7/28/2020	Annual	7/28/2021	1339018
Anritsu	MT8821C	Radio Communication Analyzer	3/23/2021	Annual	3/23/2022	6201144418
Anritsu	MT8821C	Radio Communication Analyzer	4/16/2021	Annual	4/16/2022	6200901190
Anritsu	MT8821C	Radio Communication Analyzer	7/3/2020	Annual	7/3/2021	6262150047
Anritsu	MA24106A	USB Power Sensor	7/24/2020	Annual	7/24/2021	1231535
Anritsu	MA24106A	USB Power Sensor	6/15/2020	Annual	6/15/2021	1520504
Anritsu	MA24106A	USB Power Sensor	9/15/2020	Annual	9/15/2021	1520505
Anritsu	MT8862A	Wireless Connectivity Test Set	10/29/2020	Annual	10/29/2021	6261782395
COMTECH	A885729-S	Solid State Amplifier	CBT	N/A	CBT	M155400-009
COMTECH	AR85729-S/5759B	Solid State Amplifier	CBT	N/A	CBT	M3W1400-1002
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282739
Control Company	4352	Long Stem Thermometer	5/16/2020	Biennial	5/16/2022	200294567
Control Company	4040	Therm / Clock/ Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113269
Control Company	4040	Therm / Clock/ Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291470
Keylight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keylight Technologies	N9020A	MXA Signal Analyzer	2/24/2021	Annual	2/24/2022	MY48010233
Keylight Technologies	N9020A	MXA Signal Analyzer	8/14/2020	Annual	8/14/2021	US46470561
Keylight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	9/1/2020	Annual	9/1/2021	MY53401181
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Insize	1108-150	Digital Caliper	1/17/2020	Biennial	1/17/2022	409193536
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2208-6	Bi-directional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2208-10	Bi-directional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	1445
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	1/19/2021	Annual	1/19/2022	111427
Rohde & Schwarz	CMW500	Radio Communication Tester	5/2/2020	Annual	5/2/2021	167286
Rohde & Schwarz	ZNLE6	Vector Network Analyzer	9/29/2020	Annual	9/29/2021	101307
SPEAG	D750V3	750 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	1161
SPEAG	D835V2	835 MHz SAR Dipole	3/13/2019	Triennial	3/13/2022	4d047
SPEAG	D1765V2	1765 MHz SAR Dipole	5/14/2021	Annual	5/14/2022	1008
SPEAG	D1750V2	1750 MHz SAR Dipole	5/12/2020	Biennial	5/12/2022	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2018	Triennial	10/22/2021	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	5d080
SPEAG	D2300V2	2300 MHz SAR Dipole	8/13/2018	Triennial	8/13/2021	1073
SPEAG	D2450V2	2450 MHz SAR Dipole	8/14/2020	Annual	8/14/2021	719
SPEAG	D2450V2	2450 MHz SAR Dipole	9/9/2020	Annual	9/9/2021	797
SPEAG	D2450V2	2450 MHz SAR Dipole	2/8/2021	Annual	2/8/2022	882
SPEAG	D2450V2	2450 MHz SAR Dipole	1/19/2021	Annual	1/19/2022	981
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1064
SPEAG	D5GHV2	5 GHz SAR Dipole	2/12/2021	Annual	2/12/2022	1120
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/18/2021	Annual	3/18/2022	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/16/2020	Annual	10/16/2021	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2021	Annual	4/7/2022	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/10/2021	Annual	3/10/2022	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2020	Annual	9/10/2021	1449
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/11/2020	Annual	8/11/2021	1450
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/7/2020	Annual	12/7/2021	1533
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2021	Annual	1/13/2022	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/14/2020	Annual	5/14/2021	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/1/2021	Annual	3/1/2022	1652
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2021	Annual	5/1/2022	1070
SPEAG	DAK-3.5	Dielectric Assessment Kit	10/14/2020	Annual	10/14/2021	1091
SPEAG	EX3DV4	SAR Probe	1/20/2021	Annual	1/20/2022	3589
SPEAG	EX3DV4	SAR Probe	7/31/2020	Annual	7/31/2021	7308
SPEAG	EX3DV4	SAR Probe	4/19/2021	Annual	4/19/2022	7357
SPEAG	EX3DV4	SAR Probe	6/23/2020	Annual	6/23/2021	7406
SPEAG	EX3DV4	SAR Probe	7/20/2020	Annual	7/20/2021	7410
SPEAG	EX3DV4	SAR Probe	3/16/2021	Annual	3/16/2022	7526
SPEAG	EX3DV4	SAR Probe	11/23/2020	Annual	11/23/2021	7538
SPEAG	EX3DV4	SAR Probe	10/20/2020	Annual	10/20/2021	7551
SPEAG	EX3DV4	SAR Probe	12/11/2020	Annual	12/11/2021	7571
SPEAG	EX3DV4	SAR Probe	3/3/2021	Annual	3/3/2022	7637
SPEAG	EX3DV4	SAR Probe	3/16/2021	Annual	3/16/2022	7527

Note: 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.

Note: Each equipment item was used solely within its respective calibration period.

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16 MEASUREMENT UNCERTAINTIES

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
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	1.732	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	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	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	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	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)							RSS	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0

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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