



SAR EVALUATION REPORT

Applicant Name:

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Gyeonggi-do, 16677, Korea

Date of Testing:

09/10/19 – 11/06/19

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

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A3LSMN976U

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

SM-N976U

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phablet (W/kg)
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.10	0.17	0.43	N/A
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.34	0.98	3.26
PCE	UMTS 850	826.40 - 846.60 MHz	0.21	0.30	0.90	N/A
PCE	UMTS 1750	1712.4 - 1752.6 MHz	0.17	0.87	0.87	2.05
PCE	UMTS 1900	1852.4 - 1907.6 MHz	0.16	1.01	0.63	2.05
PCE	LTE Band 71	665.5 - 695.5 MHz	0.11	0.18	0.30	N/A
PCE	NR Band n71	665.5 - 695.5 MHz	0.12	0.15	0.23	N/A
PCE	LTE Band 12	699.7 - 715.3 MHz	0.10	0.21	0.35	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.14	0.28	0.57	N/A
PCE	LTE Band 14	790.5 - 795.5 MHz	0.13	0.25	0.50	N/A
PCE	LTE Band 26 (Cell)	814.7 - 848.3 MHz	0.18	0.31	0.55	N/A
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	0.18	0.29	0.61	N/A
PCE	NR Band n5 (Cell)	826.5 - 846.5 MHz	0.21	0.34	0.73	N/A
PCE	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.14	0.92	1.31	3.28
PCE	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	< 0.1	0.72	0.87	2.56
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	< 0.1	0.92	0.83	2.48
PCE	LTE Band 30	2307.5 - 2312.5 MHz	< 0.1	0.59	1.29	2.34
PCE	LTE Band 7	2502.5 - 2567.5 MHz	0.10	0.36	1.03	2.44
CBE	LTE Band 48	3552.5 - 3697.5 MHz	< 0.1	0.13	0.55	N/A
PCE	LTE Band 41	2496.5 - 2687.5 MHz	0.10	0.34	0.83	2.76
PCE	LTE Band 38	2572.5 - 2617.5 MHz	N/A	N/A	N/A	N/A
DTS	2.4 GHz WLAN	2412 - 2462 MHz	0.76	0.13	0.35	N/A
NI	U-NII-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A
NI	U-NII-2A	5260 - 5320 MHz	0.13	0.15	N/A	1.11
NI	U-NII-2C	5500 - 5720 MHz	0.19	0.19	N/A	1.08
NI	U-NII-3	5745 - 5825 MHz	0.32	0.25	0.34	N/A
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.36	< 0.1	< 0.1	N/A
Simultaneous SAR per KDB 690783 D01v01.03:			1.34	1.54	1.58	3.98

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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Document S/N: 1M1909040147-01.A3L	Test Dates: 09/10/19 – 11/06/19	DUT Type: Portable Handset		Page 1 of 212

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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 71	Voice/Data	665.5 - 695.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 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 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2462 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
ANT+	Data	2402 - 2480 MHz
MST	Data	555 Hz - 8.33 kHz

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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. Additionally, when 5G NR is active, this device reduces power for some phablet conditions and hotspot conditions for some LTE bands. Detailed descriptions of the power reduction mechanism are included in the operational description.

This device uses an independent fixed level power reduction mechanism for WLAN operations during voice or VoIP held to ear scenarios. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Additionally, when 5G NR is active, the WLAN power is reduced. 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 MHz										
Power Level	Mode / Band	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 MHz										
Power Level	Mode / Band	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	30.0	30.0	28.0	26.0	24.5	26.5	24.5	22.5	21.5
	Nominal	29.0	29.0	27.0	25.0	23.5	25.5	23.5	21.5	20.5
Hotspot Mode Active	Max allowed power	N/A	26.5	25.0	23.5	21.5	26.5	24.5	22.5	21.5
	Nominal	N/A	25.5	24.0	22.5	20.5	25.5	23.5	21.5	20.5

UMTS Band 5 (850 MHz)					
Power Level	Mode / Band	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	25.5	24.5	24.5	24.5
	Nominal	24.5	23.5	23.5	23.5
UMTS Band 4 (1750 MHz)					
Power Level	Mode / Band	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 Active	Max allowed power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
Proximity Sensor Active	Max allowed power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
Earjack Active	Max allowed power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
UMTS Band 2 (1900 MHz)					
Power Level	Mode / Band	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 Active	Max allowed power	18.5	17.5	17.5	17.5
	Nominal	17.5	16.5	16.5	16.5
Proximity Sensor Active	Max allowed power	20.5	19.5	19.5	19.5
	Nominal	19.5	18.5	18.5	18.5
Earjack Active	Max allowed power	20.5	19.5	19.5	19.5
	Nominal	19.5	18.5	18.5	18.5

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Mode / Band		Modulated Average Output Power (in dBm)			
		Max	Hotspot Mode Active	Proximity Sensor Active	Earjack Active
LTE FDD Band 71	Max allowed power	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8
LTE FDD Band 12	Max allowed power	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8
LTE FDD Band 13	Max allowed power	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8
LTE FDD Band 14	Max allowed power	25.3	25.3	25.3	25.3
	Nominal	24.3	24.3	24.3	24.3
LTE FDD Band 5	Max allowed power	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8
LTE FDD Band 26	Max allowed power	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8
LTE FDD Band 4	Max allowed power	25.0	20.5	20.5	20.5
	Nominal	24.0	19.5	19.5	19.5
LTE FDD Band 66	Max allowed power	25.0	20.5	20.5	20.5
	Nominal	24.0	19.5	19.5	19.5
LTE FDD Band 2	Max allowed power	25.0	18.5	21.0	21.0
	Nominal	24.0	17.5	20.0	20.0
LTE FDD Band 25	Max allowed power	25.0	18.5	21.0	21.0
	Nominal	24.0	17.5	20.0	20.0
LTE FDD Band 30	Max allowed power	24.0	21.0	23.0	23.0
	Nominal	23.0	20.0	22.0	22.0
LTE FDD Band 7	Max allowed power	24.0	21.5	21.5	21.5
	Nominal	23.0	20.5	20.5	20.5
LTE TDD Band 38	Max allowed power	22.5	22.5	22.5	22.5
	Nominal	21.5	21.5	21.5	21.5
LTE TDD Band 48	Max allowed power	23.0	23.0	23.0	23.0
	Nominal	22.0	22.0	22.0	22.0
LTE TDD Band 41 (PC3)	Max allowed power	24.5	22.5	24.5	24.5
	Nominal	23.5	21.5	23.5	23.5
LTE TDD Band 41 (PC2)	Max allowed power	27.5	22.5	25.5	25.5
	Nominal	26.5	21.5	24.5	24.5

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	Mode / Band		Modulated Average Output Power (in dBm)			
			Max	Hotspot Mode Active	Proximity Sensor Active	Earjack Active
NR Active	LTE FDD Band 66	Max allowed power	25.0	19.5	19.5	19.5
		Nominal	24.0	18.5	18.5	18.5
	LTE FDD Band 2	Max allowed power	25.0	18.5	21.0	21.0
		Nominal	24.0	17.5	20.0	20.0
	LTE FDD Band 30	Max allowed power	24.0	20.5	21.5	21.5
		Nominal	23.0	19.5	20.5	20.5

Mode / Band		Modulated Average Output Power (in dBm)
		Max
NR FDD Band n71	Max allowed power	25.8
	Nominal	24.8
NR FDD Band n5	Max allowed power	25.8
	Nominal	24.8

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1.3.2

Maximum Bluetooth and SISO/MIMO WLAN Output Power

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

Mode	Band	IEEE 802.11 (in dBm)																					
		SISO								SISO								MIMO					
		Antenna 1								Antenna 2													
		b		g		n		ax (SU)		b		g		n		ax (SU)		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	20.5	19.5	18.0	17.0	18.0	17.0	17.0	16.0	20.5	19.5	18.0	17.0	18.0	17.0	17.0	16.0	21.0	20.0	21.0	20.0	17.0	16.0

Mode	Band	IEEE 802.11 (in dBm)																							
		SISO								SISO								MIMO							
		Antenna 1								Antenna 2															
		a		n		ac		ax (SU)		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.		
5 GHz WIFI (20MHz BW)	5200 MHz	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	21.0	20.0	21.0	20.0	21.0	20.0	16.0	15.0
	5300 MHz	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	21.0	20.0	21.0	20.0	21.0	20.0	16.0	15.0
	5500 MHz	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	21.0	20.0	21.0	20.0	21.0	20.0	16.0	15.0
	5800 MHz	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	21.0	20.0	21.0	20.0	21.0	20.0	16.0	15.0
5 GHz WIFI (40MHz BW)	5200 MHz	ch. 38, 15.5		ch. 38, 14.5		ch. 38, 15.5		ch. 38, 14.5		ch. 38, 15.5		ch. 38, 14.5		ch. 38, 15.5		ch. 38, 14.5		ch. 38, 18.5		ch. 38, 17.5		ch. 38, 18.5		ch. 38, 17.5	
	5300 MHz	ch. 62, 16.0		ch. 62, 15.0		ch. 62, 16.0		ch. 62, 15.0		ch. 62, 16.0		ch. 62, 15.0		ch. 62, 16.0		ch. 62, 15.0		ch. 62, 19.0		ch. 62, 18.0		ch. 62, 19.0		ch. 62, 18.0	
	5500 MHz	ch. 102, 16.5		ch. 102, 15.5		ch. 102, 16.5		ch. 102, 15.5		ch. 102, 16.5		ch. 102, 15.5		ch. 102, 16.5		ch. 102, 15.5		ch. 102, 19.5		ch. 102, 18.5		ch. 102, 19.5		ch. 102, 18.5	
	5800 MHz	ch. 102, 16.5		ch. 102, 15.5		ch. 102, 16.5		ch. 102, 15.5		ch. 102, 16.5		ch. 102, 15.5		ch. 102, 16.5		ch. 102, 15.5		ch. 102, 19.5		ch. 102, 18.5		ch. 102, 19.5		ch. 102, 18.5	
5 GHz WIFI (80MHz BW)	5200 MHz	ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 18.5		ch. 106, 17.5		ch. 106, 18.5		ch. 106, 17.5	
	5300 MHz	ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 18.5		ch. 106, 17.5		ch. 106, 18.5		ch. 106, 17.5	
	5500 MHz	ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 18.5		ch. 106, 17.5		ch. 106, 18.5		ch. 106, 17.5	
	5800 MHz	ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 15.5		ch. 106, 14.5		ch. 106, 18.5		ch. 106, 17.5		ch. 106, 18.5		ch. 106, 17.5	

Mode / Band		Modulated Average - Single Tx Chain (dBm)	
Bluetooth	Maximum	14.5	
	Nominal	13.5	
Bluetooth EDR	Maximum	13.5	
	Nominal	12.5	
Bluetooth LE 2Mbps	Maximum	10.0	
	Nominal	9.0	
Bluetooth LE 1Mbps, 125/500Kbps	Maximum	9.0	
	Nominal	8.0	

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1.3.3

2.4 GHz Reduced WLAN Output Powers

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

The below table is applicable in the following conditions:

- Head Conditions
- Simultaneous conditions with 2.4 GHz WLAN and 5 GHz WLAN
- Simultaneous conditions with 5G NR and 2.4 GHz WLAN and/or 5 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)																					
		SISO								SISO								MIMO					
		Antenna 1								Antenna 2													
		b		g		n		ax (SU)		b		g		n		ax (SU)		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	20.0	19.0	20.0	19.0	17.0	16.0

The below table is applicable in the following conditions:

- Head Conditions during simultaneous conditions with 2.4 GHz WLAN and 5 GHz WLAN
- Head Conditions during simultaneous conditions with 5G NR and 2.4 GHz WLAN and/or 5 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)																					
		SISO								SISO								MIMO					
		Antenna 1								Antenna 2													
		b		g		n		ax (SU)		b		g		n		ax (SU)		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	17.0	16.0	17.0	16.0	17.0	16.0

1.3.4

5 GHz Reduced WLAN Output Powers

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

The below table is applicable in the following conditions:

- Head Conditions
- Simultaneous conditions with 2.4 GHz WLAN and 5 GHz WLAN
- Simultaneous conditions with 5G NR and 2.4 GHz WLAN and/or 5 GHz WLAN
- Head Conditions during simultaneous conditions with 2.4 GHz WLAN and 5 GHz WLAN
- Head Conditions during simultaneous conditions with 5G NR and 2.4 GHz WLAN and/or 5 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)																							
		SISO								SISO								MIMO							
		Antenna 1								Antenna 2															
		a		n		ac		ax (SU)		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	5200 MHz	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0
	5300 MHz	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0
	5500 MHz	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0
	5800 MHz	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0
5 GHz WIFI (40MHz BW)	5200 MHz			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			17.0	16.0	17.0	16.0	14.0	13.0
	5300 MHz			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			17.0	16.0	17.0	16.0	14.0	13.0
	5500 MHz			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			17.0	16.0	17.0	16.0	14.0	13.0
	5800 MHz			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			17.0	16.0	17.0	16.0	14.0	13.0
5 GHz WIFI (80MHz BW)	5200 MHz					14.0	13.0	13.0	12.0					14.0	13.0	13.0	12.0					17.0	16.0	13.0	12.0
	5300 MHz					14.0	13.0	13.0	12.0					14.0	13.0	13.0	12.0					17.0	16.0	13.0	12.0
	5500 MHz					14.0	13.0	13.0	12.0					14.0	13.0	13.0	12.0					17.0	16.0	13.0	12.0
	5800 MHz					14.0	13.0	13.0	12.0					14.0	13.0	13.0	12.0					17.0	16.0	13.0	12.0

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1.4 DUT Antenna Locations

The overall dimensions of this device are > 9 x 5 cm. The overall diagonal dimension of the device is ≤160 mm and the diagonal display is ≤150 mm. A diagram showing the location of the device antennas can be found in Appendix E. Since the diagonal dimension of this device is > 160 mm and <200 mm, it is considered a “phablet.”

Table 1-1
Device Edges/Sides for SAR Testing

Mode	Back	Front	Top	Bottom	Right	Left
GPRS 850	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850	Yes	Yes	No	Yes	Yes	Yes
UMTS 1750	Yes	Yes	No	Yes	Yes	Yes
UMTS 1900	Yes	Yes	No	Yes	Yes	Yes
LTE Band 71	Yes	Yes	No	Yes	Yes	Yes
NR Band n71	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes
LTE Band 14	Yes	Yes	No	Yes	Yes	Yes
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
NR Band n5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 25 (PCS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 2 (PCS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 30	Yes	Yes	No	Yes	Yes	Yes
LTE Band 7	Yes	Yes	No	Yes	Yes	Yes
LTE Band 48	Yes	Yes	No	Yes	Yes	Yes
LTE Band 41	Yes	Yes	No	Yes	Yes	Yes
2.4 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	Yes	No	No	Yes
2.4 GHz WLAN MIMO	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN Ant 2	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN MIMO	Yes	Yes	Yes	No	No	Yes
Bluetooth	Yes	Yes	Yes	No	No	Yes

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III and FCC KDB Publication 648474 D04v01r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, all 5 GHz bands are disabled. Therefore 5 GHz WIFI is not considered in this section. 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.

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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.

Table 1-2
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	Notes
1	GSM voice + 2.4 GHz Wi-Fi	Yes	Yes	N/A	Yes	
2	GSM voice + 5 GHz Wi-Fi	Yes	Yes	N/A	Yes	
3	GSM voice + 2.4 GHz Bluetooth	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
4	GSM voice + 2.4 GHz Wi-Fi MIMO	Yes	Yes	N/A	Yes	
5	GSM voice + 5 GHz Wi-Fi MIMO	Yes	Yes	N/A	Yes	
6	GSM voice + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi	Yes	Yes	N/A	Yes	
7	GSM voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
8	GSM voice + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO	Yes	Yes	N/A	Yes	
9	GSM voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
10	UMTS + 2.4 GHz Wi-Fi	Yes	Yes	Yes	Yes	
11	UMTS + 5 GHz Wi-Fi	Yes	Yes	Yes	Yes	
12	UMTS + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
13	UMTS + 2.4 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
14	UMTS + 5 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
15	UMTS + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi	Yes	Yes	Yes	Yes	
16	UMTS + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
17	UMTS + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
18	UMTS + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
19	LTE + 2.4 GHz Wi-Fi	Yes	Yes	Yes	Yes	
20	LTE + 5 GHz Wi-Fi	Yes	Yes	Yes	Yes	
21	LTE + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
22	LTE + 2.4 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
23	LTE + 5 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
24	LTE + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi	Yes	Yes	Yes	Yes	
25	LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
26	LTE + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
27	LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
28	GPRS/EDGE + 2.4 GHz Wi-Fi	N/A	N/A	Yes	Yes	
29	GPRS/EDGE + 5 GHz Wi-Fi	N/A	N/A	Yes	Yes	
30	GPRS/EDGE + 2.4 GHz Bluetooth	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
31	GPRS/EDGE + 2.4 GHz Wi-Fi MIMO	N/A	N/A	Yes	Yes	
32	GPRS/EDGE + 5 GHz Wi-Fi MIMO	N/A	N/A	Yes	Yes	
33	GPRS/EDGE + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi	N/A	N/A	Yes	Yes	
34	GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
35	GPRS/EDGE + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO	N/A	N/A	Yes	Yes	
36	GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
37	LTE + 5G NR	Yes	Yes	N/A	Yes	
38	LTE + 5G NR + 2.4 GHz Wi-Fi	Yes	Yes	Yes	Yes	
39	LTE + 5G NR + 5 GHz Wi-Fi	Yes	Yes	Yes	Yes	
40	LTE + 5G NR + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
41	LTE + 5G NR + 2.4 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
42	LTE + 5G NR + 5 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
43	LTE + 5G NR + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi	Yes	Yes	Yes	Yes	
44	LTE + 5G NR + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
45	LTE + 5G NR + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
46	LTE + 5G NR + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered

1. 2.4 GHz WLAN and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
2. All licensed modes share the same antenna path and cannot transmit simultaneously.
3. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.

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4. 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.
5. 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.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
7. This device supports VOLTE.
8. This device supports VOWIFI.
9. This device supports Bluetooth Tethering.
10. LTE + 5G NR Scenarios are limited to LTE Anchor Bands, LTE Band 66, LTE Band 2, and LTE Band 30.

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 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 802.11ac with the following features:

- a) Up to 80 MHz Bandwidth only
- b) No aggregate channel configurations
- c) 2 Tx antenna output
- d) 256 QAM is supported
- e) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:

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

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

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

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(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" 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).

This device supports LTE Carrier Aggregation (CA) for LTE Band 5 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

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

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NR implementation of n71 and n5 is limited to EN-DC operations only, with LTE Band 66, LTE Band 2, or LTE Band 30 acting as the anchor band. Per FCC Guidance, SAR tests were performed separately for NR Bands and LTE Anchor Bands. Please see Section 11 for more details. Please see section 12 for EN-DC operations analysis.

1.8 Guidance Applied

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

1.9 Device Serial Numbers

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

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LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 71 (695.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 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 30 (2307.5 - 2312.5 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 48 (3552.5 - 3597.5 MHz)				
	LTE Band 41 (2498.5 - 2587.5 MHz)				
	LTE Band 38 (2572.5 - 2617.5 MHz)				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 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, 15 MHz, 20 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 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)		Low	Low-Mid	Mid	Mid-High
LTE Band 71: 5 MHz		695.5 (133147)		680.5 (133297)	695.5 (133447)
LTE Band 71: 10 MHz		668 (133172)		680.5 (133297)	693 (133422)
LTE Band 71: 15 MHz		670.5 (133197)		680.5 (133297)	690.5 (133397)
LTE Band 71: 20 MHz		673 (133222)		680.5 (133297)	688 (133372)
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 13: 5 MHz		779.5 (23205)		782 (23230)	784.5 (23255)
LTE Band 13: 10 MHz		N/A		782 (23230)	N/A
LTE Band 14: 5 MHz		790.5 (23305)		793 (23330)	795.5 (23355)
LTE Band 14: 10 MHz		N/A		793 (23330)	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)	1909.3 (19193)
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 30: 5 MHz		2307.5 (27665)		2310 (27710)	2312.5 (27735)
LTE Band 30: 10 MHz		N/A		2310 (27710)	N/A
LTE Band 7: 5 MHz		2502.5 (20775)		2538 (21100)	2567.5 (21425)
LTE Band 7: 10 MHz		2505 (20800)		2535 (21100)	2565 (21400)
LTE Band 7: 15 MHz		2507.5 (20825)		2535 (21100)	2562.5 (21375)
LTE Band 7: 20 MHz		2510 (20850)		2535 (21100)	2560 (21350)
LTE Band 48: 5 MHz		3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)
LTE Band 48: 10 MHz		3555 (55290)	3601.7 (55777)	N/A	3648.3 (56223)
LTE Band 48: 15 MHz		3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)
LTE Band 48: 20 MHz		3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)
LTE Band 41: 5 MHz		2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 10 MHz		2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 15 MHz		2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 20 MHz		2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 38: 5 MHz		2572.5 (37775)	2595 (38000)	2595 (38000)	2617.5 (38225)
LTE Band 38: 10 MHz		2575 (37800)	2595 (38000)	2595 (38000)	2615 (38200)
LTE Band 38: 15 MHz		2577.5 (37825)	2595 (38000)	2595 (38000)	2612.5 (38175)
LTE Band 38: 20 MHz		2580 (37850)	2595 (38000)	2595 (38000)	2610 (38150)
UE Category		DL UE Cat 20, UL UE Cat 18			
Modulations Supported in UL		QPSK, 16QAM, 64QAM, 256QAM			
The 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 15. It supports carrier aggregation, downlink MIMO, and LAA features as shown in Section 9 and Appendix F. All other uplink communications are identical to the Release 9 specifications. Uplink communications are done on the PCC unless otherwise specified. The following LTE Release 15 Features are not supported: Relay, HetNet, Enhanced eICIC, MDT, eMTC, 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 n71 (665.5 MHz - 695.5 MHz)		
	NR Band n5 (Cell) (826.5 MHz - 846.5 MHz)		
Channel Bandwidths	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz		
	NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz		
Channel Numbers and Frequencies (MHz)	Low	Mid	High
NR Band n71: 5 MHz	665.5 (133100)	680.5 (136100)	695.5 (139100)
NR Band n71: 10 MHz	668 (133600)	680.5 (136100)	693 (138600)
NR Band n71: 15 MHz	670.5 (134100)	680.5 (136100)	690.5 (138100)
NR Band n71: 20 MHz	673 (134600)	680.5 (136100)	688 (137600)
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)
SCS	15 kHz		
Modulations Supported in UL	DFT-s-OFDM: QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: 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		
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations		
LTE Anchor Bands for NR Band n71	LTE Band 66, LTE Band 2		
LTE Anchor Bands for NR Band n5	LTE Band 66, LTE Band 2, LTE Band 30		

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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.

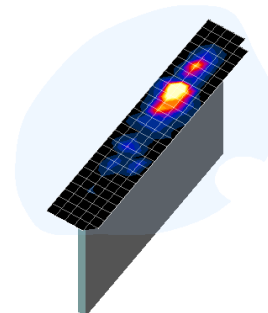


Figure 4-1
Sample SAR Area Scan

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 $\Delta z_{\text{zoom}}(n)$	Graded Grid		
				$\Delta z_{\text{zoom}}(1)^*$	$\Delta z_{\text{zoom}}(n>1)^*$	
≤ 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].

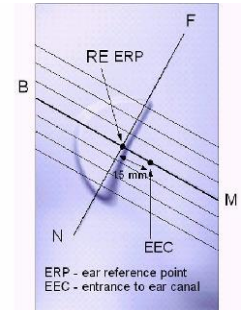


Figure 5-1
Close-Up Side view
of ERP

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

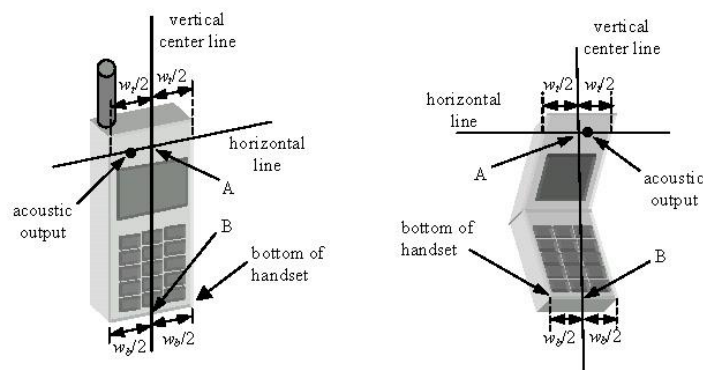


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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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.

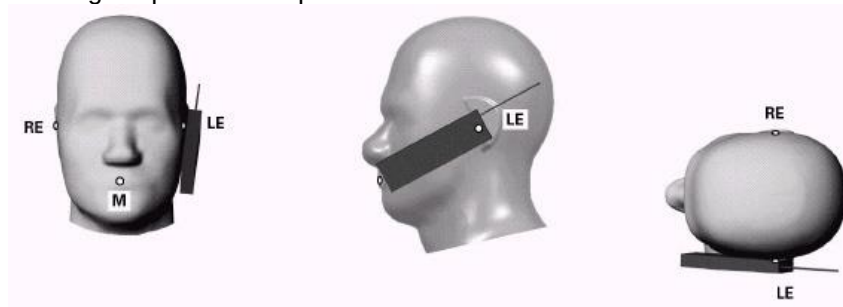


Figure 6-1 Front, Side and Top View of Cheek Position

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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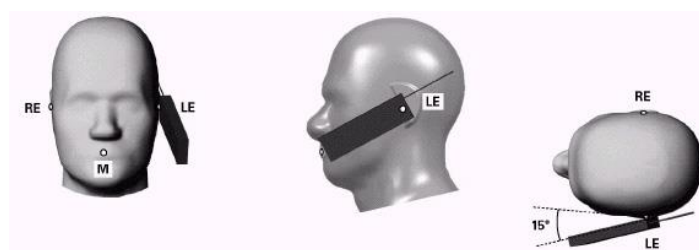


Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position

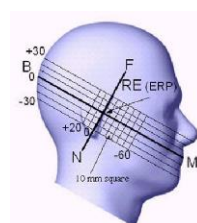


Figure 6-3 Side view w/ relevant markings

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.

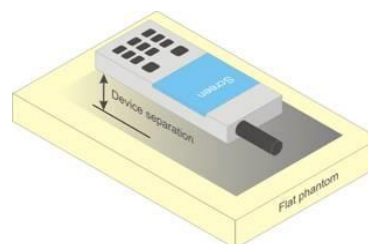


Figure 6-4 Sample Body-Worn Diagram

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

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contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

6.6 Extremity Exposure Configurations

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

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

6.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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 mm or an overall diagonal dimension > 160 mm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that

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

6.9 Proximity Sensor Considerations

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

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a 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 mode determined by the DSSS procedure or initial test configuration, area scans are measured for all

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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 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.

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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	32.99	32.65	31.63	29.33	27.39	26.32	25.02	23.15	22.10
	190	32.80	32.43	31.63	29.64	27.32	26.30	24.97	23.41	22.02
	251	32.75	32.30	31.38	29.43	26.65	26.46	25.23	23.17	21.78
GSM 1900	512	29.01	29.20	27.93	25.11	23.00	25.65	23.49	21.96	20.16
	661	29.09	29.29	27.72	25.55	23.42	25.68	23.66	21.04	19.70
	810	29.09	29.25	27.82	25.37	23.28	25.45	23.63	22.09	20.14

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	23.96	23.62	25.61	25.07	24.38	17.29	19.00	18.89	19.09
	190	23.77	23.40	25.61	25.38	24.31	17.27	18.95	19.15	19.01
	251	23.72	23.27	25.36	25.17	23.64	17.43	19.21	18.91	18.77
GSM 1900	512	19.98	20.17	21.91	20.85	19.99	16.62	17.47	17.70	17.15
	661	20.06	20.26	21.70	21.29	20.41	16.65	17.64	16.78	16.69
	810	20.06	20.22	21.80	21.11	20.27	16.42	17.61	17.83	17.13

GSM 850	Frame Avg. Targets:	23.47	23.47	25.48	25.24	24.49	17.97	18.98	18.74	18.99
GSM 1900		19.97	19.97	20.98	20.74	20.49	16.47	17.48	17.24	17.49

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Table 9-2
Reduced Conducted Power – Hotspot Mode Active

Maximum Burst-Averaged Output Power									
		GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	25.86	24.21	22.80	20.83	25.65	23.49	21.96	20.16
	661	26.25	24.47	23.25	21.23	25.68	23.66	21.04	19.70
	810	26.17	24.21	23.07	20.80	25.45	23.63	22.09	20.14

Calculated Maximum Frame-Averaged Output Power									
		GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	16.83	18.19	18.54	17.82	16.62	17.47	17.70	17.15
	661	17.22	18.45	18.99	18.22	16.65	17.64	16.78	16.69
	810	17.14	18.19	18.81	17.79	16.42	17.61	17.83	17.13

GSM 1900	Frame Avg. Targets:	16.47	17.98	18.24	17.49	16.47	17.48	17.24	17.49
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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	24.63	24.64	24.44	24.40	24.39	24.41	24.43	24.50	24.49	-
99		12.2 kbps AMR	24.47	24.60	24.63	24.31	24.40	24.45	24.36	24.47	24.37	-
6	HSDPA	Subtest 1	23.56	23.57	23.53	23.36	23.38	23.34	23.30	23.39	23.32	0
6		Subtest 2	23.53	23.61	23.55	23.41	23.31	23.37	23.37	23.45	23.36	0
6		Subtest 3	23.09	23.09	23.02	22.89	22.73	22.89	22.89	22.95	22.91	0.5
6		Subtest 4	23.09	23.10	23.07	22.90	22.89	22.87	22.80	22.92	22.83	0.5
6	HSUPA	Subtest 1	23.66	23.56	23.54	23.36	23.34	23.36	23.29	23.35	23.36	0
6		Subtest 2	21.56	21.58	21.53	21.41	21.40	21.37	21.30	21.41	21.35	2
6		Subtest 3	22.58	22.53	22.52	22.37	22.28	22.27	22.25	22.37	22.35	1
6		Subtest 4	21.55	21.58	21.53	21.34	21.35	21.33	21.25	21.39	21.32	2
6		Subtest 5	23.60	23.57	23.57	23.38	23.32	23.36	23.26	23.39	23.34	0
8	DC-HSDPA	Subtest 1	23.56	23.58	23.49	23.34	23.29	23.35	23.28	23.35	23.25	0
8		Subtest 2	23.57	23.55	23.54	23.37	23.35	23.40	23.27	23.31	23.29	0
8		Subtest 3	23.07	23.05	23.01	22.86	22.81	22.87	22.78	22.82	22.81	0.5
8		Subtest 4	23.10	23.06	23.03	22.86	22.94	22.90	22.79	22.87	22.82	0.5

Table 9-4
Reduced Conducted Power – Hotspot 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	19.44	19.34	19.41	18.31	18.45	18.46	-
99		12.2 kbps AMR	19.36	19.31	19.34	18.30	18.44	18.43	-
6	HSDPA	Subtest 1	18.30	18.27	18.28	17.31	17.30	17.21	0
6		Subtest 2	18.31	18.24	18.27	17.27	17.32	17.20	0
6		Subtest 3	17.83	17.73	17.78	16.72	16.79	16.69	0.5
6		Subtest 4	17.80	17.83	17.78	16.75	16.79	16.68	0.5
6	HSUPA	Subtest 1	18.28	18.25	18.28	17.21	17.28	17.16	0
6		Subtest 2	16.25	16.20	16.27	15.17	15.20	15.15	2
6		Subtest 3	17.31	17.23	17.30	16.23	16.28	16.26	1
6		Subtest 4	16.30	16.24	16.30	15.23	15.27	15.26	2
6		Subtest 5	18.32	18.33	18.32	17.28	17.36	17.26	0
8	DC-HSDPA	Subtest 1	18.30	18.37	18.35	17.23	17.32	17.32	0
8		Subtest 2	18.31	18.30	18.31	17.29	17.35	17.32	0
8		Subtest 3	17.81	17.89	17.85	16.78	16.74	16.85	0.5
8		Subtest 4	17.80	17.84	17.85	16.76	16.84	16.86	0.5

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Table 9-5
Reduced Conducted Power – Proximity Sensor and/or Earjack 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	19.44	19.34	19.41	20.33	20.47	20.38	-
99		12.2 kbps AMR	19.36	19.31	19.34	20.42	20.47	20.50	-
6	HSDPA	Subtest 1	18.30	18.27	18.28	19.21	19.29	19.23	0
6		Subtest 2	18.31	18.24	18.27	19.22	19.28	19.25	0
6		Subtest 3	17.83	17.73	17.78	18.78	18.80	18.73	0.5
6		Subtest 4	17.80	17.83	17.78	18.75	18.76	18.71	0.5
6	HSUPA	Subtest 1	18.28	18.25	18.28	19.20	19.25	19.19	0
6		Subtest 2	16.25	16.20	16.27	17.24	17.30	17.25	2
6		Subtest 3	17.31	17.23	17.30	18.23	18.30	18.28	1
6		Subtest 4	16.30	16.24	16.30	17.21	17.30	17.26	2
6		Subtest 5	18.32	18.33	18.32	19.29	19.34	19.33	0
8	DC-HSDPA	Subtest 1	18.30	18.37	18.35	19.31	19.35	19.32	0
8		Subtest 2	18.31	18.30	18.31	19.31	19.38	19.37	0
8		Subtest 3	17.81	17.89	17.85	18.80	18.86	18.90	0.5
8		Subtest 4	17.80	17.84	17.85	18.83	18.84	18.89	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

9.3.1 LTE Band 71

Table 9-6
LTE Band 71 Maximum Conducted Powers - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz) Conducted Power [dBm]		
QPSK	1	0	25.06	0	0
	1	50	25.00		0
	1	99	24.76		0
	50	0	23.95	0-1	1
	50	25	24.11		1
	50	50	24.03		1
	100	0	24.06		1
	1	0	24.51	0-1	1
16QAM	1	50	24.47		1
	1	99	24.30		1
	50	0	23.03	0-2	2
	50	25	23.16		2
	50	50	23.02		2
	100	0	23.01		2
	1	0	22.90	0-2	2
	1	50	22.89		2
64QAM	1	99	22.54		2
	50	0	21.95	0-3	3
	50	25	21.92		3
	50	50	21.69		3
	100	0	21.66		3
	1	0	20.07	0-5	5
	1	50	20.20		5
	1	99	20.16		5
256QAM	50	0	20.01		5
	50	25	20.06		5
	50	50	20.07		5
	100	0	20.08		5

Note: LTE Band 71 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-7
LTE Band 71 Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.17	0	0
	1	36	25.12		0
	1	74	24.99		0
	36	0	24.06	0-1	1
	36	18	24.23		1
	36	37	24.18		1
	75	0	24.12		1
16QAM	1	0	24.40	0-1	1
	1	36	24.33		1
	1	74	24.22		1
	36	0	23.08	0-2	2
	36	18	23.27		2
	36	37	23.21		2
	75	0	23.15		2
64QAM	1	0	23.04	0-2	2
	1	36	23.33		2
	1	74	23.11		2
	36	0	21.75	0-3	3
	36	18	21.84		3
	36	37	21.78		3
	75	0	21.67		3
256QAM	1	0	20.13	0-5	5
	1	36	20.25		5
	1	74	20.37		5
	36	0	20.06		5
	36	18	20.14		5
	36	37	20.11		5
	75	0	20.12		5

Note: LTE Band 71 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-8
LTE Band 71 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			133172 (668.0 MHz)	133297 (680.5 MHz)	133422 (693.0 MHz)			
			Conducted Power [dBm]					
QPSK	1	0	25.05	25.14	24.99	0	0	
	1	25	25.00	24.82	25.05		0	
	1	49	25.09	24.88	24.78		0	
	25	0	24.18	24.11	24.05	0-1	1	
	25	12	24.21	24.17	24.12		1	
	25	25	24.15	24.04	24.07		1	
16QAM	50	0	24.19	24.08	24.12	0-1	1	
	1	0	23.81	24.12	24.11		1	
	1	25	23.84	24.20	24.29		1	
	1	49	23.77	24.10	23.84	0-2	1	
	25	0	23.28	23.01	23.05		2	
	25	12	23.29	23.18	23.21		2	
64QAM	25	25	23.24	23.10	23.19	0-2	2	
	50	0	23.24	23.05	23.14		2	
	1	0	22.97	23.01	23.01		0-2	2
	1	25	23.04	22.98	23.14	2		
	1	49	23.12	23.14	23.17	2		
	25	0	21.85	21.94	21.79	0-3	3	
25	12	21.74	22.04	21.85	3			
25	25	21.88	21.95	21.76	3			
256QAM	50	0	21.74	21.81	21.65	0-3	3	
	1	0	19.95	19.76	19.42		0-5	5
	1	25	20.15	20.04	20.01			5
	1	49	20.12	19.80	19.76	5		
	25	0	20.02	19.86	19.88	5		
	25	12	20.07	19.95	19.91	5		
25	25	20.05	19.89	19.89	5			
50	0	19.98	19.84	19.85		5		

Table 9-9
LTE Band 71 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			133147 (665.5 MHz)	133297 (680.5 MHz)	133447 (695.5 MHz)			
			Conducted Power [dBm]					
QPSK	1	0	25.15	25.17	24.92	0	0	
	1	12	25.47	25.16	24.98		0	
	1	24	25.27	25.12	24.77		0	
	12	0	24.28	24.06	24.01	0-1	1	
	12	6	24.31	24.23	24.18		1	
	12	13	24.28	24.10	24.15		1	
16QAM	25	0	24.33	24.14	24.04	0-1	1	
	1	0	24.30	24.18	24.03		1	
	1	12	24.66	24.56	24.29		1	
	1	24	24.58	24.18	23.83	0-2	1	
	12	0	23.26	23.09	22.97		2	
	12	6	23.44	23.23	23.21		2	
64QAM	12	13	23.32	23.21	23.16	0-2	2	
	25	0	23.31	23.22	23.10		2	
	1	0	23.16	23.19	23.11		2	
	1	12	22.89	23.25	22.74	0-2	2	
	1	24	23.03	23.29	22.97		2	
	12	0	21.77	22.01	22.05		0-3	3
256QAM	12	6	21.84	22.03	21.69	0-3		3
	12	13	21.74	22.00	21.78			3
	25	0	21.69	21.92	21.66		3	
	1	0	20.06	19.88	19.80	0-5	5	
	1	12	20.28	20.03	20.07		5	
	1	24	20.16	20.01	19.89		5	
12	0	20.06	19.94	19.79	5			
12	6	20.12	19.85	19.83	5			
12	13	20.09	19.90	19.91	5			
	25	0	20.05	19.88	19.87		5	

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LTE Band 12

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

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	24.88	0	0
	1	25	24.80		0
	1	49	24.81		0
	25	0	23.71	0-1	1
	25	12	23.87		1
	25	25	23.75		1
	50	0	23.69		1
	50	0	23.69		1
16QAM	1	0	24.06	0-1	1
	1	25	24.00		1
	1	49	23.93		1
	25	0	22.70	0-2	2
	25	12	22.82		2
	25	25	22.82		2
	50	0	22.66		2
	50	0	22.66		2
64QAM	1	0	22.86	0-2	2
	1	25	22.92		2
	1	49	22.66		2
	25	0	21.78	0-3	3
	25	12	21.93		3
	25	25	21.80		3
	50	0	21.65		3
	50	0	21.65		3
256QAM	1	0	19.39	0-5	5
	1	25	19.65		5
	1	49	19.77		5
	25	0	19.49		5
	25	12	19.58		5
	25	25	19.55		5
	50	0	19.44		5
	50	0	19.44		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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Table 9-11
LTE Band 12 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.57	24.62	24.58	0	0
	1	12	24.49	24.74	24.70		0
	1	24	24.70	24.65	24.62		0
	12	0	23.66	23.88	23.62	0-1	1
	12	6	23.72	23.94	23.74		1
	12	13	23.68	23.84	23.67		1
	25	0	23.65	23.86	23.61		1
16QAM	1	0	23.94	24.12	24.06	0-1	1
	1	12	23.75	24.11	23.95		1
	1	24	23.83	24.07	23.91		1
	12	0	22.43	22.68	22.52	0-2	2
	12	6	22.52	22.68	22.56		2
	12	13	22.47	22.57	22.59		2
	25	0	22.54	22.51	22.46		2
64QAM	1	0	22.74	22.79	22.84	0-2	2
	1	12	22.63	22.71	22.76		2
	1	24	22.62	22.59	22.68		2
	12	0	21.51	21.64	21.51	0-3	3
	12	6	21.49	21.59	21.61		3
	12	13	21.58	21.40	21.48		3
	25	0	21.51	21.48	21.49		3
256QAM	1	0	19.75	19.71	19.84	0-5	5
	1	12	19.86	19.80	19.69		5
	1	24	19.60	19.64	19.63		5
	12	0	19.43	19.49	19.49		5
	12	6	19.52	19.57	19.56		5
	12	13	19.45	19.58	19.52		5
	25	0	19.39	19.54	19.48		5

Table 9-12
LTE Band 12 Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.59	24.67	24.63	0	0
	1	7	24.57	24.71	24.70		0
	1	14	24.42	24.62	24.59		0
	8	0	23.58	23.81	23.66	0-1	1
	8	4	23.63	23.66	23.70		1
	8	7	23.57	23.72	23.69		1
	15	0	23.55	23.74	23.61		1
16QAM	1	0	23.71	23.67	23.76	0-1	1
	1	7	23.52	23.86	23.72		1
	1	14	23.76	23.82	23.94		1
	8	0	22.52	22.51	22.67	0-2	2
	8	4	22.65	22.64	22.63		2
	8	7	22.62	22.54	22.54		2
	15	0	22.51	22.56	22.50		2
64QAM	1	0	22.64	22.71	22.73	0-2	2
	1	7	22.75	22.63	22.82		2
	1	14	22.63	22.67	22.64		2
	8	0	21.53	21.56	21.56	0-3	3
	8	4	21.59	21.74	21.58		3
	8	7	21.59	21.58	21.65		3
	15	0	21.54	21.63	21.48		3
256QAM	1	0	19.65	19.83	19.68	0-5	5
	1	7	19.85	19.66	19.78		5
	1	14	19.67	19.84	19.70		5
	8	0	19.54	19.62	19.57		5
	8	4	19.60	19.71	19.66		5
	8	7	19.64	19.58	19.59		5
	15	0	19.50	19.56	19.48		5

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Table 9-13
LTE Band 12 Maximum Conducted Powers -1.4 MHz Bandwidth

LTE Band 12							
1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.48	24.53	24.39	0	0
	1	2	24.56	24.67	24.54		0
	1	5	24.61	24.58	24.58		0
	3	0	24.47	24.56	24.53		0
	3	2	24.54	24.53	24.51		0
	3	3	24.39	24.51	24.44		0
	6	0	23.46	23.60	23.57		0-1
16QAM	1	0	23.61	23.81	23.65	0-1	1
	1	2	23.65	23.69	23.83		1
	1	5	23.59	23.86	23.72		1
	3	0	23.58	23.57	23.55		1
	3	2	23.66	23.62	23.65		1
	3	3	23.51	23.59	23.60		1
	6	0	22.44	22.49	22.51		0-2
64QAM	1	0	22.70	22.54	22.59	0-2	2
	1	2	22.53	22.76	22.71		2
	1	5	22.61	22.72	22.63		2
	3	0	22.51	22.46	22.53		2
	3	2	22.64	22.61	22.64		2
	3	3	22.60	22.75	22.47		2
	6	0	21.64	21.53	21.49		0-3
256QAM	1	0	19.62	19.63	19.48	0-5	5
	1	2	19.46	19.81	19.62		5
	1	5	19.59	19.69	19.59		5
	3	0	19.51	19.57	19.51		5
	3	2	19.55	19.59	19.67		5
	3	3	19.43	19.66	19.58		5
	6	0	19.49	19.52	19.59		5

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LTE Band 13

Table 9-14
LTE Band 13 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	24.50	0	0
	1	25	24.41		0
	1	49	24.30		0
	25	0	23.57	0-1	1
	25	12	23.68		1
	25	25	23.56		1
	50	0	23.53		1
	50	0	23.53		1
16QAM	1	0	23.94	0-1	1
	1	25	23.90		1
	1	49	23.90		1
	25	0	22.56	0-2	2
	25	12	22.67		2
	25	25	22.57		2
	50	0	22.63		2
	50	0	22.63		2
64QAM	1	0	22.44	0-2	2
	1	25	22.77		2
	1	49	22.75		2
	25	0	21.54	0-3	3
	25	12	21.74		3
	25	25	21.57		3
	50	0	21.67		3
	50	0	21.67		3
256QAM	1	0	19.54	0-5	5
	1	25	19.67		5
	1	49	19.27		5
	25	0	19.21		5
	25	12	19.28		5
	25	25	19.19		5
	50	0	19.26		5
	50	0	19.26		5

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Table 9-15
LTE Band 13 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 13 5 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	24.47	0	0
	1	12	24.46		0
	1	24	24.39		0
	12	0	23.61	0-1	1
	12	6	23.69		1
	12	13	23.60		1
	25	0	23.67		1
16QAM	1	0	23.74	0-1	1
	1	12	23.90		1
	1	24	23.70		1
	12	0	22.68	0-2	2
	12	6	22.90		2
	12	13	22.69		2
	25	0	22.73		2
64QAM	1	0	22.87	0-2	2
	1	12	22.82		2
	1	24	22.71		2
	12	0	21.65	0-3	3
	12	6	21.76		3
	12	13	21.71		3
	25	0	21.65		3
256QAM	1	0	19.47	0-5	5
	1	12	19.63		5
	1	24	19.55		5
	12	0	19.23		5
	12	6	19.37		5
	12	13	19.21		5
	25	0	19.13		5

Note: LTE Band 13 at 5 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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LTE Band 14

Table 9-16
LTE Band 14 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	24.40	0	0
	1	25	24.16		0
	1	49	24.24		0
	25	0	23.27	0-1	1
	25	12	23.29		1
	25	25	23.22		1
	50	0	23.25		1
16QAM	1	0	23.62	0-1	1
	1	25	23.40		1
	1	49	23.37		1
	25	0	22.30	0-2	2
	25	12	22.29		2
	25	25	22.26		2
	50	0	22.26		2
64QAM	1	0	22.49	0-2	2
	1	25	22.37		2
	1	49	22.40		2
	25	0	21.25	0-3	3
	25	12	21.28		3
	25	25	21.25		3
	50	0	21.30		3
256QAM	1	0	19.31	0-5	5
	1	25	19.62		5
	1	49	19.51		5
	25	0	19.08		5
	25	12	19.19		5
	25	25	19.02		5
	50	0	19.00		5

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Table 9-17
LTE Band 14 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.39	0	0
	1	12	24.19		0
	1	24	24.18		0
	12	0	23.26	0-1	1
	12	6	23.25		1
	12	13	23.24		1
	25	0	23.34		1
16QAM	1	0	23.47	0-1	1
	1	12	23.54		1
	1	24	23.34		1
	12	0	22.32	0-2	2
	12	6	22.42		2
	12	13	22.33		2
	25	0	22.36		2
64QAM	1	0	22.52	0-2	2
	1	12	22.51		2
	1	24	22.60		2
	12	0	21.35	0-3	3
	12	6	21.26		3
	12	13	21.31		3
	25	0	21.33		3
256QAM	1	0	19.22	0-5	5
	1	12	19.58		5
	1	24	19.31		5
	12	0	19.19		5
	12	6	19.16		5
	12	13	19.04		5
	25	0	19.08		5

Note: LTE Band 14 at 5 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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LTE Band 26 (Cell)

Table 9-18
LTE Band 26 (Cell) Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 26865 (831.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	25.01	0	0
	1	36	25.00		0
	1	74	24.80		0
	36	0	24.17	0-1	1
	36	18	24.09		1
	36	37	24.05		1
	75	0	24.00		1
16QAM	1	0	24.54	0-1	1
	1	36	24.52		1
	1	74	24.30		1
	36	0	23.18	0-2	2
	36	18	23.13		2
	36	37	23.07		2
	75	0	23.05		2
64QAM	1	0	23.05	0-2	2
	1	36	23.02		2
	1	74	22.82		2
	36	0	22.15	0-3	3
	36	18	22.14		3
	36	37	22.00		3
	75	0	22.03		3
256QAM	1	0	20.11	0-5	5
	1	36	20.06		5
	1	74	20.02		5
	36	0	19.77		5
	36	18	19.79		5
	36	37	19.81		5
	75	0	19.73		5

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

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Table 9-19
LTE Band 26 (Cell) Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740	26865	26990		
			(819.0 MHz)	(831.5 MHz)	(844.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	24.99	25.09	25.08	0	0
	1	25	24.91	25.05	25.01		0
	1	49	24.95	24.98	24.99		0
	25	0	24.04	24.04	24.02	0-1	1
	25	12	24.22	24.16	24.11		1
	25	25	24.11	24.12	24.09		1
	50	0	24.15	24.06	24.02		1
16QAM	1	0	24.57	24.12	24.16	0-1	1
	1	25	24.42	24.27	24.29		1
	1	49	24.24	24.15	24.00		1
	25	0	23.26	23.17	23.10	0-2	2
	25	12	23.20	23.16	23.27		2
	25	25	23.09	23.11	23.17		2
	50	0	23.06	23.11	23.02		2
64QAM	1	0	23.04	23.07	23.01	0-2	2
	1	25	23.19	23.05	22.99		2
	1	49	23.14	23.13	22.65		2
	25	0	22.07	22.11	21.99	0-3	3
	25	12	22.28	22.17	22.09		3
	25	25	22.16	22.17	22.08		3
	50	0	22.09	22.07	21.96		3
256QAM	1	0	20.00	19.80	19.81	0-5	5
	1	25	20.11	20.13	20.08		5
	1	49	19.96	20.09	19.88		5
	25	0	19.93	20.06	19.96		5
	25	12	20.04	20.02	20.06		5
	25	25	19.95	20.12	19.99		5
	50	0	20.01	19.99	19.96		5

Table 9-20
LTE Band 26 (Cell) Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26715 (816.5 MHz)	26865 (831.5 MHz)	27015 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.82	25.03	24.86	0	0
	1	12	25.00	25.11	24.83		0
	1	24	24.98	25.07	24.84		0
	12	0	23.97	24.03	24.08	0-1	1
	12	6	24.06	24.10	24.04		1
	12	13	24.08	24.08	24.05		1
	25	0	24.03	24.08	24.00	1	
16QAM	1	0	23.96	24.30	24.14	0-1	1
	1	12	24.05	24.35	24.24		1
	1	24	24.06	24.36	24.07		1
	12	0	23.01	23.09	22.98	0-2	2
	12	6	23.10	23.16	23.14		2
	12	13	23.13	23.11	23.08		2
	25	0	23.05	23.03	23.00	2	
64QAM	1	0	23.21	23.12	23.09	0-2	2
	1	12	23.34	23.27	23.12		2
	1	24	23.28	23.18	23.00		2
	12	0	22.05	22.11	22.06	0-3	3
	12	6	22.16	22.13	22.10		3
	12	13	22.11	22.12	22.03		3
	25	0	22.04	22.16	22.02	3	
256QAM	1	0	20.03	20.10	19.99	0-5	5
	1	12	20.17	20.14	20.13		5
	1	24	20.13	20.17	19.96		5
	12	0	19.98	20.04	19.99		5
	12	6	20.05	20.08	20.04		5
	12	13	20.07	20.04	20.07		5
	25	0	20.06	20.01	19.97		5

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Table 9-21
LTE Band 26 (Cell) Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26705 (815.5 MHz)	26865 (831.5 MHz)	27025 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.81	24.93	24.94	0	0
	1	7	24.93	24.94	24.86		0
	1	14	24.87	25.01	24.86		0
	8	0	23.97	23.99	24.02	0-1	1
	8	4	24.07	24.08	24.09		1
	8	7	24.00	24.07	24.01		1
	15	0	24.08	24.00	24.02		1
16QAM	1	0	24.06	23.80	24.33	0-1	1
	1	7	24.10	23.75	24.37		1
	1	14	24.14	23.79	24.25		1
	8	0	22.89	22.93	23.11	0-2	2
	8	4	22.96	22.99	23.14		2
	8	7	22.93	22.97	23.12		2
	15	0	23.14	23.04	23.11		2
64QAM	1	0	22.98	22.86	23.19	0-2	2
	1	7	23.04	22.92	23.14		2
	1	14	23.01	22.95	23.12		2
	8	0	22.02	22.12	22.16	0-3	3
	8	4	22.09	22.23	22.21		3
	8	7	22.08	22.22	22.14		3
	15	0	22.15	22.12	22.07		3
256QAM	1	0	20.04	20.08	20.07	0-5	5
	1	7	20.11	20.18	19.98		5
	1	14	19.97	20.15	19.97		5
	8	0	19.91	20.09	19.99		5
	8	4	19.93	19.98	19.97		5
	8	7	19.91	20.00	20.04		5
	15	0	19.90	20.06	19.94		5

Table 9-22
LTE Band 26 (Cell) Maximum Conducted Powers -1.4 MHz Bandwidth

LTE Band 26 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26697 (814.7 MHz)	26865 (831.5 MHz)	27033 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.77	24.84	24.95	0	0
	1	2	24.83	24.95	25.03		0
	1	5	24.80	24.90	24.96		0
	3	0	24.88	24.88	24.86		0
	3	2	24.95	24.98	24.92		0
	3	3	24.89	24.92	24.86		0
	6	0	23.97	23.92	23.95	0-1	1
16QAM	1	0	24.05	23.67	24.01	0-1	1
	1	2	24.09	23.83	23.93		1
	1	5	23.97	23.78	23.98		1
	3	0	23.95	24.00	23.94		1
	3	2	24.01	23.91	24.03		1
	3	3	23.89	23.97	23.99		1
	6	0	23.00	22.90	22.90	0-2	2
64QAM	1	0	22.97	22.83	23.02	0-2	2
	1	2	23.01	22.94	23.11		2
	1	5	22.95	22.84	23.07		2
	3	0	22.90	23.08	22.96		2
	3	2	22.98	23.10	23.07		2
	3	3	22.93	23.14	22.96		2
	6	0	22.00	21.96	21.99	0-3	3
256QAM	1	0	19.98	19.96	20.03	0-5	5
	1	2	20.03	20.07	20.06		5
	1	5	19.98	20.03	20.03		5
	3	0	19.94	19.97	19.88		5
	3	2	19.88	20.04	19.96		5
	3	3	19.99	19.97	19.97		5
	6	0	19.97	19.89	19.88	5	

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LTE Band 5 (Cell)

Table 9-23
LTE Band 5 (Cell) Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.80	0	0
	1	25	24.62		0
	1	49	24.71		0
	25	0	23.75	0-1	1
	25	12	23.82		1
	25	25	23.81		1
	50	0	23.80		1
	1	0	24.23		1
16QAM	1	25	24.22	0-1	1
	1	49	24.09		1
	25	0	22.75		2
	25	12	22.79	0-2	2
	25	25	22.80		2
	50	0	22.84		2
	1	0	23.03		2
	1	25	22.77		2
64QAM	1	49	22.78	0-2	2
	25	0	21.82		3
	25	12	21.72	0-3	3
	25	25	21.60		3
	50	0	21.71		3
	1	0	19.63		5
	1	25	19.96	0-5	5
	1	49	19.78		5
256QAM	25	0	19.71		5
	25	12	19.84		5
	25	25	19.79		5
	50	0	19.68		5

Note: LTE Band 5 (Cell) at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-24
LTE Band 5 (Cell) Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.65	24.66	24.55	0	0
	1	12	24.77	24.72	24.64		0
	1	24	24.68	24.61	24.52		0
	12	0	23.76	23.70	23.68	0-1	1
	12	6	23.85	23.75	23.77		1
	12	13	23.78	23.77	23.79		1
	25	0	23.80	23.76	23.71		1
16QAM	1	0	23.97	24.07	23.92	0-1	1
	1	12	24.02	24.24	24.20		1
	1	24	24.05	24.16	24.07		1
	12	0	22.82	22.77	22.73	0-2	2
	12	6	22.87	22.82	22.75		2
	12	13	22.74	22.81	22.78		2
	25	0	22.79	22.76	22.64		2
64QAM	1	0	22.84	22.95	22.84	0-2	2
	1	12	22.91	22.99	22.91		2
	1	24	22.93	22.81	22.82		2
	12	0	21.81	21.79	21.76	0-3	3
	12	6	21.87	21.82	21.73		3
	12	13	21.83	21.86	21.71		3
	25	0	21.84	21.71	21.70		3
256QAM	1	0	19.82	19.78	19.81	0-5	5
	1	12	19.96	19.84	19.89		5
	1	24	19.78	19.88	19.77		5
	12	0	19.77	19.75	19.74		5
	12	6	19.82	19.80	19.71		5
	12	13	19.75	19.76	19.76		5
	25	0	19.74	19.77	19.72		5

Table 9-25
LTE Band 5 (Cell) Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.65	24.67	24.53	0	0
	1	7	24.61	24.71	24.65		0
	1	14	24.59	24.73	24.67		0
	8	0	23.72	23.71	23.67	0-1	1
	8	4	23.78	23.78	23.75		1
	8	7	23.79	23.77	23.81		1
	15	0	23.78	23.67	23.78		1
16QAM	1	0	23.97	24.08	23.95	0-1	1
	1	7	24.06	24.15	24.11		1
	1	14	24.11	24.06	23.96		1
	8	0	22.84	22.81	22.83	0-2	2
	8	4	22.89	22.93	22.89		2
	8	7	22.91	22.87	22.86		2
	15	0	22.81	22.70	22.72		2
64QAM	1	0	22.93	22.86	22.90	0-2	2
	1	7	23.01	22.92	22.84		2
	1	14	22.96	22.89	22.86		2
	8	0	21.86	21.87	21.78	0-3	3
	8	4	21.85	21.80	21.87		3
	8	7	21.71	21.74	21.74		3
	15	0	21.83	21.75	21.79		3
256QAM	1	0	19.77	19.82	19.74	0-5	5
	1	7	19.84	19.85	19.81		5
	1	14	19.79	19.92	19.88		5
	8	0	19.72	19.76	19.71		5
	8	4	19.78	19.83	19.80		5
	8	7	19.75	19.81	19.73		5
	15	0	19.74	19.75	19.71		5

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Table 9-26
LTE Band 5 (Cell) Maximum Conducted Powers -1.4 MHz Bandwidth

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.51	24.57	24.63	0	0
	1	2	24.62	24.69	24.63		0
	1	5	24.64	24.63	24.66		0
	3	0	24.61	24.53	24.55		0
	3	2	24.65	24.67	24.56		0
	3	3	24.58	24.62	24.52		0
	6	0	23.74	23.74	23.65		1
16QAM	1	0	23.74	23.89	24.01	0-1	1
	1	2	23.94	24.05	24.15		1
	1	5	24.00	24.02	24.06		1
	3	0	23.89	23.78	23.70		1
	3	2	23.88	23.87	23.89		1
	3	3	23.97	23.76	23.72		1
	6	0	22.85	22.83	22.78		2
64QAM	1	0	22.78	22.85	22.83	0-2	2
	1	2	23.05	22.94	22.77		2
	1	5	22.88	22.82	22.65		2
	3	0	22.81	22.73	22.68		2
	3	2	22.86	22.84	22.76		2
	3	3	22.80	22.76	22.66		2
	6	0	21.77	21.72	21.70		3
256QAM	1	0	19.66	19.86	19.71	0-5	5
	1	2	19.85	20.00	19.88		5
	1	5	19.78	19.91	19.67		5
	3	0	19.77	19.79	19.84		5
	3	2	19.85	19.87	19.77		5
	3	3	19.73	19.70	19.73		5
	6	0	19.61	19.76	19.65		5

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LTE Band 66 (AWS)

Table 9-27

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	24.26	24.58	23.97	0	0
	1	50	24.11	24.12	24.20		0
	1	99	24.00	24.17	24.29		0
	50	0	23.76	23.66	23.29	0-1	1
	50	25	23.41	23.81	23.71		1
	50	50	23.13	23.61	23.80		1
16QAM	100	0	23.41	23.64	23.59	0-1	1
	1	0	23.86	23.87	23.26		1
	1	50	23.52	24.00	23.77		1
	1	99	23.39	23.64	23.67	0-2	1
	50	0	22.78	22.69	22.41		2
	50	25	22.58	22.87	22.81		2
64QAM	50	50	22.31	22.67	22.69	0-2	2
	100	0	22.61	22.67	22.73		2
	1	0	22.48	22.19	21.90		2
	1	50	22.12	22.83	22.36	0-3	2
	1	99	21.95	22.05	22.19		2
	50	0	21.42	21.71	20.92		3
256QAM	50	25	21.06	21.81	21.21	0-5	3
	50	50	20.92	21.69	21.49		3
	100	0	21.08	21.68	21.12		3
	1	0	19.52	19.64	19.65	0-5	5
	1	50	19.79	19.96	19.61		5
	1	99	19.73	19.51	19.39		5
50	0	19.86	19.62	19.73	5		
50	25	19.91	19.80	19.79	5		
50	50	19.80	19.64	19.69	5		
	100	0	19.77	19.61	19.71	5	

Table 9-28

LTE Band 66 (AWS) Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.28	24.18	23.65	0	0
	1	36	23.92	24.38	24.20		0
	1	74	23.56	24.22	23.77		0
	36	0	23.40	23.64	23.23	0-1	1
	36	18	23.18	23.61	23.53		1
	36	37	22.96	23.52	23.51		1
	75	0	23.15	23.50	23.02		1
16QAM	1	0	23.51	23.81	23.23	0-1	1
	1	36	23.35	24.00	23.65		1
	1	74	23.15	23.64	23.18		1
	36	0	22.54	22.68	22.36	0-2	2
	36	18	22.37	22.69	22.63		2
	36	37	22.11	22.51	22.64		2
	75	0	22.30	22.55	22.48		2
64QAM	1	0	22.08	22.25	21.65	0-2	2
	1	36	21.85	22.52	22.14		2
	1	74	21.58	22.05	21.65		2
	36	0	21.03	21.48	20.77	0-3	3
	36	18	20.82	21.59	21.05		3
	36	37	20.59	21.46	21.23		3
	75	0	20.73	21.42	20.87		3
256QAM	1	0	19.54	19.60	19.62	0-5	5
	1	36	19.56	19.81	19.54		5
	1	74	19.40	19.47	19.33		5
	36	0	19.42	19.59	19.61		5
	36	18	19.47	19.62	19.64		5
	36	37	19.44	19.57	19.54		5
	75	0	19.42	19.48	19.49		5

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Table 9-29
LTE Band 66 (AWS) Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.34	24.01	23.86	0	0
	1	25	24.10	24.34	24.17		0
	1	49	23.74	24.04	23.72		0
	25	0	23.44	23.39	23.34	0-1	1
	25	12	23.33	23.48	23.42		1
	25	25	23.15	23.30	23.31		1
16QAM	50	0	23.26	23.33	23.40	1	
	1	0	23.51	23.65	23.61	0-1	1
	1	25	23.51	23.97	23.62		1
	1	49	23.25	23.84	23.01		1
	25	0	22.45	22.40	22.33	0-2	2
	25	12	22.51	22.42	22.42		2
64QAM	25	25	22.40	22.37	22.31		2
	50	0	22.46	22.42	22.29	2	
	1	0	22.00	22.24	21.79	0-2	2
	1	25	21.92	22.57	22.16		2
	1	49	21.51	22.20	21.63		2
	25	0	21.06	21.45	21.05	0-3	3
25	12	21.00	21.56	21.26	3		
25	25	20.93	21.34	21.04	3		
256QAM	50	0	20.93	21.30	21.04	3	
	1	0	19.38	19.34	19.27	0-5	5
	1	25	19.35	19.43	19.52		5
	1	49	19.35	19.31	19.20		5
	25	0	19.38	19.38	19.35		5
	25	12	19.49	19.39	19.41		5
25	25	19.33	19.19	19.29	5		
	50	0	19.40	19.32	19.41		5

Table 9-30
LTE Band 66 (AWS) Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 66 (AWS)								
5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)			
			Conducted Power [dBm]					
QPSK	1	0	24.34	24.40	24.26	0	0	
	1	12	24.31	24.33	24.05		0	
	1	24	24.25	24.31	23.77		0	
	12	0	23.57	23.50	23.42	0-1	1	
	12	6	23.59	23.54	23.39		1	
	12	13	23.48	23.45	23.21		1	
16QAM	25	0	23.54	23.47	23.38	0-1	1	
	1	0	23.68	23.42	23.73		1	
	1	12	23.74	23.47	23.50		1	
	1	24	23.53	23.72	23.11	0-2	1	
	12	0	22.66	22.59	22.43		2	
	12	6	22.63	22.61	22.47		2	
64QAM	12	13	22.56	22.53	22.44	0-2	2	
	25	0	22.53	22.56	22.40		2	
	1	0	22.18	22.47	22.25		0-2	2
	1	12	22.13	22.42	22.07	2		
	1	24	22.05	22.56	21.75	0-3		2
	12	0	21.28	21.69	21.26		3	
256QAM	12	6	21.25	21.68	21.23		0-3	3
	12	13	21.19	21.48	21.04	3		
	25	0	21.17	21.45	21.11	3		
	256QAM	1	0	19.70	19.55	19.59	0-5	5
		1	12	19.69	19.67	19.63		5
		1	24	19.74	19.71	19.45		5
12		0	19.63	19.50	19.41	5		
12		6	19.62	19.52	19.43	5		
12		13	19.51	19.48	19.32	5		
25	0	19.47	19.51	19.42		5		

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Table 9-31
LTE Band 66 (AWS) Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.27	24.27	24.25	0	0
	1	7	24.29	24.22	23.82		0
	1	14	24.17	24.09	23.76		0
	8	0	23.58	23.49	23.29	0-1	1
	8	4	23.55	23.48	23.20		1
	8	7	23.51	23.37	23.04		1
	15	0	23.40	23.44	23.16		1
16QAM	1	0	23.75	23.97	23.48	0-1	1
	1	7	23.46	23.48	23.36		1
	1	14	23.66	23.76	23.03		1
	8	0	22.61	22.50	22.41	0-2	2
	8	4	22.60	22.54	22.40		2
	8	7	22.50	22.53	22.33		2
	15	0	22.51	22.49	22.31		2
64QAM	1	0	21.95	22.61	22.02	0-2	2
	1	7	22.19	22.76	21.85		2
	1	14	22.25	22.56	21.69		2
	8	0	21.27	21.56	21.03	0-3	3
	8	4	21.27	21.43	20.99		3
	8	7	21.24	21.46	20.88		3
	15	0	21.30	21.45	20.99		3
256QAM	1	0	19.64	19.70	19.65	0-5	5
	1	7	19.63	19.63	19.34		5
	1	14	19.73	19.43	19.51		5
	8	0	19.45	19.51	19.41		5
	8	4	19.39	19.49	19.30		5
	8	7	19.47	19.38	19.33		5
	15	0	19.52	19.51	19.42		5

Table 9-32
LTE Band 66 (AWS) Maximum Conducted Powers -1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.37	24.22	23.67	0	0
	1	2	24.41	24.23	23.62		0
	1	5	24.25	24.14	23.57		0
	3	0	24.31	24.25	23.65		0
	3	2	24.38	24.27	23.69		0
	3	3	24.31	24.26	23.64		0
	6	0	23.39	23.26	22.99		0-1
16QAM	1	0	23.42	23.41	23.28	0-1	1
	1	2	23.67	23.36	23.31		1
	1	5	23.35	23.37	23.23		1
	3	0	23.56	23.52	23.06		1
	3	2	23.55	23.42	23.08		1
	3	3	23.51	23.52	23.00		1
	6	0	22.53	22.34	22.24		0-2
64QAM	1	0	22.34	22.56	21.95	0-2	2
	1	2	22.22	22.58	21.74		2
	1	5	22.16	22.62	21.62		2
	3	0	22.09	22.48	21.69		2
	3	2	22.19	22.50	21.64		2
	3	3	22.19	22.21	21.65		2
	6	0	21.33	21.35	20.87		0-3
256QAM	1	0	19.55	19.42	19.46	0-5	5
	1	2	19.54	19.44	19.49		5
	1	5	19.44	19.34	19.50		5
	3	0	19.59	19.49	19.41		5
	3	2	19.45	19.45	19.37		5
	3	3	19.33	19.32	19.36		5
	6	0	19.37	19.26	19.12		5

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Table 9-33

LTE Band 66 (AWS) Reduced Conducted Powers - 20 MHz Bandwidth – Hotspot/Proximity Sensor and/or Earjack Active

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	19.78	19.80	19.97	0	0	
	1	50	19.84	19.98	19.88		0	
	1	99	19.66	19.75	19.80		0	
	50	0	20.13	20.03	20.08	0-1	0	
	50	25	20.13	20.16	20.11		0	
	50	50	20.14	19.91	19.95		0	
16QAM	100	0	19.78	19.95	19.91	0-1	0	
	1	0	20.11	20.08	20.30		0	
	1	50	20.30	20.35	20.22		0	
	1	99	20.05	20.01	20.28	0-2	0	
	50	0	20.12	20.09	20.06		0	
	50	25	20.19	20.16	20.08		0	
64QAM	50	50	20.00	19.96	19.98	0-2	0	
	100	0	20.08	20.07	20.01		0	
	1	0	19.96	20.05	20.29	0-2	0	
	1	50	20.25	20.26	20.26		0	
	1	99	20.02	19.91	20.02		0	
	50	0	20.13	20.11	19.59	0-3	0	
50	25	20.13	20.24	20.15	0			
50	50	19.83	19.99	19.97	0			
256QAM	100	0	20.06	20.08	20.11	0-3	0	
	1	0	19.22	19.25	19.26		0-5	0.5
	1	50	19.38	19.36	19.40			0.5
	1	99	19.25	19.22	19.18	0.5		
	50	0	19.41	19.45	19.45	0.5		
	50	25	19.55	19.59	19.53	0.5		
50	50	19.43	19.39	19.36	0.5			
	100	0	19.47	19.37	19.38	0.5		

Table 9-34

LTE Band 66 (AWS) Reduced Conducted Powers - 15 MHz Bandwidth - Hotspot/Proximity Sensor and/or Earjack Active

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.87	19.90	19.93	0	0
	1	36	20.05	20.08	19.93		0
	1	74	19.79	19.85	19.73		0
	36	0	20.09	20.07	20.11	0-1	0
	36	18	20.09	20.20	20.16		0
	36	37	20.01	20.11	20.02		0
	75	0	20.06	20.00	20.06		0
16QAM	1	0	19.93	19.77	20.22	0-1	0
	1	36	20.10	19.95	20.24		0
	1	74	19.85	19.67	20.09		0
	36	0	20.16	20.09	20.23	0-2	0
	36	18	20.22	20.27	20.20		0
	36	37	20.10	20.14	20.07		0
	75	0	20.05	20.06	20.13		0
64QAM	1	0	20.32	19.80	19.83	0-2	0
	1	36	20.28	20.10	19.81		0
	1	74	20.34	19.85	20.42		0
	36	0	20.15	20.18	20.00	0-3	0
	36	18	20.10	20.30	20.26		0
	36	37	19.73	20.22	20.20		0
	75	0	20.02	20.09	20.04		0
256QAM	1	0	19.36	19.35	19.39	0-5	0.5
	1	36	19.42	19.58	19.42		0.5
	1	74	19.26	19.43	19.33		0.5
	36	0	19.52	19.41	19.45		0.5
	36	18	19.56	19.57	19.42		0.5
	36	37	19.52	19.53	19.43		0.5
	75	0	19.51	19.43	19.47		0.5

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Table 9-35
LTE Band 66 (AWS) Reduced Conducted Powers - 10 MHz Bandwidth - Hotspot/Proximity Sensor and/or Earjack Active

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.59	19.72	19.94	0	0
	1	25	19.80	19.89	20.02		0
	1	49	19.59	19.65	19.83		0
	25	0	20.05	20.07	20.06	0-1	0
	25	12	20.12	20.19	20.09		0
	25	25	20.02	20.05	20.00		0
	50	0	20.07	20.13	20.03		0
16QAM	1	0	20.07	19.69	20.05	0-1	0
	1	25	20.25	19.82	20.23		0
	1	49	20.08	19.57	20.01		0
	25	0	20.07	20.13	20.12	0-2	0
	25	12	20.18	20.16	20.12		0
	25	25	20.07	20.13	20.05		0
	50	0	20.07	20.16	20.12		0
64QAM	1	0	19.63	19.67	19.68	0-2	0
	1	25	20.02	19.85	19.75		0
	1	49	19.68	19.64	19.66		0
	25	0	20.20	20.20	20.07	0-3	0
	25	12	20.31	20.27	20.19		0
	25	25	20.20	20.19	20.07		0
	50	0	20.09	20.16	20.08		0
256QAM	1	0	19.20	19.25	19.22	0-5	0.5
	1	25	19.47	19.48	19.41		0.5
	1	49	19.18	19.24	19.22		0.5
	25	0	19.33	19.35	19.28		0.5
	25	12	19.38	19.41	19.26		0.5
	25	25	19.19	19.28	19.24		0.5
	50	0	19.27	19.27	19.26		0.5

Table 9-36
LTE Band 66 (AWS) Reduced Conducted Powers - 5 MHz Bandwidth - Hotspot/Proximity Sensor and/or Earjack Active

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.83	20.06	19.76	0	0
	1	12	20.01	20.20	19.87		0
	1	24	19.84	20.06	19.73		0
	12	0	19.98	20.04	19.99	0-1	0
	12	6	20.09	20.19	20.02		0
	12	13	20.00	20.08	19.98		0
	25	0	20.01	20.14	20.01		0
16QAM	1	0	20.00	20.40	20.11	0-1	0
	1	12	20.23	20.32	20.28		0
	1	24	20.06	20.37	20.05		0
	12	0	20.06	20.10	20.09	0-2	0
	12	6	20.14	20.26	20.27		0
	12	13	20.09	20.10	20.09		0
	25	0	20.06	20.09	20.05		0
64QAM	1	0	20.27	20.26	19.86	0-2	0
	1	12	20.42	20.29	19.89		0
	1	24	20.26	20.14	19.85		0
	12	0	20.08	20.12	20.03	0-3	0
	12	6	20.12	20.27	20.12		0
	12	13	20.10	20.15	20.02		0
	25	0	20.02	20.21	20.01		0
256QAM	1	0	19.51	19.47	19.44	0-5	0.5
	1	12	19.35	19.50	19.39		0.5
	1	24	19.49	19.58	19.25		0.5
	12	0	19.46	19.42	19.33		0.5
	12	6	19.43	19.45	19.28		0.5
	12	13	19.37	19.37	19.25		0.5
	25	0	19.38	19.35	19.21		0.5

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Table 9-37
LTE Band 66 (AWS) Reduced Conducted Powers - 3 MHz Bandwidth - Hotspot/Proximity Sensor and/or Earjack Active

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.85	19.99	19.94	0	0
	1	7	19.73	19.99	19.77		0
	1	14	19.84	20.05	19.91		0
	8	0	20.01	20.13	20.04	0-1	0
	8	4	20.07	20.01	20.09		0
	8	7	19.99	20.17	20.02		0
	15	0	20.05	20.10	20.06		0
16QAM	1	0	20.14	19.82	20.33	0-1	0
	1	7	20.21	19.96	20.15		0
	1	14	20.22	19.82	20.21		0
	8	0	20.01	19.88	20.06	0-2	0
	8	4	19.94	20.14	20.12		0
	8	7	19.96	19.88	20.02		0
	15	0	20.16	20.09	20.05		0
64QAM	1	0	19.98	19.93	20.12	0-2	0
	1	7	19.91	19.94	20.22		0
	1	14	19.94	19.95	20.19		0
	8	0	20.16	20.18	20.06	0-3	0
	8	4	20.00	20.25	20.14		0
	8	7	20.17	20.20	20.09		0
	15	0	20.05	20.24	20.17		0
256QAM	1	0	19.55	19.42	19.45	0-5	0.5
	1	7	19.42	19.46	19.37		0.5
	1	14	19.51	19.45	19.39		0.5
	8	0	19.44	19.37	19.29		0.5
	8	4	19.46	19.42	19.33		0.5
	8	7	19.39	19.34	19.22		0.5
	15	0	19.41	19.41	19.32		0.5

Table 9-38
LTE Band 66 (AWS) Reduced Conducted Powers -1.4 MHz Bandwidth - Hotspot/Proximity Sensor and/or Earjack Active

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.98	19.83	19.82	0	0
	1	2	20.13	19.91	19.85		0
	1	5	19.96	19.89	19.83		0
	3	0	19.92	19.80	20.06		0
	3	2	20.08	19.93	20.05		0
	3	3	19.95	19.87	20.08		0
	6	0	20.03	20.11	20.00		0
16QAM	1	0	20.12	19.65	20.13	0-1	0
	1	2	20.09	19.67	20.29		0
	1	5	20.17	19.74	20.11		0
	3	0	20.25	20.18	20.12		0
	3	2	20.27	20.24	20.22		0
	3	3	20.22	20.24	20.18		0
	6	0	20.17	20.01	20.01		0
64QAM	1	0	20.25	19.75	20.39	0-2	0
	1	2	20.29	19.77	20.34		0
	1	5	20.44	19.71	20.27		0
	3	0	19.98	20.19	20.00		0
	3	2	19.90	20.26	20.01		0
	3	3	19.97	20.20	20.12		0
	6	0	20.01	20.03	19.96		0
256QAM	1	0	19.27	19.37	19.28	0-3	0
	1	2	19.42	19.45	19.42		0.5
	1	5	19.41	19.38	19.22		0.5
	3	0	19.41	19.42	19.35		0.5
	3	2	19.52	19.50	19.42		0.5
	3	3	19.47	19.47	19.34		0.5
	6	0	19.36	19.35	19.24		0.5

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Table 9-39
LTE Band 66 (AWS) Reduced Conducted Powers - 20 MHz Bandwidth – 5G NR Active and Hotspot/Proximity Sensor and/or Earjack Active

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	19.36	19.22	19.21	0	0
	1	50	19.37	19.19	19.26		0
	1	99	19.32	19.12	19.28		0
	50	0	19.38	19.18	19.24	0-1	0
	50	25	19.40	19.16	19.19		0
	50	50	19.32	19.19	19.23		0
	100	0	19.30	19.24	19.25	0	
16QAM	1	0	19.12	19.02	19.23	0-1	0
	1	50	19.33	19.10	19.21		0
	1	99	19.20	19.07	19.20		0
	50	0	19.05	18.91	18.92	0-2	0
	50	25	19.05	19.14	19.01		0
	50	50	18.99	18.88	18.85		0
	100	0	18.95	18.95	18.91	0	
64QAM	1	0	19.12	18.89	19.36	0-2	0
	1	50	19.26	19.02	19.31		0
	1	99	19.20	18.89	19.23		0
	50	0	19.03	18.95	18.97	0-3	0
	50	25	19.02	19.04	18.91		0
	50	50	18.93	18.85	18.82		0
	100	0	18.92	18.84	18.86	0	
256QAM	1	0	18.80	18.74	18.79	0-5	0
	1	50	19.02	19.03	18.91		0
	1	99	18.80	18.74	18.53		0
	50	0	19.17	19.06	18.93		0
	50	25	19.17	19.17	19.06		0
	50	50	19.03	19.05	18.96		0
	100	0	19.02	19.02	19.00		0

Table 9-40
LTE Band 66 (AWS) Reduced Conducted Powers - 15 MHz Bandwidth – 5G NR Active and Hotspot/Proximity Sensor and/or Earjack Active

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.05	19.30	19.33	0	0
	1	36	19.03	19.29	19.34		0
	1	74	18.97	19.28	19.32		0
	36	0	19.26	19.29	19.35	0-1	0
	36	18	19.29	19.32	19.30		0
	36	37	19.29	19.27	19.27		0
	75	0	19.25	19.30	19.33		0
16QAM	1	0	19.49	19.29	19.33	0-1	0
	1	36	19.50	19.30	19.34		0
	1	74	19.50	19.26	19.28		0
	36	0	19.45	19.28	19.33	0-2	0
	36	18	19.36	19.30	19.27		0
	36	37	19.37	19.29	19.25		0
	75	0	19.30	19.32	19.32		0
64QAM	1	0	19.20	19.33	19.33	0-2	0
	1	36	19.21	19.30	19.26		0
	1	74	19.28	19.30	19.34		0
	36	0	19.29	19.30	19.32	0-3	0
	36	18	19.36	19.35	19.32		0
	36	37	19.37	19.29	19.25		0
	75	0	19.35	19.30	19.12		0
256QAM	1	0	19.11	19.08	19.04	0-5	0
	1	36	19.29	19.06	19.05		0
	1	74	19.29	19.05	19.03		0
	36	0	19.27	19.14	18.97		0
	36	18	19.22	19.17	19.12		0
	36	37	19.21	19.21	19.16		0
	75	0	19.12	19.21	19.10		0

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Table 9-41
LTE Band 66 (AWS) Reduced Conducted Powers - 10 MHz Bandwidth – 5G NR Active and Hotspot/Proximity Sensor and/or Earjack Active

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.71	18.63	19.16	0	0
	1	25	18.99	18.84	19.16		0
	1	49	18.84	18.68	19.14		0
	25	0	18.95	19.03	19.15	0-1	0
	25	12	18.96	19.07	19.15		0
	25	25	19.02	19.04	19.17		0
	50	0	18.95	19.00	19.15		0
16QAM	1	0	19.31	18.74	19.14	0-1	0
	1	25	19.40	18.89	19.17		0
	1	49	19.34	18.87	19.17		0
	25	0	19.08	19.04	19.15	0-2	0
	25	12	19.13	19.12	19.14		0
	25	25	19.08	19.14	19.12		0
	50	0	19.02	19.12	19.16		0
64QAM	1	0	18.81	18.82	19.15	0-2	0
	1	25	19.07	18.86	19.15		0
	1	49	19.03	18.92	19.16		0
	25	0	19.04	19.15	19.16	0-3	0
	25	12	19.11	19.15	19.10		0
	25	25	19.19	19.17	19.18		0
	50	0	19.07	19.14	19.17		0
256QAM	1	0	18.68	19.35	19.39	0-5	0
	1	25	18.76	19.46	19.30		0
	1	49	18.92	19.45	19.49		0
	25	0	19.14	19.26	19.16		0
	25	12	19.14	19.20	19.17		0
	25	25	19.11	19.29	19.12		0
	50	0	19.17	19.12	19.40		0

Table 9-42
LTE Band 66 (AWS) Reduced Conducted Powers - 5 MHz Bandwidth – 5G NR Active and Hotspot/Proximity Sensor and/or Earjack Active

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.01	19.23	19.13	0	0
	1	12	18.97	19.22	19.14		0
	1	24	18.94	19.24	19.13		0
	12	0	19.07	19.22	19.14	0-1	0
	12	6	19.10	19.21	19.09		0
	12	13	19.06	19.23	19.12		0
16QAM	25	0	19.00	19.21	19.13	0	
	1	0	19.18	19.22	19.08	0-1	0
	1	12	19.23	19.22	19.12		0
	1	24	19.22	19.23	19.12		0
	12	0	19.10	19.22	19.13	0-2	0
	12	6	19.09	19.23	19.12		0
12	13	19.07	19.19	19.11	0		
64QAM	25	0	19.06	19.26	19.11	0	
	1	0	19.18	19.22	19.18	0-2	0
	1	12	19.20	19.19	19.13		0
	1	24	19.09	19.20	19.11		0
	12	0	19.14	19.23	19.07	0-3	0
	12	6	19.16	19.20	19.12		0
12	13	19.15	19.17	19.12	0		
256QAM	25	0	19.12	19.26	19.08	0	
	1	0	19.27	19.19	19.09	0-5	0
	1	12	19.26	19.39	19.17		0
	1	24	19.24	19.35	18.88		0
	12	0	19.22	19.20	18.92		0
	12	6	19.21	19.21	19.18		0
12	13	19.21	19.24	19.10	0		
	25	0	19.19	19.12	19.01	0	

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Table 9-43
LTE Band 66 (AWS) Reduced Conducted Powers - 3 MHz Bandwidth – 5G NR Active and Hotspot/Proximity Sensor and/or Earjack Active

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.02	19.01	19.03	0	0
	1	7	18.99	18.95	19.02		0
	1	14	18.90	18.92	18.98		0
	8	0	18.98	18.97	19.07	0-1	0
	8	4	19.04	19.09	19.07		0
	8	7	19.03	19.07	18.98		0
16QAM	15	0	19.02	19.09	19.01	0-1	0
	1	0	19.15	19.19	19.36		0
	1	7	19.17	19.20	19.49		0
	1	14	19.06	19.15	19.34	0-2	0
	8	0	19.07	19.13	19.28		0
	8	4	19.15	19.18	19.21		0
64QAM	8	7	19.15	19.20	19.12	0-2	0
	15	0	19.05	19.14	19.08		0
	1	0	18.70	18.65	19.07		0
	1	7	18.56	18.62	19.05	0-3	0
	1	14	18.51	18.53	18.80		0
	8	0	18.85	19.12	19.08		0
256QAM	8	4	19.10	19.22	19.17	0-5	0
	8	7	19.15	19.21	19.18		0
	15	0	19.12	19.20	19.12		0
	1	0	19.24	19.50	18.84	0-5	0
	1	7	19.35	19.42	18.74		0
	1	14	19.25	19.35	18.56		0
8	0	19.19	19.12	19.06	0		
8	4	19.25	19.09	19.15	0		
	8	7	19.20	19.01	19.10		0
	15	0	19.19	19.32	19.07		0

Table 9-44
LTE Band 66 (AWS) Reduced Conducted Powers -1.4 MHz Bandwidth – 5G NR Active Hotspot/Proximity Sensor and/or Earjack Active

LTE Band 66 (AWS) 1.4 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)			
			Conducted Power [dBm]					
QPSK	1	0	19.00	19.20	19.01	0	0	
	1	2	19.03	19.18	19.02		0	
	1	5	19.02	19.14	19.00		0	
	3	0	18.94	19.10	18.95		0	
	3	2	18.90	19.07	18.93		0	
	3	3	18.90	19.04	18.91		0	
16QAM	6	0	18.95	19.03	18.92	0-1	0	
	1	0	18.85	19.21	19.02	0-1	0	
	1	2	18.87	19.24	18.86		0	
	1	5	18.98	19.24	18.88		0	
	3	0	19.10	19.30	19.02		0	
	3	2	19.16	19.36	19.18		0	
64QAM	3	3	19.20	19.35	19.20		0-2	0
	6	0	19.16	19.31	19.19	0		
	1	0	18.95	19.23	19.03	0-2		0
	1	2	18.77	19.34	18.82			0
	1	5	18.71	19.40	18.78			0
	3	0	18.93	19.32	18.90			0
256QAM	3	2	19.01	19.27	18.98		0-3	0
	3	3	19.00	19.22	19.01			0
	6	0	19.01	19.10	18.99	0		
	1	0	18.95	19.01	18.81	0-5		0
	1	2	19.00	19.00	18.92			0
	1	5	18.99	19.09	18.96			0
3	0	18.97	19.12	19.01	0			
3	2	19.25	19.07	19.08	0			
3	3	19.27	19.09	18.99	0			
256QAM	6	0	19.17	19.00	18.94	0		

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LTE Band 25 (PCS)

Table 9-45
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	23.85	24.00	24.06	0	0
	1	50	24.03	23.95	24.04		0
	1	99	24.02	23.96	23.86		0
	50	0	23.00	23.05	23.12	0-1	1
	50	25	23.13	23.17	23.26		1
	50	50	23.05	23.20	23.05		1
16QAM	100	0	23.00	23.07	23.16	0-1	1
	1	0	22.83	23.55	23.42		1
	1	50	23.30	23.55	23.41		1
	1	99	23.38	23.58	23.48	0-2	1
	50	0	21.71	22.35	22.16		2
	50	25	22.16	22.20	22.27		2
64QAM	50	50	22.04	22.18	22.13	0-2	2
	100	0	22.00	22.05	22.15		2
	1	0	21.96	22.00	22.26	0-2	2
	1	50	21.84	22.26	21.90		2
	1	99	22.17	22.56	21.89		2
	256QAM	50	0	21.00	20.85	20.95	0-3
50		25	20.97	21.01	20.67	3	
50		50	20.84	21.10	20.59	3	
100		0	20.74	20.91	20.68	3	
256QAM	1	0	19.05	19.10	19.23	0-5	5
	1	50	19.35	19.48	19.24		5
	1	99	19.18	19.27	19.33		5
	50	0	19.22	19.23	19.21	5	
	50	25	19.32	19.27	19.38	5	
	50	50	19.31	19.41	19.33	5	
100	0	19.33	19.31	19.24	5		

Table 9-46
LTE Band 25 (PCS) Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.80	24.22	24.16	0	0
	1	36	23.78	24.30	24.30		0
	1	74	24.02	24.26	24.12		0
	36	0	23.11	23.21	23.43	0-1	1
	36	18	23.17	23.44	23.42		1
	36	37	23.26	23.37	23.02		1
16QAM	75	0	22.93	23.22	23.24	0-1	1
	1	0	23.06	23.48	23.50		1
	1	36	22.98	23.55	23.56		1
	1	74	22.86	23.45	23.40	0-2	1
	36	0	22.34	22.28	22.45		2
	36	18	22.16	22.52	22.48		2
64QAM	36	37	22.26	22.45	22.11	0-2	2
	75	0	22.31	22.22	22.35		2
	1	0	22.16	22.08	22.47		2
	1	36	22.12	22.45	22.08	0-3	2
	1	74	22.29	22.61	22.09		2
	36	0	21.01	21.05	21.11		3
256QAM	36	18	20.97	20.98	21.22	0-3	3
	36	37	20.93	21.20	21.27		3
	75	0	21.01	21.03	21.11		3
	1	0	19.29	19.17	19.08	0-5	5
	1	36	19.49	19.36	19.36		5
	1	74	19.30	19.33	19.32		5
	36	0	19.39	19.13	19.24		5
	36	18	19.44	19.47	19.41		5
36	37	19.41	19.35	19.37	5		
75	0	19.35	19.30	19.19	5		

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Table 9-47
LTE Band 25 (PCS) Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.02	23.52	24.16	0	0
	1	25	24.11	23.76	23.96		0
	1	49	24.08	23.67	24.09		0
	25	0	23.12	22.95	23.04	0-1	1
	25	12	23.10	23.12	23.12		1
	25	25	23.14	23.10	23.14		1
16QAM	50	0	22.97	23.01	22.96	0-1	1
	1	0	23.17	22.98	23.31		1
	1	25	23.14	23.12	23.23		1
	1	49	23.11	23.17	23.10	0-2	1
	25	0	21.96	21.96	22.16		2
	25	12	21.83	22.19	22.21		2
64QAM	25	25	21.98	22.12	21.85	0-2	2
	50	0	21.86	21.96	22.07		2
	1	0	22.04	21.93	22.04	0-2	2
	1	25	22.12	21.94	21.92		2
	1	49	21.97	21.70	22.01	0-3	2
	25	0	21.12	20.81	21.09		3
256QAM	25	12	21.19	21.11	21.22	0-3	3
	25	25	20.96	21.19	20.98		3
	50	0	20.72	20.90	21.05		3
	1	0	18.95	18.95	19.01	0-5	5
	1	25	19.15	19.20	19.27		5
	1	49	19.09	19.01	19.31		5
25	0	19.03	18.96	19.16	5		
25	12	19.12	19.23	19.19	5		
25	25	19.11	19.25	19.06	5		
	50	0	19.14	19.01	19.17		5

Table 9-48
LTE Band 25 (PCS) Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.94	23.94	23.89	0	0
	1	12	24.25	24.00	23.87		0
	1	24	24.45	23.98	24.01		0
	12	0	23.11	22.98	22.87	0-1	1
	12	6	23.29	23.09	23.27		1
	12	13	23.39	23.00	23.04		1
16QAM	25	0	23.22	23.02	23.15	0-1	1
	1	0	23.10	22.93	22.99		1
	1	12	23.44	23.23	23.11		1
	1	24	23.64	23.04	23.21	0-2	1
	12	0	22.12	22.09	22.22		2
	12	6	22.32	22.09	22.13		2
64QAM	25	0	22.23	22.04	22.17	0-2	2
	1	0	21.98	21.97	22.10		2
	1	12	22.19	22.17	22.24		2
	1	24	21.95	22.30	22.33	0-3	2
	12	0	21.11	20.80	20.98		3
	12	6	21.13	20.93	20.96		3
256QAM	12	13	20.88	21.02	21.04	0-3	3
	25	0	20.78	20.86	21.12		3
	1	0	19.23	19.18	18.93		0-5
	1	12	19.29	19.21	19.06	5	
	1	24	19.25	19.23	19.09	5	
	12	0	19.17	19.18	18.90	5	
12	6	19.18	19.17	18.91	5		
12	13	19.18	19.15	19.00	5		

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Table 9-49
LTE Band 25 (PCS) Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.87	23.94	24.01	0	0
	1	7	24.15	23.89	24.12		0
	1	14	24.07	23.83	24.08		0
	8	0	23.22	22.96	23.60	0-1	1
	8	4	23.23	23.00	23.50		1
	8	7	23.11	22.98	23.43		1
16QAM	15	0	23.16	23.02	23.57	0-1	1
	1	0	23.25	23.13	23.87		1
	1	7	23.05	23.15	23.63		1
	1	14	23.19	23.11	23.31	0-2	1
	8	0	22.22	21.94	22.82		2
	8	4	22.04	21.86	22.70		2
64QAM	8	7	22.12	21.94	22.58	0-2	2
	15	0	22.23	22.07	22.73		2
	1	0	22.02	21.85	22.46	0-2	2
	1	7	22.14	21.80	22.24		2
	1	14	21.96	21.87	22.02	0-3	2
	8	0	20.98	20.88	20.96		3
256QAM	8	4	21.11	20.97	20.89		0-3
	8	7	21.23	20.98	21.16	3	
	15	0	20.85	21.01	21.13	3	
	1	0	19.17	19.05	19.00	0-5	5
	1	7	19.23	19.06	19.11		5
	1	14	19.20	19.09	18.96		5
8	0	19.05	19.03	19.04	5		
8	4	19.23	19.17	19.15	5		
8	7	19.12	19.16	19.13	5		
	15	0	19.14	19.06	19.01		5

Table 9-50
LTE Band 25 (PCS) Maximum Conducted Powers -1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.31	23.89	24.12	0	0
	1	2	23.83	24.11	24.18		0
	1	5	23.93	23.86	23.98		0
	3	0	23.78	23.72	23.82		0
	3	2	23.76	23.79	23.91		0
	3	3	23.88	23.77	23.75		0
	6	0	22.76	22.94	22.97		0-1
16QAM	1	0	22.82	22.92	22.89	0-1	1
	1	2	22.85	23.04	23.13		1
	1	5	23.17	22.79	23.14		1
	3	0	23.24	22.99	23.19		1
	3	2	22.97	23.18	22.98		1
	3	3	22.85	23.07	22.86		1
	6	0	21.84	21.89	21.89		0-2
64QAM	1	0	22.23	22.02	21.98	0-2	2
	1	2	22.14	21.94	22.04		2
	1	5	21.79	21.96	22.06		2
	3	0	21.95	21.92	21.85		2
	3	2	21.83	22.02	21.89		2
	3	3	21.79	21.98	21.97		2
	6	0	20.92	20.85	20.78		0-3
256QAM	1	0	19.10	18.96	19.07	0-5	5
	1	2	19.14	19.19	19.06		5
	1	5	19.21	19.15	19.11		5
	3	0	19.10	19.15	19.15		5
	3	2	19.14	19.16	19.02		5
	3	3	19.13	19.12	19.10		5
	6	0	19.04	18.94	19.00		5

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Table 9-51
LTE Band 25 (PCS) Reduced Conducted Powers - 20 MHz Bandwidth – Hotspot Mode Active

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	17.99	17.96	17.95	0	0
	1	50	17.88	17.95	18.00		0
	1	99	17.87	17.91	17.86		0
	50	0	18.03	17.96	17.94	0-1	0
	50	25	18.08	18.04	18.10		0
	50	50	17.99	17.91	17.94		0
	100	0	17.95	17.85	17.98		0
16QAM	1	0	18.42	18.38	18.29	0-1	0
	1	50	18.25	18.37	18.25		0
	1	99	18.33	18.29	18.24		0
	50	0	18.06	17.93	17.96	0-2	0
	50	25	18.14	17.98	18.02		0
	50	50	17.96	17.94	17.96		0
	100	0	18.04	17.91	17.95		0
64QAM	1	0	18.33	18.27	18.30	0-2	0
	1	50	18.22	18.23	18.20		0
	1	99	18.15	18.12	18.09		0
	50	0	18.05	17.94	17.94	0-3	0
	50	25	18.13	18.07	18.10		0
	50	50	17.96	17.93	17.95		0
	100	0	18.07	17.91	17.97		0
256QAM	1	0	18.14	18.09	17.99	0-5	0
	1	50	18.22	17.99	18.30		0
	1	99	18.10	18.14	18.00		0
	50	0	18.20	18.11	18.18		0
	50	25	18.23	18.23	18.33		0
	50	50	18.27	18.28	18.26		0
	100	0	18.27	18.20	18.21		0

Table 9-52
LTE Band 25 (PCS) Reduced Conducted Powers - 15 MHz Bandwidth – Hotspot Mode Active

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.72	17.90	17.91	0	0
	1	36	18.00	18.03	18.01		0
	1	74	17.80	17.99	17.99		0
	36	0	17.91	17.92	18.07	0-1	0
	36	18	18.02	18.02	18.21		0
	36	37	17.91	17.97	18.12		0
16QAM	75	0	17.91	17.89	18.04	0-1	0
	1	0	17.67	17.73	18.31		0
	1	36	17.99	17.88	18.29		0
	1	74	17.73	17.82	18.35	0-2	0
	36	0	17.99	17.92	18.10		0
	36	18	18.07	18.08	18.21		0
64QAM	36	37	17.99	17.98	18.16	0-2	0
	75	0	17.89	18.00	18.13		0
	1	0	18.19	17.82	18.06		0
	1	36	18.15	18.08	18.02	0-3	0
	1	74	18.25	17.83	18.50		0
	36	0	17.96	18.07	18.26		0
256QAM	36	18	18.07	18.19	18.33	0-5	0
	36	37	18.00	18.13	18.26		0
	75	0	18.03	18.03	18.08		0
	1	0	18.26	17.97	18.14	0-5	0
	1	36	18.35	18.28	18.35		0
	1	74	18.25	18.22	18.32		0
36	0	18.24	18.15	18.20	0		
36	18	18.37	18.31	18.28	0		
	36	37	18.25	18.24	18.19	0	
	75	0	18.25	18.27	18.22	0	

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Table 9-53
LTE Band 25 (PCS) Reduced Conducted Powers - 10 MHz Bandwidth – Hotspot Mode Active

LTE Band 25 (PCS) 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)			
			Conducted Power [dBm]					
QPSK	1	0	17.56	18.02	17.72	0	0	
	1	25	17.59	17.53	17.71		0	
	1	49	17.72	17.68	17.71		0	
	25	0	17.66	17.63	17.77	0-1	0	
	25	12	17.77	17.87	17.84		0	
	25	25	17.71	17.70	17.76		0	
16QAM	50	0	17.71	17.70	17.79	0-1	0	
	1	0	17.65	17.70	17.85		0	
	1	25	17.79	17.61	17.87		0	
	1	49	17.72	17.69	17.96	0-2	0	
	25	0	17.70	17.73	17.82		0	
	25	12	17.83	17.95	17.90		0	
64QAM	25	25	17.73	17.80	17.90	0-2	0	
	50	0	17.70	17.74	17.84		0	
	1	0	17.65	17.64	17.56	0-2	0	
	1	25	17.56	17.61	17.78		0	
	1	49	17.55	17.65	18.01		0	
	25	0	17.84	17.79	17.82	0-3	0	
25	12	17.98	17.99	17.99	0			
25	25	17.89	17.84	17.91	0			
256QAM	50	0	17.77	17.73	17.82	0-3	0	
	1	0	18.05	17.97	17.99		0-5	0
	1	25	17.95	18.19	18.25			0
	1	49	17.96	17.88	18.07	0		
	25	0	18.07	17.94	17.91	0		
	25	12	18.05	18.13	18.06	0		
25	25	18.02	17.94	18.02	0			
	50	0	18.03	18.00	18.04	0		

Table 9-54
LTE Band 25 (PCS) Reduced Conducted Powers - 5 MHz Bandwidth – Hotspot Mode Active

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.64	17.72	17.58	0	0
	1	12	17.66	17.82	17.62		0
	1	24	17.68	17.82	17.61		0
	12	0	17.67	17.80	17.76	0-1	0
	12	6	17.77	17.82	17.78		0
	12	13	17.65	17.78	17.75		0
16QAM	25	0	17.68	17.84	17.79	0-1	0
	1	0	17.64	18.09	17.91		0
	1	12	17.80	18.25	17.87		0
	1	24	17.66	18.12	17.88	0-2	0
	12	0	17.80	17.78	17.83		0
	12	6	17.81	17.89	18.04		0
64QAM	12	13	17.77	17.80	17.86	0-2	0
	25	0	17.72	17.78	17.85		0
	1	0	17.97	17.62	17.76		0
	1	12	18.05	17.70	17.79	0-3	0
	1	24	18.02	17.66	17.76		0
	12	0	17.79	17.79	17.83		0
256QAM	12	6	17.76	17.88	17.91	0-3	0
	12	13	17.79	17.81	17.78		0
	25	0	17.72	17.90	17.81		0
	1	0	18.24	18.18	18.10	0-5	0
	1	12	18.12	18.23	18.19		0
	1	24	18.15	18.44	18.07		0
12	0	18.02	18.18	17.95	0		
12	6	18.12	18.20	18.07	0		
12	13	18.09	18.13	18.07	0		
	25	0	17.98	18.15	18.07		0

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Table 9-55
LTE Band 25 (PCS) Reduced Conducted Powers - 3 MHz Bandwidth – Hotspot Mode Active

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.89	17.69	17.70	0	0
	1	7	17.68	17.77	17.56		0
	1	14	17.71	17.72	17.72		0
	8	0	17.68	17.76	17.80	0-1	0
	8	4	17.64	17.77	17.80		0
	8	7	17.70	17.74	17.83		0
16QAM	15	0	17.70	17.83	17.80	0-1	0
	1	0	17.95	17.66	17.98		0
	1	7	17.93	17.54	18.14		0
	1	14	17.86	17.59	18.07	0-2	0
	8	0	17.68	17.63	17.86		0
	8	4	17.60	17.66	17.91		0
64QAM	8	7	17.64	17.59	17.90	0-2	0
	15	0	17.76	17.88	17.93		0
	1	0	17.72	17.51	18.44	0-3	0
	1	7	17.79	17.69	18.35		0
	1	14	17.68	17.50	18.34		0
	8	0	17.71	18.00	17.88	0-3	0
8	4	17.74	17.96	17.97	0		
8	7	17.71	17.94	17.82	0		
256QAM	15	0	17.84	17.95	17.85	0-5	0
	1	0	18.14	18.14	18.06		0
	1	7	18.18	18.21	18.16		0
	1	14	18.20	18.26	18.13		0
	8	0	18.09	18.15	18.08		0
	8	4	18.10	18.14	18.21		0
256QAM	8	7	18.00	18.28	18.10	0	
	15	0	18.13	18.09	18.12	0	

Table 9-56
LTE Band 25 (PCS) Reduced Conducted Powers -1.4 MHz Bandwidth – Hotspot Mode Active

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.62	17.62	17.58	0	0
	1	2	17.70	17.56	17.59		0
	1	5	17.64	17.64	17.58		0
	3	0	17.55	17.63	17.85		0
	3	2	17.69	17.65	17.81		0
	3	3	17.53	17.61	17.87		0
	6	0	17.63	17.68	17.75		0
16QAM	1	0	17.77	17.58	17.91	0-1	0
	1	2	17.77	17.63	18.11		0
	1	5	17.81	17.66	17.88		0
	3	0	17.69	17.96	17.87		0
	3	2	17.77	18.13	17.94		0
	3	3	17.75	17.93	17.91		0
	6	0	17.68	17.73	17.81		0
64QAM	1	0	18.28	17.72	18.20	0-2	0
	1	2	18.29	17.67	18.10		0
	1	5	18.19	17.63	18.25		0
	3	0	17.58	17.79	17.76		0
	3	2	17.82	17.72	17.75		0
	3	3	17.64	17.79	17.87		0
	6	0	17.65	17.86	17.81		0
256QAM	1	0	18.08	18.06	18.00	0-3	0
	1	2	18.21	18.05	18.07		0
	1	5	18.11	18.04	18.06		0
	3	0	18.04	18.13	18.04		0
	3	2	18.18	18.21	18.12		0
	3	3	18.13	18.15	18.08		0
	6	0	18.03	18.04	17.85		0

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Table 9-57
LTE Band 25 (PCS) Reduced Conducted Powers - 20 MHz Bandwidth – Proximity Sensor and/or Earjack
Active

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	20.83	20.75	20.60	0	0
	1	50	20.75	20.74	20.68		0
	1	99	20.73	20.81	20.69		0
	50	0	20.90	20.81	20.85	0-1	0
	50	25	20.94	20.84	20.86		0
	50	50	20.86	20.92	20.80		0
16QAM	100	0	20.82	20.77	20.81	0-1	0
	1	0	21.00	21.00	20.99		0
	1	50	20.99	20.95	21.00		0
	1	99	20.91	20.92	20.97	0-2	0
	50	0	20.92	20.83	20.82		0
	50	25	20.95	20.84	20.87		0
64QAM	50	50	20.87	20.92	20.86	0-2	0
	100	0	20.83	20.82	20.83		0
	1	0	20.80	21.00	20.96	0-2	0
	1	50	20.96	20.98	20.99		0
	1	99	20.95	20.91	20.79		0-3
	50	0	20.20	20.90	20.86	0	
256QAM	50	25	20.30	20.91	20.65	0-3	
	50	50	20.48	20.95	20.14		0
	100	0	20.16	20.78	20.52		0
	1	0	19.19	19.25	19.06	0-5	1
	1	50	19.45	19.53	19.49		1
	1	99	19.19	19.22	19.15		1
	50	0	19.32	19.24	19.22		1
	50	25	19.46	19.27	19.39		1
50	50	19.36	19.32	19.33	1		
	100	0	19.35	19.22	19.29	1	

Table 9-58
LTE Band 25 (PCS) Reduced Conducted Powers - 15 MHz Bandwidth – Proximity Sensor and/or Earjack
Active

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.50	20.72	20.90	0	0
	1	36	20.87	20.84	20.94		0
	1	74	20.66	20.78	20.86		0
	36	0	20.82	20.80	20.84	0-1	0
	36	18	20.97	20.98	20.98		0
	36	37	20.93	20.98	20.93		0
	75	0	20.84	20.81	20.84		0
16QAM	1	0	20.66	20.88	20.92	0-1	0
	1	36	20.71	20.99	21.00		0
	1	74	20.75	20.97	20.97		0
	36	0	20.81	20.82	20.89	0-2	0
	36	18	20.97	21.00	20.72		0
	36	37	20.92	20.98	21.00		0
	75	0	20.91	20.89	20.88		0
64QAM	1	0	20.74	20.84	20.74	0-2	0
	1	36	20.60	20.75	20.73		0
	1	74	20.85	20.74	20.60		0
	36	0	20.24	20.65	20.36	0-3	0
	36	18	20.32	20.71	20.20		0
	36	37	20.34	20.80	20.27		0
	75	0	20.30	20.68	20.40		0
256QAM	1	0	19.46	19.29	19.30	0-5	1
	1	36	19.50	19.45	19.55		1
	1	74	19.40	19.53	19.47		1
	36	0	19.42	19.55	19.42		1
	36	18	19.53	19.58	19.55		1
	36	37	19.54	19.45	19.46		1
	75	0	19.45	19.42	19.41		1

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Table 9-59
LTE Band 25 (PCS) Reduced Conducted Powers - 10 MHz Bandwidth – Proximity Sensor and/or Earjack
Active

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.62	20.82	20.64	0	0
	1	25	20.74	20.64	20.72		0
	1	49	20.82	20.88	20.80		0
	25	0	20.61	20.68	20.75	0-1	0
	25	12	20.70	20.72	20.65		0
	25	25	20.63	20.71	20.75		0
	50	0	20.66	20.69	20.69		0
16QAM	1	0	20.79	20.81	20.77	0-1	0
	1	25	20.68	20.83	20.72		0
	1	49	20.89	20.72	20.79		0
	25	0	20.62	20.61	20.71	0-2	0
	25	12	20.71	20.80	20.70		0
	25	25	20.66	20.74	20.65		0
	50	0	20.61	20.61	20.64		0
64QAM	1	0	20.69	20.60	20.82	0-2	0
	1	25	20.52	20.64	20.70		0
	1	49	20.32	20.24	20.61		0
	25	0	20.35	20.56	20.68	0-3	0
	25	12	20.46	20.83	20.70		0
	25	25	20.58	20.80	20.64		0
	50	0	20.49	20.67	20.46		0
256QAM	1	0	19.20	19.15	19.08	0-5	1
	1	25	19.25	19.27	19.27		1
	1	49	19.17	19.24	19.19		1
	25	0	19.18	19.17	19.18		1
	25	12	19.32	19.31	19.12		1
	25	25	19.15	19.30	19.15		1
	50	0	19.22	19.18	19.16		1

Table 9-60
LTE Band 25 (PCS) Reduced Conducted Powers - 5 MHz Bandwidth – Proximity Sensor and/or Earjack
Active

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.67	20.62	20.87	0	0
	1	12	20.62	20.66	20.83		0
	1	24	20.63	20.74	20.84		0
	12	0	20.71	20.64	20.64	0-1	0
	12	6	20.71	20.75	20.66		0
	12	13	20.73	20.70	20.60		0
	25	0	20.70	20.71	20.59		0
16QAM	1	0	20.69	20.87	20.62	0-1	0
	1	12	20.80	20.87	20.72		0
	1	24	20.78	20.95	20.61		0
	12	0	20.74	20.74	20.59	0-2	0
	12	6	20.74	20.78	20.62		0
	12	13	20.76	20.76	20.62		0
	25	0	20.72	20.74	20.62		0
64QAM	1	0	20.30	20.76	20.73	0-2	0
	1	12	20.67	20.85	20.76		0
	1	24	20.90	20.84	20.64		0
	12	0	20.32	20.67	20.65	0-3	0
	12	6	20.44	20.79	20.50		0
	12	13	20.56	20.76	20.40		0
	25	0	20.31	20.80	20.43		0
256QAM	1	0	19.36	19.33	19.18	0-5	1
	1	12	19.29	19.42	19.27		1
	1	24	19.39	19.44	19.32		1
	12	0	19.32	19.22	19.31		1
	12	6	19.38	19.32	19.26		1
	12	13	19.34	19.38	19.31		1
	25	0	19.24	19.28	19.22		1

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Table 9-61
LTE Band 25 (PCS) Reduced Conducted Powers - 3 MHz Bandwidth – Proximity Sensor and/or Earjack Active

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.64	20.67	20.79	0	0
	1	7	20.85	20.74	20.88		0
	1	14	20.77	20.76	20.82		0
	8	0	20.66	20.67	20.71	0-1	0
	8	4	20.69	20.66	20.70		0
	8	7	20.74	20.71	20.69		0
16QAM	15	0	20.66	20.67	20.74	0-1	0
	1	0	20.75	20.82	20.83		0
	1	7	20.74	20.80	20.83		0
	1	14	20.80	20.89	20.77	0-2	0
	8	0	20.56	20.66	20.67		0
	8	4	20.60	20.71	20.68		0
64QAM	8	7	20.57	20.64	20.71	0-2	0
	15	0	20.74	20.70	20.73		0
	1	0	20.60	20.74	20.97	0-2	0
	1	7	20.69	20.76	20.84		0
	1	14	20.71	20.63	20.54		0-3
	8	0	20.45	20.79	20.56	0	
256QAM	8	4	20.39	20.85	20.48	0-5	
	8	7	20.43	20.83	20.60		0
	15	0	20.31	20.84	20.44		0
	1	0	19.27	19.41	19.45		1
	1	7	19.41	19.47	19.36		1
	1	14	19.51	19.39	19.33		1
8	0	19.43	19.42	19.35	1		
8	4	19.19	19.36	19.24	1		
8	7	19.32	19.28	19.36	1		
15	0	19.24	19.34	19.23	1		

Table 9-62
LTE Band 25 (PCS) Reduced Conducted Powers - 1.4 MHz Bandwidth – Proximity Sensor and/or Earjack Active

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.67	20.77	20.84	0	0
	1	2	20.78	20.79	20.90		0
	1	5	20.73	20.80	20.86		0
	3	0	20.80	20.78	20.74		0
	3	2	20.89	20.85	20.79		0
	3	3	20.88	20.82	20.78		0
16QAM	6	0	20.92	20.84	20.80	0-1	0
	1	0	20.98	20.56	20.89	0-1	0
	1	2	21.00	20.67	20.97		0
	1	5	20.85	20.64	20.98		0
	3	0	20.90	20.97	20.82		0
	3	2	20.99	20.96	20.95		0
	3	3	20.91	21.00	20.90		0
	6	0	20.94	20.80	20.75	0-2	0
64QAM	1	0	20.66	20.69	20.83	0-2	0
	1	2	20.74	20.78	20.84		0
	1	5	20.50	20.68	20.58		0
	3	0	20.50	20.99	20.44		0
	3	2	20.43	20.81	20.55		0
	3	3	20.41	20.65	20.30		0
	6	0	20.44	20.86	20.40	0-3	0
256QAM	1	0	19.38	19.30	19.41	0-5	1
	1	2	19.32	19.33	19.26		1
	1	5	19.26	19.42	19.31		1
	3	0	19.42	19.32	19.22		1
	3	2	19.28	19.29	19.36		1
	3	3	19.41	19.22	19.28		1
	6	0	19.26	19.31	19.25		1

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LTE Band 2

Table 9-63
LTE Band 2 (PCS) Maximum Conducted Powers - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.94	23.97	24.19	0	0
	1	50	23.98	23.94	24.17		0
	1	99	24.00	24.03	24.15		0
	50	0	23.08	22.94	23.11	0-1	1
	50	25	23.16	23.02	23.20		1
	50	50	23.09	23.10	23.11		1
16QAM	100	0	23.10	22.97	23.09	0-1	1
	1	0	23.18	23.36	23.21		1
	1	50	23.33	23.34	23.26		1
	1	99	23.32	23.36	23.24	0-2	1
	50	0	22.08	21.93	22.12		2
	50	25	22.13	22.10	22.22		2
64QAM	50	50	22.12	22.09	22.14	0-2	2
	100	0	22.03	22.05	22.08		2
	1	0	21.90	22.49	22.62	0-2	2
	1	50	22.52	22.55	22.57		2
	1	99	22.40	22.49	22.12		0-3
	50	0	20.53	21.01	21.13	3	
256QAM	50	25	20.77	21.16	21.18	0-3	
	50	50	20.96	21.15	20.93		3
	100	0	20.72	21.00	21.09		3
	1	0	19.30	19.46	19.32	0-5	5
	1	50	19.50	19.86	19.62		5
	1	99	19.46	19.64	19.50		5
	50	0	19.48	19.59	19.35		5
	50	25	19.50	19.71	19.64		5
	50	50	19.46	19.70	19.61		5
	100	0	19.50	19.64	19.58		5

Table 9-64
LTE Band 2 (PCS) Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.86	23.94	24.04	0	0
	1	36	24.13	24.12	24.15		0
	1	74	24.01	24.02	24.08		0
	36	0	23.09	23.03	23.20	0-1	1
	36	18	23.17	23.19	23.33		1
	36	37	23.07	23.19	23.21		1
	75	0	23.05	23.06	23.17		1
16QAM	1	0	23.11	22.95	23.41	0-1	1
	1	36	23.38	23.06	23.49		1
	1	74	22.99	23.07	23.48		1
	36	0	22.17	22.05	22.22	0-2	2
	36	18	22.28	22.19	22.34		2
	36	37	22.17	22.24	22.25		2
	75	0	22.05	22.13	22.25		2
64QAM	1	0	21.87	21.90	22.51	0-2	2
	1	36	21.96	22.12	22.64		2
	1	74	22.35	21.97	22.40		2
	36	0	20.66	21.15	21.31	0-3	3
	36	18	20.53	21.24	21.42		3
	36	37	20.80	21.30	21.15		3
	75	0	20.85	21.14	21.13		3
256QAM	1	0	19.27	19.30	19.15	0-5	5
	1	36	19.32	19.30	19.23		5
	1	74	19.24	19.17	19.32		5
	36	0	19.26	19.29	19.28		5
	36	18	19.39	19.30	19.30		5
	36	37	19.34	19.44	19.29		5
	75	0	19.30	19.33	19.32		5

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Table 9-65
LTE Band 2 (PCS) Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.98	23.87	24.31	0	0
	1	25	23.93	24.05	24.32		0
	1	49	23.87	23.95	24.28		0
	25	0	23.24	23.18	23.34	0-1	1
	25	12	23.31	23.29	23.44		1
	25	25	23.24	23.28	23.35		1
16QAM	50	0	23.32	23.22	23.39	0-1	1
	1	0	22.92	23.01	23.53		1
	1	25	23.38	23.06	23.45		1
	1	49	23.27	22.84	23.52	0-2	1
	25	0	22.31	22.30	22.44		2
	25	12	22.40	22.36	22.45		2
64QAM	25	25	22.27	22.39	22.44	0-2	2
	50	0	22.25	22.26	22.43		2
	1	0	21.87	21.86	22.61		0-2
	1	25	21.77	22.03	22.64	2	
	1	49	21.82	21.82	22.57	2	
	25	0	20.75	21.32	21.42	0-3	3
256QAM	25	12	20.90	21.40	21.50		3
	25	25	20.85	21.42	21.27		3
	50	0	20.76	21.29	21.37	0-5	3
	1	0	19.05	18.92	18.99		5
	1	25	19.21	19.05	19.23		5
	1	49	19.01	19.03	18.97		5
25	0	19.05	18.93	19.02	5		
256QAM	25	12	19.23	19.12	19.23	0-5	5
	25	25	19.15	19.13	19.00		5
	50	0	19.21	19.03	19.04		5

Table 9-66
LTE Band 2 (PCS) Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.93	24.03	24.00	0	0
	1	12	24.09	23.99	24.07		0
	1	24	23.92	24.01	23.96		0
	12	0	23.09	23.08	23.24	0-1	1
	12	6	23.19	23.19	23.32		1
	12	13	23.15	23.17	23.19		1
16QAM	25	0	23.14	23.14	23.25	0-1	1
	1	0	23.16	23.52	23.27		1
	1	12	23.10	23.57	23.44		1
	1	24	23.06	23.20	23.21	0-2	1
	12	0	22.08	22.13	22.33		2
	12	6	22.24	22.21	22.42		2
64QAM	12	13	22.25	22.25	22.35	0-2	2
	25	0	22.17	22.12	22.23		2
	1	0	21.89	22.01	22.08		0-2
	1	12	21.79	22.11	22.00	2	
	1	24	21.71	22.04	21.65	0-3	
	12	0	20.90	21.03	20.97		3
256QAM	12	6	20.87	20.93	21.00		0-3
	12	13	20.85	21.02	20.89	3	
	25	0	20.70	21.09	20.95	3	
	1	0	19.13	19.16	19.37	0-5	5
	1	12	19.28	19.12	19.32		5
	1	24	19.18	19.11	19.21		5
12	0	19.24	19.14	19.16	5		
12	6	19.20	19.23	19.20	5		
12	13	19.12	19.14	19.04	5		
	25	0	19.22	19.08	19.07		5

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Table 9-67
LTE Band 2 (PCS) Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.00	23.76	23.77	0	0
	1	7	23.95	23.86	23.48		0
	1	14	24.12	23.79	23.72		0
	8	0	23.16	23.04	22.84	0-1	1
	8	4	23.27	23.01	22.94		1
	8	7	23.20	22.90	22.81		1
	15	0	23.24	22.72	22.88		1
16QAM	1	0	23.15	22.62	23.07	0-1	1
	1	7	23.28	22.63	23.31		1
	1	14	23.40	22.56	22.99		1
	8	0	22.05	21.53	21.88	0-2	2
	8	4	22.17	21.87	21.93		2
	8	7	22.20	21.60	21.84		2
	15	0	22.29	21.71	21.92		2
64QAM	1	0	21.96	21.58	22.22	0-2	2
	1	7	21.79	21.66	22.15		2
	1	14	21.93	21.69	22.07		2
	8	0	20.71	20.83	20.69	0-3	3
	8	4	20.74	20.97	20.72		3
	8	7	20.63	20.96	20.65		3
	15	0	20.72	20.85	20.60		3
256QAM	1	0	19.25	19.15	19.18	0-5	5
	1	7	19.24	19.19	19.11		5
	1	14	19.17	19.14	19.06		5
	8	0	19.17	19.11	19.12	0-5	5
	8	4	19.19	19.15	19.12		5
	8	7	19.04	19.11	19.05		5
	15	0	19.15	19.09	19.08		5

Table 9-68
LTE Band 2 (PCS) Maximum Conducted Powers -1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)			
			Conducted Power [dBm]					
QPSK	1	0	23.94	23.85	23.91	0	0	
	1	2	23.88	23.92	24.01		0	
	1	5	24.02	23.85	23.92		0	
	3	0	23.91	24.02	24.12	0	0	
	3	2	23.89	23.99	24.15		0	
	3	3	23.94	23.87	24.09		0	
16QAM	6	0	22.89	22.93	22.99	0-1	1	
	1	0	22.80	22.96	23.08		1	
	1	2	22.89	22.69	23.13		0-1	1
	1	5	22.93	22.85	23.03	1		
	3	0	22.84	23.21	23.02	1		
	3	2	22.82	23.30	23.27	1		
64QAM	3	3	22.97	23.32	23.04	0-2	1	
	6	0	21.91	21.95	22.01		0-2	2
	1	0	21.98	21.82	21.89			0-2
	1	2	21.94	21.88	21.87	2		
	1	5	21.89	21.76	21.86	2		
	3	0	21.94	22.02	21.78	2		
256QAM	3	2	21.93	22.03	21.87	0-3	2	
	3	3	21.91	22.04	21.98		0-5	2
	6	0	20.97	21.02	21.11			0-5
	1	0	19.22	19.12	19.23	0-5		
	1	2	19.25	19.13	19.23		5	
	1	5	19.10	19.15	19.08		5	
256QAM	3	0	19.23	19.21	19.16	0-5	5	
	3	2	19.20	19.27	19.25		5	
	3	3	19.17	19.20	19.12		5	
	6	0	19.11	18.97	19.05		5	

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Table 9-69
LTE Band 2 (PCS) Reduced Conducted Powers - 20 MHz Bandwidth – Hotspot Mode Active/5G NR and Hotspot Mode Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.83	18.02	18.02	0	0
	1	50	17.78	18.05	18.06		0
	1	99	17.81	18.03	18.02		0
	50	0	17.99	17.91	18.04	0-1	0
	50	25	18.10	18.02	18.12		0
	50	50	18.05	18.04	18.08		0
	100	0	17.94	17.99	18.04		0
16QAM	1	0	18.42	18.38	18.19	0-1	0
	1	50	18.28	18.46	18.20		0
	1	99	18.30	18.49	18.23		0
	50	0	17.97	17.96	17.94	0-2	0
	50	25	17.99	18.10	17.98		0
	50	50	17.98	18.13	18.03		0
	100	0	17.96	17.92	18.03		0
64QAM	1	0	18.34	18.22	18.14	0-2	0
	1	50	18.34	18.31	18.09		0
	1	99	18.40	18.32	18.16		0
	50	0	17.96	18.00	17.99	0-3	0
	50	25	18.03	18.11	18.12		0
	50	50	17.98	18.15	18.03		0
	100	0	17.99	18.02	18.04		0
256QAM	1	0	17.96	18.14	18.05	0-5	0
	1	50	18.22	18.32	18.17		0
	1	99	18.31	18.26	18.02		0
	50	0	18.13	18.07	18.01		0
	50	25	18.22	18.21	18.32		0
	50	50	18.25	18.13	18.13		0
	100	0	18.21	18.21	18.18		0

Table 9-70
LTE Band 2 (PCS) Reduced Conducted Powers - 15 MHz Bandwidth – Hotspot Mode Active/5G NR and Hotspot Mode Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.57	17.92	18.00	0	0
	1	36	17.94	18.02	18.11		0
	1	74	17.63	17.98	17.98		0
	36	0	17.97	17.98	18.09	0-1	0
	36	18	18.07	18.09	18.18		0
	36	37	17.99	18.11	18.08		0
	75	0	17.95	17.95	18.08		0
16QAM	1	0	17.94	18.31	18.22	0-1	0
	1	36	18.01	18.33	18.27		0
	1	74	17.54	18.27	18.10		0
	36	0	17.96	17.94	18.10	0-2	0
	36	18	18.09	18.09	18.25		0
	36	37	17.98	18.11	18.16		0
	75	0	18.03	17.99	18.04		0
64QAM	1	0	18.18	18.34	18.27	0-2	0
	1	36	18.20	18.17	18.22		0
	1	74	17.59	18.35	18.26		0
	36	0	18.10	18.07	18.08	0-3	0
	36	18	18.16	18.17	18.19		0
	36	37	18.11	18.20	18.13		0
	75	0	18.04	17.93	18.15		0
256QAM	1	0	18.24	18.14	18.06	0-5	0
	1	36	18.33	18.32	18.04		0
	1	74	18.20	18.00	18.19		0
	36	0	18.09	18.15	18.08		0
	36	18	18.26	18.21	18.23		0
	36	37	18.15	18.23	18.23		0
	75	0	18.19	18.07	18.11		0

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Table 9-71
LTE Band 2 (PCS) Reduced Conducted Powers - 10 MHz Bandwidth – Hotspot Mode Active/5G NR and Hotspot Mode Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.48	17.69	18.04	0	0
	1	25	17.68	17.90	18.03		0
	1	49	17.48	17.79	17.97		0
	25	0	17.99	17.95	18.07	0-1	0
	25	12	18.06	18.04	18.12		0
	25	25	17.96	18.00	18.05		0
16QAM	50	0	18.02	17.95	18.09	0-1	0
	1	0	17.93	17.68	18.31		0
	1	25	18.08	17.70	18.21		0
	1	49	17.96	17.61	18.26	0-2	0
	25	0	18.00	18.00	18.14		0
	25	12	18.06	18.06	18.17		0
64QAM	25	25	17.97	18.09	18.15	0-2	0
	50	0	17.96	17.99	18.10		0
	1	0	17.75	17.89	18.41		0-3
	1	25	18.03	17.93	18.27	0	
	1	49	17.61	17.61	18.19	0	
	25	0	18.02	18.05	18.12	0	
256QAM	25	12	18.19	18.10	18.25	0-3	0
	25	25	18.10	18.17	18.13		0
	50	0	18.07	18.05	18.11		0
	1	0	17.82	17.96	17.88	0-5	0
	1	25	17.96	17.92	17.84		0
	1	49	17.99	17.87	18.00		0
25	0	18.00	17.88	17.93	0		
25	12	18.11	17.86	18.11	0		
25	25	18.03	17.95	17.97	0		
	50	0	18.01	17.96	17.99	0	

Table 9-72
LTE Band 2 (PCS) Reduced Conducted Powers - 5 MHz Bandwidth – Hotspot Mode Active/5G NR and Hotspot Mode Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.87	17.84	17.90	0	0
	1	12	17.72	17.90	18.07		0
	1	24	17.67	17.85	17.90		0
	12	0	17.87	17.82	17.93	0-1	0
	12	6	17.97	18.01	17.93		0
	12	13	17.85	17.90	17.88		0
	25	0	17.89	17.81	17.96		0
16QAM	1	0	17.89	17.91	18.27	0-1	0
	1	12	18.12	18.04	18.44		0
	1	24	17.87	17.87	18.26		0
	12	0	17.99	17.90	17.95	0-2	0
	12	6	17.99	18.00	18.05		0
	12	13	17.92	17.95	17.94		0
	25	0	17.90	17.84	17.93		0
64QAM	1	0	17.73	18.10	17.79	0-2	0
	1	12	17.74	18.02	17.99		0
	1	24	17.90	18.10	17.77		0
	12	0	17.93	17.88	17.97	0-3	0
	12	6	18.00	18.02	18.05		0
	12	13	17.87	17.98	17.97		0
	25	0	17.85	17.82	18.07		0
256QAM	1	0	18.11	18.15	17.99	0-5	0
	1	12	18.04	18.09	18.05		0
	1	24	18.00	18.11	18.09		0
	12	0	18.01	18.21	18.06		0
	12	6	18.08	18.05	18.05		0
	12	13	18.09	18.15	17.95		0
	25	0	18.20	18.10	17.98		0

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Table 9-73
LTE Band 2 (PCS) Reduced Conducted Powers - 3 MHz Bandwidth – Hotspot Mode Active/5G NR and Hotspot Mode Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.71	17.83	17.83	0	0
	1	7	17.56	17.83	17.54		0
	1	14	17.69	17.90	17.82		0
	8	0	17.88	17.87	18.01	0-1	0
	8	4	17.88	17.88	17.97		0
	8	7	17.78	17.99	18.01		0
	15	0	17.88	17.81	17.96		0
16QAM	1	0	17.97	17.67	18.31	0-1	0
	1	7	17.93	17.72	18.31		0
	1	14	17.99	17.61	18.20		0
	8	0	17.84	17.58	18.01	0-2	0
	8	4	17.75	17.93	18.04		0
	8	7	17.81	17.68	18.05		0
	15	0	17.96	17.78	18.05		0
64QAM	1	0	17.83	17.65	18.18	0-2	0
	1	7	17.96	17.80	18.25		0
	1	14	17.77	17.89	18.22		0
	8	0	17.98	17.91	18.04	0-3	0
	8	4	17.84	18.05	18.11		0
	8	7	17.95	18.01	17.98		0
	15	0	17.89	17.86	18.00		0
256QAM	1	0	18.11	18.06	18.08	0-5	0
	1	7	18.08	18.10	18.06		0
	1	14	17.99	18.17	17.94		0
	8	0	18.07	18.14	18.02		0
	8	4	17.94	18.11	18.00		0
	8	7	18.20	18.13	18.07		0
	15	0	18.09	18.06	18.12		0

Table 9-74
LTE Band 2 (PCS) Reduced Conducted Powers -1.4 MHz Bandwidth – Hotspot Mode Active/5G NR and Hotspot Mode Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.68	17.68	17.91	0	0
	1	2	17.58	17.74	17.98		0
	1	5	17.68	17.71	17.96		0
	3	0	17.82	17.93	17.74		0
	3	2	17.78	17.94	17.95		0
	3	3	17.57	17.97	17.77		0
	6	0	17.78	17.85	17.91		0
16QAM	1	0	17.53	17.99	18.07	0-1	0
	1	2	18.01	18.14	18.09	0-1	0
	1	5	17.59	17.98	18.07		0
	3	0	17.94	17.94	17.93		0
	3	2	18.08	18.03	17.96		0
	3	3	17.91	17.99	17.97		0
	6	0	17.74	17.83	17.95	0-2	0
64QAM	1	0	18.05	18.18	18.34	0-2	0
	1	2	17.79	18.23	18.37		0
	1	5	17.86	18.23	18.24		0
	3	0	17.87	17.88	17.84		0
	3	2	17.80	17.81	18.04		0
	3	3	17.83	17.89	17.90		0
	6	0	17.84	17.89	17.90		0-3
256QAM	1	0	17.95	17.96	18.00	0-5	0
	1	2	18.06	18.00	17.63		0
	1	5	18.01	17.99	18.10		0
	3	0	18.13	18.08	18.05		0
	3	2	18.09	18.10	18.02		0
	3	3	18.12	18.04	18.04		0
	6	0	18.02	17.99	18.08		0

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Table 9-75
LTE Band 2 (PCS) Reduced Conducted Powers - 20 MHz Bandwidth – Proximity Sensor and/or Earjack Active/5G NR and Proximity Sensor and/or Earjack Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.86	20.65	20.73	0	0
	1	50	20.76	20.68	20.68		0
	1	99	20.67	20.70	20.70		0
	50	0	20.74	20.66	20.74	0-1	0
	50	25	20.88	20.70	20.85		0
	50	50	20.83	20.81	20.80		0
	100	0	20.85	20.65	20.79	0	
16QAM	1	0	21.00	20.92	20.98	0-1	0
	1	50	20.95	20.90	20.94		0
	1	99	20.93	20.92	21.00		0
	50	0	20.78	20.70	20.74	0-2	0
	50	25	20.99	20.82	20.87		0
	50	50	20.87	20.91	20.83		0
	100	0	20.86	20.72	20.76	0	
64QAM	1	0	20.95	20.97	20.93	0-2	0
	1	50	20.99	21.00	20.98		0
	1	99	21.00	20.97	20.93		0
	50	0	20.25	20.68	20.77	0-3	0
	50	25	20.69	20.83	20.88		0
	50	50	20.89	20.87	20.79		0
	100	0	20.53	20.74	20.82	0	
256QAM	1	0	19.20	19.04	19.23	0-5	1
	1	50	19.42	19.46	19.45		1
	1	99	19.38	19.33	19.24		1
	50	0	19.25	19.20	19.23		1
	50	25	19.40	19.23	19.36		1
	50	50	19.37	19.37	19.32		1
	100	0	19.33	19.26	19.35		1

Table 9-76
LTE Band 2 (PCS) Reduced Conducted Powers - 15 MHz Bandwidth – Proximity Sensor and/or Earjack Active/5G NR and Proximity Sensor and/or Earjack Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.67	20.75	20.56	0	0
	1	36	20.73	20.80	20.65		0
	1	74	20.61	20.76	20.61		0
	36	0	20.70	20.66	20.77	0-1	0
	36	18	20.83	20.74	20.84		0
	36	37	20.80	20.83	20.83		0
	75	0	20.74	20.69	20.73		0
16QAM	1	0	20.97	20.77	20.94	0-1	0
	1	36	20.80	20.87	20.97		0
	1	74	20.74	20.88	20.89		0
	36	0	20.71	20.72	20.79	0-2	0
	36	18	20.81	20.84	20.91		0
	36	37	20.83	20.93	20.87		0
	75	0	20.81	20.68	20.82		0
64QAM	1	0	21.00	20.98	20.88	0-2	0
	1	36	20.98	20.87	20.84		0
	1	74	20.54	20.82	20.63		0
	36	0	20.40	20.67	20.90	0-3	0
	36	18	20.17	20.79	20.88		0
	36	37	20.44	20.88	20.61		0
	75	0	20.08	20.80	20.64		0
256QAM	1	0	19.40	19.35	19.35	0-5	1
	1	36	19.55	19.55	19.46		1
	1	74	19.41	19.52	19.41		1
	36	0	19.35	19.35	19.30		1
	36	18	19.46	19.43	19.51		1
	36	37	19.45	19.50	19.43		1
	75	0	19.38	19.29	19.34		1

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Table 9-77

LTE Band 2 (PCS) Reduced Conducted Powers - 10 MHz Bandwidth – Proximity Sensor and/or Earjack Active/5G NR and Proximity Sensor and/or Earjack Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.46	20.43	20.82	0	0
	1	25	20.78	20.79	20.73		0
	1	49	20.57	20.57	20.73		0
	25	0	20.86	20.80	20.82	0-1	0
	25	12	20.97	20.93	20.94		0
	25	25	20.82	20.89	20.81		0
16QAM	50	0	20.87	20.81	20.82	0-1	0
	1	0	20.26	20.70	20.84		0
	1	25	20.63	20.99	20.90		0
	1	49	20.60	20.79	20.92	0-2	0
	25	0	20.93	20.85	20.90		0
	25	12	20.89	20.94	21.00		0
64QAM	25	25	20.90	20.92	20.88	0-2	0
	50	0	20.89	20.85	20.90		0
	1	0	20.67	20.44	20.74		0
	1	25	20.64	20.93	20.78	0-3	0
	1	49	20.74	20.56	20.68		0
	25	0	20.81	20.93	20.80		0
256QAM	25	12	20.28	20.88	20.81	0-3	0
	25	25	20.43	20.75	20.58		0
	50	0	20.10	20.85	20.67		0
	1	0	19.27	19.31	19.18	0-5	1
	1	25	19.48	19.42	19.32		1
	1	49	19.36	19.29	19.13		1
25	0	19.30	19.34	19.30	1		
25	12	19.42	19.50	19.45	1		
25	25	19.31	19.37	19.31	1		
	50	0	19.40	19.35	19.27	1	

Table 9-78

LTE Band 2 (PCS) Reduced Conducted Powers - 5 MHz Bandwidth – Proximity Sensor and/or Earjack Active/5G NR and Proximity Sensor and/or Earjack Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.85	20.78	20.64	0	0
	1	12	20.92	20.86	20.72		0
	1	24	20.83	20.78	20.60		0
	12	0	20.96	20.92	20.89	0-1	0
	12	6	21.00	20.99	20.89		0
	12	13	20.90	20.94	20.83		0
	25	0	20.93	20.88	20.85		0
16QAM	1	0	20.94	20.89	20.90	0-1	0
	1	12	20.89	20.82	20.81		0
	1	24	20.97	20.93	20.86		0
	12	0	21.00	20.97	20.93	0-2	0
	12	6	20.99	20.95	20.96		0
	12	13	20.94	20.99	20.83		0
	25	0	20.94	20.92	20.87		0
64QAM	1	0	20.67	20.96	20.96	0-2	0
	1	12	20.87	20.76	20.90		0
	1	24	20.99	20.82	20.93		0
	12	0	20.79	20.98	20.70	0-3	0
	12	6	20.67	20.84	20.66		0
	12	13	20.34	20.99	20.47		0
	25	0	20.41	20.89	20.55		0
256QAM	1	0	19.32	19.05	19.28	0-5	1
	1	12	19.54	19.35	19.32		1
	1	24	19.35	19.22	19.28		1
	12	0	19.32	19.05	19.22		1
	12	6	19.36	19.12	19.30		1
	12	13	19.30	19.22	19.23		1
	25	0	19.26	19.33	19.27		1

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Table 9-79

LTE Band 2 (PCS) Reduced Conducted Powers - 3 MHz Bandwidth – Proximity Sensor and/or Earjack Active/5G NR and Proximity Sensor and/or Earjack Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.82	20.76	20.73	0	0
	1	7	20.75	20.85	20.68		0
	1	14	20.76	20.73	20.65		0
	8	0	20.94	20.89	20.90	0-1	0
	8	4	20.93	20.94	20.94		0
	8	7	20.89	20.92	20.86		0
	15	0	20.94	20.92	20.90		0
16QAM	1	0	20.65	20.78	20.90	0-1	0
	1	7	20.61	20.80	20.87		0
	1	14	20.58	20.89	20.90		0
	8	0	20.87	20.81	20.98	0-2	0
	8	4	20.86	20.86	21.00		0
	8	7	20.80	20.81	20.94		0
	15	0	20.93	20.97	21.00		0
64QAM	1	0	20.44	20.91	20.87	0-2	0
	1	7	20.65	20.91	20.75		0
	1	14	20.66	20.89	20.82		0
	8	0	20.82	20.92	20.69	0-3	0
	8	4	20.99	20.88	20.69		0
	8	7	20.33	20.95	20.62		0
	15	0	20.48	20.97	20.57		0
256QAM	1	0	19.41	19.33	19.36	e	1
	1	7	19.26	19.45	19.50		1
	1	14	19.28	19.38	19.33		1
	8	0	19.39	19.35	19.31		1
	8	4	19.37	19.34	19.29		1
	8	7	19.33	19.27	19.20		1
	15	0	19.33	19.30	19.30		1

Table 9-80

LTE Band 2 (PCS) Reduced Conducted Powers -1.4 MHz Bandwidth – Proximity Sensor and/or Earjack Active/5G NR and Proximity Sensor and/or Earjack Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)			
			Conducted Power [dBm]					
QPSK	1	0	20.72	20.81	20.62	0	0	
	1	2	20.78	20.80	20.67		0	
	1	5	20.71	20.70	20.56		0	
	3	0	20.78	20.78	20.72		0	
	3	2	20.84	20.84	20.78		0	
	3	3	20.78	20.81	20.72		0	
16QAM	6	0	20.87	20.87	20.81	0-1	0	
	1	0	20.58	20.57	20.94	0-1	0	
	1	2	20.68	20.65	20.98		0	
	1	5	20.57	20.58	20.95		0	
	3	0	20.98	20.97	20.81		0	
	3	2	20.95	21.00	20.84		0	
64QAM	3	3	20.98	20.97	20.84		0-2	0
	6	0	20.81	20.81	20.86	0		
	1	0	20.43	20.64	20.83	0-2		0
	1	2	20.57	20.79	20.86			0
	1	5	20.56	20.62	20.76			0
	3	0	20.72	20.96	20.77			0
256QAM	3	2	20.84	20.98	20.79		0-3	0
	3	3	20.82	20.99	20.74			0
	6	0	20.31	20.85	20.51	0		
	1	0	19.36	19.33	19.17	0-5		1
	1	2	19.40	19.42	19.37			1
	1	5	19.40	19.23	19.29			1
3	0	19.22	19.41	19.34	1			
3	2	19.40	19.44	19.41	1			
3	3	19.33	19.37	19.31	1			
256QAM	6	0	19.22	19.25	19.27		1	

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9.3.10

LTE Band 30

Table 9-81
LTE Band 30 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	23.22	0	0
	1	25	23.33		0
	1	49	23.30		0
	25	0	22.24	0-1	1
	25	12	22.44		1
	25	25	22.43		1
	50	0	22.31		1
16QAM	1	0	22.75	0-1	1
	1	25	22.63		1
	1	49	22.64		1
	25	0	21.31	0-2	2
	25	12	21.54		2
	25	25	21.37		2
	50	0	21.40		2
64QAM	1	0	21.30	0-2	2
	1	25	21.30		2
	1	49	21.28		2
	25	0	20.28	0-3	3
	25	12	20.44		3
	25	25	20.32		3
	50	0	20.33		3
256QAM	1	0	18.59	0-5	5
	1	25	18.76		5
	1	49	18.71		5
	25	0	18.73		5
	25	12	18.82		5
	25	25	18.78		5
	50	0	18.68		5

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Table 9-82
LTE Band 30 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	23.38	0	0
	1	12	23.37		0
	1	24	23.11		0
	12	0	22.48	0-1	1
	12	6	22.55		1
	12	13	22.42		1
	25	0	22.43		1
16QAM	1	0	22.72	0-1	1
	1	12	22.73		1
	1	24	22.37		1
	12	0	21.54	0-2	2
	12	6	21.69		2
	12	13	21.49		2
	25	0	21.53		2
64QAM	1	0	21.13	0-2	2
	1	12	20.96		2
	1	24	20.87		2
	12	0	19.97	0-3	3
	12	6	19.90		3
	12	13	19.95		3
	25	0	19.93		3
256QAM	1	0	18.57	0-5	5
	1	12	18.56		5
	1	24	18.50		5
	12	0	18.85		5
	12	6	18.61		5
	12	13	18.57		5
	25	0	18.49		5

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-83
LTE Band 30 Reduced Conducted Powers - 10 MHz Bandwidth – Hotspot Mode Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	20.46	0	0
	1	25	20.31		0
	1	49	20.36		0
	25	0	20.62	0-1	0
	25	12	20.48		0
	25	25	20.41		0
	50	0	20.41		0
16QAM	1	0	20.80	0-1	0
	1	25	20.75		0
	1	49	20.76		0
	25	0	20.59	0-2	0
	25	12	20.57		0
	25	25	20.49		0
	50	0	20.47		0
64QAM	1	0	20.75	0-2	0
	1	25	20.81		0
	1	49	20.73		0
	25	0	20.65	0-3	0
	25	12	20.61		0
	25	25	20.42		0
	50	0	20.55		0
256QAM	1	0	18.95	0-5	2
	1	25	18.90		2
	1	49	18.72		2
	25	0	18.99		2
	25	12	18.98		2
	25	25	18.90		2
	50	0	18.94		2

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Table 9-84
LTE Band 30 Reduced Conducted Powers - 5 MHz Bandwidth - Hotspot Mode Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	20.40	0	0
	1	12	20.50		0
	1	24	20.24		0
	12	0	20.55	0-1	0
	12	6	20.51		0
	12	13	20.44		0
	25	0	20.48		0
16QAM	1	0	20.68	0-1	0
	1	12	20.77		0
	1	24	20.68		0
	12	0	20.54	0-2	0
	12	6	20.53		0
	12	13	20.47		0
	25	0	20.51		0
64QAM	1	0	20.53	0-2	0
	1	12	20.71		0
	1	24	20.52		0
	12	0	20.51	0-3	0
	12	6	20.51		0
	12	13	20.44		0
	25	0	20.50		0
256QAM	1	0	18.92	0-5	2
	1	12	18.99		2
	1	24	18.90		2
	12	0	18.95		2
	12	6	18.99		2
	12	13	18.93		2
	25	0	18.96		2

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-85

LTE Band 30 Reduced Conducted Powers - 10 MHz Bandwidth – Proximity Sensor and/or Earjack Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	22.99	0	0
	1	25	22.98		0
	1	49	23.00		0
	25	0	22.98	0-1	0
	25	12	23.00		0
	25	25	22.98		0
	50	0	22.99		0
16QAM	1	0	23.00	0-1	0
	1	25	22.99		0
	1	49	22.96		0
	25	0	21.96	0-2	1
	25	12	22.00		1
	25	25	22.00		1
	50	0	21.95		1
64QAM	1	0	21.57	0-2	1
	1	25	21.56		1
	1	49	21.05		1
	25	0	20.24	0-3	2
	25	12	20.35		2
	25	25	20.00		2
	50	0	20.24		2
256QAM	1	0	19.00	0-5	4
	1	25	18.99		4
	1	49	18.77		4
	25	0	18.91		4
	25	12	18.94		4
	25	25	18.99		4
	50	0	19.00		4

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Table 9-86

LTE Band 30 Reduced Conducted Powers - 5 MHz Bandwidth - Proximity Sensor and/or Earjack Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	22.94	0	0
	1	12	22.90		0
	1	24	22.86		0
	12	0	22.75	0-1	0
	12	6	22.84		0
	12	13	22.66		0
	25	0	22.72		0
16QAM	1	0	22.96	0-1	0
	1	12	22.88		0
	1	24	22.71		0
	12	0	21.88	0-2	1
	12	6	21.96		1
	12	13	21.78		1
	25	0	21.81		1
64QAM	1	0	21.32	0-2	1
	1	12	21.31		1
	1	24	21.01		1
	12	0	20.18	0-3	2
	12	6	20.24		2
	12	13	20.00		2
	25	0	20.10		2
256QAM	1	0	19.00	0-5	4
	1	12	18.97		4
	1	24	18.98		4
	12	0	18.95		4
	12	6	19.00		4
	12	13	18.99		4
	25	0	18.97		4

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-87

LTE Band 30 Reduced Conducted Powers - 10 MHz Bandwidth – 5G NR Active and Hotspot Mode Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	19.74	0	0
	1	25	19.60		0
	1	49	19.56		0
	25	0	19.71	0-1	0
	25	12	19.69		0
	25	25	19.60		0
	50	0	19.62		0
16QAM	1	0	20.05	0-1	0
	1	25	20.08		0
	1	49	20.00		0
	25	0	19.77	0-2	0
	25	12	19.71		0
	25	25	19.64		0
	50	0	19.67		0
64QAM	1	0	20.10	0-2	0
	1	25	20.12		0
	1	49	20.02		0
	25	0	19.87	0-3	0
	25	12	19.80		0
	25	25	19.68		0
	50	0	19.78		0
256QAM	1	0	18.48	0-5	1.5
	1	25	18.51		1.5
	1	49	18.34		1.5
	25	0	18.52		1.5
	25	12	18.47		1.5
	25	25	18.37		1.5
	50	0	18.29		1.5

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Table 9-88

LTE Band 30 Reduced Conducted Powers - 5 MHz Bandwidth – 5G NR Active and Hotspot Mode Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	19.76	0	0
	1	12	19.75		0
	1	24	19.70		0
	12	0	19.76	0-1	0
	12	6	19.84		0
	12	13	19.81		0
	25	0	19.80		0
16QAM	1	0	19.89	0-1	0
	1	12	19.92		0
	1	24	19.93		0
	12	0	19.88	0-2	0
	12	6	19.86		0
	12	13	19.84		0
	25	0	19.84		0
64QAM	1	0	19.88	0-2	0
	1	12	19.90		0
	1	24	19.91		0
	12	0	20.03	0-3	0
	12	6	20.00		0
	12	13	19.98		0
	25	0	19.86		0
256QAM	1	0	18.79	0-5	1.5
	1	12	18.70		1.5
	1	24	18.64		1.5
	12	0	18.54		1.5
	12	6	18.51		1.5
	12	13	18.25		1.5
	25	0	18.19		1.5

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-89
LTE Band 30 Reduced Conducted Powers - 10 MHz Bandwidth – 5G NR Active and Proximity Sensor
and/or Earjack Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	21.01	0	0
	1	25	20.86		0
	1	49	20.80		0
	25	0	21.02	0-1	0
	25	12	20.93		0
	25	25	20.80		0
	50	0	21.00		0
16QAM	1	0	21.42	0-1	0
	1	25	21.27		0
	1	49	21.22		0
	25	0	21.01	0-2	0
	25	12	20.98		0
	25	25	20.92		0
	50	0	20.89		0
64QAM	1	0	21.40	0-2	0
	1	25	21.33		0
	1	49	21.17		0
	25	0	20.33	0-3	0.5
	25	12	20.30		0.5
	25	25	20.14		0.5
	50	0	20.19		0.5
256QAM	1	0	18.13	0-5	2.5
	1	25	18.31		2.5
	1	49	17.97		2.5
	25	0	18.08		2.5
	25	12	18.15		2.5
	25	25	18.00		2.5
	50	0	18.13		2.5

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Table 9-90
LTE Band 30 Reduced Conducted Powers - 5 MHz Bandwidth – 5G NR Active and Proximity Sensor and/or Earjack Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	20.92	0	0
	1	12	20.98		0
	1	24	20.90		0
	12	0	21.02	0-1	0
	12	6	20.99		0
	12	13	20.94		0
16QAM	25	0	20.98	0-1	0
	1	0	21.31		0
	1	12	21.27		0
	1	24	21.16		0
	12	0	21.12	0-2	0
	12	6	21.11		0
	12	13	21.00		0
	25	0	20.94		0
64QAM	1	0	21.21	0-2	0
	1	12	21.25		0
	1	24	21.11		0
	12	0	20.26	0-3	0.5
	12	6	20.30		0.5
	12	13	20.23		0.5
	25	0	20.18		0.5
	25	0	18.35	0-5	2.5
256QAM	1	12	18.67		2.5
	1	24	18.15		2.5
	12	0	18.23		2.5
	12	6	18.12		2.5
	12	13	18.11		2.5
	25	0	18.15		2.5

Note: LTE Band 30 at 5 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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LTE Band 7

Table 9-91
LTE Band 7 Maximum Conducted Powers - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.67	23.33	23.25	0	0
	1	50	23.58	23.24	23.27		0
	1	99	23.52	23.26	23.37		0
	50	0	22.76	22.50	22.40	0-1	1
	50	25	22.74	22.49	22.38		1
	50	50	22.64	22.45	22.40		1
16QAM	100	0	22.64	22.48	22.34	0-1	1
	1	0	22.84	22.69	22.53		1
	1	50	22.74	22.61	22.48		1
	1	99	22.72	22.59	22.46	0-2	1
	50	0	21.76	21.51	21.26		2
	50	25	21.73	21.49	21.28		2
64QAM	50	50	21.66	21.42	21.33	0-2	2
	100	0	21.65	21.47	21.18		2
	1	0	21.80	21.68	21.46		0-2
	1	50	21.79	21.52	21.51	2	
	1	99	21.76	21.49	21.53	0-3	
	50	0	20.77	20.46	20.29		3
256QAM	50	25	20.71	20.49	20.31		0-3
	50	50	20.63	20.44	20.29	3	
	100	0	20.58	20.48	20.20	0-5	
	1	0	18.47	18.33	18.35		5
	1	50	18.76	18.44	18.37		5
	1	99	18.41	18.35	18.13		5
50	0	18.57	18.37	18.24	5		
50	25	18.67	18.47	18.26	5		
256QAM	50	50	18.59	18.30	18.25	0-5	5
	100	0	18.59	18.43	18.20		5

Table 9-92
LTE Band 7 Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)			
			Conducted Power [dBm]					
QPSK	1	0	23.40	23.23	23.16	0	0	
	1	36	23.43	23.15	23.17		0	
	1	74	23.28	23.28	23.22		0	
	36	0	22.60	22.34	22.37	0-1	1	
	36	18	22.56	22.40	22.39		1	
	36	37	22.40	22.35	22.41		1	
16QAM	75	0	22.49	22.32	22.43	0-1	1	
	1	0	22.70	22.54	22.55		1	
	1	36	22.60	22.55	22.47	0-2	1	
	1	74	22.54	22.43	22.30		1	
	36	0	21.65	21.32	21.42		2	
	36	18	21.51	21.38	21.29	0-2	2	
36	37	21.48	21.30	21.46	2			
75	0	21.54	21.36	21.22	2			
64QAM	1	0	21.75	21.44	21.57	0-2	2	
	1	36	21.65	21.37	21.47		2	
	1	74	21.41	21.50	21.50		2	
	36	0	20.69	20.31	20.37	0-3	3	
	36	18	20.59	20.40	20.43		3	
	36	37	20.52	20.33	20.48		3	
256QAM	75	0	20.55	20.23	20.32	0-5	3	
	1	0	18.39	18.22	18.29		5	
	1	36	18.57	18.38	18.41		5	
	1	74	18.25	18.24	18.37		5	
	36	0	18.46	18.12	18.21		5	
	36	18	18.53	18.35	18.32		5	
	36	37	18.54	18.18	18.29		5	
	75	0	18.56	18.26	18.22		5	

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Table 9-93
LTE Band 7 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.17	22.95	23.21	0	0
	1	25	23.16	22.99	23.16		0
	1	49	23.20	23.03	23.18		0
	25	0	22.10	22.06	22.22	0-1	1
	25	12	22.19	22.11	22.19		1
	25	25	22.20	22.09	22.32		1
16QAM	50	0	22.07	22.04	22.12	0-1	1
	1	0	22.57	22.51	22.55		1
	1	25	22.52	22.36	22.47		1
	1	49	22.59	22.60	22.46	0-2	1
	25	0	21.25	20.95	21.23		2
	25	12	21.19	21.11	21.16		2
64QAM	25	25	21.25	21.15	21.25	0-2	2
	50	0	21.11	21.20	21.14		2
	1	0	21.33	21.23	21.34		2
	1	25	21.39	21.22	21.31	0-3	2
	1	49	21.44	21.25	21.30		2
	25	0	20.30	20.11	20.17		3
256QAM	25	12	20.47	20.09	20.31	0-5	3
	25	25	20.32	20.20	20.22		3
	50	0	20.23	20.10	20.14		3
	1	0	18.11	17.97	18.01	0-5	5
	1	25	18.03	17.95	18.21		5
	1	49	17.97	17.84	18.00		5
25	0	18.22	17.92	18.13	5		
25	12	18.26	18.17	18.02	5		
25	25	18.20	18.09	18.05	5		
	50	0	18.19	18.13	18.12		5

Table 9-94
LTE Band 7 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.31	22.99	23.09	0	0
	1	12	23.31	22.99	23.11		0
	1	24	23.16	23.03	23.15		0
	12	0	22.35	22.08	22.16	0-1	1
	12	6	22.42	22.15	22.29		1
	12	13	22.32	22.13	22.23		1
16QAM	25	0	22.36	22.14	22.21	0-1	1
	1	0	22.58	22.47	22.33		1
	1	12	22.43	22.59	22.58		1
	1	24	22.51	22.23	22.49	0-2	1
	12	0	21.41	21.21	21.26		2
	12	6	21.44	21.09	21.35		2
12	13	21.41	21.18	21.28	2		
64QAM	25	0	21.42	21.11	21.23	0-2	2
	1	0	21.50	21.17	21.34		2
	1	12	21.36	21.24	21.36		2
	1	24	21.48	21.23	21.31	0-3	2
	12	0	20.27	20.12	20.19		3
	12	6	20.31	20.17	20.31		3
12	13	20.32	20.14	20.23	3		
256QAM	25	0	20.29	20.10	20.19	0-5	3
	1	0	18.25	18.20	18.17		5
	1	12	18.04	18.34	18.16		5
	1	24	18.31	18.17	18.35	5	
	12	0	18.33	18.07	18.03	5	
	12	6	18.39	18.03	18.26	5	
	12	13	18.32	18.03	18.24	5	
	25	0	18.25	18.10	18.12	5	

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Table 9-95

LTE Band 7 Reduced Conducted Powers - 20 MHz Bandwidth – Hotspot/ Proximity Sensor and/or Earjack Active

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.70	20.56	20.32	0	0
	1	50	20.66	20.35	20.14		0
	1	99	20.59	20.31	20.12		0
	50	0	20.90	20.57	20.36	0-1	0
	50	25	20.82	20.56	20.31		0
	50	50	20.77	20.49	20.35		0
	100	0	20.68	20.55	20.24	0	
16QAM	1	0	21.05	20.87	20.65	0-1	0
	1	50	21.00	20.94	20.53		0
	1	99	20.89	20.64	20.45		0
	50	0	20.91	20.58	20.33	0-2	0
	50	25	20.89	20.58	20.34		0
	50	50	20.78	20.47	20.33		0
	100	0	20.80	20.49	20.23	0	
64QAM	1	0	20.97	20.75	20.52	0-2	0
	1	50	20.99	20.69	20.51		0
	1	99	20.83	20.46	20.25		0
	50	0	20.86	20.54	20.33	0-3	0.5
	50	25	20.84	20.56	20.36		0.5
	50	50	20.81	20.49	20.32		0.5
	100	0	20.79	20.53	20.26	0.5	
256QAM	1	0	18.12	18.22	18.09	0-5	2.5
	1	50	18.33	18.19	18.11		2.5
	1	99	18.06	17.99	17.79		2.5
	50	0	18.24	18.10	17.96		2.5
	50	25	18.30	18.17	18.03		2.5
	50	50	18.19	17.96	17.92		2.5
	100	0	18.25	18.16	17.94		2.5

Table 9-96

LTE Band 7 Reduced Conducted Powers - 15 MHz Bandwidth – Hotspot/ Proximity Sensor and/or Earjack Active

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.83	20.35	20.37	0	0
	1	36	20.81	20.32	20.34		0
	1	74	20.76	20.31	20.28		0
	36	0	20.82	20.35	20.25	0-1	0
	36	18	20.81	20.32	20.28		0
	36	37	20.80	20.29	20.28		0
16QAM	75	0	20.77	20.23	20.30	0-1	0
	1	0	21.16	20.31	20.53		0
	1	36	21.12	20.29	20.59		0
	1	74	21.09	20.30	20.57	0-2	0
	36	0	20.90	20.31	20.49		0
	36	18	20.90	20.28	20.38		0
64QAM	36	37	20.86	20.32	20.36	0-2	0
	75	0	20.85	20.30	20.32		0
	1	0	21.20	20.29	20.79	0-2	0
	1	36	21.19	20.29	20.80		0
	1	74	21.18	20.27	20.80		0
	36	0	20.45	20.30	20.37	0-3	0.5
36	18	20.43	20.30	20.17	0.5		
36	37	20.40	20.29	20.07	0.5		
256QAM	75	0	20.35	20.29	20.02	0-5	0.5
	1	0	18.50	17.99	18.26		2.5
	1	36	18.67	17.93	18.28		2.5
	1	74	18.54	17.95	18.28		2.5
	36	0	18.34	18.04	18.16		2.5
	36	18	18.40	18.22	18.08		2.5
	36	37	18.36	18.24	18.04		2.5
	75	0	18.35	18.23	18.01		2.5

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LTE Band 7 Reduced Conducted Powers - 10 MHz Bandwidth – Hotspot/ Proximity Sensor and/or Earjack Active

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.67	20.28	20.00	0	0
	1	25	20.65	20.20	19.95		0
	1	49	20.57	20.23	20.01		0
	25	0	20.68	20.32	20.08	0-1	0
	25	12	20.68	20.39	20.09		0
	25	25	20.68	20.39	20.11		0
16QAM	50	0	20.67	20.34	20.06	0-1	0
	1	0	21.09	20.57	20.35		0
	1	25	21.12	20.47	20.42		0
	1	49	21.12	20.44	20.44	0-2	0
	25	0	20.79	20.42	20.33		0
	25	12	20.79	20.41	20.22		0
64QAM	25	25	20.77	20.42	20.23	0-2	0
	50	0	20.72	20.41	20.26		0
	1	0	20.68	20.31	20.43	0-2	0
	1	25	20.71	20.29	20.48		0
	1	49	20.71	20.31	20.35		0
	25	0	20.32	20.25	20.05	0-3	0.5
25	12	20.31	20.21	19.90	0.5		
25	25	20.27	20.22	19.92	0.5		
256QAM	50	0	20.22	20.14	19.87	0-5	0.5
	1	0	18.50	17.75	17.60		2.5
	1	25	18.67	17.82	17.65		2.5
	1	49	18.65	17.79	17.70		2.5
	25	0	18.34	17.95	17.82	2.5	
	25	12	18.25	18.06	17.82	2.5	
256QAM	25	25	18.19	18.13	17.81	0-5	2.5
	50	0	18.19	18.07	17.76		2.5

Table 9-98

LTE Band 7 Reduced Conducted Powers - 5 MHz Bandwidth – Hotspot/ Proximity Sensor and/or Earjack Active

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.64	20.28	20.10	0	0
	1	12	20.60	20.24	20.14		0
	1	24	20.59	20.21	20.15		0
	12	0	20.62	20.29	20.15	0-1	0
	12	6	20.67	20.36	20.16		0
	12	13	20.68	20.36	20.16		0
16QAM	25	0	20.70	20.34	20.07	0-1	0
	1	0	21.04	20.65	20.32		0
	1	12	21.03	20.62	20.52		0
	1	24	21.04	20.60	20.54	0-2	0
	12	0	20.87	20.47	20.48		0
	12	6	20.82	20.43	20.37		0
64QAM	12	13	20.80	20.43	20.39	0-2	0
	25	0	20.78	20.39	20.08		0
	1	0	20.88	20.53	20.25		0-3
	1	12	20.86	20.51	20.34	0	
	1	24	20.83	20.50	20.35	0	
	12	0	20.54	20.40	20.11	0.5	
256QAM	12	6	20.41	20.21	19.87	0-3	0.5
	12	13	20.38	20.20	19.89		0.5
	25	0	20.33	20.14	19.85		0.5
	1	0	17.83	17.91	17.95	0-5	2.5
	1	12	17.82	17.76	17.96		2.5
	1	24	17.83	17.71	17.98		2.5
12	0	18.05	17.99	17.90	2.5		
12	6	18.17	18.05	17.86	2.5		
12	13	18.22	18.09	17.90	2.5		
	25	0	18.23	18.09	17.77		2.5

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LTE Band 48

Table 9-99
LTE Band Maximum 48 Conducted Powers - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.29	21.70	22.33	22.01	0	0
	1	50	21.36	21.76	22.30	21.97		0
	1	99	21.40	21.91	22.27	21.94		0
	50	0	20.28	20.80	21.31	21.03	0-1	1
	50	25	20.43	21.02	21.30	21.13		1
	50	50	20.45	20.92	21.14	21.01		1
	100	0	20.39	20.95	21.20	21.00	1	
16QAM	1	0	20.36	21.00	21.57	21.17	0-1	1
	1	50	20.36	21.10	21.69	21.14		1
	1	99	20.45	21.11	21.51	21.08		1
	50	0	19.33	19.82	20.29	20.13	0-2	2
	50	25	19.56	19.99	20.31	20.25		2
	50	50	19.55	19.91	20.14	20.08		2
	100	0	19.38	19.98	20.26	20.06		2
64QAM	1	0	19.70	20.14	20.26	20.47	0-2	2
	1	50	19.82	20.36	20.17	20.34		2
	1	99	19.91	20.48	20.15	20.42		2
	50	0	18.34	18.92	19.01	18.63	0-3	3
	50	25	18.58	19.08	19.13	18.76		3
	50	50	18.56	19.01	19.17	18.80		3
	100	0	18.48	19.02	19.12	18.69		3
256QAM	1	0	17.00	16.98	16.98	16.96	0-5	5
	1	50	16.89	17.07	17.05	17.02		5
	1	99	16.88	17.37	17.38	17.33		5
	50	0	17.12	17.26	17.20	17.14		5
	50	25	17.14	17.31	17.29	17.19		5
	50	50	17.04	17.42	17.44	17.05		5
	100	0	16.95	17.28	17.29	17.28		5

Table 9-100
LTE Band 48 Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 48 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55315 (3557.5 MHz)	55765 (3602.5 MHz)	56215 (3647.5 MHz)	56665 (3692.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.65	21.96	21.98	21.95	0	0
	1	36	21.51	22.01	21.96	21.60		0
	1	74	21.48	22.01	21.89	21.55		0
	36	0	20.63	20.90	21.06	20.64	0-1	1
	36	18	20.77	21.10	21.07	20.66		1
	36	37	20.69	20.99	20.95	20.76		1
	75	0	20.63	20.92	21.00	20.66		1
16QAM	1	0	20.53	21.11	21.12	20.44	0-1	1
	1	36	20.65	21.19	21.14	20.45		1
	1	74	20.58	21.13	20.97	20.42		1
	36	0	19.75	19.95	20.01	19.70	0-2	2
	36	18	19.84	20.12	20.02	19.72		2
	36	37	19.79	20.05	19.96	19.82		2
	75	0	19.72	20.01	20.02	19.69		2
64QAM	1	0	19.68	20.31	20.35	19.64	0-2	2
	1	36	19.73	20.39	20.34	19.65		2
	1	74	19.69	20.34	20.24	19.61		2
	36	0	18.94	19.14	19.22	18.89	0-3	3
	36	18	19.04	19.32	19.22	18.92		3
	36	37	18.96	19.25	19.16	19.03		3
	75	0	18.91	19.21	19.17	18.89		3
256QAM	1	0	17.10	17.20	17.22	16.91	0-5	5
	1	36	16.96	17.03	16.87	16.74		5
	1	74	17.04	17.34	17.10	16.87		5
	36	0	17.18	17.30	17.19	16.52		5
	36	18	17.19	17.28	17.13	16.59		5
	36	37	17.31	17.40	17.11	16.56		5
	75	0	17.25	17.36	17.10	16.58		5

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Table 9-101
LTE Band 48 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55290 (3555.0 MHz)	55757 (3601.7 MHz)	56223 (3648.3 MHz)	56690 (3695.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.55	21.67	21.57	22.10	0	0
	1	25	21.53	22.00	21.88	21.64		0
	1	49	21.65	21.60	21.67	21.74		0
	25	0	20.42	20.57	20.72	20.46	0-1	1
	25	12	20.60	20.82	20.87	20.58		1
	25	25	20.53	20.79	20.83	20.60		1
	50	0	20.50	20.73	20.84	20.56	1	
16QAM	1	0	20.65	20.54	20.50	20.63	0-1	1
	1	25	20.55	21.04	21.04	20.58		1
	1	49	20.97	21.05	21.04	20.77		1
	25	0	19.41	19.60	19.69	19.45	0-2	2
	25	12	19.60	19.86	19.85	19.60		2
	25	25	19.59	19.79	19.81	19.64		2
	50	0	19.53	19.78	19.80	19.57	2	
64QAM	1	0	19.43	19.74	19.93	19.24	0-2	2
	1	25	19.64	20.25	20.25	19.51		2
	1	49	19.50	20.26	19.99	19.49		2
	25	0	18.64	18.79	18.89	18.69	0-3	3
	25	12	18.84	19.05	19.10	18.79		3
	25	25	18.83	19.01	19.01	18.78		3
	50	0	18.74	18.97	18.98	18.75	3	
256QAM	1	0	16.92	17.00	16.85	16.89	0-5	5
	1	25	16.92	16.97	16.73	16.96		5
	1	49	17.11	17.17	16.89	16.83		5
	25	0	17.09	17.15	16.98	16.86	0-5	5
	25	12	17.14	17.18	16.99	16.72		5
	25	25	17.20	17.23	17.01	16.80		5
	50	0	17.17	17.21	17.02	16.86	5	

Table 9-102
LTE Band 48 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55265 (3552.5 MHz)	55748 (3600.8 MHz)	56232 (3649.2 MHz)	56715 (3697.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.51	21.59	21.73	21.65	0	0
	1	12	21.60	21.72	21.80	21.58		0
	1	24	21.58	21.65	21.82	21.69		0
	12	0	20.47	20.74	20.82	20.74	0-1	1
	12	6	20.56	20.83	20.91	20.56		1
	12	13	20.55	20.80	20.83	20.57		1
16QAM	25	0	20.57	20.75	20.91	20.53	0-1	1
	1	0	20.63	20.56	20.59	20.61		1
	1	12	20.66	20.47	20.56	20.52		1
	1	24	20.48	20.33	20.65	20.51	0-2	1
	12	0	19.57	19.75	19.97	19.59		2
	12	6	19.69	19.84	19.98	19.64		2
	12	13	19.62	19.87	19.99	19.66	2	
	25	0	19.47	19.77	19.94	19.70	2	
64QAM	1	0	19.60	19.53	19.79	19.62	0-2	2
	1	12	19.63	19.49	19.77	19.72		2
	1	24	19.74	19.58	19.86	19.70		2
	12	0	18.79	19.00	19.17	18.78	0-3	3
	12	6	18.90	19.05	19.19	18.83		3
	12	13	18.84	19.03	19.22	18.84		3
	25	0	18.69	19.01	19.14	18.66		3
256QAM	1	0	16.97	17.00	17.03	16.80	0-5	5
	1	12	16.90	16.96	16.84	16.83		5
	1	24	17.00	17.06	16.88	16.78		5
	12	0	17.13	17.21	17.07	16.97		5
	12	6	17.18	17.25	17.10	16.90		5
	12	13	17.20	17.26	17.09	16.96		5
	25	0	17.10	17.17	17.01	16.99		5

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LTE Band 41

Table 9-103
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	24.05	23.63	23.44	23.85	23.50	0	0
	1	50	23.92	23.62	23.74	24.07	23.86		0
	1	99	23.81	23.54	23.38	23.62	23.53		0
	50	0	22.81	22.43	22.69	23.08	22.75	0-1	1
	50	25	22.98	22.44	22.71	23.00	22.97		1
	50	50	22.79	22.48	22.60	22.87	22.84		1
	100	0	22.82	22.52	22.58	22.93	22.77		1
16QAM	1	0	23.17	22.84	22.64	23.14	22.70	0-1	1
	1	50	23.06	22.68	23.00	23.36	23.16		1
	1	99	22.99	22.71	22.54	22.91	22.82		1
	50	0	21.88	21.45	21.72	22.08	21.80	0-2	2
	50	25	21.98	21.61	21.75	22.14	21.99		2
	50	50	21.85	21.50	21.62	21.96	21.88		2
	100	0	21.83	21.54	21.60	21.95	21.81		2
64QAM	1	0	21.81	21.53	21.34	21.57	21.33	0-2	2
	1	50	21.64	21.47	21.62	21.83	21.72		2
	1	99	21.53	21.41	21.28	21.41	21.53		2
	50	0	21.07	20.89	20.88	21.12	20.98	0-3	3
	50	25	21.04	20.91	20.98	21.17	21.09		3
	50	50	20.98	20.90	20.84	21.08	21.11		3
	100	0	20.94	20.79	20.74	21.02	20.93		3
256QAM	1	0	18.68	18.33	18.52	18.72	18.58	0-5	5
	1	50	18.77	18.68	18.77	19.07	18.84		5
	1	99	18.45	18.35	18.39	18.62	18.69		5
	50	0	19.01	18.78	18.86	19.10	18.96		5
	50	25	19.02	18.85	18.89	19.18	19.13		5
	50	50	18.97	18.82	18.92	19.03	19.11		5
	100	0	18.89	18.79	18.83	19.04	18.97		5

Table 9-104
LTE Band 41 PC3 Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 41 15 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	23.94	23.54	23.71	24.10	23.64	0	0
	1	36	23.89	23.65	23.81	24.05	23.89		0
	1	74	23.73	23.52	23.38	23.75	23.66		0
	36	0	22.90	22.62	22.71	23.05	22.79	0-1	1
	36	18	22.93	22.78	22.73	23.02	22.48		1
	36	37	22.84	22.77	22.62	22.95	22.49		1
	75	0	22.83	22.77	22.63	22.92	22.40		1
16QAM	1	0	23.25	22.95	22.96	23.42	23.02	0-1	1
	1	36	23.14	23.08	23.02	23.40	23.19		1
	1	74	23.05	22.92	22.66	23.12	22.99		1
	36	0	21.92	21.65	21.69	22.03	21.37	0-2	2
	36	18	21.95	21.81	21.71	22.04	21.45		2
	36	37	21.88	21.80	21.67	21.96	21.40		2
	75	0	21.89	21.77	21.65	21.97	21.48		2
64QAM	1	0	22.12	21.58	21.86	22.23	21.84	0-2	2
	1	36	22.10	21.73	21.96	22.21	22.09		2
	1	74	22.03	21.59	21.69	21.97	21.92		2
	36	0	20.97	20.73	20.81	21.13	20.32	0-3	3
	36	18	21.00	20.86	20.78	21.08	20.43		3
	36	37	20.89	20.84	20.74	21.09	20.45		3
	75	0	20.94	20.82	20.71	21.02	20.50		3
256QAM	1	0	18.27	18.34	18.34	18.72	18.34	0-5	5
	1	36	18.46	18.54	18.45	18.75	18.58		5
	1	74	18.39	18.38	18.35	18.47	18.44		5
	36	0	18.54	18.68	18.59	18.97	18.66		5
	36	18	18.69	18.80	18.67	19.00	18.74		5
	36	37	18.67	18.68	18.69	18.92	18.78		5
	75	0	18.59	18.71	18.61	18.88	18.79		5

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Table 9-105
LTE Band 41 PC3 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 41 10 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	23.65	23.41	23.39	23.65	23.74	0	0	
	1	25	23.61	23.56	23.46	23.78	23.78		0	
	1	49	23.55	23.31	23.16	23.52	23.51		0	
	25	0	22.77	22.57	22.40	22.78	22.69	0-1	1	
	25	12	22.94	22.75	22.57	22.84	22.78		1	
	25	25	22.72	22.61	22.39	22.81	22.67		1	
16QAM	50	0	22.79	22.65	22.35	22.79	22.74	0-1	1	
	1	0	23.04	22.56	22.73	23.00	22.96		1	
	1	25	22.92	22.68	22.76	23.09	22.98		1	
	1	49	22.93	22.52	22.49	22.89	22.71	0-2	1	
	25	0	21.90	21.62	21.53	21.79	21.66		2	
	25	12	21.89	21.74	21.50	21.84	21.79		2	
64QAM	25	25	21.74	21.60	21.49	21.78	21.79	0-2	2	
	50	0	21.81	21.73	21.55	21.83	21.86		2	
	1	0	22.14	21.44	21.59	21.81	21.79		0-2	2
	1	25	22.10	21.52	21.57	21.83	21.77	2		
	1	49	22.01	21.39	21.38	21.89	21.54	0-3		2
	25	0	20.78	20.63	20.60	20.92	20.81		3	
25	12	20.92	20.75	20.57	20.94	20.89	3			
256QAM	25	25	20.72	20.68	20.59	20.89	20.77	0-3	3	
	50	0	20.81	20.73	20.49	20.95	20.81		0-5	3
	1	0	18.39	18.19	18.26	18.55	18.45			5
	1	25	18.46	18.33	18.40	18.54	18.53	0-5		5
	1	49	18.16	18.29	18.22	18.47	18.40		5	
	25	0	18.43	18.51	18.59	18.50	18.50		5	
256QAM	25	12	18.56	18.61	18.60	18.60	18.62	0-5	5	
	25	25	18.51	18.57	18.58	18.50	18.55		5	
	50	0	18.49	18.60	18.59	18.56	18.61		5	

Table 9-106
LTE Band 41 PC3 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 41 5 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	23.69	23.50	23.49	23.79	23.74	0	0
	1	12	23.76	23.53	23.40	24.00	23.61		0
	1	24	23.59	23.51	23.34	23.75	23.62		0
	12	0	22.63	22.52	22.32	22.73	22.63	0-1	1
	12	6	22.69	22.61	22.37	22.79	22.71		1
	12	13	22.60	22.51	22.39	22.78	22.68		1
16QAM	25	0	22.64	22.48	22.34	22.69	22.69	0-1	1
	1	0	22.77	22.61	22.62	22.99	22.83		1
	1	12	22.79	22.68	22.69	23.00	22.88		0-2
	1	24	22.67	22.54	22.53	22.83	22.71	1	
	12	0	21.70	21.41	21.30	21.83	21.69	2	
	12	6	21.78	21.46	21.34	21.87	21.85	2	
64QAM	12	13	21.66	21.39	21.35	21.85	21.72	0-2	2
	25	0	21.57	21.43	21.29	21.66	21.65		2
	1	0	21.78	21.49	21.52	21.79	21.74		0-2
	1	12	21.71	21.55	21.57	21.89	21.81	2	
	1	24	21.72	21.55	21.56	21.83	21.74	0-3	
	12	0	20.66	20.53	20.50	20.79	20.65		3
256QAM	12	6	20.79	20.60	20.52	20.86	20.85		0-3
	12	13	20.68	20.53	20.44	20.84	20.70	3	
	25	0	20.69	20.52	20.42	20.77	20.74	3	
	1	0	18.28	18.24	18.32	18.73	18.58	0-5	5
	1	12	18.34	18.38	18.34	18.52	18.57		5
	1	24	18.54	18.49	18.44	18.66	18.53		5
256QAM	12	0	18.22	18.41	18.48	18.83	18.49	0-5	5
	12	6	18.36	18.53	18.50	18.88	18.44		5
	12	13	18.49	18.57	18.54	18.88	18.67		5
	25	0	18.57	18.47	18.41	18.77	18.52		5

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Table 9-107

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

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	22.06	21.82	21.50	21.68	21.23	0	0
	1	50	22.00	21.74	21.91	21.91	21.71		0
	1	99	21.91	21.66	21.34	21.44	21.32		0
	50	0	22.01	21.79	21.71	21.82	21.47	0-1	0
	50	25	22.11	21.89	21.80	21.79	21.68		0
	50	50	21.97	21.79	21.69	21.69	21.57		0
	100	0	21.98	21.82	21.71	21.67	21.46	0	
16QAM	1	0	22.28	22.05	21.83	21.88	21.61	0-1	0
	1	50	22.21	21.94	22.22	22.07	22.04		0
	1	99	22.15	21.92	21.73	21.63	21.63		0
	50	0	21.80	21.41	21.67	21.82	21.53	0-2	0
	50	25	21.86	21.57	21.70	21.80	21.76		0
	50	50	21.74	21.46	21.59	21.65	21.62		0
	100	0	21.71	21.50	21.56	21.69	21.55	0	
64QAM	1	0	22.12	21.74	21.61	21.84	21.34	0-2	0
	1	50	22.03	21.71	22.08	22.17	21.87		0
	1	99	21.95	21.72	21.57	21.70	21.51		0
	50	0	20.83	20.47	20.72	21.10	20.79	0-3	1
	50	25	20.90	20.64	20.75	21.08	20.99		1
	50	50	20.74	20.54	20.62	20.93	20.89		1
	100	0	20.74	20.49	20.58	20.91	20.71	1	
256QAM	1	0	18.65	18.42	18.45	18.81	18.62	0-5	3
	1	50	18.95	18.70	18.83	19.09	19.03		3
	1	99	18.69	18.34	18.49	18.67	18.83		3
	50	0	19.19	18.93	18.98	19.31	19.17	0-5	3
	50	25	19.29	19.07	19.08	19.35	19.15		3
	50	50	19.21	18.88	19.07	19.22	19.21		3
	100	0	19.17	18.91	18.90	19.17	19.14	3	

Table 9-108

LTE Band 41 Reduced Conducted Powers - 15 MHz Bandwidth – Hotspot Mode Active

LTE Band 41 15 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	22.03	21.89	21.57	21.68	21.47	0	0
	1	36	22.03	22.02	21.74	21.80	21.73		0
	1	74	21.93	21.77	21.29	21.51	21.46		0
	36	0	22.07	21.83	21.68	21.77	21.64	0-1	0
	36	18	22.17	22.02	21.73	21.78	21.78		0
	36	37	22.10	21.95	21.65	21.77	21.78		0
	75	0	22.09	21.91	21.68	21.78	21.65	0	
16QAM	1	0	22.03	22.07	21.54	21.85	21.45	0-1	0
	1	36	21.99	22.21	21.66	21.94	21.74		0
	1	74	21.92	21.92	21.27	21.60	21.50		0
	36	0	22.08	21.78	21.65	21.63	21.59	0-2	0
	36	18	22.18	21.95	21.71	21.66	21.75		0
	36	37	22.08	21.90	21.64	21.63	21.73		0
	75	0	22.00	21.82	21.65	21.68	21.58	0	
64QAM	1	0	22.03	21.96	21.55	21.84	21.44	0-2	0
	1	36	22.02	22.13	21.67	21.94	21.68		0
	1	74	21.90	21.88	21.27	21.60	21.44		0
	36	0	21.07	20.78	20.67	20.62	20.62	0-3	1
	36	18	21.16	20.97	20.73	20.67	20.76		1
	36	37	21.09	20.92	20.65	20.63	20.72		1
	75	0	21.00	20.84	20.64	20.68	20.56	1	
256QAM	1	0	18.64	18.64	18.62	19.07	18.82	0-5	3
	1	36	18.88	18.87	18.78	19.10	19.11		3
	1	74	18.65	18.59	18.50	18.80	18.89		3
	36	0	18.93	19.00	19.02	19.35	19.21	0-5	3
	36	18	19.10	19.07	19.10	19.34	19.27		3
	36	37	18.97	18.96	19.11	19.32	19.24		3
	75	0	19.00	18.98	19.01	19.23	19.27	3	

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Table 9-109

LTE Band 41 Reduced Conducted Powers - 10 MHz Bandwidth – Hotspot Mode Active

LTE Band 41 10 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	22.08	21.73	21.81	21.35	21.63	0	0	
	1	25	22.00	21.78	21.63	21.56	21.65		0	
	1	49	22.08	21.56	21.60	21.62	21.64		0	
	25	0	21.84	21.62	21.58	21.65	21.66	0-1	0	
	25	12	22.04	21.74	21.84	21.55	21.60		0	
	25	25	21.83	21.62	21.45	21.49	21.57		0	
16QAM	50	0	21.81	21.65	21.48	21.59	21.54	0-1	0	
	1	0	21.76	21.52	21.55	21.66	21.63		0	
	1	25	21.81	22.00	21.35	21.93	21.73		0	
	1	49	21.72	21.76	21.60	21.78	21.61	0-2	0	
	25	0	21.90	21.54	21.67	21.69	21.47		0	
	25	12	21.90	21.69	21.69	21.67	21.47		0	
64QAM	25	25	21.83	21.56	21.60	21.53	21.45	0-2	0	
	50	0	21.75	21.62	21.64	21.44	21.40		0	
	1	0	21.91	21.48	21.62	21.79	21.31		0-2	0
	1	25	21.70	22.01	21.73	21.62	21.66	0		
	1	49	21.61	21.66	21.55	21.60	21.57	0		
	25	0	21.22	20.95	20.81	20.72	20.91	0-3	1	
25	12	21.23	21.06	20.82	20.79	20.88	1			
25	25	21.12	21.01	20.83	20.77	20.84	1			
256QAM	50	0	21.04	21.06	20.86	20.83	20.75	0-3	1	
	1	0	18.43	18.33	18.30	18.65	18.53		0-5	3
	1	25	18.66	18.61	18.63	18.92	18.80			3
	1	49	18.48	18.27	18.27	18.65	18.60	3		
	25	0	18.83	18.82	18.86	19.17	19.07	3		
	25	12	18.97	18.89	18.91	19.29	19.15	3		
25	25	18.85	18.91	18.90	19.14	19.03	3			
50	0	18.91	18.88	18.89	19.12	19.12	3			

Table 9-110

LTE Band 41 Reduced Conducted Powers - 5 MHz Bandwidth – Hotspot Mode Active

LTE Band 41 5 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	21.86	21.55	21.65	21.79	21.61	0	0
	1	12	21.88	21.59	21.50	21.86	21.54		0
	1	24	21.99	21.51	21.53	21.81	21.65		0
	12	0	21.84	21.67	21.62	21.91	21.79	0-1	0
	12	6	21.89	21.71	21.67	21.95	21.88		0
	12	13	21.85	21.66	21.48	21.96	21.84		0
16QAM	25	0	21.92	21.71	21.54	21.91	21.84	0	
	1	0	21.76	21.77	21.42	21.81	21.78	0-1	0
	1	12	21.64	21.73	21.61	21.82	21.72		0
	1	24	21.82	21.72	21.75	21.91	21.82		0
	12	0	21.95	21.86	21.82	21.84	21.75	0-2	0
	12	6	21.98	21.67	21.80	21.86	21.85		0
64QAM	12	13	21.93	21.63	21.88	21.90	21.81		0
	25	0	22.05	21.89	21.86	21.94	21.80	0-2	0
	1	0	21.73	21.60	21.45	21.55	21.60		0
	1	12	21.78	21.57	21.64	21.60	21.54		0
	1	24	21.61	21.66	21.45	21.29	21.71	0-3	0
	12	0	21.11	21.09	21.02	20.92	21.02		1
256QAM	12	6	21.15	21.15	21.02	20.99	21.08		1
	12	13	21.22	21.14	21.05	21.01	21.09	1	
	25	0	21.10	21.08	20.85	21.00	20.88	0-5	1
	1	0	18.90	18.63	18.68	18.95	18.83		3
	1	12	18.82	18.61	18.64	18.94	18.81		3
	1	24	18.82	18.62	18.71	18.97	18.85	3	
12	0	19.10	18.87	18.91	19.16	19.02	3		
256QAM	12	6	19.11	18.90	18.90	19.23	19.10	3	
	12	13	19.03	18.91	18.88	19.19	19.06	3	
	25	0	19.12	18.91	18.84	19.16	19.11	3	

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Table 9-111
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	26.60	26.26	26.21	26.59	26.21	0	0
	1	50	26.51	26.20	26.53	26.79	26.64		0
	1	99	26.36	26.14	26.05	26.35	26.28		0
	50	0	25.63	25.22	25.54	25.94	25.63	0-1	1
	50	25	25.71	25.39	25.62	25.92	25.82		1
	50	50	25.61	25.33	25.46	25.77	25.72		1
	100	0	25.60	25.34	25.47	25.80	25.63	1	
16QAM	1	0	26.06	25.76	25.60	26.04	25.62	0-1	1
	1	50	26.05	25.70	26.00	26.28	26.13		1
	1	99	25.87	25.63	25.44	25.72	25.72		1
	50	0	24.69	24.32	24.58	24.96	24.71	0-2	2
	50	25	24.78	24.48	24.63	24.88	24.92		2
	50	50	24.64	24.40	24.52	24.82	24.92		2
	100	0	24.66	24.42	24.54	24.85	24.80	2	
64QAM	1	0	24.13	24.45	24.26	24.70	24.29	0-2	2
	1	50	24.48	24.40	24.68	24.75	24.41		2
	1	99	24.64	24.27	24.20	24.40	24.22		2
	50	0	23.30	23.37	23.64	24.03	23.61	0-3	3
	50	25	23.66	23.54	23.67	23.96	23.58		3
	50	50	23.68	23.42	23.57	23.78	23.49		3
	100	0	23.58	23.41	23.54	23.84	23.51	3	
256QAM	1	0	21.43	21.19	21.20	21.59	21.32	0-5	5
	1	50	21.71	21.46	21.49	21.84	21.66		5
	1	99	21.32	21.20	21.26	21.48	21.51		5
	50	0	21.79	21.41	21.49	21.89	21.77	5	
	50	25	21.83	21.64	21.51	21.95	21.86	5	
	50	50	21.62	21.46	21.47	21.86	21.79	5	
	100	0	21.67	21.46	21.39	21.82	21.69	5	

Table 9-112
LTE Band 41 PC2 Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 41 15 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	26.60	26.30	26.42	26.74	26.42	0	0
	1	36	26.52	26.37	26.43	26.83	26.54		0
	1	74	26.44	26.34	26.22	26.48	26.48		0
	36	0	25.66	25.10	25.45	25.98	25.77	0-1	1
	36	18	25.74	25.28	25.57	25.95	25.63		1
	36	37	25.69	25.37	25.49	25.91	25.74		1
	75	0	25.54	25.44	26.00	25.86	25.66	1	
16QAM	1	0	26.09	25.86	26.03	26.24	26.13	0-1	1
	1	36	25.88	25.80	26.00	26.23	26.00		1
	1	74	25.73	25.57	25.74	25.92	25.64		1
	36	0	24.73	24.35	24.78	25.02	24.66	0-2	2
	36	18	24.66	24.55	24.93	25.00	24.82		2
	36	37	24.34	24.35	24.77	24.92	24.77		2
	75	0	24.57	24.32	24.67	24.96	24.84	2	
64QAM	1	0	24.41	24.47	24.36	24.80	24.32	0-2	2
	1	36	24.23	24.20	24.95	24.72	24.45		2
	1	74	24.55	24.57	24.33	24.32	24.45		2
	36	0	23.57	23.66	23.70	24.00	23.41	0-3	3
	36	18	23.55	23.52	23.76	23.92	23.47		3
	36	37	23.50	23.48	23.50	23.88	23.49		3
	75	0	23.59	23.42	23.22	23.85	23.55	3	
256QAM	1	0	21.23	21.29	21.40	21.68	21.34	0-5	5
	1	36	21.51	21.50	21.34	21.94	21.78		5
	1	74	21.23	21.33	21.37	21.58	21.62		5
	36	0	21.69	21.50	21.39	21.90	21.54		5
	36	18	21.72	21.54	21.54	21.85	21.70		5
	36	37	21.55	21.35	21.49	21.96	21.66		5
	75	0	21.57	21.55	21.48	21.72	21.70		5

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Table 9-113
LTE Band 41 PC2 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 41 10 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	26.81	26.06	26.14	26.39	26.41	0	0	
	1	25	26.53	26.28	26.32	26.62	26.63		0	
	1	49	26.49	26.01	26.06	26.32	26.39		0	
	25	0	25.74	25.34	25.38	25.69	25.69	0-1	1	
	25	12	25.76	25.46	25.41	25.76	25.78		1	
	25	25	25.72	25.39	25.40	25.71	25.64		1	
16QAM	50	0	25.66	25.42	25.37	25.66	25.73	0-1	1	
	1	0	26.16	25.62	25.63	25.97	25.89		1	
	1	25	26.02	25.88	25.80	26.16	26.04		1	
	1	49	25.99	25.61	25.54	25.94	25.79	0-2	1	
	25	0	24.72	24.38	24.32	24.68	24.64		2	
	25	12	24.73	24.53	24.43	24.73	24.76		2	
64QAM	25	25	24.66	24.44	24.36	24.72	24.62	0-2	2	
	50	0	24.70	24.45	24.36	24.77	24.73		2	
	1	0	24.74	24.72	24.71	25.08	24.81		0-2	2
	1	25	24.97	24.89	24.83	25.31	24.70	2		
	1	49	25.08	24.68	24.62	25.06	24.70	2		
	25	0	23.55	23.45	23.46	23.80	23.48	0-3	3	
25	12	23.69	23.63	23.53	23.87	23.46	3			
25	25	23.79	23.51	23.50	23.83	23.42	3			
256QAM	50	0	23.64	23.47	23.43	23.77	23.41	0-3	3	
	1	0	21.57	21.20	21.23	21.56	21.48		0-5	5
	1	25	21.70	21.23	21.44	21.85	21.66			5
	1	49	21.43	21.17	21.13	21.59	21.39	5		
	25	0	21.75	21.42	21.46	21.78	21.73	5		
	25	12	21.79	21.58	21.50	21.82	21.85	5		
25	25	21.72	21.45	21.47	21.76	21.71	5			
256QAM	50	0	21.76	21.43	21.42	21.81	21.76	0-5	5	

Table 9-114
LTE Band 41 PC2 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 41 5 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	26.64	26.31	26.40	26.69	26.58	0	0
	1	12	26.64	26.35	26.45	26.72	26.62		0
	1	24	26.57	26.36	26.42	26.73	26.61		0
	12	0	25.72	25.42	25.45	25.79	25.74	1	
	12	6	25.75	25.47	25.50	25.81	25.79	1	
	12	13	25.72	25.46	25.49	25.82	25.73	1	
16QAM	25	0	25.71	25.48	25.47	25.76	25.80	1	
	1	0	26.05	25.67	25.68	25.99	26.04	1	
	1	12	25.97	25.70	25.72	26.04	26.05	1	
	1	24	26.02	25.74	25.71	26.03	26.03	1	
	12	0	24.80	24.57	24.47	24.83	24.80	2	
	12	6	24.82	24.58	24.53	24.82	24.91	2	
64QAM	12	13	24.79	24.52	24.50	24.82	24.83	2	
	25	0	24.66	24.50	24.41	24.74	24.75	2	
	1	0	24.82	24.85	24.90	25.22	24.79	2	
	1	12	24.92	24.89	24.94	25.26	24.73	2	
	1	24	25.09	24.90	24.93	25.25	24.76	2	
	12	0	23.55	23.52	23.52	23.83	23.42	3	
256QAM	12	6	23.64	23.54	23.52	23.86	23.46	3	
	12	13	23.71	23.49	23.54	23.89	23.43	3	
	25	0	23.60	23.55	23.53	23.86	23.41	3	
	1	0	21.75	21.43	21.43	21.72	21.82	5	
	1	12	21.73	21.46	21.48	21.80	21.78	5	
	1	24	21.67	21.43	21.42	21.72	21.79	5	
256QAM	12	0	21.75	21.74	21.56	21.84	21.90	5	
	12	6	21.77	21.49	21.53	21.89	21.94	5	
	12	13	21.72	21.48	21.59	21.86	21.88	5	
	25	0	21.74	21.54	21.51	21.82	21.83	5	

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Table 9-115

LTE Band 41 PC2 Reduced Conducted Powers - 20 MHz Bandwidth – Hotspot Mode Active

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	21.78	21.49	21.24	21.25	21.00	0	0
	1	50	21.62	21.29	21.58	21.44	21.12		0
	1	99	21.30	21.23	21.11	21.18	20.97		0
	50	0	21.80	21.39	21.65	21.66	21.35	0-1	0
	50	25	21.88	21.55	21.70	21.64	21.54		0
	50	50	21.73	21.46	21.57	21.50	21.46		0
	100	0	21.77	21.48	21.55	21.55	21.37	0	
16QAM	1	0	22.26	21.95	21.74	21.81	21.45	0-1	0
	1	50	22.26	21.88	21.94	22.05	21.91		0
	1	99	22.11	21.86	21.58	21.57	21.52		0
	50	0	21.84	21.46	21.69	21.73	21.46	0-2	0
	50	25	21.93	21.62	21.72	21.70	21.66		0
	50	50	21.79	21.51	21.62	21.56	21.57		0
	100	0	21.83	21.54	21.62	21.55	21.43	0	
64QAM	1	0	22.02	21.55	21.35	21.47	21.06	0-2	0
	1	50	21.85	21.50	21.78	21.68	21.54		0
	1	99	21.80	21.54	21.36	21.23	21.16		0
	50	0	21.87	21.53	21.75	21.74	21.43	0-3	0
	50	25	21.97	21.44	21.78	21.76	21.69		0
	50	50	21.80	21.65	21.68	21.59	21.55		0
	100	0	21.81	21.54	21.63	21.61	21.41	0	
256QAM	1	0	21.85	21.65	21.50	21.75	21.70	0-5	0
	1	50	21.99	21.63	21.87	21.99	21.95		0
	1	99	21.84	21.58	21.59	21.72	21.94		0
	50	0	21.83	21.68	21.48	21.77	21.61	0-5	0
	50	25	21.93	21.79	21.56	21.82	21.82		0
	50	50	21.83	21.67	21.59	21.75	21.77		0
	100	0	21.82	21.69	21.62	21.72	21.71		0

Table 9-116

LTE Band 41 PC2 Reduced Conducted Powers - 15 MHz Bandwidth – Hotspot Mode Active

LTE Band 41 15 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	22.01	21.72	21.56	21.60	21.25	0	0
	1	36	22.03	21.86	21.50	21.80	21.55		0
	1	74	21.94	21.56	21.02	21.39	21.29		0
	36	0	21.91	21.58	21.48	21.59	21.42	0-1	0
	36	18	22.00	21.80	21.52	21.58	21.57		0
	36	37	21.90	21.73	21.45	21.55	21.56		0
	75	0	21.83	21.70	21.48	21.56	21.41	0	
16QAM	1	0	22.14	21.79	21.83	21.76	21.86	0-1	0
	1	36	22.21	21.98	22.01	21.81	22.14		0
	1	74	22.05	21.73	21.55	21.49	21.92		0
	36	0	21.93	21.65	21.35	21.57	21.39	0-2	0
	36	18	22.00	21.83	21.37	21.57	21.46		0
	36	37	21.93	21.75	21.32	21.57	21.50		0
	75	0	21.82	21.63	21.38	21.50	21.33	0	
64QAM	1	0	22.19	21.86	21.84	21.68	21.84	0-2	0
	1	36	22.21	21.98	22.01	21.83	22.21		0
	1	74	22.06	21.72	21.55	21.50	21.96		0
	36	0	21.92	21.66	21.36	21.59	21.38	0-3	0
	36	18	21.99	21.82	21.37	21.58	21.44		0
	36	37	21.92	21.75	21.30	21.58	21.50		0
	75	0	21.79	21.64	21.39	21.55	21.34	0	
256QAM	1	0	21.93	21.51	21.45	22.16	21.44	0-5	0
	1	36	21.72	21.67	21.48	22.27	21.61		0
	1	74	21.69	21.67	21.47	22.15	21.54		0
	36	0	21.89	21.71	21.55	21.76	21.61	0-5	0
	36	18	21.93	21.76	21.61	21.78	21.72		0
	36	37	21.94	21.78	21.62	21.79	21.74		0
	75	0	21.91	21.76	21.60	21.76	21.73		0

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Table 9-117

LTE Band 41 PC2 Reduced Conducted Powers - 10 MHz Bandwidth – Hotspot Mode Active

LTE Band 41 10 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	21.89	21.63	21.40	21.42	21.44	0	0	
	1	25	21.92	21.77	21.50	21.59	21.54		0	
	1	49	21.85	21.46	21.24	21.33	21.29		0	
	25	0	21.94	21.68	21.49	21.54	21.52	0-1	0	
	25	12	22.05	21.85	21.56	21.62	21.58		0	
	25	25	21.93	21.73	21.54	21.62	21.50		0	
16QAM	50	0	21.94	21.76	21.55	21.62	21.45	0-1	0	
	1	0	22.13	22.16	21.98	22.22	21.92		0	
	1	25	22.16	22.22	22.11	22.07	22.03		0	
	1	49	22.18	22.20	21.82	22.12	21.69	0-2	0	
	25	0	21.88	21.64	21.34	21.50	21.45		0	
	25	12	21.94	21.77	21.38	21.54	21.52		0	
64QAM	25	25	21.82	21.65	21.35	21.49	21.45	0-2	0	
	50	0	21.91	21.71	21.43	21.57	21.41		0	
	1	0	22.09	22.14	21.49	22.17	21.90		0-2	0
	1	25	22.10	22.18	21.75	22.19	22.04	0		
	1	49	22.17	22.15	21.86	22.07	21.69	0		
	25	0	21.89	21.64	21.36	21.52	21.46	0-3	0	
25	12	21.95	21.78	21.41	21.55	21.52	0			
25	25	21.83	21.66	21.35	21.51	21.46	0			
256QAM	50	0	21.90	21.69	21.45	21.57	21.40	0-3	0	
	1	0	21.72	21.45	21.36	21.67	21.42		0-5	0
	1	25	21.52	21.41	21.25	21.94	21.39			0
	1	49	21.23	21.31	21.39	21.69	21.37	0		
	25	0	21.69	21.57	21.40	21.49	21.46	0		
	25	12	21.75	21.72	21.47	21.56	21.58	0		
256QAM	25	25	21.66	21.63	21.43	21.50	21.50	0-5	0	
	50	0	21.70	21.65	21.40	21.54	21.54		0	

Table 9-118

LTE Band 41 PC2 Reduced Conducted Powers - 5 MHz Bandwidth – Hotspot Mode Active

LTE Band 41 5 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	21.87	21.75	21.32	21.41	21.46	0	0	
	1	12	22.04	21.85	21.39	21.35	21.52		0-1	0
	1	24	21.88	21.67	21.31	21.33	21.43			0
	12	0	21.94	21.83	21.51	21.58	21.50	0		
	12	6	21.97	21.85	21.55	21.62	21.51	0		
	12	13	21.94	21.79	21.57	21.68	21.54	0		
	25	0	21.99	21.81	21.59	21.69	21.53	0		
16QAM	1	0	22.11	22.03	21.36	21.47	21.70	0-1	0	
	1	12	21.99	21.98	21.32	21.35	21.82		0-2	0
	1	24	22.10	21.93	21.41	21.45	21.66			0
	12	0	22.02	21.86	21.42	21.47	21.54	0		
	12	6	22.08	21.93	21.42	21.51	21.56	0		
	12	13	22.00	21.84	21.52	21.56	21.60	0		
	25	0	21.82	21.66	21.53	21.54	21.50	0		
64QAM	1	0	22.13	22.00	21.42	21.47	21.73	0-2	0	
	1	12	21.98	21.97	21.36	21.41	21.85		0-3	0
	1	24	22.07	21.91	21.42	21.42	21.70			0
	12	0	22.02	21.85	21.43	21.50	21.56	0		
	12	6	22.07	21.91	21.43	21.50	21.55	0		
	12	13	21.98	21.83	21.54	21.58	21.61	0		
	25	0	21.82	21.66	21.52	21.53	21.49	0		
256QAM	1	0	21.80	21.69	21.48	21.67	21.55	0-5	0	
	1	12	21.75	21.67	21.50	21.69	21.61		0	
	1	24	21.74	21.69	21.50	21.70	21.60		0	
	12	0	21.72	21.66	21.45	21.60	21.56	0		
	12	6	21.74	21.69	21.47	21.63	21.58	0		
	12	13	21.70	21.67	21.49	21.66	21.57	0		
	25	0	21.66	21.64	21.41	21.58	21.54	0		

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Table 9-119

LTE Band 41 PC2 Reduced Conducted Powers - 20 MHz Bandwidth – Proximity Sensor and/or Earjack Active

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	24.87	24.36	24.17	24.33	24.02	0	0
	1	50	24.73	24.23	24.53	24.47	24.17		0
	1	99	24.61	24.18	24.07	24.10	24.00		0
	50	0	24.88	24.24	24.55	24.67	24.35	0-1	0
	50	25	24.96	24.42	24.60	24.64	24.55		0
	50	50	24.85	24.33	24.52	24.50	24.47		0
	100	0	24.86	24.35	24.49	24.52	24.36	0	
16QAM	1	0	25.00	24.74	24.58	24.72	24.42	0-1	0
	1	50	24.95	24.68	24.97	25.06	24.91		0
	1	99	25.11	24.61	24.46	24.58	24.53		0
	50	0	24.70	24.20	24.46	24.69	24.49	0-2	0
	50	25	24.81	24.36	24.58	24.66	24.71		0
	50	50	24.67	24.27	24.44	24.54	24.59		0
	100	0	24.70	24.30	24.43	24.60	24.49	0	
64QAM	1	0	24.16	24.34	24.13	24.45	24.16	0-2	0
	1	50	24.32	24.21	24.51	24.56	24.37		0
	1	99	24.56	24.04	24.13	24.30	24.18		0
	50	0	23.16	23.19	23.54	23.87	23.57	0-3	1
	50	25	23.50	23.43	23.61	23.75	23.57		1
	50	50	23.61	23.30	23.49	23.57	23.45		1
	100	0	23.44	23.29	23.45	23.65	23.48	1	
256QAM	1	0	21.93	21.76	21.54	21.94	21.96	0-5	3
	1	50	22.00	21.95	21.79	21.99	21.96		3
	1	99	22.00	21.61	21.91	21.87	22.00		3
	50	0	21.94	21.63	21.73	22.00	21.97	0-5	3
	50	25	21.94	21.69	21.61	22.01	21.93		3
	50	50	21.98	21.81	21.65	22.03	21.99		3
	100	0	21.93	21.81	21.61	21.98	21.98	3	

Table 9-120

LTE Band 41 PC2 Reduced Conducted Powers - 15 MHz Bandwidth – Proximity Sensor and/or Earjack Active

LTE Band 41									
15 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	24.87	24.51	24.30	24.28	24.25	0	0
	1	36	25.02	24.72	24.65	24.95	24.50		0
	1	74	24.89	24.56	24.21	24.62	24.57		0
	36	0	24.97	24.70	24.61	24.36	24.54	0-1	0
	36	18	24.67	24.35	24.68	24.72	24.50		0
	36	37	24.70	24.25	24.60	24.69	24.64		0
	75	0	24.96	24.39	24.66	24.59	24.50		0
16QAM	1	0	24.77	24.51	24.41	24.72	24.56	0-1	0
	1	36	25.01	24.49	24.47	24.52	24.47		0
	1	74	24.71	24.38	24.44	24.78	24.63		0
	36	0	24.28	24.39	24.58	24.37	24.57	0-2	0
	36	18	24.34	24.68	24.37	24.50	24.65		0
	36	37	24.30	24.53	24.60	24.36	24.56		0
	75	0	24.57	24.52	24.55	24.43	24.67		0
64QAM	1	0	24.35	24.57	24.70	24.64	24.57	0-2	0
	1	36	24.37	24.45	24.69	24.45	24.60		0
	1	74	24.23	24.36	24.60	24.51	24.49		0
	36	0	23.42	22.92	23.54	23.56	23.63	0-3	1
	36	18	23.34	23.09	23.45	23.39	23.68		1
	36	37	23.28	23.03	23.43	23.49	23.56		1
	75	0	23.22	23.26	23.39	23.62	23.53		1
256QAM	1	0	21.89	21.75	21.93	21.97	21.73	0-5	3
	1	36	21.81	21.61	21.97	21.91	21.75		3
	1	74	21.82	21.71	22.00	21.88	21.87		3
	36	0	21.80	21.64	21.78	21.94	21.90		3
	36	18	21.91	21.70	21.61	22.01	21.93		3
	36	37	21.97	21.73	21.65	21.99	21.98		3
	75	0	21.30	21.76	21.65	22.05	22.00		3

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Table 9-121

LTE Band 41 PC2 Reduced Conducted Powers - 10 MHz Bandwidth – Proximity Sensor and/or Earjack Active

LTE Band 41										
10 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	24.98	24.58	24.49	24.48	24.22	0	0	
	1	25	24.82	24.70	24.61	24.55	24.55		0	
	1	49	24.90	24.47	24.50	24.34	24.50		0	
	25	0	24.97	24.72	24.55	24.60	24.59	0-1	0	
	25	12	25.05	24.90	24.58	24.64	24.61		0	
	25	25	24.90	24.77	24.58	24.64	24.59		0	
16QAM	50	0	24.92	24.83	24.63	24.67	24.53	0-1	0	
	1	0	24.52	24.88	24.86	24.94	24.75		0	
	1	25	24.92	24.89	24.88	24.78	24.63		0	
	1	49	24.62	24.93	24.87	24.86	24.78	0-2	0	
	25	0	24.42	24.74	24.51	24.62	24.72		0	
	25	12	24.47	24.61	24.55	24.64	24.67		0	
64QAM	25	25	24.52	24.57	24.53	24.65	24.61	0-2	0	
	50	0	24.47	24.68	24.59	24.58	24.67		0	
	1	0	24.50	24.66	24.58	24.55	24.66		0-2	0
	1	25	24.54	24.52	24.53	24.59	24.76	0		
	1	49	24.53	24.56	24.56	24.60	24.65	0		
	25	0	23.47	23.50	23.61	23.63	23.66	0-3	1	
25	12	23.45	23.56	23.55	23.70	23.67	1			
25	25	23.45	23.52	23.64	23.68	23.66	1			
256QAM	50	0	23.51	23.48	23.63	23.64	23.65	0-3	1	
	1	0	21.39	21.35	21.14	21.49	21.53		0-5	3
	1	25	21.46	21.36	21.30	21.62	21.52			3
	1	49	21.35	21.29	21.27	21.56	21.44	3		
	25	0	21.59	21.42	21.28	21.73	21.62	3		
	25	12	21.81	21.62	21.46	21.83	21.77	3		
25	25	21.76	21.67	21.45	21.87	21.81	3			
256QAM	50	0	21.70	21.61	21.43	21.86	21.77	3		

Table 9-122

LTE Band 41 PC2 Reduced Conducted Powers - 5 MHz Bandwidth – Proximity Sensor and/or Earjack Active

LTE Band 41 5 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	24.69	24.64	24.59	24.43	24.34	0	0
	1	12	24.72	24.68	24.70	24.44	24.33		0
	1	24	24.65	24.63	24.62	24.42	24.35		0
	12	0	24.98	24.79	24.58	24.58	24.53	0-1	0
	12	6	24.86	24.85	24.59	24.64	24.62		0
	12	13	24.96	24.78	24.65	24.66	24.60		0
	25	0	24.65	24.84	24.65	24.69	24.56		0
16QAM	1	0	24.78	24.88	24.73	24.50	24.40	0-1	0
	1	12	24.67	24.94	24.70	24.43	24.36		0
	1	24	24.79	24.86	24.72	24.53	24.47		0
	12	0	24.67	24.92	24.69	24.65	24.62	0-2	0
	12	6	24.65	25.01	24.75	24.63	24.61		0
	12	13	24.56	24.91	24.77	24.73	24.60		0
	25	0	24.90	24.91	24.62	24.69	24.57		0
64QAM	1	0	24.66	24.82	24.55	24.87	24.60	0-2	0
	1	12	24.65	24.60	24.73	24.85	24.59		0
	1	24	24.67	24.53	24.61	24.69	24.57		0
	12	0	23.65	23.80	23.52	23.72	23.56	0-3	1
	12	6	23.59	23.91	23.56	23.70	23.49		1
	12	13	23.54	23.88	23.67	23.68	23.65		1
	25	0	23.45	23.58	23.55	23.68	23.52		1
256QAM	1	0	21.81	21.73	21.50	21.86	21.83	0-5	3
	1	12	21.78	21.71	21.51	21.89	21.83		3
	1	24	21.75	21.69	21.54	21.90	21.84		3
	12	0	21.74	21.69	21.51	21.88	21.78		3
	12	6	21.74	21.69	21.50	21.87	21.77		3
	12	13	21.76	21.70	21.52	21.88	21.84		3
	25	0	21.73	21.67	21.49	21.89	21.80		3

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9.3.14 LTE Uplink Carrier Aggregation Conducted Powers

Table 9-123
LTE Uplink Carrier Aggregation Conducted Powers

Combination	PCC										SCC								Power	
	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	25.59	24.80

Notes:

1. This device supports uplink carrier aggregation for LTE CA_5B with a maximum of one 10 MHz component carrier and one 5 MHz component carrier. For intraband contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

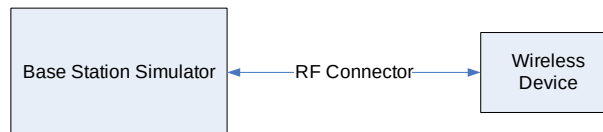


Figure 9-3
Power Measurement Setup

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9.4 NR Conducted Powers

9.4.1 NR Band n71

Table 9-124
NR Band n71 Maximum Conducted Powers - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.74	0	0
	1	53	25.15		0
	1	104	24.65		0
	50	0	24.17	0-1	1
	50	26	25.15	0	0
	50	53	24.14	0-1	1
	100	0	24.12		1
DFT-s-OFDM 16QAM	1	1	23.46	0-1	1
CP-OFDM QPSK	1	1	23.15	0-1.5	1.5

Table 9-125
NR Band n71 Maximum Conducted Powers - 15 MHz Bandwidth

NR Band n71 15 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	134100 (670.5 MHz)	138100 (690.5 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	24.35	24.81	0	0
	1	40	24.62	24.49		0
	1	77	24.60	24.12		0
	36	0	23.83	23.69	0-1	1
	36	20	24.72	24.44	0	0
	36	40	23.77	23.43	0-1	1
	75	0	23.48	23.24		1
DFT-s-OFDM 16QAM	1	1	23.07	23.52	0-1	1
CP-OFDM QPSK	1	1	22.72	23.32	0-1.5	1.5

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Table 9-126
NR Band n71 Maximum Conducted Powers - 10 MHz Bandwidth

NR Band n71 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	133600 (668 MHz)	136100 (680.5 MHz)	138600 (693 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	23.95	24.08	24.23	0	0
	1	26	24.60	24.44	24.30		0
	1	50	24.23	24.10	23.82		0
	25	0	23.36	23.26	23.18	0-1	1
	25	13	24.50	24.42	24.18	0	0
	25	26	23.46	23.30	23.15	0-1	1
	50	0	23.04	22.93	22.73		1
DFT-s-OFDM 16QAM	1	1	22.98	23.01	23.32	0-1	1
CP-OFDM QPSK	1	1	22.36	22.84	22.82	0-1.5	1.5

Table 9-127
NR Band n71 Maximum Conducted Powers - 5 MHz Bandwidth

NR Band n71 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	133100 (665.5 MHz)	136100 (680.5 MHz)	139100 (695.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	24.14	24.73	24.82	0	0
	1	13	24.66	24.84	24.89		0
	1	23	24.46	24.84	24.40		0
	12	0	23.50	23.78	23.85	0-1	1
	12	6	24.63	24.73	24.85	0	0
	12	13	23.69	23.74	23.70	0-1	1
	25	0	23.25	23.37	23.42		1
DFT-s-OFDM 16QAM	1	1	23.08	23.68	23.30	0-1	1
CP-OFDM QPSK	1	1	22.66	23.08	22.92	0-1.5	1.5

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9.4.2

NR Band n5

Table 9-128
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 QPSK	1	1	24.74	0	0
	1	53	24.35		0
	1	104	24.01		0
	50	0	23.95	0-1	1
	50	26	24.65	0	0
	50	53	23.60	0-1	1
	100	0	23.86		1
DFT-s-OFDM 16QAM	1	1	23.96	0-1	1
CP-OFDM QPSK	1	1	23.39	0-1.5	1.5

Table 9-129
NR Band n5 Maximum Conducted Powers - 15 MHz Bandwidth

NR Band n5 15 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 QPSK	1	1	24.62	0	0
	1	39	24.12		0
	1	77	24.16		0
	36	0	23.66	0-1	1
	36	20	24.57	0	0
	36	40	23.82	0-1	1
	75	0	23.19	0-1	1
DFT-s-OFDM 16QAM	1	1	23.98	0-1	1
CP-OFDM QPSK	1	1	23.16	0-1.5	1.5

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Table 9-130
NR Band n5 Maximum Conducted Powers - 10 MHz Bandwidth

NR Band n5 10 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	165800 (829 MHz)	168800 (844 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	25.10	23.93	0	0
	1	26	24.98	24.25		0
	1	50	24.13	23.33		0
	25	0	24.01	23.24	0-1	1
	25	13	24.64	23.76	0	0
	25	26	23.47	22.53	0-1	1
	50	0	23.32	22.52		1
DFT-s-OFDM 16QAM	1	1	23.31	22.84	0-1	1
CP-OFDM QPSK	1	1	23.28	22.54	0-1.5	1.5

Table 9-131
NR Band n5 Maximum Conducted Powers - 5 MHz Bandwidth

NR Band n5 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	165300 (826.5 MHz)	167300 (836.5 MHz)	169300 (846.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	25.03	24.63	24.32	0	0
	1	13	25.22	24.23	24.13		0
	1	23	24.94	24.43	23.55		0
	12	0	24.25	23.71	23.30	0-1	1
	12	6	25.13	24.33	23.87	0	0
	12	13	24.22	23.64	22.70	0-1	1
	25	0	23.83	23.23	22.59		1
DFT-s-OFDM 16QAM	1	1	24.33	23.52	23.35	0-1	1
CP-OFDM QPSK	1	1	23.41	23.14	22.91	0-1.5	1.5

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9.5 WLAN Conducted Powers

Table 9-132
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
		Average	Average	Average	Average
2412	1	20.48	17.97	17.78	16.73
2437	6	20.31	17.96	17.83	16.97
2462	11	20.19	17.79	17.76	16.91

Table 9-133
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	20.48	17.97	17.67	16.94
2437	6	20.08	17.53	17.48	16.98
2462	11	20.27	17.87	17.71	16.75

Table 9-134
2.4 GHz WLAN Maximum Average RF Power – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	17.78	17.67	20.74
2437	6	17.83	17.48	20.67
2462	11	17.76	17.71	20.75

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Table 9-135
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
		Average	Average	Average	Average
5180	36	17.79	17.81	17.81	15.69
5200	40	17.88	17.89	17.84	15.73
5220	44	17.99	17.92	17.73	15.65
5240	48	17.98	17.97	17.95	15.77
5260	52	17.93	17.74	17.85	15.62
5280	56	17.61	17.87	17.93	15.67
5300	60	17.71	17.95	17.67	15.76
5320	64	17.71	17.77	17.65	15.64
5500	100	17.63	17.55	17.66	15.78
5600	120	17.60	17.51	17.83	15.91
5620	124	17.63	17.94	17.65	15.83
5720	144	17.94	17.74	17.57	15.75
5745	149	17.84	17.67	17.55	15.52
5785	157	17.91	17.65	17.52	15.48
5825	165	17.69	17.88	17.76	15.78

Table 9-136
5 GHz WLAN Maximum Average RF Power – Ant 2

5GHz (20MHz) Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11a	802.11n	802.11ac	802.11ax
		Average	Average	Average	Average
5180	36	17.82	17.56	17.56	15.92
5200	40	17.85	17.52	17.68	15.88
5220	44	17.79	17.61	17.61	15.83
5240	48	17.88	17.67	17.55	15.84
5260	52	17.97	17.68	17.71	15.90
5280	56	17.98	17.74	17.68	15.85
5300	60	17.97	17.86	17.60	15.89
5320	64	17.95	17.78	17.67	15.95
5500	100	17.77	17.84	17.79	15.68
5600	120	17.80	17.62	17.58	15.70
5620	124	17.85	17.58	17.49	15.68
5720	144	17.72	17.46	17.87	15.63
5745	149	17.80	17.48	17.43	15.77
5785	157	17.95	17.54	17.57	15.87
5825	165	17.75	17.92	17.90	15.78

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Table 9-137
5 GHz WLAN Maximum Average RF Power – MIMO

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	17.81	17.56	20.70
5200	40	17.89	17.52	20.72
5220	44	17.92	17.61	20.78
5240	48	17.97	17.67	20.83
5260	52	17.74	17.68	20.72
5280	56	17.87	17.74	20.82
5300	60	17.95	17.86	20.92
5320	64	17.77	17.78	20.79
5500	100	17.55	17.84	20.71
5600	120	17.51	17.62	20.58
5620	124	17.94	17.58	20.77
5720	144	17.74	17.46	20.61
5745	149	17.67	17.48	20.59
5785	157	17.65	17.54	20.61
5825	165	17.88	17.92	20.91

Table 9-138
Maximum Output Powers During Conditions with 2.4 GHz and 5 GHz WLAN

2.4GHz 802.11n Conducted Power [dBm]			
Freq [MHz]	Channel	ANT1	ANT2
2412	1	16.94	16.97
2437	6	16.75	16.71
2462	11	16.75	16.98
5GHz (80MHz) 802.11ac Conducted Power [dBm]			
Freq [MHz]	Channel	ANT1	ANT2
5210	42	13.88	13.78
5290	58	13.62	13.72
5530	106	13.75	13.70
5610	122	13.64	13.77
5690	138	13.69	13.77
5775	155	13.75	13.89

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Table 9-139
2.4 GHz WLAN Reduced Average RF Power – Ant 1

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	16.96	16.95	16.94
2437	6	16.92	16.65	16.75
2462	11	16.86	16.94	16.75

Table 9-140
2.4 GHz WLAN Reduced Average RF Power – Ant 2

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	16.96	16.97	16.97
2437	6	16.72	16.95	16.71
2462	11	16.65	16.80	16.98

Table 9-141
2.4 GHz WLAN Reduced Average RF Power – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	16.94	16.97	19.97
2437	6	16.75	16.71	19.74
2462	11	16.75	16.98	19.88

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Table 9-142
5 GHz WLAN Reduced Average RF Power – Ant 1

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	13.88
5290	58	13.62
5530	106	13.75
5610	122	13.64
5690	138	13.69
5775	155	13.75

Table 9-143
5 GHz WLAN Reduced Average RF Power – Ant 2

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	13.78
5290	58	13.72
5530	106	13.70
5610	122	13.77
5690	138	13.77
5775	155	13.89

Table 9-144
5 GHz WLAN Reduced Average RF Power – MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	13.88	13.78	16.84
5290	58	13.62	13.72	16.68
5530	106	13.75	13.70	16.73
5610	122	13.64	13.77	16.72
5690	138	13.69	13.77	16.74
5775	155	13.75	13.89	16.83

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Table 9-145
Reduced Output Powers During Conditions with 2.4 GHz and 5 GHz WLAN

2.4GHz 802.11n Conducted Power [dBm]			
Freq [MHz]	Channel	ANT1	ANT2
2412	1	13.89	13.51
2437	6	13.77	13.86
2462	11	13.95	13.73
5GHz (80MHz) 802.11ac Conducted Power [dBm]			
Freq [MHz]	Channel	ANT1	ANT2
5210	42	13.88	13.78
5290	58	13.62	13.72
5530	106	13.75	13.70
5610	122	13.64	13.77
5690	138	13.69	13.77
5775	155	13.75	13.89

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

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

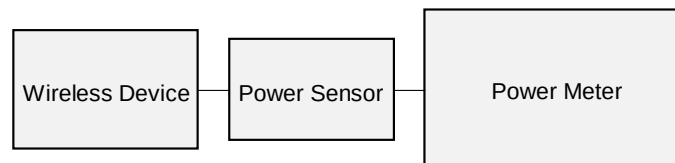


Figure 9-4
Power Measurement Setup

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9.6 Bluetooth Conducted Powers

Table 9-146
Bluetooth Average RF Power

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	13.58	22.799
2441	1.0	39	13.61	22.984
2480	1.0	78	13.99	25.048
2402	2.0	0	11.05	12.729
2441	2.0	39	12.47	17.664
2480	2.0	78	10.98	12.531
2402	3.0	0	11.07	12.779
2441	3.0	39	12.41	17.430
2480	3.0	78	11.36	13.677

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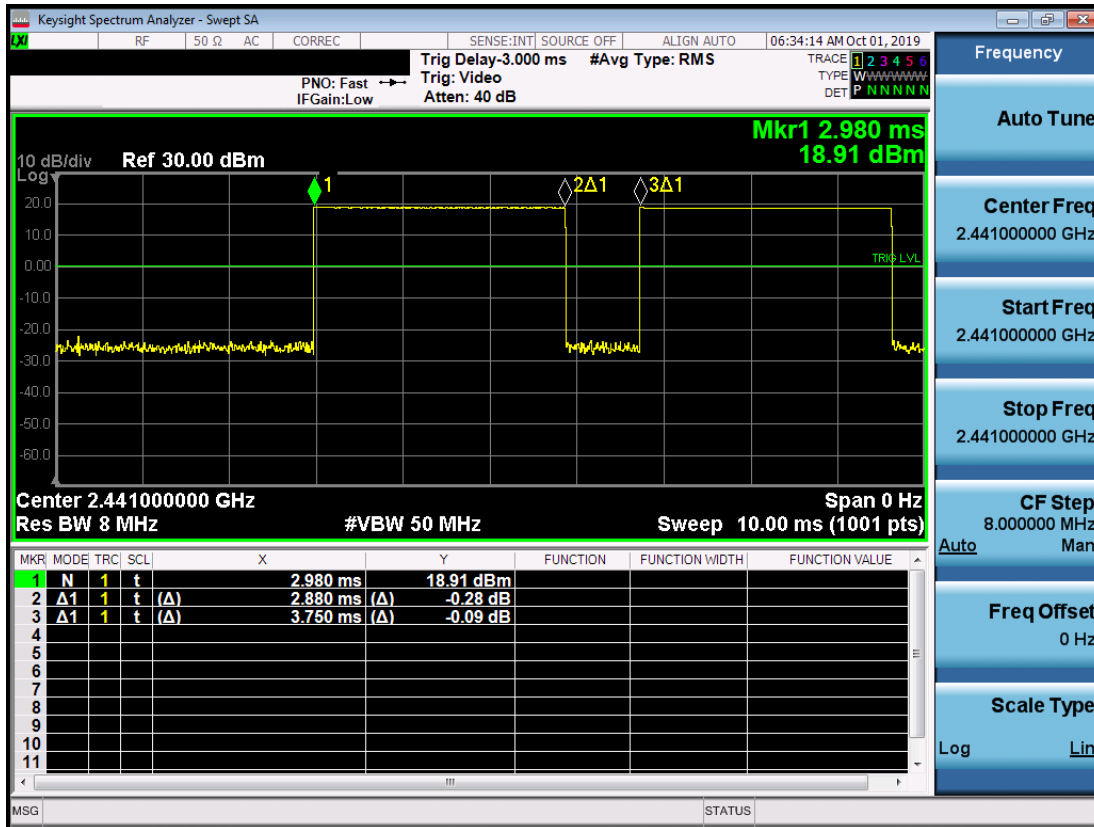


Figure 9-5
Bluetooth Transmission Plot

Equation 9-1
Bluetooth Duty Cycle Calculation

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

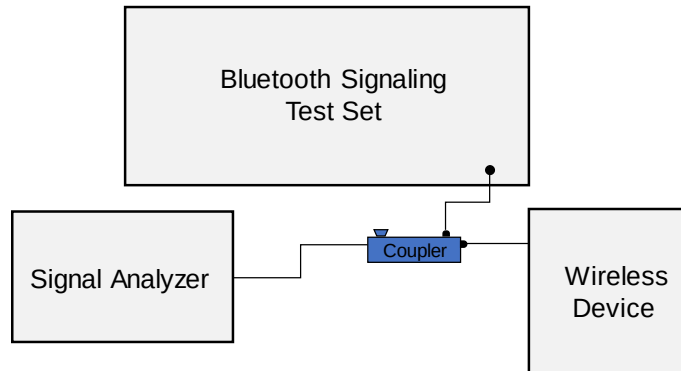


Figure 9-6
Power Measurement Setup

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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Tissue Properties - Head

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
09/23/2019	750 Head	20.4	680	0.864	42.220	0.888	42.305	-2.70%	-0.20%
			695	0.869	42.166	0.889	42.227	-2.25%	-0.14%
			740	0.886	42.032	0.893	41.994	-0.79%	0.09%
			755	0.891	41.985	0.894	41.916	-0.34%	0.17%
			770	0.896	41.938	0.895	41.838	0.11%	0.24%
			785	0.900	41.886	0.896	41.760	0.45%	0.30%
			800	0.905	41.843	0.897	41.682	0.89%	0.39%
10/21/2019	750 Head	21.1	680	0.864	41.712	0.888	42.305	-2.70%	-1.40%
			695	0.869	41.656	0.889	42.227	-2.25%	-1.35%
			700	0.871	41.642	0.889	42.201	-2.02%	-1.32%
			710	0.874	41.614	0.890	42.149	-1.80%	-1.27%
			750	0.888	41.476	0.894	41.942	-0.67%	-1.11%
			770	0.895	41.427	0.895	41.838	0.00%	-0.98%
			785	0.901	41.385	0.896	41.760	0.56%	-0.90%
10/02/2019	835 Head	20.4	820	0.913	41.228	0.899	41.578	1.56%	-0.84%
			835	0.919	41.185	0.900	41.500	2.00%	-0.75%
			850	0.923	41.146	0.916	41.500	0.76%	-0.85%
			820	0.925	42.843	0.899	41.578	2.89%	3.04%
			835	0.932	42.801	0.900	41.500	3.56%	3.13%
			850	0.937	42.756	0.916	41.500	2.29%	3.03%
			820	0.914	41.293	0.899	41.578	1.67%	-0.69%
10/21/2019	835 Head	21.1	835	0.919	41.241	0.900	41.500	2.11%	-0.62%
			850	0.924	41.194	0.916	41.500	0.87%	-0.74%
			820	0.912	42.770	0.899	41.578	1.45%	2.87%
			835	0.919	42.710	0.900	41.500	2.11%	2.92%
			850	0.923	42.685	0.916	41.500	0.76%	2.88%
			1710	1.325	41.491	1.348	40.142	-1.71%	3.36%
			1750	1.349	41.416	1.371	40.079	-1.60%	3.34%
9/16/2019	1750 Head	20.2	1750	1.375	41.351	1.394	40.016	-1.36%	3.34%
			1710	1.344	39.157	1.348	40.142	-0.30%	-2.45%
			1720	1.350	39.143	1.354	40.126	-0.30%	-2.45%
			1745	1.365	39.111	1.368	40.087	-0.22%	-2.43%
			1750	1.368	39.104	1.371	40.079	-0.22%	-2.43%
			1770	1.379	39.072	1.383	40.047	-0.29%	-2.43%
			1790	1.390	39.038	1.394	40.016	0.29%	-2.44%
9/16/2019	1900 Head	20.2	1850	1.412	41.254	1.400	40.000	0.86%	3.13%
			1880	1.432	41.211	1.400	40.000	2.29%	3.03%
			1910	1.450	41.164	1.400	40.000	3.57%	2.91%
			1850	1.401	39.212	1.400	40.000	0.07%	-1.97%
			1880	1.407	39.200	1.400	40.000	0.50%	-2.00%
			1890	1.420	39.178	1.400	40.000	1.43%	-2.05%
			1900	1.432	39.149	1.400	40.000	2.29%	-2.13%
09/30/2019	1900 Head	20.5	1905	1.436	39.142	1.400	40.000	2.57%	-2.14%
			1910	1.439	39.135	1.400	40.000	2.79%	-2.16%
			2400	1.812	38.968	1.756	39.289	3.19%	-0.82%
			2450	1.852	38.903	1.800	39.200	2.89%	-0.70%
			2500	1.889	38.812	1.855	39.136	1.83%	-0.83%
			2510	1.898	38.790	1.866	39.123	1.71%	-0.85%
			2550	1.932	38.732	1.909	39.073	1.20%	-0.87%
09/24/2019	2450 Head	21.5	2560	1.940	38.724	1.920	39.060	1.04%	-0.86%
			2600	1.970	38.663	1.964	39.009	0.31%	-0.89%
			2650	2.012	38.566	2.018	38.945	-0.30%	-0.97%
			2680	2.038	38.521	2.051	38.907	-0.63%	-0.99%
			2700	2.054	38.489	2.073	38.882	-0.92%	-1.01%
			2400	1.820	40.086	1.756	39.289	3.64%	2.03%
			2450	1.863	39.992	1.800	39.200	3.50%	2.02%
10/03/2019	2450 Head	21.5	2500	1.900	39.010	1.855	39.136	2.43%	1.98%
			2510	1.908	39.890	1.866	39.123	2.25%	1.96%
			2550	1.943	39.811	1.909	39.073	1.78%	1.89%
			2560	1.952	39.800	1.920	39.060	1.67%	1.89%
			2600	1.983	39.743	1.964	39.009	0.97%	1.88%
			2650	2.024	39.641	2.018	38.945	0.30%	1.79%
			2680	2.050	39.592	2.051	38.907	-0.05%	1.76%
10/08/2019	2450 Head	20.6	2700	2.066	39.560	2.073	38.882	-0.34%	1.74%
			2300	1.742	40.943	1.670	39.500	4.31%	3.65%
			2310	1.750	40.928	1.679	39.480	4.23%	3.66%
			2320	1.758	40.907	1.687	39.460	4.21%	3.67%
			2400	1.825	38.577	1.756	39.289	3.93%	-1.81%
			2450	1.864	38.502	1.800	39.200	3.56%	-1.78%
			2500	1.904	38.422	1.855	39.136	2.64%	-1.82%
9/17/2019	3500 - 3700 Head	20.2	3500	2.796	38.091	2.913	37.929	-4.02%	0.43%
			3550	2.846	38.002	2.964	37.871	-3.98%	0.39%
			3600	2.891	37.916	3.015	37.814	-4.11%	0.27%
			3645	2.933	37.847	3.061	37.763	-4.18%	0.22%
			3685	2.969	37.742	3.102	37.717	-4.29%	0.07%
			3725	3.007	37.689	3.143	37.671	-4.33%	0.05%
			5180	4.542	35.110	4.635	36.009	-2.01%	-2.50%
09/10/2019	5200-5800 Head	22.0	5200	4.558	35.073	4.655	35.986	-2.08%	-2.54%
			5220	4.581	35.023	4.676	35.963	-2.03%	-2.61%
			5240	4.606	34.978	4.696	35.940	-1.92%	-2.66%
			5260	4.633	34.937	4.717	35.917	-1.78%	-2.73%
			5280	4.655	34.909	4.737	35.894	-1.73%	-2.74%
			5300	4.678	34.879	4.758	35.871	-1.68%	-2.77%
			5320	4.691	34.846	4.778	35.849	-1.62%	-2.80%
			5320	4.697	34.822	4.783	35.843	-1.33%	-3.15%
			5320	4.693	34.804	4.783	35.820	-1.20%	-3.13%
			5540	4.945	34.467	5.004	35.597	-1.18%	-3.17%
			5560	4.956	34.434	5.024	35.574	-1.35%	-3.20%
			5580	4.966	34.402	5.045	35.551	-1.17%	-3.23%
			5600	5.014	34.343	5.065	35.529	-1.01%	-3.34%
			5620	5.043	34.317	5.086	35.508	-0.85%	-3.35%
			5640	5.062	34.290	5.106	35.483	-0.86%	-3.34%
			5660	5.080	34.261	5.127	35.460	-0.92%	-3.38%
			5680	5.102	34.230	5.147	35.437	-0.87%	-3.41%
			5700	5.124	34.177	5.168	35.414	-0.85%	-3.49%
			5745	5.183	34.099	5.214	35.363	-0.59%	-3.57%
			5765	5.201	34.085	5.234	35.340	-0.63%	-3.55%
			5785	5.226	34.048	5.255	35.317	-0.55%	-3.59%
			5800	5.241	34.016	5.270	35.300	-0.55%	-3.64%
			5805	5.246	34.008	5.275	35.294	-0.55%	-3.64%
			5825	5.273	33.963	5.296	35.271	-0.43%	-3.71%

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Table 10-2
Measured Tissue Properties - Body

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
9/16/2019	750 Body	23.5	680	0.920	55.023	0.958	55.804	-3.97%	-1.40%
			695	0.925	54.986	0.959	55.745	-3.55%	-1.36%
			700	0.927	54.973	0.959	55.726	-3.34%	-1.35%
			710	0.930	54.947	0.960	55.687	-3.12%	-1.33%
			740	0.941	54.887	0.963	55.570	-2.28%	-1.23%
09/18/2019	750 Body	24.5	755	0.946	54.860	0.964	55.512	-1.87%	-1.17%
			750	0.951	53.838	0.964	55.531	-1.35%	-3.05%
			755	0.952	53.825	0.964	55.512	-1.24%	-3.04%
			770	0.958	53.791	0.965	55.453	-0.73%	-3.00%
			785	0.963	53.748	0.966	55.395	-0.31%	-2.97%
10/17/2019	750 Body	23.6	800	0.968	53.706	0.967	55.336	0.10%	-2.95%
			680	0.912	56.800	0.958	55.804	-4.80%	1.78%
			695	0.925	56.665	0.959	55.745	-3.55%	1.65%
09/23/2019	835 Body	21.3	750	0.974	56.203	0.964	55.531	1.04%	1.21%
			820	0.929	53.455	0.969	55.258	-4.13%	-3.26%
			835	0.946	53.318	0.970	55.200	-2.47%	-3.41%
09/30/2019	835 Body	18.7	850	0.963	53.152	0.988	55.154	-2.53%	-3.63%
			820	0.967	52.930	0.969	55.258	-0.21%	-4.21%
			835	0.982	52.765	0.970	55.200	1.24%	-4.41%
10/10/2019	835 Body	20.5	850	0.997	52.599	0.988	55.154	0.91%	-4.63%
			820	0.948	55.362	0.969	55.258	-2.17%	0.19%
			835	0.965	55.206	0.970	55.200	-0.52%	0.01%
10/17/2019	835 Body	20.0	850	0.981	55.063	0.988	55.154	-0.71%	-0.16%
			820	0.962	52.805	0.969	55.258	-0.72%	-4.44%
			835	0.978	52.643	0.970	55.200	0.82%	-4.63%
10/21/2019	835 Body	20.7	850	0.993	52.472	0.988	55.154	0.51%	-4.86%
			820	0.956	53.633	0.969	55.258	-1.34%	-2.94%
			835	0.972	53.473	0.970	55.200	0.21%	-3.13%
09/25/2019	1750 Body	20.1	850	0.988	53.295	0.988	55.154	0.00%	-3.37%
			1710	1.487	52.259	1.463	53.537	1.64%	-2.39%
			1720	1.499	52.217	1.469	53.511	2.04%	-2.42%
			1745	1.527	52.121	1.485	53.445	2.83%	-2.48%
			1750	1.533	52.102	1.488	53.432	3.02%	-2.49%
09/29/2019	1750 Body	20.6	1770	1.554	52.026	1.501	53.379	3.53%	-2.53%
			1790	1.575	51.948	1.514	53.326	4.03%	-2.58%
			1710	1.490	52.558	1.463	53.537	1.85%	-1.83%
			1750	1.539	52.400	1.488	53.432	3.43%	-1.93%
			1790	1.585	52.251	1.514	53.326	4.69%	-2.02%
10/2/2019	1750 Body	20.0	1710	1.493	51.818	1.463	53.537	2.05%	-3.21%
			1720	1.505	51.778	1.469	53.511	2.45%	-3.24%
			1745	1.534	51.688	1.485	53.445	3.30%	-3.29%
			1750	1.539	51.669	1.488	53.432	3.43%	-3.30%
			1770	1.561	51.593	1.501	53.379	4.00%	-3.35%
9/16/2019	1900 Body	21.9	1790	1.583	51.513	1.514	53.326	4.56%	-3.40%
			1850	1.509	53.669	1.520	53.300	-0.72%	0.69%
			1880	1.543	53.576	1.520	53.300	1.51%	0.52%
			1910	1.577	53.468	1.520	53.300	3.75%	0.32%
			1850	1.517	52.620	1.520	53.300	-0.20%	-1.28%
09/30/2019	1900 Body	23.0	1860	1.528	52.586	1.520	53.300	0.53%	-1.34%
			1880	1.551	52.517	1.520	53.300	2.04%	-1.47%
			1900	1.574	52.447	1.520	53.300	3.55%	-1.60%
			1905	1.579	52.429	1.520	53.300	3.88%	-1.63%
			1910	1.585	52.412	1.520	53.300	4.28%	-1.67%
10/02/2019	1900 Body	24.1	1850	1.515	51.587	1.520	53.300	-0.33%	-3.21%
			1880	1.547	51.478	1.520	53.300	1.78%	-3.42%
			1910	1.580	51.367	1.520	53.300	3.95%	-3.63%
			1850	1.515	52.529	1.520	53.300	-0.33%	-1.45%
10/22/2019	1900 Body	22.1	1860	1.527	52.495	1.520	53.300	0.46%	-1.51%
			1880	1.549	52.430	1.520	53.300	1.91%	-1.63%
			1900	1.571	52.355	1.520	53.300	3.36%	-1.77%
			1905	1.577	52.336	1.520	53.300	3.75%	-1.81%
			1910	1.583	52.319	1.520	53.300	4.14%	-1.84%
11/4/2019	1900 Body	24.1	1850	1.500	52.377	1.520	53.300	-1.32%	-1.73%
			1860	1.510	52.344	1.520	53.300	-0.66%	-1.79%
			1880	1.533	52.283	1.520	53.300	0.86%	-1.91%
			1900	1.556	52.221	1.520	53.300	2.37%	-2.02%
			1905	1.562	52.205	1.520	53.300	2.76%	-2.05%
11/6/2019	1900 Body	24.2	1910	1.567	52.189	1.520	53.300	3.09%	-2.08%
			1850	1.513	51.350	1.520	53.300	-0.46%	-3.66%
			1860	1.524	51.313	1.520	53.300	0.26%	-3.73%
			1880	1.546	51.245	1.520	53.300	1.71%	-3.86%
			1900	1.569	51.174	1.520	53.300	3.22%	-3.99%
			1905	1.575	51.157	1.520	53.300	3.62%	-4.02%
			1910	1.580	51.136	1.520	53.300	3.95%	-4.06%

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Table 10-3
Measured Tissue Properties – Body Continued

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
9/16/2019	2450 Body	22.8	2300	1.800	52.671	1.809	52.900	-0.50%	-0.43%
			2310	1.813	52.637	1.816	52.887	-0.17%	-0.47%
			2320	1.827	52.601	1.826	52.873	0.05%	-0.51%
9/16/2019	2450 Body	24.5	2400	1.951	51.944	1.902	52.767	2.58%	-1.56%
			2450	2.011	51.809	1.950	52.700	3.13%	-1.69%
			2500	2.069	51.660	2.021	52.636	2.38%	-1.85%
9/22/2019	2450 Body	23.2	2400	1.977	50.999	1.902	52.767	3.94%	-3.35%
			2450	2.036	50.852	1.950	52.700	4.41%	-3.51%
			2500	2.094	50.694	2.021	52.636	3.61%	-3.69%
			2510	2.105	50.662	2.035	52.623	3.44%	-3.73%
			2550	2.152	50.554	2.092	52.573	2.87%	-3.84%
			2600	2.212	50.411	2.163	52.509	2.27%	-4.00%
			2650	2.270	50.255	2.234	52.445	1.61%	-4.18%
			2680	2.308	50.167	2.277	52.407	1.36%	-4.27%
			2700	2.332	50.106	2.305	52.382	1.17%	-4.35%
10/2/2019	2450 Body	23.5	2400	1.975	52.191	1.902	52.767	3.84%	-1.09%
			2450	2.033	52.055	1.950	52.700	4.26%	-1.22%
			2500	2.092	51.913	2.021	52.636	3.51%	-1.37%
			2510	2.104	51.882	2.035	52.623	3.39%	-1.41%
			2550	2.154	51.773	2.092	52.573	2.96%	-1.52%
			2560	2.166	51.746	2.106	52.560	2.85%	-1.55%
			2600	2.214	51.633	2.163	52.509	2.36%	-1.67%
			2650	2.274	51.484	2.234	52.445	1.79%	-1.83%
			2680	2.311	51.395	2.277	52.407	1.49%	-1.93%
10/16/2019	2450 Body	21.6	2700	2.337	51.333	2.305	52.382	1.39%	-2.00%
			2400	1.924	52.502	1.902	52.767	1.16%	-0.50%
			2450	1.984	52.380	1.950	52.700	1.74%	-0.61%
			2500	2.043	52.228	2.021	52.636	1.09%	-0.78%
			2510	2.056	52.201	2.035	52.623	1.03%	-0.80%
			2550	2.107	52.089	2.092	52.573	0.72%	-0.92%
			2560	2.119	52.061	2.106	52.560	0.62%	-0.95%
			2600	2.163	51.960	2.163	52.509	0.00%	-1.05%
			2650	2.224	51.806	2.234	52.445	-0.45%	-1.22%
10/24/2019	2450 Body	23.4	2680	2.262	51.702	2.277	52.407	-0.66%	-1.35%
			2700	2.282	51.633	2.305	52.382	-1.00%	-1.43%
			2300	1.870	52.383	1.809	52.900	3.37%	-0.98%
			2310	1.882	52.355	1.816	52.887	3.62%	-1.01%
			2320	1.893	52.329	1.826	52.873	3.69%	-1.03%
			2400	1.983	52.110	1.902	52.767	4.26%	-1.25%
			2450	2.046	51.978	1.950	52.700	4.92%	-1.37%
			2500	2.104	51.836	2.021	52.636	4.11%	-1.52%
			2550	2.149	49.852	3.310	51.320	-4.86%	-2.86%
09/19/2019	3500 - 3700 Body	18.6	3550	3.210	49.767	3.370	51.250	-4.75%	-2.89%
			3560	3.220	49.752	3.382	51.238	-4.79%	-2.90%
			3600	3.268	49.692	3.430	51.190	-4.72%	-2.93%
			3650	3.329	49.602	3.489	51.118	-4.59%	-2.97%
			3690	3.375	49.519	3.536	51.063	-4.55%	-3.02%
			3700	3.391	49.514	3.548	51.050	-4.43%	-3.01%

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Table 10-4
Measured Tissue Properties – Body Continued

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
9/30/2019	5200 - 5800 Body	20.3	5180	5.403	48.475	5.276	49.041	2.41%	-1.15%
			5190	5.420	48.470	5.288	49.028	2.50%	-1.14%
			5200	5.429	48.461	5.299	49.014	2.45%	-1.13%
			5210	5.437	48.445	5.311	49.001	2.37%	-1.13%
			5220	5.445	48.420	5.323	48.987	2.29%	-1.16%
			5240	5.471	48.372	5.346	48.960	2.34%	-1.20%
			5250	5.485	48.349	5.358	48.947	2.37%	-1.22%
			5260	5.500	48.329	5.369	48.933	2.44%	-1.23%
			5270	5.516	48.312	5.381	48.919	2.51%	-1.24%
			5280	5.534	48.303	5.393	48.906	2.61%	-1.23%
			5290	5.549	48.294	5.404	48.892	2.68%	-1.22%
			5300	5.561	48.286	5.416	48.879	2.68%	-1.21%
			5310	5.572	48.271	5.428	48.865	2.65%	-1.22%
			5320	5.582	48.256	5.439	48.851	2.63%	-1.22%
			5500	5.814	47.952	5.650	48.607	2.90%	-1.35%
			5510	5.828	47.936	5.661	48.594	2.95%	-1.35%
			5520	5.845	47.922	5.673	48.580	3.03%	-1.35%
			5530	5.865	47.900	5.685	48.566	3.17%	-1.37%
			5540	5.884	47.884	5.696	48.553	3.30%	-1.38%
			5550	5.900	47.867	5.708	48.539	3.36%	-1.38%
			5560	5.916	47.859	5.720	48.526	3.43%	-1.37%
			5580	5.938	47.838	5.743	48.499	3.40%	-1.36%
			5600	5.955	47.797	5.766	48.471	3.28%	-1.39%
			5610	5.969	47.779	5.778	48.458	3.31%	-1.40%
			5620	5.986	47.763	5.790	48.444	3.39%	-1.41%
			5640	6.019	47.723	5.813	48.417	3.54%	-1.43%
			5660	6.049	47.687	5.837	48.390	3.63%	-1.45%
			5670	6.064	47.676	5.848	48.376	3.69%	-1.45%
			5680	6.079	47.668	5.860	48.363	3.74%	-1.44%
			5690	6.093	47.654	5.872	48.349	3.76%	-1.44%
			5700	6.107	47.649	5.883	48.336	3.81%	-1.42%
			5710	6.120	47.641	5.895	48.322	3.82%	-1.41%
			5720	6.133	47.614	5.907	48.309	3.83%	-1.44%
			5745	6.165	47.548	5.936	48.275	3.86%	-1.51%
			5750	6.172	47.548	5.942	48.268	3.87%	-1.49%
			5755	6.179	47.547	5.947	48.261	3.90%	-1.48%
			5765	6.195	47.529	5.959	48.248	3.96%	-1.49%
			5775	6.215	47.507	5.971	48.234	4.09%	-1.51%
			5785	6.232	47.489	5.982	48.220	4.18%	-1.52%
			5795	6.245	47.489	5.994	48.207	4.19%	-1.49%
			5800	6.252	47.492	6.000	48.200	4.20%	-1.47%
			5805	6.257	47.494	6.006	48.193	4.18%	-1.45%
			5825	6.285	47.455	6.029	48.166	4.25%	-1.48%
10/28/2019	5200 - 5800 Body	22.6	5180	5.352	48.429	5.276	49.041	1.44%	-1.25%
			5190	5.364	48.419	5.288	49.028	1.44%	-1.24%
			5200	5.375	48.417	5.299	49.014	1.43%	-1.22%
			5210	5.388	48.401	5.311	49.001	1.45%	-1.22%
			5220	5.399	48.371	5.323	48.987	1.43%	-1.26%
			5240	5.427	48.318	5.346	48.960	1.52%	-1.31%
			5250	5.443	48.298	5.358	48.947	1.59%	-1.33%
			5260	5.459	48.283	5.369	48.933	1.68%	-1.33%
			5270	5.474	48.266	5.381	48.919	1.73%	-1.33%
			5280	5.487	48.260	5.393	48.906	1.74%	-1.32%
			5290	5.500	48.252	5.404	48.892	1.78%	-1.31%
			5300	5.507	48.250	5.416	48.879	1.68%	-1.29%
			5310	5.515	48.244	5.428	48.865	1.60%	-1.27%
			5320	5.527	48.213	5.439	48.851	1.62%	-1.31%
			5500	5.772	47.905	5.650	48.607	2.16%	-1.44%
			5510	5.785	47.893	5.661	48.594	2.19%	-1.44%
			5520	5.799	47.885	5.673	48.580	2.22%	-1.43%
			5530	5.813	47.879	5.685	48.566	2.25%	-1.41%
			5540	5.827	47.878	5.696	48.553	2.30%	-1.39%
			5550	5.838	47.860	5.708	48.539	2.28%	-1.40%
			5560	5.848	47.836	5.720	48.526	2.24%	-1.42%
			5580	5.876	47.782	5.743	48.499	2.32%	-1.48%
			5600	5.904	47.759	5.766	48.471	2.39%	-1.47%
			5610	5.921	47.740	5.778	48.458	2.47%	-1.48%
			5620	5.936	47.715	5.790	48.444	2.52%	-1.50%
			5640	5.965	47.695	5.813	48.417	2.61%	-1.49%
			5660	5.994	47.668	5.837	48.390	2.69%	-1.49%
			5670	6.003	47.647	5.848	48.376	2.65%	-1.51%
			5680	6.014	47.631	5.860	48.363	2.63%	-1.51%
			5690	6.026	47.614	5.872	48.349	2.62%	-1.52%
			5700	6.039	47.593	5.883	48.336	2.65%	-1.54%
			5710	6.054	47.577	5.895	48.322	2.70%	-1.54%
			5720	6.064	47.568	5.907	48.309	2.66%	-1.53%
			5745	6.107	47.543	5.936	48.275	2.88%	-1.52%
			5750	6.114	47.532	5.942	48.268	2.89%	-1.52%
			5755	6.122	47.522	5.947	48.261	2.94%	-1.53%
			5765	6.135	47.503	5.959	48.248	2.95%	-1.54%
			5775	6.148	47.487	5.971	48.234	2.96%	-1.55%
			5785	6.163	47.473	5.982	48.220	3.03%	-1.55%
			5795	6.175	47.454	5.994	48.207	3.02%	-1.56%
			5800	6.182	47.443	6.000	48.200	3.03%	-1.57%
			5805	6.189	47.433	6.006	48.193	3.05%	-1.58%
			5825	6.216	47.424	6.029	48.166	3.10%	-1.54%

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

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10.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ 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 10-5
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 SAR _{1g} (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
G	750	HEAD	09/23/2019	21.5	20.4	0.200	1161	7409	1.670	8.030	8.350	3.99%
I	750	HEAD	10/21/2019	21.4	21.1	0.200	1003	7357	1.650	8.280	8.250	-0.36%
P	835	HEAD	10/02/2019	20.4	20.2	0.200	4d132	7551	2.060	9.590	10.300	7.40%
G	835	HEAD	10/09/2019	22.3	21.2	0.200	4d132	7409	2.040	9.590	10.200	6.36%
I	835	HEAD	10/21/2019	21.4	21.1	0.200	4d133	7357	2.010	9.430	10.050	6.57%
I	835	HEAD	10/24/2019	21.8	21.2	0.200	4d133	7357	1.950	9.430	9.750	3.39%
O	1750	HEAD	09/16/2019	20.7	20.2	0.100	1148	7538	3.550	37.000	35.500	-4.05%
G	1750	HEAD	10/02/2019	21.9	21.8	0.100	1150	7409	3.600	36.500	36.000	-1.37%
O	1900	HEAD	09/16/2019	20.4	20.2	0.100	5d148	7538	3.990	39.100	39.900	2.05%
G	1900	HEAD	09/30/2019	21.9	20.5	0.100	5d149	7409	4.230	39.300	42.300	7.63%
L	2300	HEAD	10/08/2019	21.6	20.6	0.100	1064	7410	5.000	47.600	50.000	5.04%
G	2450	HEAD	09/24/2019	22.1	21.5	0.100	719	7409	5.430	53.100	54.300	2.26%
E	2450	HEAD	10/03/2019	21.9	21.5	0.100	981	7417	4.890	52.300	48.900	-6.50%
E	2450	HEAD	10/24/2019	24.2	23.0	0.100	797	7417	5.320	52.700	53.200	0.95%
G	2600	HEAD	09/24/2019	22.1	21.5	0.100	1126	7409	5.380	56.500	53.800	-4.78%
E	2600	HEAD	10/03/2019	21.9	21.5	0.100	1064	7417	6.140	58.100	61.400	5.68%
H	3500	HEAD	09/17/2019	20.9	20.2	0.100	1059	3589	6.670	64.600	66.700	3.25%
H	3700	HEAD	09/17/2019	20.9	20.2	0.100	1018	3589	6.820	65.800	68.200	3.65%
H	5250	HEAD	09/10/2019	23.9	22.0	0.050	1237	7406	3.830	81.300	76.600	-5.78%
H	5600	HEAD	09/10/2019	23.9	22.0	0.050	1237	7406	4.080	85.700	81.600	-4.78%
H	5750	HEAD	09/10/2019	23.9	22.0	0.050	1237	7406	3.820	80.600	76.400	-5.21%
J	750	BODY	09/16/2019	21.5	21.7	0.200	1161	7488	1.690	8.430	8.450	0.24%
J	750	BODY	09/18/2019	20.5	22.6	0.200	1161	7488	1.730	8.430	8.650	2.61%
L	750	BODY	10/17/2019	21.5	21.6	0.200	1003	7410	1.830	8.580	9.150	6.64%
D	835	BODY	09/23/2019	21.8	21.3	0.200	4d047	3914	2.040	9.470	10.200	7.71%
J	835	BODY	09/30/2019	22.1	18.7	0.200	4d133	7488	2.050	9.750	10.250	5.13%
I	835	BODY	10/10/2019	23.5	20.5	0.200	4d133	7357	1.980	9.750	9.900	1.54%
P	835	BODY	10/17/2019	19.3	20.0	0.200	4d047	7551	2.030	9.470	10.150	7.18%
P	835	BODY	10/21/2019	20.9	20.7	0.200	4d047	7551	1.970	9.470	9.850	4.01%
I	1750	BODY	09/25/2019	21.8	20.1	0.100	1148	7357	3.860	37.700	38.600	2.39%
I	1750	BODY	09/29/2019	18.3	18.8	0.100	1150	7357	3.850	36.600	38.500	5.19%
I	1750	BODY	10/02/2019	19.8	20.0	0.100	1148	7357	4.020	37.700	40.200	6.63%
D	1900	BODY	09/16/2019	22.1	20.9	0.100	5d149	3914	4.250	39.400	42.500	7.87%
K	1900	BODY	09/30/2019	23.0	21.7	0.100	5d148	7547	3.980	39.100	39.800	1.79%
K	1900	BODY	10/02/2019	23.6	24.1	0.100	5d080	7547	4.140	39.200	41.400	5.61%
H	1900	BODY	10/22/2019	20.6	22.1	0.100	5d080	7406	4.030	39.200	40.300	2.81%
J	1900	BODY	11/04/2019	22.3	22.2	0.100	5d148	7488	4.190	39.100	41.900	7.16%
K	2300	BODY	10/24/2019	23.4	22.3	0.100	1064	7547	5.000	46.500	50.000	7.53%
K	2450	BODY	09/16/2019	22.9	22.7	0.100	981	7547	5.080	50.900	50.800	-0.20%
K	2450	BODY	09/22/2019	21.2	21.4	0.100	719	7547	5.320	50.800	53.200	4.72%
D	2450	BODY	10/02/2019	22.3	22.1	0.100	981	3914	5.040	50.900	50.400	-0.98%
K	2450	BODY	10/24/2019	23.4	22.3	0.100	981	7547	4.990	50.900	49.900	-1.96%
K	2600	BODY	09/22/2019	21.2	21.4	0.100	1126	7547	5.590	54.300	55.900	2.95%
D	2600	BODY	10/02/2019	22.3	22.1	0.100	1064	3914	5.730	55.600	57.300	3.06%
P	3500	BODY	09/19/2019	21.1	19.6	0.100	1059	3589	6.630	65.100	66.300	1.84%
P	3700	BODY	09/19/2019	21.1	19.6	0.100	1018	3589	6.690	64.300	66.900	4.04%
L	5250	BODY	09/30/2019	20.9	20.9	0.050	1057	7410	3.460	75.900	69.200	-8.83%
L	5600	BODY	09/30/2019	20.9	20.9	0.050	1057	7410	3.870	79.900	77.400	-3.13%
L	5750	BODY	09/30/2019	20.9	20.9	0.050	1057	7410	3.540	76.700	70.800	-7.69%
G	5250	BODY	10/28/2019	22.8	22.6	0.050	1237	7409	3.720	75.600	74.400	-1.59%
G	5600	BODY	10/28/2019	22.8	22.6	0.050	1237	7409	3.900	78.500	78.000	-0.64%
G	5750	BODY	10/28/2019	22.8	22.6	0.050	1237	7409	3.680	75.900	73.600	-3.03%

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Table 10-6
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 SAR _{10g} (W/kg)	1 W Target SAR _{10g} (W/kg)	1 W Normalized SAR _{10g} (W/kg)	Deviation _{10g} (%)
I	1750	BODY	09/29/2019	18.3	18.8	0.100	1150	7357	2.000	19.400	20.000	3.09%
I	1750	BODY	10/02/2019	19.8	20.0	0.100	1148	7357	2.090	19.800	20.900	5.56%
K	1900	BODY	09/30/2019	23.0	21.7	0.100	5d148	7547	2.040	20.500	20.400	-0.49%
K	1900	BODY	10/02/2019	23.6	24.1	0.100	5d080	7547	2.130	20.600	21.300	3.40%
J	1900	BODY	11/06/2019	22.7	22.4	0.100	5d148	7488	2.090	20.500	20.900	1.95%
I	2300	BODY	09/16/2019	21.2	21.0	0.100	1073	7357	2.220	23.200	22.200	-4.31%
D	2450	BODY	10/02/2019	22.3	22.1	0.100	981	3914	2.290	24.200	22.900	-5.37%
K	2450	BODY	10/16/2019	21.6	22.7	0.100	981	7547	2.240	24.200	22.400	-7.44%
D	2600	BODY	10/02/2019	22.3	22.1	0.100	1064	3914	2.500	25.000	25.000	0.00%
K	2600	BODY	10/16/2019	21.6	22.7	0.100	1064	7547	2.320	25.000	23.200	-7.20%
L	5250	BODY	09/30/2019	20.9	20.9	0.050	1057	7410	0.976	21.100	19.520	-7.49%
L	5600	BODY	09/30/2019	20.9	20.9	0.050	1057	7410	1.070	22.300	21.400	-4.04%
L	5750	BODY	09/30/2019	20.9	20.9	0.050	1057	7410	0.993	21.200	19.860	-6.32%

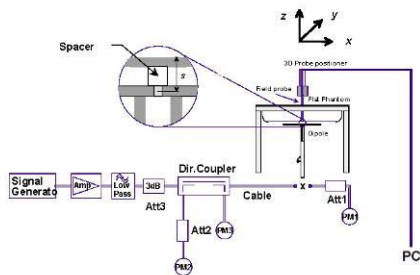


Figure 10-1
System Verification Setup Diagram



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	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
836.60	190	GSM 850	GSM	33.5	32.80	-0.12	Right	Cheek	0098M	1:8.3	0.085	1.175	0.100	A1
836.60	190	GSM 850	GSM	33.5	32.80	0.03	Right	Tilt	0098M	1:8.3	0.044	1.175	0.052	
836.60	190	GSM 850	GSM	33.5	32.80	0.02	Left	Cheek	0098M	1:8.3	0.081	1.175	0.095	
836.60	190	GSM 850	GSM	33.5	32.80	0.04	Left	Tilt	0098M	1:8.3	0.055	1.175	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							

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	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
1880.00	661	GSM 1900	GSM	30.0	29.09	0.19	Right	Cheek	0099M	1:8.3	0.024	1.233	0.030	
1880.00	661	GSM 1900	GSM	30.0	29.09	0.15	Right	Tilt	0099M	1:8.3	0.023	1.233	0.028	
1880.00	661	GSM 1900	GSM	30.0	29.09	0.16	Left	Cheek	0099M	1:8.3	0.041	1.233	0.051	A2
1880.00	661	GSM 1900	GSM	30.0	29.09	0.14	Left	Tilt	0099M	1:8.3	0.021	1.233	0.026	
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 11-3
UMTS 850 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Ant State	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	25.5	24.64	0.02	Right	Cheek	0	0098M	1:1	0.174	1.219	0.212	A3
836.60	4183	UMTS 850	RMC	25.5	24.64	0.01	Right	Tilt	0	0098M	1:1	0.074	1.219	0.090	
836.60	4183	UMTS 850	RMC	25.5	24.64	0.12	Left	Cheek	0	0098M	1:1	0.143	1.219	0.174	
836.60	4183	UMTS 850	RMC	25.5	24.64	0.02	Left	Tilt	0	0098M	1:1	0.087	1.219	0.106	
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 11-4
UMTS 1750 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Ant State	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1732.40	1412	UMTS 1750	RMC	25.0	24.39	0.14	Right	Cheek	23	0099M	1:1	0.102	1.151	0.117	
1732.40	1412	UMTS 1750	RMC	25.0	24.39	0.14	Right	Tilt	23	0099M	1:1	0.078	1.151	0.090	
1732.40	1412	UMTS 1750	RMC	25.0	24.39	-0.01	Left	Cheek	23	0099M	1:1	0.144	1.151	0.166	A4
1732.40	1412	UMTS 1750	RMC	25.0	24.39	0.14	Left	Tilt	23	0099M	1:1	0.095	1.151	0.109	
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	Ant State	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	9400	UMTS 1900	RMC	25.0	24.50	-0.06	Right	Cheek	0	0099M	1:1	0.131	1.122	0.147	
1880.00	9400	UMTS 1900	RMC	25.0	24.50	0.12	Right	Tilt	0	0099M	1:1	0.077	1.122	0.086	
1880.00	9400	UMTS 1900	RMC	25.0	24.50	0.13	Left	Cheek	0	0099M	1:1	0.139	1.122	0.156	A5
1880.00	9400	UMTS 1900	RMC	25.0	24.50	0.16	Left	Tilt	0	0099M	1:1	0.054	1.122	0.061	
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 11-6
LTE Band 71 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot	
MHz	Ch.															(W/kg)		(W/kg)		
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.06	0.11	0	Right	Cheek	QPSK	1	0	0103M	1:1	0.090	1.186	0.107	A6
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.11	0.10	1	Right	Cheek	QPSK	50	25	0103M	1:1	0.073	1.172	0.086	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.06	-0.04	0	Right	Tilt	QPSK	1	0	0103M	1:1	0.045	1.186	0.053	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.11	0.13	1	Right	Tilt	QPSK	50	25	0103M	1:1	0.030	1.172	0.035	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.06	0.04	0	Left	Cheek	QPSK	1	0	0103M	1:1	0.074	1.186	0.088	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.11	-0.04	1	Left	Cheek	QPSK	50	25	0103M	1:1	0.069	1.172	0.081	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.06	0.21	0	Left	Tilt	QPSK	1	0	0103M	1:1	0.036	1.186	0.043	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.11	0.06	1	Left	Tilt	QPSK	50	25	0103M	1:1	0.031	1.172	0.036	
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 11-7
NR Band n71 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.13	0	Right	Cheek	DFT-s-OFDM QPSK	1	53	0428M	1:1	0.103	1.161	0.120	A7
680.50	136100	Mid	NR Band n71	20	0	24.3	23.15	0.09	1.5	Right	Cheek	CP-OFDM QPSK	1	1	0428M	1:1	0.073	1.303	0.095	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.07	0	Right	Cheek	DFT-s-OFDM QPSK	50	26	0428M	1:1	0.101	1.161	0.117	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.13	0	Right	Tilt	DFT-s-OFDM QPSK	1	53	0428M	1:1	0.045	1.161	0.052	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.10	0	Right	Tilt	DFT-s-OFDM QPSK	50	26	0428M	1:1	0.045	1.161	0.052	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.13	0	Left	Cheek	DFT-s-OFDM QPSK	1	53	0428M	1:1	0.084	1.161	0.098	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.08	0	Left	Cheek	DFT-s-OFDM QPSK	50	26	0428M	1:1	0.086	1.161	0.100	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.00	0	Left	Tilt	DFT-s-OFDM QPSK	1	53	0428M	1:1	0.043	1.161	0.050	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.11	0	Left	Tilt	DFT-s-OFDM QPSK	50	26	0428M	1:1	0.042	1.161	0.049	
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 11-8
LTE Band 12 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
																	(W/kg)		(W/kg)	
707.50	23095	Mid	LTE Band 12	10	0	25.8	24.88	0.10	0	Right	Cheek	QPSK	1	0	0103M	1:1	0.084	1.236	0.104	A8
707.50	23095	Mid	LTE Band 12	10	0	24.8	23.87	0.09	1	Right	Cheek	QPSK	25	12	0103M	1:1	0.074	1.239	0.092	
707.50	23095	Mid	LTE Band 12	10	0	25.8	24.88	0.06	0	Right	Tilt	QPSK	1	0	0103M	1:1	0.039	1.236	0.048	
707.50	23095	Mid	LTE Band 12	10	0	24.8	23.87	0.13	1	Right	Tilt	QPSK	25	12	0103M	1:1	0.035	1.239	0.043	
707.50	23095	Mid	LTE Band 12	10	0	25.8	24.88	0.11	0	Left	Cheek	QPSK	1	0	0103M	1:1	0.076	1.236	0.094	
707.50	23095	Mid	LTE Band 12	10	0	24.8	23.87	0.19	1	Left	Cheek	QPSK	25	12	0103M	1:1	0.057	1.239	0.071	
707.50	23095	Mid	LTE Band 12	10	0	25.8	24.88	0.19	0	Left	Tilt	QPSK	1	0	0103M	1:1	0.046	1.236	0.057	
707.50	23095	Mid	LTE Band 12	10	0	24.8	23.87	0.15	1	Left	Tilt	QPSK	25	12	0103M	1:1	0.032	1.239	0.040	
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 11-9
LTE Band 13 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
																	(W/kg)		(W/kg)	
782.00	23230	Mid	LTE Band 13	10	42	25.8	24.50	0.10	0	Right	Cheek	QPSK	1	0	0103M	1:1	0.095	1.349	0.128	
782.00	23230	Mid	LTE Band 13	10	42	24.8	23.68	0.11	1	Right	Cheek	QPSK	25	12	0103M	1:1	0.077	1.294	0.100	
782.00	23230	Mid	LTE Band 13	10	42	25.8	24.50	0.11	0	Right	Tilt	QPSK	1	0	0103M	1:1	0.055	1.349	0.074	
782.00	23230	Mid	LTE Band 13	10	42	24.8	23.68	0.13	1	Right	Tilt	QPSK	25	12	0103M	1:1	0.048	1.294	0.062	
782.00	23230	Mid	LTE Band 13	10	42	25.8	24.50	0.11	0	Left	Cheek	QPSK	1	0	0103M	1:1	0.101	1.349	0.136	A8
782.00	23230	Mid	LTE Band 13	10	42	24.8	23.68	0.13	1	Left	Cheek	QPSK	25	12	0103M	1:1	0.069	1.294	0.089	
782.00	23230	Mid	LTE Band 13	10	42	25.8	24.50	-0.01	0	Left	Tilt	QPSK	1	0	0103M	1:1	0.069	1.349	0.093	
782.00	23230	Mid	LTE Band 13	10	42	24.8	23.68	0.14	1	Left	Tilt	QPSK	25	12	0103M	1:1	0.048	1.294	0.062	
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 11-10
LTE Band 14 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
																	MHz		Ch.	
793.00	23330	Mid	LTE Band 14	10	16	25.3	24.40	-0.07	0	Right	Cheek	QPSK	1	0	0103M	1:1	0.109	1.230	0.134	A10
793.00	23330	Mid	LTE Band 14	10	16	24.3	23.29	0.05	1	Right	Cheek	QPSK	25	12	0103M	1:1	0.093	1.262	0.117	
793.00	23330	Mid	LTE Band 14	10	16	25.3	24.40	0.04	0	Right	Tilt	QPSK	1	0	0103M	1:1	0.060	1.230	0.074	
793.00	23330	Mid	LTE Band 14	10	16	24.3	23.29	0.16	1	Right	Tilt	QPSK	25	12	0103M	1:1	0.049	1.262	0.062	
793.00	23330	Mid	LTE Band 14	10	16	25.3	24.40	0.06	0	Left	Cheek	QPSK	1	0	0103M	1:1	0.100	1.230	0.123	
793.00	23330	Mid	LTE Band 14	10	16	24.3	23.29	0.02	1	Left	Cheek	QPSK	25	12	0103M	1:1	0.071	1.262	0.090	
793.00	23330	Mid	LTE Band 14	10	16	25.3	24.40	0.14	0	Left	Tilt	QPSK	1	0	0103M	1:1	0.078	1.230	0.096	
793.00	23330	Mid	LTE Band 14	10	16	24.3	23.29	0.11	1	Left	Tilt	QPSK	25	12	0103M	1:1	0.054	1.262	0.068	
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 11-11
LTE Band 26 (Cell) Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
																	(W/kg)		(W/kg)	
MHz	Ch.																			
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	25.8	25.01	0.08	0	Right	Cheek	QPSK	1	0	0103M	1:1	0.147	1.199	0.176	A11
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	24.8	24.17	0.08	1	Right	Cheek	QPSK	36	0	0103M	1:1	0.118	1.156	0.136	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	25.8	25.01	-0.02	0	Right	Tilt	QPSK	1	0	0103M	1:1	0.100	1.199	0.120	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	24.8	24.17	0.07	1	Right	Tilt	QPSK	36	0	0103M	1:1	0.075	1.156	0.087	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	25.8	25.01	0.20	0	Left	Cheek	QPSK	1	0	0103M	1:1	0.121	1.199	0.145	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	24.8	24.17	0.13	1	Left	Cheek	QPSK	36	0	0103M	1:1	0.095	1.156	0.110	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	25.8	25.01	0.08	0	Left	Tilt	QPSK	1	0	0103M	1:1	0.096	1.199	0.115	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	24.8	24.17	0.07	1	Left	Tilt	QPSK	36	0	0103M	1:1	0.082	1.156	0.095	
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 11-12
LTE Band 5 (Cell) Head SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.80	0.05	0	Right	Cheek	QPSK	1	0	0103M	1:1	0.138	1.259	0.174	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.82	0.06	1	Right	Cheek	QPSK	25	12	0103M	1:1	0.102	1.253	0.128	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	25.59	0.07	0	Right	Cheek	QPSK	1	0	0103M	1:1	0.171	1.050	0.180	A12
	SCC	829.30	20453			5									1	24						
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.80	0.04	0	Right	Tilt	QPSK	1	0	0103M	1:1	0.098	1.259	0.123	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.82	0.10	1	Right	Tilt	QPSK	25	12	0103M	1:1	0.076	1.253	0.095	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.80	0.12	0	Left	Cheek	QPSK	1	0	0103M	1:1	0.099	1.259	0.125	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.82	0.08	1	Left	Cheek	QPSK	25	12	0103M	1:1	0.074	1.253	0.093	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.80	0.08	0	Left	Tilt	QPSK	1	0	0103M	1:1	0.085	1.259	0.107	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.82	0.03	1	Left	Tilt	QPSK	25	12	0103M	1:1	0.060	1.253	0.075	
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 11-13
NR Band n5 (Cell) Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
																	(W/kg)		(W/kg)	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.74	0.13	0	Right	Cheek	DFT-s-OFDM QPSK	1	1	0665M	1:1	0.168	1.276	0.214	A13
836.50	167300	Mid	NR Band n5 (Cell)	20	0	24.3	23.39	0.09	1.5	Right	Cheek	CP-OFDM QPSK	1	1	0665M	1:1	0.106	1.233	0.131	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.65	-0.07	0	Right	Cheek	DFT-s-OFDM QPSK	50	26	0665M	1:1	0.132	1.303	0.172	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.74	0.05	0	Right	Tilt	DFT-s-OFDM QPSK	1	1	0665M	1:1	0.084	1.276	0.107	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.65	0.11	0	Right	Tilt	DFT-s-OFDM QPSK	50	26	0665M	1:1	0.062	1.303	0.081	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.74	0.14	0	Left	Cheek	DFT-s-OFDM QPSK	1	1	0665M	1:1	0.105	1.276	0.134	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.65	0.19	0	Left	Cheek	DFT-s-OFDM QPSK	50	26	0665M	1:1	0.096	1.303	0.125	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.74	0.12	0	Left	Tilt	DFT-s-OFDM QPSK	1	1	0665M	1:1	0.076	1.276	0.097	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.65	0.16	0	Left	Tilt	DFT-s-OFDM QPSK	50	26	0665M	1:1	0.071	1.303	0.093	
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 11-14
LTE Band 66 (AWS) Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	25.0	24.58	0.13	0	Right	Cheek	QPSK	1	0	0096M	1:1	0.085	1.102	0.094	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.81	0.08	1	Right	Cheek	QPSK	50	25	0096M	1:1	0.069	1.045	0.072	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	25.0	24.58	0.09	0	Right	Tilt	QPSK	1	0	0096M	1:1	0.075	1.102	0.083	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.81	0.14	1	Right	Tilt	QPSK	50	25	0096M	1:1	0.042	1.045	0.044	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	25.0	24.58	0.10	0	Left	Cheek	QPSK	1	0	0096M	1:1	0.131	1.102	0.144	A14
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.81	0.05	1	Left	Cheek	QPSK	50	25	0096M	1:1	0.097	1.045	0.101	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	25.0	24.58	0.13	0	Left	Tilt	QPSK	1	0	0096M	1:1	0.060	1.102	0.066	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.81	0.12	1	Left	Tilt	QPSK	50	25	0096M	1:1	0.040	1.045	0.042	
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
LTE Band 25 (PCS) Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	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	0	25.0	24.06	-0.08	0	Right	Cheek	QPSK	1	0	0096M	1:1	0.041	1.242	0.051	
1905.00	26590	High	LTE Band 25 (PCS)	20	0	24.0	23.26	0.13	1	Right	Cheek	QPSK	50	25	0096M	1:1	0.032	1.186	0.038	
1905.00	26590	High	LTE Band 25 (PCS)	20	0	25.0	24.06	0.17	0	Right	Tilt	QPSK	1	0	0096M	1:1	0.032	1.242	0.040	
1905.00	26590	High	LTE Band 25 (PCS)	20	0	24.0	23.26	0.17	1	Right	Tilt	QPSK	50	25	0096M	1:1	0.018	1.186	0.021	
1905.00	26590	High	LTE Band 25 (PCS)	20	0	25.0	24.06	-0.17	0	Left	Cheek	QPSK	1	0	0096M	1:1	0.052	1.242	0.065	A15
1905.00	26590	High	LTE Band 25 (PCS)	20	0	24.0	23.26	0.13	1	Left	Cheek	QPSK	50	25	0096M	1:1	0.050	1.186	0.059	
1905.00	26590	High	LTE Band 25 (PCS)	20	0	25.0	24.06	0.12	0	Left	Tilt	QPSK	1	0	0096M	1:1	0.048	1.242	0.060	
1905.00	26590	High	LTE Band 25 (PCS)	20	0	24.0	23.26	-0.10	1	Left	Tilt	QPSK	50	25	0096M	1:1	0.037	1.186	0.044	
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 11-16
LTE Band 2 (PCS) Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1900.00	19100	High	LTE Band 2 (PCS)	20	0	25.0	24.19	0.09	0	Right	Cheek	QPSK	1	0	0096M	1:1	0.052	1.205	0.063	
1900.00	19100	High	LTE Band 2 (PCS)	20	0	24.0	23.20	0.18	1	Right	Cheek	QPSK	50	25	0096M	1:1	0.045	1.202	0.054	
1900.00	19100	High	LTE Band 2 (PCS)	20	0	25.0	24.19	0.12	0	Right	Tilt	QPSK	1	0	0096M	1:1	0.042	1.205	0.051	
1900.00	19100	High	LTE Band 2 (PCS)	20	0	24.0	23.20	0.16	1	Right	Tilt	QPSK	50	25	0096M	1:1	0.030	1.202	0.036	
1900.00	19100	High	LTE Band 2 (PCS)	20	0	25.0	24.19	0.15	0	Left	Cheek	QPSK	1	0	0096M	1:1	0.058	1.205	0.070	A16
1900.00	19100	High	LTE Band 2 (PCS)	20	0	24.0	23.20	0.12	1	Left	Cheek	QPSK	50	25	0096M	1:1	0.056	1.202	0.067	
1900.00	19100	High	LTE Band 2 (PCS)	20	0	25.0	24.19	0.19	0	Left	Tilt	QPSK	1	0	0096M	1:1	0.037	1.205	0.045	
1900.00	19100	High	LTE Band 2 (PCS)	20	0	24.0	23.20	0.16	1	Left	Tilt	QPSK	50	25	0096M	1:1	0.034	1.202	0.041	
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 11-17
LTE Band 30 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
2310.00	27710	Mid	LTE Band 30	10	24.0	23.33	0.14	0	Right	Cheek	QPSK	1	25	0089M	1:1	0.045	1.167	0.053	A17
2310.00	27710	Mid	LTE Band 30	10	23.0	22.44	0.18	1	Right	Cheek	QPSK	25	12	0089M	1:1	0.032	1.138	0.036	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.33	0.17	0	Right	Tilt	QPSK	1	25	0089M	1:1	0.018	1.167	0.021	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.44	0.14	1	Right	Tilt	QPSK	25	12	0089M	1:1	0.016	1.138	0.018	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.33	0.14	0	Left	Cheek	QPSK	1	25	0089M	1:1	0.027	1.167	0.032	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.44	0.16	1	Left	Cheek	QPSK	25	12	0089M	1:1	0.017	1.138	0.019	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.33	0.12	0	Left	Tilt	QPSK	1	25	0089M	1:1	0.013	1.167	0.015	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.44	-0.18	1	Left	Tilt	QPSK	25	12	0089M	1:1	0.009	1.138	0.010	
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 11-18
LTE Band 7 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
2510.00	20850	Low	LTE Band 7	20	24.0	23.67	0.15	0	Right	Cheek	QPSK	1	0	0073M	1:1	0.082	1.079	0.088	
2510.00	20850	Low	LTE Band 7	20	23.0	22.76	0.13	1	Right	Cheek	QPSK	50	0	0073M	1:1	0.066	1.057	0.070	
2510.00	20850	Low	LTE Band 7	20	24.0	23.67	0.08	0	Right	Tilt	QPSK	1	0	0073M	1:1	0.089	1.079	0.096	A15
2510.00	20850	Low	LTE Band 7	20	23.0	22.76	0.12	1	Right	Tilt	QPSK	50	0	0073M	1:1	0.073	1.057	0.077	
2510.00	20850	Low	LTE Band 7	20	24.0	23.67	0.12	0	Left	Cheek	QPSK	1	0	0073M	1:1	0.067	1.079	0.072	
2510.00	20850	Low	LTE Band 7	20	23.0	22.76	0.21	1	Left	Cheek	QPSK	50	0	0073M	1:1	0.059	1.057	0.062	
2510.00	20850	Low	LTE Band 7	20	24.0	23.67	-0.20	0	Left	Tilt	QPSK	1	0	0073M	1:1	0.044	1.079	0.047	
2510.00	20850	Low	LTE Band 7	20	23.0	22.76	0.13	1	Left	Tilt	QPSK	50	0	0073M	1:1	0.037	1.057	0.039	
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 11-19
LTE Band 48 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.33	0.16	0	Right	Cheek	QPSK	1	0	0073M	1:1.58	0.021	1.167	0.025	
3646.70	56207	Mid-High	LTE Band 48	20	22.0	21.31	0.14	1	Right	Cheek	QPSK	50	0	0073M	1:1.58	0.013	1.172	0.015	
3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.33	0.13	0	Right	Tilt	QPSK	1	0	0073M	1:1.58	0.034	1.167	0.040	
3646.70	56207	Mid-High	LTE Band 48	20	22.0	21.31	-0.16	1	Right	Tilt	QPSK	50	0	0073M	1:1.58	0.023	1.172	0.027	
3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.33	0.14	0	Left	Cheek	QPSK	1	0	0073M	1:1.58	0.050	1.167	0.058	A19
3646.70	56207	Mid-High	LTE Band 48	20	22.0	21.31	0.16	1	Left	Cheek	QPSK	50	0	0073M	1:1.58	0.035	1.172	0.041	
3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.33	0.18	0	Left	Tilt	QPSK	1	0	0073M	1:1.58	0.012	1.167	0.014	
3646.70	56207	Mid-High	LTE Band 48	20	22.0	21.31	0.15	1	Left	Tilt	QPSK	50	0	0073M	1:1.58	0.010	1.172	0.012	
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 11-20
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	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	24.5	24.07	0.17	0	Right	Cheek	QPSK	1	50	0089M	1:1.58	0.043	1.104	0.047	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.5	23.08	0.17	1	Right	Cheek	QPSK	50	0	0089M	1:1.58	0.035	1.102	0.039	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	24.5	24.07	0.14	0	Right	Tilt	QPSK	1	50	0089M	1:1.58	0.063	1.104	0.070	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.5	23.08	0.13	1	Right	Tilt	QPSK	50	0	0089M	1:1.58	0.045	1.102	0.050	
Power Class 2	2636.50	41055	Mid-High	LTE Band 41	20	27.5	26.79	-0.01	0	Right	Tilt	QPSK	1	50	0089M	1:2.31	0.082	1.178	0.097	A20
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	24.5	24.07	0.19	0	Left	Cheek	QPSK	1	50	0089M	1:1.58	0.047	1.104	0.052	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.5	23.08	0.13	1	Left	Cheek	QPSK	50	0	0089M	1:1.58	0.038	1.102	0.042	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	24.5	24.07	0.04	0	Left	Tilt	QPSK	1	50	0089M	1:1.58	0.031	1.104	0.034	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.5	23.08	0.12	1	Left	Tilt	QPSK	50	0	0089M	1:1.58	0.024	1.102	0.026	
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 11-21
DTS 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)	
2412	1	802.11b	DSSS	22	17.0	16.96	0.12	Right	Cheek	1	0585M	1	98.9	1.256	0.566	1.009	1.011	0.577	
2412	1	802.11b	DSSS	22	17.0	16.96	-0.08	Right	Tilt	1	0585M	1	98.9	1.458	0.749	1.009	1.011	0.764	A21
2437	6	802.11b	DSSS	22	17.0	16.92	-0.17	Right	Tilt	1	0585M	1	98.9	0.658	0.448	1.019	1.011	0.462	
2462	11	802.11b	DSSS	22	17.0	16.86	0.14	Right	Tilt	1	0585M	1	98.9	0.754	0.658	1.033	1.011	0.687	
2412	1	802.11b	DSSS	22	17.0	16.96	0.17	Left	Cheek	1	0585M	1	98.9	0.222	-	1.009	1.011	-	
2412	1	802.11b	DSSS	22	17.0	16.96	0.12	Left	Tilt	1	0585M	1	98.9	0.282	-	1.009	1.011	-	
2412	1	802.11b	DSSS	22	17.0	16.96	0.08	Right	Cheek	2	0585M	1	98.9	0.037	0.018	1.009	1.011	0.018	
2412	1	802.11b	DSSS	22	17.0	16.96	0.10	Right	Tilt	2	0585M	1	98.9	0.036	-	1.009	1.011	-	
2412	1	802.11b	DSSS	22	17.0	16.96	0.13	Left	Cheek	2	0585M	1	98.9	0.014	-	1.009	1.011	-	
2412	1	802.11b	DSSS	22	17.0	16.96	0.16	Left	Tilt	2	0585M	1	98.9	0.020	-	1.009	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										

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Table 11-22
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)	
2412	1	802.11n	OFDM	20	17.0	16.94	17.0	16.97	0.02	Right	Cheek	MIMO	0585M	13	98.4	0.546	0.381	1.014	1.016	0.393	
2412	1	802.11n	OFDM	20	17.0	16.94	17.0	16.97	0.13	Right	Tilt	MIMO	0585M	13	98.4	0.801	0.444	1.014	1.016	0.457	
2412	1	802.11n	OFDM	20	17.0	16.94	17.0	16.97	0.19	Left	Cheek	MIMO	0585M	13	98.4	0.128	-	1.014	1.016	-	
2412	1	802.11n	OFDM	20	17.0	16.94	17.0	16.97	0.10	Left	Tilt	MIMO	0585M	13	98.4	0.190	-	1.014	1.016	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 20.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.0 dBm.

Table 11-23
DTS Head SAR for Conditions with 2.4 GHz and 5 GHz WLAN 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 Anta Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2462	11	802.11n	OFDM	20	14.0	13.95	14.0	13.73	0.19	Right	Cheek	MIMO	0600M	13	98.4	0.351	-	1.064	1.016	-	
2462	11	802.11n	OFDM	20	14.0	13.95	14.0	13.73	0.15	Right	Tilt	MIMO	0600M	13	98.4	0.524	0.300	1.064	1.016	0.324	
2462	11	802.11n	OFDM	20	14.0	13.95	14.0	13.73	0.14	Left	Cheek	MIMO	0600M	13	98.4	0.069	-	1.064	1.016	-	
2462	11	802.11n	OFDM	20	14.0	13.95	14.0	13.73	0.15	Left	Tilt	MIMO	0600M	13	98.4	0.131	-	1.064	1.016	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Note: DTS MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 5 GHz WIFI was not transmitting during the above evaluations.

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**Table 11-24
NII 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	14.0	13.62	0.16	Right	Cheek	1	0585M	29.3	94.9	0.183	-	1.091	1.054	-	
5290	58	802.11ac	OFDM	80	14.0	13.62	0.14	Right	Tilt	1	0585M	29.3	94.9	0.228	0.110	1.091	1.054	0.126	
5290	58	802.11ac	OFDM	80	14.0	13.62	0.19	Left	Cheek	1	0585M	29.3	94.9	0.076	-	1.091	1.054	-	
5290	58	802.11ac	OFDM	80	14.0	13.62	0.17	Left	Tilt	1	0585M	29.3	94.9	0.098	-	1.091	1.054	-	
5290	58	802.11ac	OFDM	80	14.0	13.72	0.19	Right	Cheek	2	0585M	29.3	94.7	0.030	0.010	1.067	1.056	0.011	
5290	58	802.11ac	OFDM	80	14.0	13.72	0.19	Right	Tilt	2	0585M	29.3	94.7	0.028	-	1.067	1.056	-	
5290	58	802.11ac	OFDM	80	14.0	13.72	0.12	Left	Cheek	2	0585M	29.3	94.7	0.020	-	1.067	1.056	-	
5290	58	802.11ac	OFDM	80	14.0	13.72	0.19	Left	Tilt	2	0585M	29.3	94.7	0.025	-	1.067	1.056	-	
5530	106	802.11ac	OFDM	80	14.0	13.75	0.18	Right	Cheek	1	0585M	29.3	94.9	0.278	-	1.059	1.054	-	
5530	106	802.11ac	OFDM	80	14.0	13.75	0.14	Right	Tilt	1	0585M	29.3	94.9	0.475	0.166	1.059	1.054	0.185	
5530	106	802.11ac	OFDM	80	14.0	13.75	0.19	Left	Cheek	1	0585M	29.3	94.9	0.120	-	1.059	1.054	-	
5530	106	802.11ac	OFDM	80	14.0	13.75	0.13	Left	Tilt	1	0585M	29.3	94.9	0.149	-	1.059	1.054	-	
5610	122	802.11ac	OFDM	80	14.0	13.77	0.19	Right	Cheek	2	0585M	29.3	94.7	0.072	-	1.054	1.056	-	
5610	122	802.11ac	OFDM	80	14.0	13.77	0.19	Right	Tilt	2	0585M	29.3	94.7	0.092	0.028	1.054	1.056	0.031	
5610	122	802.11ac	OFDM	80	14.0	13.77	0.19	Left	Cheek	2	0585M	29.3	94.7	0.052	-	1.054	1.056	-	
5610	122	802.11ac	OFDM	80	14.0	13.77	0.19	Left	Tilt	2	0585M	29.3	94.7	0.052	-	1.054	1.056	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	0.16	Right	Cheek	1	0585M	29.3	94.9	0.564	-	1.059	1.054	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	-0.03	Right	Tilt	1	0585M	29.3	94.9	0.687	0.284	1.059	1.054	0.317	A22
5775	155	802.11ac	OFDM	80	14.0	13.75	-0.04	Left	Cheek	1	0585M	29.3	94.9	0.203	-	1.059	1.054	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	0.12	Left	Tilt	1	0585M	29.3	94.9	0.278	-	1.059	1.054	-	
5775	155	802.11ac	OFDM	80	14.0	13.89	0.19	Right	Cheek	2	0585M	29.3	94.7	0.027	-	1.026	1.056	-	
5775	155	802.11ac	OFDM	80	14.0	13.89	0.19	Right	Tilt	2	0585M	29.3	94.7	0.043	-	1.026	1.056	-	
5775	155	802.11ac	OFDM	80	14.0	13.89	0.19	Left	Cheek	2	0585M	29.3	94.7	0.059	-	1.026	1.056	-	
5775	155	802.11ac	OFDM	80	14.0	13.89	0.19	Left	Tilt	2	0585M	29.3	94.7	0.070	0.025	1.026	1.056	0.027	
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 11-25
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	14.0	13.62	14.0	13.72	-0.21	Right	Cheek	MIMO	0600M	58.5	90.1	0.474	-	1.091	1.110	-	
5290	58	802.11ac	OFDM	80	14.0	13.62	14.0	13.72	0.13	Right	Tilt	MIMO	0600M	58.5	90.1	0.541	0.201	1.091	1.110	0.243	
5290	58	802.11ac	OFDM	80	14.0	13.62	14.0	13.72	0.12	Left	Cheek	MIMO	0600M	58.5	90.1	0.150	-	1.091	1.110	-	
5290	58	802.11ac	OFDM	80	14.0	13.62	14.0	13.72	0.19	Left	Tilt	MIMO	0600M	58.5	90.1	0.176	-	1.091	1.110	-	
5690	138	802.11ac	OFDM	80	14.0	13.69	14.0	13.77	0.19	Right	Cheek	MIMO	0600M	58.5	90.1	0.435	-	1.074	1.110	-	
5690	138	802.11ac	OFDM	80	14.0	13.69	14.0	13.77	0.04	Right	Tilt	MIMO	0600M	58.5	90.1	0.490	0.191	1.074	1.110	0.228	
5690	138	802.11ac	OFDM	80	14.0	13.69	14.0	13.77	0.13	Left	Cheek	MIMO	0600M	58.5	90.1	0.186	-	1.074	1.110	-	
5690	138	802.11ac	OFDM	80	14.0	13.69	14.0	13.77	0.09	Left	Tilt	MIMO	0600M	58.5	90.1	0.228	-	1.074	1.110	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	14.0	13.89	0.19	Right	Cheek	MIMO	0600M	58.5	90.1	0.496	-	1.059	1.110	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	14.0	13.89	0.11	Right	Tilt	MIMO	0600M	58.5	90.1	0.635	0.236	1.059	1.110	0.277	
5775	155	802.11ac	OFDM	80	14.0	13.75	14.0	13.89	0.13	Left	Cheek	MIMO	0600M	58.5	90.1	0.229	-	1.059	1.110	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	14.0	13.89	0.06	Left	Tilt	MIMO	0600M	58.5	90.1	0.314	-	1.059	1.110	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak										Head											
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 17.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14.0 dBm.

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**Table 11-26
DSS Head SAR**

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	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)	
2480.00	78	Bluetooth	FHSS	14.5	13.99	0.01	Right	Cheek	0600M	1	76.8	0.193	1.125	1.302	0.283	
2480.00	78	Bluetooth	FHSS	14.5	13.99	0.07	Right	Tilt	0600M	1	76.8	0.246	1.125	1.302	0.360	A23
2480.00	78	Bluetooth	FHSS	14.5	13.99	0.20	Left	Cheek	0600M	1	76.8	0.048	1.125	1.302	0.070	
2480.00	78	Bluetooth	FHSS	14.5	13.99	0.13	Left	Tilt	0600M	1	76.8	0.056	1.125	1.302	0.082	
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 11-27
GSM/UMTS Body-Worn SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Ant State	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.											(W/kg)			
836.60	190	GSM 850	GSM	33.5	32.80	0.01	15 mm	N/A	0098M	1:8.3	back	0.142	1.175	0.167	A24
1880.00	661	GSM 1900	GSM	30.0	29.09	-0.04	15 mm	N/A	0099M	1:8.3	back	0.273	1.233	0.337	A26
836.60	4183	UMTS 850	RMC	25.5	24.64	-0.01	15 mm	0	0098M	1:1	back	0.245	1.219	0.299	A28
1712.40	1312	UMTS 1750	RMC	25.0	24.40	0.00	15 mm	23	0099M	1:1	back	0.661	1.148	0.759	
1732.40	1412	UMTS 1750	RMC	25.0	24.39	-0.02	15 mm	23	0099M	1:1	back	0.737	1.151	0.848	
1752.60	1513	UMTS 1750	RMC	25.0	24.41	-0.02	15 mm	23	0099M	1:1	back	0.759	1.146	0.870	A30
1852.40	9262	UMTS 1900	RMC	25.0	24.43	-0.04	15 mm	0	0099M	1:1	back	0.550	1.140	0.627	
1880.00	9400	UMTS 1900	RMC	25.0	24.50	-0.06	15 mm	0	0099M	1:1	back	0.695	1.122	0.780	
1907.60	9538	UMTS 1900	RMC	25.0	24.49	0.14	15 mm	0	0099M	1:1	back	0.893	1.125	1.005	A32
1907.60	9538	UMTS 1900	RMC	25.0	24.49	-0.09	15 mm	0	0099M	1:1	back	0.861	1.125	0.969	
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: Blue entries represent variability measurements.

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Table 11-28
LTE Body-Worn SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.06	-0.01	0	0103M	QPSK	1	0	15 mm	back	1:1	0.150	1.186	0.178	A34
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.11	0.03	1	0103M	QPSK	50	25	15 mm	back	1:1	0.125	1.172	0.147	
707.50	23095	Mid	LTE Band 12	10	0	25.8	24.88	-0.05	0	0103M	QPSK	1	0	15 mm	back	1:1	0.173	1.236	0.214	A38
707.50	23095	Mid	LTE Band 12	10	0	24.8	23.87	-0.01	1	0103M	QPSK	25	12	15 mm	back	1:1	0.154	1.239	0.191	
782.00	23230	Mid	LTE Band 13	10	0	25.8	24.50	0.05	0	0103M	QPSK	1	0	15 mm	back	1:1	0.204	1.349	0.275	A40
782.00	23230	Mid	LTE Band 13	10	0	24.8	23.68	-0.01	1	0103M	QPSK	25	12	15 mm	back	1:1	0.181	1.294	0.234	
793.00	23330	Mid	LTE Band 14	10	0	25.3	24.40	0.02	0	0103M	QPSK	1	0	15 mm	back	1:1	0.205	1.230	0.252	A42
793.00	23330	Mid	LTE Band 14	10	0	24.3	23.29	0.02	1	0103M	QPSK	25	12	15 mm	back	1:1	0.156	1.262	0.197	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	25.8	25.01	0.00	0	0103M	QPSK	1	0	15 mm	back	1:1	0.255	1.199	0.306	A44
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	24.8	24.17	0.03	1	0103M	QPSK	36	0	15 mm	back	1:1	0.202	1.156	0.234	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	25.0	24.26	0.05	0	0096M	QPSK	1	0	15 mm	back	1:1	0.610	1.186	0.723	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	25.0	24.58	0.13	0	0096M	QPSK	1	0	15 mm	back	1:1	0.835	1.102	0.920	A50
1770.00	132572	High	LTE Band 66 (AWS)	20	23	25.0	24.29	-0.06	0	0096M	QPSK	1	99	15 mm	back	1:1	0.776	1.178	0.914	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.81	0.01	1	0096M	QPSK	50	25	15 mm	back	1:1	0.672	1.045	0.702	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.64	0.03	1	0096M	QPSK	100	0	15 mm	back	1:1	0.649	1.086	0.705	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	25.0	24.03	-0.05	0	0096M	QPSK	1	50	15 mm	back	1:1	0.575	1.250	0.719	A52
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23	25.0	24.00	0.00	0	0096M	QPSK	1	0	15 mm	back	1:1	0.526	1.259	0.662	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	25.0	24.06	0.03	0	0096M	QPSK	1	0	15 mm	back	1:1	0.544	1.242	0.676	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	24.0	23.26	-0.04	1	0096M	QPSK	50	25	15 mm	back	1:1	0.387	1.186	0.459	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22	25.0	24.00	0.11	0	0096M	QPSK	1	99	15 mm	back	1:1	0.734	1.259	0.924	A54
1880.00	18900	Mid	LTE Band 2 (PCS)	20	22	25.0	24.03	0.05	0	0096M	QPSK	1	99	15 mm	back	1:1	0.718	1.250	0.898	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	25.0	24.19	0.06	0	0096M	QPSK	1	0	15 mm	back	1:1	0.641	1.205	0.772	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	24.0	23.20	0.07	1	0096M	QPSK	50	25	15 mm	back	1:1	0.478	1.202	0.575	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22	24.0	23.10	0.04	1	0096M	QPSK	100	0	15 mm	back	1:1	0.607	1.230	0.747	
2310.00	27710	Mid	LTE Band 30	10	N/A	24.0	23.33	0.03	0	0089M	QPSK	1	25	15 mm	back	1:1	0.503	1.167	0.587	A56
2310.00	27710	Mid	LTE Band 30	10	N/A	23.0	22.44	0.02	1	0089M	QPSK	25	12	15 mm	back	1:1	0.400	1.138	0.455	
2510.00	20850	Low	LTE Band 7	20	N/A	24.0	23.67	-0.08	0	0089M	QPSK	1	0	15 mm	back	1:1	0.336	1.079	0.363	A58
2510.00	20850	Low	LTE Band 7	20	N/A	23.0	22.76	0.00	1	0089M	QPSK	50	0	15 mm	back	1:1	0.278	1.057	0.294	
3646.70	56207	Mid-High	LTE Band 48	20	N/A	23.0	22.33	-0.08	0	0073M	QPSK	1	0	15 mm	back	1:1.58	0.111	1.167	0.130	A60
3646.70	56207	Mid-High	LTE Band 48	20	N/A	22.0	21.31	0.04	1	0073M	QPSK	50	0	15 mm	back	1:1.58	0.088	1.172	0.103	
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 11-29
LTE Band 5 Body-Worn SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.80	0.00	0	0103M	QPSK	1	0	15 mm	back	1:1	0.217	1.259	0.273	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.82	0.01	1	0103M	QPSK	25	12	15 mm	back	1:1	0.175	1.253	0.219	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	25.59	0.00	0	0103M	QPSK	1	0	15 mm	back	1:1	0.271	1.050	0.285	A46
	SCC	829.30	20453			5								1	24							
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 11-30
NR Body-Worn SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.12	0	0428M	DFT-s-OFDM QPSK	1	53	15 mm	back	1:1	0.132	1.161	0.153	A36
680.50	136100	Mid	NR Band n71	20	0	24.3	23.15	0.04	1.5	0428M	CP-OFDM QPSK	1	1	15 mm	back	1:1	0.098	1.303	0.128	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	-0.11	0	0428M	DFT-s-OFDM QPSK	50	26	15 mm	back	1:1	0.132	1.161	0.153	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.74	0.03	0	0665M	DFT-s-OFDM QPSK	1	1	15 mm	back	1:1	0.260	1.276	0.332	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	24.3	23.39	-0.03	1.5	0665M	CP-OFDM QPSK	1	1	15 mm	back	1:1	0.185	1.233	0.228	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.65	-0.02	0	0665M	DFT-s-OFDM QPSK	50	26	15 mm	back	1:1	0.261	1.303	0.340	A48
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 11-31
LTE Band 41 Body-Worn SAR

MEASUREMENT RESULTS																				
Power Class	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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	24.5	24.07	0.14	0	0089M	QPSK	1	50	15 mm	back	1:1.58	0.235	1.104	0.259	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.5	23.08	-0.04	1	0089M	QPSK	50	0	15 mm	back	1:1.58	0.163	1.102	0.180	
Power Class 2	2636.50	41055	Mid-High	LTE Band 41	20	27.5	26.79	0.05	0	0089M	QPSK	1	50	15 mm	back	1:2.31	0.290	1.178	0.342	A62
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 11-32
DTS 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	20.5	20.48	0.05	15 mm	1	0585M	1	back	98.9	0.183	0.123	1.005	1.011	0.125	A64
2412	1	802.11b	DSSS	22	20.5	20.48	-0.01	15 mm	2	0585M	1	back	98.9	0.031	0.019	1.005	1.011	0.019	
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
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)	
2462	11	802.11n	OFDM	20	18.0	17.76	18.0	17.71	0.17	15 mm	MIMO	0585M	13	back	98.4	0.092	0.056	1.069	1.016	0.061	
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: 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 11-34
DTS Body-Worn SAR for Conditions with 2.4 GHz and 5 GHz WLAN SAR and/or 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)	
2412	1	802.11n	OFDM	20	17.0	16.94	17.0	16.97	0.12	15 mm	MIMO	0585M	13	back	98.4	0.048	0.025	1.014	1.016	0.026	
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: DTS MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 5 GHz WIFI was not transmitting during the above evaluations.

Table 11-35
NII 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)	
5260	52	802.11a	OFDM	20	18.0	17.93	-0.14	15 mm	1	0585M	6	back	98.8	0.304	0.142	1.016	1.012	0.146	
5280	56	802.11a	OFDM	20	18.0	17.98	0.15	15 mm	2	0585M	6	back	98.8	0.070	0.025	1.005	1.012	0.025	
5720	144	802.11a	OFDM	20	18.0	17.94	0.06	15 mm	1	0585M	6	back	98.8	0.388	0.186	1.014	1.012	0.191	
5620	124	802.11a	OFDM	20	18.0	17.85	0.13	15 mm	2	0585M	6	back	98.8	0.166	0.070	1.035	1.012	0.073	
5785	157	802.11a	OFDM	20	18.0	17.91	0.12	15 mm	1	0585M	6	back	98.8	0.503	0.245	1.021	1.012	0.253	
5785	157	802.11a	OFDM	20	18.0	17.95	0.19	15 mm	2	0585M	6	back	98.8	0.110	0.049	1.012	1.012	0.050	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak Uncontrolled Exposure/General Population																			

Table 11-36
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)		
5300	60	802.11n	OFDM	20	18.0	17.95	18.0	17.86	-0.15	15 mm	MIMO	0585M	13	back	99.7	0.364	0.176	1.033	1.003	0.182	
5620	124	802.11n	OFDM	20	18.0	17.94	18.0	17.58	-0.06	15 mm	MIMO	0585M	13	back	99.7	0.514	0.255	1.102	1.003	0.282	
5825	165	802.11n	OFDM	20	18.0	17.88	18.0	17.92	-0.02	15 mm	MIMO	0585M	13	back	99.7	0.623	0.303	1.028	1.003	0.312	A66
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

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Table 11-37
NII Body-Worn SAR for Conditions with 2.4 GHz and 5 GHz WLAN SAR and/or 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	14.0	13.62	14.0	13.72	0.13	15 mm	MIMO	0585M	58.5	back	90.1	0.068	0.042	1.091	1.110	0.051	
5690	138	802.11ac	OFDM	80	14.0	13.69	14.0	13.77	0.16	15 mm	MIMO	0585M	58.5	back	90.1	0.178	0.074	1.074	1.110	0.088	
5775	155	802.11ac	OFDM	80	14.0	13.75	14.0	13.89	-0.10	15 mm	MIMO	0585M	58.5	back	90.1	0.219	0.093	1.059	1.110	0.109	
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: NII MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations.

Table 11-38
DSS Body-Worn SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	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)	
2480	78	Bluetooth	FHSS	14.5	13.99	0.12	15 mm	0600M	1	back	76.8	0.018	1.125	1.302	0.026	A68
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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11.3 Standalone Hotspot SAR Data

Table 11-39
GPRS/UMTS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Ant State	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	29.64	-0.05	10 mm	N/A	0098M	3	1:2.76	back	0.352	1.219	0.429	A25
836.60	190	GSM 850	GPRS	30.5	29.64	0.08	10 mm	N/A	0098M	3	1:2.76	front	0.227	1.219	0.277	
836.60	190	GSM 850	GPRS	30.5	29.64	0.01	10 mm	N/A	0098M	3	1:2.76	bottom	0.206	1.219	0.251	
836.60	190	GSM 850	GPRS	30.5	29.64	0.05	10 mm	N/A	0098M	3	1:2.76	right	0.149	1.219	0.182	
836.60	190	GSM 850	GPRS	30.5	29.64	0.13	10 mm	N/A	0098M	3	1:2.76	left	0.058	1.219	0.071	
1880.00	661	GSM 1900	GPRS	23.5	23.25	-0.10	10 mm	N/A	0099M	3	1:2.76	back	0.408	1.059	0.432	
1880.00	661	GSM 1900	GPRS	23.5	23.25	-0.07	10 mm	N/A	0099M	3	1:2.76	front	0.326	1.059	0.345	
1850.20	512	GSM 1900	GPRS	23.5	22.80	0.15	10 mm	N/A	0099M	3	1:2.76	bottom	0.670	1.175	0.787	
1880.00	661	GSM 1900	GPRS	23.5	23.25	-0.02	10 mm	N/A	0099M	3	1:2.76	bottom	0.724	1.059	0.767	
1909.80	810	GSM 1900	GPRS	23.5	23.07	0.14	10 mm	N/A	0099M	3	1:2.76	bottom	0.889	1.104	0.981	A27
1880.00	661	GSM 1900	GPRS	23.5	23.25	0.03	10 mm	N/A	0099M	3	1:2.76	right	0.040	1.059	0.042	
1880.00	661	GSM 1900	GPRS	23.5	23.25	-0.13	10 mm	N/A	0099M	3	1:2.76	left	0.051	1.059	0.054	
826.40	4132	UMTS 850	RMC	25.5	24.63	-0.10	10 mm	0	0098M	N/A	1:1	back	0.614	1.222	0.750	
836.60	4183	UMTS 850	RMC	25.5	24.64	-0.03	10 mm	0	0098M	N/A	1:1	back	0.552	1.219	0.673	
846.60	4233	UMTS 850	RMC	25.5	24.44	0.01	10 mm	0	0098M	N/A	1:1	back	0.706	1.276	0.901	A29
836.60	4183	UMTS 850	RMC	25.5	24.64	0.02	10 mm	0	0098M	N/A	1:1	front	0.345	1.219	0.421	
836.60	4183	UMTS 850	RMC	25.5	24.64	-0.02	10 mm	0	0098M	N/A	1:1	bottom	0.290	1.219	0.354	
836.60	4183	UMTS 850	RMC	25.5	24.64	0.05	10 mm	0	0098M	N/A	1:1	right	0.224	1.219	0.273	
836.60	4183	UMTS 850	RMC	25.5	24.64	0.02	10 mm	0	0098M	N/A	1:1	left	0.073	1.219	0.089	
1732.40	1412	UMTS 1750	RMC	20.0	19.34	-0.02	10 mm	23	0099M	N/A	1:1	back	0.457	1.164	0.532	
1732.40	1412	UMTS 1750	RMC	20.0	19.34	0.03	10 mm	23	0099M	N/A	1:1	front	0.329	1.164	0.383	
1712.40	1312	UMTS 1750	RMC	20.0	19.44	0.02	10 mm	23	0099M	N/A	1:1	bottom	0.681	1.138	0.775	
1732.40	1412	UMTS 1750	RMC	20.0	19.34	-0.01	10 mm	23	0099M	N/A	1:1	bottom	0.746	1.164	0.868	
1752.60	1513	UMTS 1750	RMC	20.0	19.41	0.14	10 mm	23	0099M	N/A	1:1	bottom	0.756	1.146	0.866	A31
1732.40	1412	UMTS 1750	RMC	20.0	19.34	0.10	10 mm	23	0099M	N/A	1:1	right	0.055	1.164	0.064	
1732.40	1412	UMTS 1750	RMC	20.0	19.34	0.06	10 mm	23	0099M	N/A	1:1	left	0.072	1.164	0.084	
1880.00	9400	UMTS 1900	RMC	18.5	18.45	0.05	10 mm	0	0099M	N/A	1:1	back	0.307	1.012	0.311	
1880.00	9400	UMTS 1900	RMC	18.5	18.45	0.01	10 mm	0	0099M	N/A	1:1	front	0.248	1.012	0.251	
1852.40	9262	UMTS 1900	RMC	18.5	18.31	-0.02	10 mm	0	0099M	N/A	1:1	bottom	0.577	1.045	0.603	
1880.00	9400	UMTS 1900	RMC	18.5	18.45	-0.04	10 mm	0	0099M	N/A	1:1	bottom	0.610	1.012	0.617	
1907.60	9538	UMTS 1900	RMC	18.5	18.46	-0.04	10 mm	0	0099M	N/A	1:1	bottom	0.621	1.009	0.627	A33
1880.00	9400	UMTS 1900	RMC	18.5	18.45	0.07	10 mm	0	0099M	N/A	1:1	right	0.044	1.012	0.045	
1880.00	9400	UMTS 1900	RMC	18.5	18.45	0.02	10 mm	0	0099M	N/A	1:1	left	0.056	1.012	0.057	
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 11-40
LTE Band 71 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.06	-0.04	0	0103M	QPSK	1	0	10 mm	back	1:1	0.249	1.186	0.295	A35
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.11	0.00	1	0103M	QPSK	50	25	10 mm	back	1:1	0.218	1.172	0.255	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.06	-0.03	0	0103M	QPSK	1	0	10 mm	front	1:1	0.168	1.186	0.199	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.11	-0.06	1	0103M	QPSK	50	25	10 mm	front	1:1	0.145	1.172	0.170	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.06	-0.03	0	0103M	QPSK	1	0	10 mm	bottom	1:1	0.120	1.186	0.142	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.11	-0.04	1	0103M	QPSK	50	25	10 mm	bottom	1:1	0.096	1.172	0.113	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.06	-0.01	0	0103M	QPSK	1	0	10 mm	right	1:1	0.149	1.186	0.177	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.11	-0.01	1	0103M	QPSK	50	25	10 mm	right	1:1	0.108	1.172	0.127	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.06	-0.06	0	0103M	QPSK	1	0	10 mm	left	1:1	0.107	1.186	0.127	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.11	-0.04	1	0103M	QPSK	50	25	10 mm	left	1:1	0.088	1.172	0.103	
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 11-41
NR Band n71 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.00	0	0428M	DFT-s-OFDM QPSK	1	53	10 mm	back	1:1	0.197	1.161	0.229	
680.50	136100	Mid	NR Band n71	20	0	24.3	23.15	-0.07	1.5	0428M	CP-OFDM QPSK	1	1	10 mm	back	1:1	0.146	1.303	0.190	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	-0.06	0	0428M	DFT-s-OFDM QPSK	50	26	10 mm	back	1:1	0.199	1.161	0.231	A37
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	-0.02	0	0428M	DFT-s-OFDM QPSK	1	53	10 mm	front	1:1	0.145	1.161	0.168	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	-0.08	0	0428M	DFT-s-OFDM QPSK	50	26	10 mm	front	1:1	0.143	1.161	0.166	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	-0.12	0	0428M	DFT-s-OFDM QPSK	1	53	10 mm	bottom	1:1	0.123	1.161	0.143	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	-0.09	0	0428M	DFT-s-OFDM QPSK	50	26	10 mm	bottom	1:1	0.128	1.161	0.149	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	0.06	0	0428M	DFT-s-OFDM QPSK	1	53	10 mm	right	1:1	0.138	1.161	0.160	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	-0.10	0	0428M	DFT-s-OFDM QPSK	50	26	10 mm	right	1:1	0.139	1.161	0.161	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	-0.02	0	0428M	DFT-s-OFDM QPSK	1	53	10 mm	left	1:1	0.091	1.161	0.106	
680.50	136100	Mid	NR Band n71	20	0	25.8	25.15	-0.09	0	0428M	DFT-s-OFDM QPSK	50	26	10 mm	left	1:1	0.092	1.161	0.107	
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 11-42
LTE Band 12 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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	0	25.8	24.88	-0.01	0	0103M	QPSK	1	0	10 mm	back	1:1	0.282	1.236	0.349	A39
707.50	23095	Mid	LTE Band 12	10	0	24.8	23.87	0.00	1	0103M	QPSK	25	12	10 mm	back	1:1	0.263	1.239	0.326	
707.50	23095	Mid	LTE Band 12	10	0	25.8	24.88	-0.02	0	0103M	QPSK	1	0	10 mm	front	1:1	0.199	1.236	0.246	
707.50	23095	Mid	LTE Band 12	10	0	24.8	23.87	-0.02	1	0103M	QPSK	25	12	10 mm	front	1:1	0.191	1.239	0.237	
707.50	23095	Mid	LTE Band 12	10	0	25.8	24.88	0.02	0	0103M	QPSK	1	0	10 mm	bottom	1:1	0.162	1.236	0.200	
707.50	23095	Mid	LTE Band 12	10	0	24.8	23.87	0.01	1	0103M	QPSK	25	12	10 mm	bottom	1:1	0.153	1.239	0.190	
707.50	23095	Mid	LTE Band 12	10	0	25.8	24.88	-0.04	0	0103M	QPSK	1	0	10 mm	right	1:1	0.171	1.236	0.211	
707.50	23095	Mid	LTE Band 12	10	0	24.8	23.87	0.06	1	0103M	QPSK	25	12	10 mm	right	1:1	0.153	1.239	0.190	
707.50	23095	Mid	LTE Band 12	10	0	25.8	24.88	-0.04	0	0103M	QPSK	1	0	10 mm	left	1:1	0.103	1.236	0.127	
707.50	23095	Mid	LTE Band 12	10	0	24.8	23.87	-0.07	1	0103M	QPSK	25	12	10 mm	left	1:1	0.087	1.239	0.108	
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 11-43
LTE Band 13 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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	0	25.8	24.50	-0.02	0	0103M	QPSK	1	0	10 mm	back	1:1	0.420	1.349	0.567	A41
782.00	23230	Mid	LTE Band 13	10	0	24.8	23.68	-0.03	1	0103M	QPSK	25	12	10 mm	back	1:1	0.354	1.294	0.458	
782.00	23230	Mid	LTE Band 13	10	0	25.8	24.50	0.03	0	0103M	QPSK	1	0	10 mm	front	1:1	0.263	1.349	0.355	
782.00	23230	Mid	LTE Band 13	10	0	24.8	23.68	0.08	1	0103M	QPSK	25	12	10 mm	front	1:1	0.231	1.294	0.299	
782.00	23230	Mid	LTE Band 13	10	0	25.8	24.50	-0.06	0	0103M	QPSK	1	0	10 mm	bottom	1:1	0.273	1.349	0.368	
782.00	23230	Mid	LTE Band 13	10	0	24.8	23.68	0.00	1	0103M	QPSK	25	12	10 mm	bottom	1:1	0.222	1.294	0.287	
782.00	23230	Mid	LTE Band 13	10	0	25.8	24.50	0.02	0	0103M	QPSK	1	0	10 mm	right	1:1	0.210	1.349	0.283	
782.00	23230	Mid	LTE Band 13	10	0	24.8	23.68	0.02	1	0103M	QPSK	25	12	10 mm	right	1:1	0.153	1.294	0.198	
782.00	23230	Mid	LTE Band 13	10	0	25.8	24.50	0.08	0	0103M	QPSK	1	0	10 mm	left	1:1	0.085	1.349	0.115	
782.00	23230	Mid	LTE Band 13	10	0	24.8	23.68	0.00	1	0103M	QPSK	25	12	10 mm	left	1:1	0.070	1.294	0.091	
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 11-44
LTE Band 14 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)	
793.00	23330	Mid	LTE Band 14	10	0	25.3	24.40	-0.01	0	0103M	QPSK	1	0	10 mm	back	1:1	0.406	1.230	0.499	A43
793.00	23330	Mid	LTE Band 14	10	0	24.3	23.29	0.00	1	0103M	QPSK	25	12	10 mm	back	1:1	0.318	1.262	0.401	
793.00	23330	Mid	LTE Band 14	10	0	25.3	24.40	0.04	0	0103M	QPSK	1	0	10 mm	front	1:1	0.256	1.230	0.315	
793.00	23330	Mid	LTE Band 14	10	0	24.3	23.29	0.07	1	0103M	QPSK	25	12	10 mm	front	1:1	0.200	1.262	0.252	
793.00	23330	Mid	LTE Band 14	10	0	25.3	24.40	-0.04	0	0103M	QPSK	1	0	10 mm	bottom	1:1	0.237	1.230	0.292	
793.00	23330	Mid	LTE Band 14	10	0	24.3	23.29	-0.04	1	0103M	QPSK	25	12	10 mm	bottom	1:1	0.176	1.262	0.222	
793.00	23330	Mid	LTE Band 14	10	0	25.3	24.40	-0.04	0	0103M	QPSK	1	0	10 mm	right	1:1	0.184	1.230	0.226	
793.00	23330	Mid	LTE Band 14	10	0	24.3	23.29	-0.01	1	0103M	QPSK	25	12	10 mm	right	1:1	0.123	1.262	0.155	
793.00	23330	Mid	LTE Band 14	10	0	25.3	24.40	-0.12	0	0103M	QPSK	1	0	10 mm	left	1:1	0.083	1.230	0.102	
793.00	23330	Mid	LTE Band 14	10	0	24.3	23.29	0.05	1	0103M	QPSK	25	12	10 mm	left	1:1	0.053	1.262	0.067	
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 11-45
LTE Band 26 (Cell) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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	0	25.8	25.01	0.00	0	0103M	QPSK	1	0	10 mm	back	1:1	0.462	1.199	0.554	A45
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	24.8	24.17	0.02	1	0103M	QPSK	36	0	10 mm	back	1:1	0.382	1.156	0.442	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	25.8	25.01	-0.02	0	0103M	QPSK	1	0	10 mm	front	1:1	0.354	1.199	0.424	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	24.8	24.17	0.05	1	0103M	QPSK	36	0	10 mm	front	1:1	0.299	1.156	0.346	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	25.8	25.01	-0.04	0	0103M	QPSK	1	0	10 mm	bottom	1:1	0.354	1.199	0.424	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	24.8	24.17	-0.05	1	0103M	QPSK	36	0	10 mm	bottom	1:1	0.288	1.156	0.333	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	25.8	25.01	0.00	0	0103M	QPSK	1	0	10 mm	right	1:1	0.182	1.199	0.218	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	24.8	24.17	0.04	1	0103M	QPSK	36	0	10 mm	right	1:1	0.135	1.156	0.156	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	25.8	25.01	0.08	0	0103M	QPSK	1	0	10 mm	left	1:1	0.071	1.199	0.085	
831.50	26865	Mid	LTE Band 26 (Cell)	15	0	24.8	24.17	0.07	1	0103M	QPSK	36	0	10 mm	left	1:1	0.055	1.156	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											

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Table 11-46
LTE Band 5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.80	-0.12	0	0103M	QPSK	1	0	10 mm	back	1:1	0.464	1.259	0.584	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.82	0.00	1	0103M	QPSK	25	12	10 mm	back	1:1	0.369	1.253	0.462	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	25.59	0.00	0	0103M	QPSK	1	0	10 mm	back	1:1	0.583	1.050	0.612	A47
	SCC	829.30	20453			5								1	24							
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.80	0.00	0	0103M	QPSK	1	0	10 mm	front	1:1	0.285	1.259	0.359	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.82	-0.01	1	0103M	QPSK	25	12	10 mm	front	1:1	0.229	1.253	0.287	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.80	-0.03	0	0103M	QPSK	1	0	10 mm	bottom	1:1	0.268	1.259	0.337	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.82	-0.01	1	0103M	QPSK	25	12	10 mm	bottom	1:1	0.220	1.253	0.276	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.80	0.04	0	0103M	QPSK	1	0	10 mm	right	1:1	0.143	1.259	0.180	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.82	0.04	1	0103M	QPSK	25	12	10 mm	right	1:1	0.105	1.253	0.132	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.80	0.09	0	0103M	QPSK	1	0	10 mm	left	1:1	0.052	1.259	0.065	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.82	0.11	1	0103M	QPSK	25	12	10 mm	left	1:1	0.039	1.253	0.049	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak												Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																						

Table 11-47
NR Band n5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.74	-0.06	0	0665M	DFT-s-OFDM QPSK	1	1	10 mm	back	1:1	0.574	1.276	0.732	A49
836.50	167300	Mid	NR Band n5 (Cell)	20	0	24.3	23.39	-0.06	1.5	0665M	CP-OFDM QPSK	1	1	10 mm	back	1:1	0.418	1.233	0.515	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.65	0.00	0	0665M	DFT-s-OFDM QPSK	50	26	10 mm	back	1:1	0.555	1.303	0.723	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.74	-0.01	0	0665M	DFT-s-OFDM QPSK	1	1	10 mm	front	1:1	0.347	1.276	0.443	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.65	-0.04	0	0665M	DFT-s-OFDM QPSK	50	26	10 mm	front	1:1	0.342	1.303	0.446	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.74	-0.01	0	0665M	DFT-s-OFDM QPSK	1	1	10 mm	bottom	1:1	0.288	1.276	0.367	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.65	0.00	0	0665M	DFT-s-OFDM QPSK	50	26	10 mm	bottom	1:1	0.277	1.303	0.361	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.74	-0.01	0	0665M	DFT-s-OFDM QPSK	1	1	10 mm	right	1:1	0.186	1.276	0.237	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.65	0.03	0	0665M	DFT-s-OFDM QPSK	50	26	10 mm	right	1:1	0.149	1.303	0.194	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.74	0.08	0	0665M	DFT-s-OFDM QPSK	1	1	10 mm	left	1:1	0.078	1.276	0.100	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.8	24.65	0.10	0	0665M	DFT-s-OFDM QPSK	50	26	10 mm	left	1:1	0.059	1.303	0.077	
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 11-48
LTE Band 66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	19.98	0.01	0	0096M	QPSK	1	50	10 mm	back	1:1	0.601	1.127	0.677	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	20.16	0.00	0	0096M	QPSK	50	25	10 mm	back	1:1	0.620	1.081	0.670	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	19.98	0.03	0	0096M	QPSK	1	50	10 mm	front	1:1	0.518	1.127	0.584	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	20.16	0.07	0	0096M	QPSK	50	25	10 mm	front	1:1	0.534	1.081	0.577	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	20.5	19.84	-0.03	0	0096M	QPSK	1	50	10 mm	bottom	1:1	0.955	1.164	1.112	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	19.98	-0.21	0	0096M	QPSK	1	50	10 mm	bottom	1:1	1.020	1.127	1.150	
1770.00	132572	High	LTE Band 66 (AWS)	20	23	20.5	19.97	-0.04	0	0096M	QPSK	1	0	10 mm	bottom	1:1	1.150	1.130	1.300	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	20.5	20.14	-0.05	0	0096M	QPSK	50	50	10 mm	bottom	1:1	0.982	1.086	1.066	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	20.16	-0.03	0	0096M	QPSK	50	25	10 mm	bottom	1:1	1.060	1.081	1.146	
1770.00	132572	High	LTE Band 66 (AWS)	20	23	20.5	20.11	-0.03	0	0096M	QPSK	50	25	10 mm	bottom	1:1	1.200	1.094	1.313	A51
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	19.95	0.15	0	0096M	QPSK	100	0	10 mm	bottom	1:1	1.030	1.135	1.169	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	19.98	0.02	0	0096M	QPSK	1	50	10 mm	right	1:1	0.060	1.127	0.068	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	20.16	-0.03	0	0096M	QPSK	50	25	10 mm	right	1:1	0.066	1.081	0.071	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	19.98	0.19	0	0096M	QPSK	1	50	10 mm	left	1:1	0.095	1.127	0.107	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	20.16	0.10	0	0096M	QPSK	50	25	10 mm	left	1:1	0.095	1.081	0.103	
1770.00	132572	High	LTE Band 66 (AWS)	20	23	20.5	20.11	-0.04	0	0096M	QPSK	50	25	10 mm	bottom	1:1	1.090	1.094	1.192	
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: Blue entries represent variability measurements.

Table 11-49
LTE Band 66 (AWS) Hotspot SAR during Conditions with NR Active

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.37	0.06	0	0096M	QPSK	1	50	10 mm	back	1:1	0.396	1.030	0.408	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.40	0.05	0	0096M	QPSK	50	25	10 mm	back	1:1	0.411	1.023	0.420	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.37	0.04	0	0096M	QPSK	1	50	10 mm	front	1:1	0.348	1.030	0.358	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.40	0.01	0	0096M	QPSK	50	25	10 mm	front	1:1	0.360	1.023	0.368	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.37	-0.12	0	0096M	QPSK	1	50	10 mm	bottom	1:1	0.671	1.030	0.691	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.40	-0.02	0	0096M	QPSK	50	25	10 mm	bottom	1:1	0.689	1.023	0.705	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	19.5	19.19	-0.04	0	0096M	QPSK	50	50	10 mm	bottom	1:1	0.760	1.074	0.816	
1770.00	132572	High	LTE Band 66 (AWS)	20	23	19.5	19.24	-0.04	0	0096M	QPSK	50	0	10 mm	bottom	1:1	0.873	1.062	0.927	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.30	-0.04	0	0096M	QPSK	100	0	10 mm	bottom	1:1	0.684	1.047	0.716	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.37	-0.15	0	0096M	QPSK	1	50	10 mm	right	1:1	0.055	1.030	0.057	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.40	0.05	0	0096M	QPSK	50	25	10 mm	right	1:1	0.056	1.023	0.057	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.37	0.04	0	0096M	QPSK	1	50	10 mm	left	1:1	0.056	1.030	0.058	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.40	0.08	0	0096M	QPSK	50	25	10 mm	left	1:1	0.060	1.023	0.061	
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 11-50
LTE Band 25 (PCS) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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	23	18.5	18.00	0.01	0	0096M	QPSK	1	50	10 mm	back	1:1	0.288	1.122	0.323	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	18.5	18.10	0.00	0	0096M	QPSK	50	25	10 mm	back	1:1	0.295	1.096	0.323	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	18.5	18.00	-0.03	0	0096M	QPSK	1	50	10 mm	front	1:1	0.217	1.122	0.243	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	18.5	18.10	-0.10	0	0096M	QPSK	50	25	10 mm	front	1:1	0.217	1.096	0.238	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	18.5	17.99	0.01	0	0096M	QPSK	1	0	10 mm	bottom	1:1	0.727	1.125	0.818	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23	18.5	17.96	-0.06	0	0096M	QPSK	1	0	10 mm	bottom	1:1	0.647	1.132	0.732	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	18.5	18.00	-0.04	0	0096M	QPSK	1	50	10 mm	bottom	1:1	0.750	1.122	0.842	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	18.5	18.08	0.01	0	0096M	QPSK	50	25	10 mm	bottom	1:1	0.722	1.102	0.796	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23	18.5	18.04	-0.02	0	0096M	QPSK	50	25	10 mm	bottom	1:1	0.671	1.112	0.746	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	18.5	18.10	-0.09	0	0096M	QPSK	50	25	10 mm	bottom	1:1	0.792	1.096	0.868	A53
1905.00	26590	High	LTE Band 25 (PCS)	20	23	18.5	17.98	-0.05	0	0096M	QPSK	100	0	10 mm	bottom	1:1	0.739	1.127	0.833	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	18.5	18.00	-0.10	0	0096M	QPSK	1	50	10 mm	right	1:1	0.024	1.122	0.027	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	18.5	18.10	-0.13	0	0096M	QPSK	50	25	10 mm	right	1:1	0.025	1.096	0.027	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	18.5	18.00	0.03	0	0096M	QPSK	1	50	10 mm	left	1:1	0.019	1.122	0.021	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	18.5	18.10	0.07	0	0096M	QPSK	50	25	10 mm	left	1:1	0.020	1.096	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											

Table 11-51
LTE Band 2 (PCS) Hotspot SAR and/or with NR Active

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.06	-0.04	0	0096M	QPSK	1	50	10 mm	back	1:1	0.434	1.107	0.480	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.12	-0.04	0	0096M	QPSK	50	25	10 mm	back	1:1	0.436	1.091	0.476	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.06	0.07	0	0096M	QPSK	1	50	10 mm	front	1:1	0.322	1.107	0.356	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.12	0.01	0	0096M	QPSK	50	25	10 mm	front	1:1	0.324	1.091	0.353	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22	18.5	17.83	0.06	0	0096M	QPSK	1	0	10 mm	bottom	1:1	0.709	1.167	0.827	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	22	18.5	18.05	0.00	0	0096M	QPSK	1	50	10 mm	bottom	1:1	0.653	1.109	0.724	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.06	-0.09	0	0096M	QPSK	1	50	10 mm	bottom	1:1	0.713	1.107	0.789	A55
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.12	0.03	0	0096M	QPSK	50	25	10 mm	bottom	1:1	0.690	1.091	0.753	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.04	0.05	0	0096M	QPSK	100	0	10 mm	bottom	1:1	0.663	1.112	0.737	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.06	0.10	0	0096M	QPSK	1	50	10 mm	right	1:1	0.022	1.107	0.024	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.12	0.10	0	0096M	QPSK	50	25	10 mm	right	1:1	0.021	1.091	0.023	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.06	0.14	0	0096M	QPSK	1	50	10 mm	left	1:1	0.020	1.107	0.022	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	18.5	18.12	0.11	0	0096M	QPSK	50	25	10 mm	left	1:1	0.020	1.091	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 11-52
LTE Band 30 Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
2310.00	27710	Mid	LTE Band 30	10	21.0	20.46	0.00	0	0089M	QPSK	1	0	10 mm	back	1:1	0.528	1.132	0.598	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.62	0.16	0	0089M	QPSK	25	0	10 mm	back	1:1	0.519	1.091	0.566	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.46	0.00	0	0089M	QPSK	1	0	10 mm	front	1:1	0.421	1.132	0.477	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.62	-0.03	0	0089M	QPSK	25	0	10 mm	front	1:1	0.412	1.091	0.449	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.46	-0.02	0	0089M	QPSK	1	0	10 mm	bottom	1:1	1.140	1.132	1.290	A57
2310.00	27710	Mid	LTE Band 30	10	21.0	20.62	-0.06	0	0089M	QPSK	25	0	10 mm	bottom	1:1	1.080	1.091	1.178	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.41	-0.05	0	0089M	QPSK	50	0	10 mm	bottom	1:1	1.080	1.146	1.238	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.46	0.10	0	0089M	QPSK	1	0	10 mm	right	1:1	0.028	1.132	0.032	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.62	0.12	0	0089M	QPSK	25	0	10 mm	right	1:1	0.029	1.091	0.032	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.46	0.04	0	0089M	QPSK	1	0	10 mm	left	1:1	0.068	1.132	0.077	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.62	-0.03	0	0089M	QPSK	25	0	10 mm	left	1:1	0.066	1.091	0.072	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.46	-0.03	0	0089M	QPSK	1	0	10 mm	bottom	1:1	1.080	1.132	1.223	
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: Blue entries represent variability measurements.

Table 11-53
LTE Band 30 Hotspot SAR during Conditions with NR Active

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
2310.00	27710	Mid	LTE Band 30	10	20.5	19.74	-0.04	0	0089M	QPSK	1	0	10 mm	back	1:1	0.469	1.191	0.559	
2310.00	27710	Mid	LTE Band 30	10	20.5	19.71	0.00	0	0089M	QPSK	25	0	10 mm	back	1:1	0.462	1.199	0.554	
2310.00	27710	Mid	LTE Band 30	10	20.5	19.74	-0.04	0	0089M	QPSK	1	0	10 mm	front	1:1	0.363	1.191	0.432	
2310.00	27710	Mid	LTE Band 30	10	20.5	19.71	-0.02	0	0089M	QPSK	25	0	10 mm	front	1:1	0.354	1.199	0.424	
2310.00	27710	Mid	LTE Band 30	10	20.5	19.74	-0.01	0	0089M	QPSK	1	0	10 mm	bottom	1:1	0.962	1.191	1.146	
2310.00	27710	Mid	LTE Band 30	10	20.5	19.71	-0.02	0	0089M	QPSK	25	0	10 mm	bottom	1:1	0.965	1.199	1.157	
2310.00	27710	Mid	LTE Band 30	10	20.5	19.62	-0.02	0	0089M	QPSK	50	0	10 mm	bottom	1:1	0.960	1.225	1.176	
2310.00	27710	Mid	LTE Band 30	10	20.5	19.74	0.02	0	0089M	QPSK	1	0	10 mm	right	1:1	0.022	1.191	0.026	
2310.00	27710	Mid	LTE Band 30	10	20.5	19.71	0.18	0	0089M	QPSK	25	0	10 mm	right	1:1	0.023	1.199	0.028	
2310.00	27710	Mid	LTE Band 30	10	20.5	19.74	0.06	0	0089M	QPSK	1	0	10 mm	left	1:1	0.058	1.191	0.069	
2310.00	27710	Mid	LTE Band 30	10	20.5	19.71	0.07	0	0089M	QPSK	25	0	10 mm	left	1:1	0.059	1.199	0.071	
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 11-54
LTE Band 7 Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)			
2510.00	20850	Low	LTE Band 7	20	21.5	20.70	0.05	0	0089M	QPSK	1	0	10 mm	back	1:1	0.479	1.202	0.576	
2510.00	20850	Low	LTE Band 7	20	21.5	20.90	0.01	0	0089M	QPSK	50	0	10 mm	back	1:1	0.498	1.148	0.572	
2510.00	20850	Low	LTE Band 7	20	21.5	20.70	-0.05	0	0089M	QPSK	1	0	10 mm	front	1:1	0.380	1.202	0.457	
2510.00	20850	Low	LTE Band 7	20	21.5	20.90	0.01	0	0089M	QPSK	50	0	10 mm	front	1:1	0.405	1.148	0.465	
2510.00	20850	Low	LTE Band 7	20	21.5	20.70	-0.09	0	0089M	QPSK	1	0	10 mm	bottom	1:1	0.741	1.202	0.891	
2535.00	21100	Mid	LTE Band 7	20	21.5	20.56	0.18	0	0089M	QPSK	1	0	10 mm	bottom	1:1	0.758	1.242	0.941	
2560.00	21350	High	LTE Band 7	20	21.5	20.32	0.16	0	0089M	QPSK	1	0	10 mm	bottom	1:1	0.764	1.312	1.002	
2510.00	20850	Low	LTE Band 7	20	21.5	20.90	0.15	0	0089M	QPSK	50	0	10 mm	bottom	1:1	0.779	1.148	0.894	
2535.00	21100	Mid	LTE Band 7	20	21.5	20.57	0.11	0	0089M	QPSK	50	0	10 mm	bottom	1:1	0.772	1.239	0.957	
2560.00	21350	High	LTE Band 7	20	21.5	20.36	0.10	0	0089M	QPSK	50	0	10 mm	bottom	1:1	0.789	1.300	1.026	A59
2510.00	20850	Low	LTE Band 7	20	21.5	20.68	0.12	0	0089M	QPSK	100	0	10 mm	bottom	1:1	0.761	1.208	0.919	
2510.00	20850	Low	LTE Band 7	20	21.5	20.70	0.13	0	0089M	QPSK	1	0	10 mm	right	1:1	0.071	1.202	0.085	
2510.00	20850	Low	LTE Band 7	20	21.5	20.90	-0.19	0	0089M	QPSK	50	0	10 mm	right	1:1	0.069	1.148	0.079	
2510.00	20850	Low	LTE Band 7	20	21.5	20.70	0.21	0	0089M	QPSK	1	0	10 mm	left	1:1	0.154	1.202	0.185	
2510.00	20850	Low	LTE Band 7	20	21.5	20.90	-0.01	0	0089M	QPSK	50	0	10 mm	left	1:1	0.157	1.148	0.180	
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 11-55
LTE Band 48 Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.33	-0.12	0	0073M	QPSK	1	0	10 mm	back	1:1.58	0.216	1.167	0.252	
3646.70	56207	Mid-High	LTE Band 48	20	22.0	21.31	0.09	1	0073M	QPSK	50	0	10 mm	back	1:1.58	0.166	1.172	0.195	
3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.33	0.06	0	0073M	QPSK	1	0	10 mm	front	1:1.58	0.184	1.167	0.215	
3646.70	56207	Mid-High	LTE Band 48	20	22.0	21.31	0.05	1	0073M	QPSK	50	0	10 mm	front	1:1.58	0.142	1.172	0.166	
3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.33	0.00	0	0073M	QPSK	1	0	10 mm	bottom	1:1.58	0.468	1.167	0.546	A61
3646.70	56207	Mid-High	LTE Band 48	20	22.0	21.31	0.04	1	0073M	QPSK	50	0	10 mm	bottom	1:1.58	0.368	1.172	0.431	
3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.33	0.05	0	0073M	QPSK	1	0	10 mm	right	1:1.58	0.063	1.167	0.074	
3646.70	56207	Mid-High	LTE Band 48	20	22.0	21.31	0.21	1	0073M	QPSK	50	0	10 mm	right	1:1.58	0.049	1.172	0.057	
3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.33	0.03	0	0073M	QPSK	1	0	10 mm	left	1:1.58	0.125	1.167	0.146	
3646.70	56207	Mid-High	LTE Band 48	20	22.0	21.31	0.13	1	0073M	QPSK	50	0	10 mm	left	1:1.58	0.098	1.172	0.115	
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 11-56
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]	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	2506.00	39750	Low	LTE Band 41	20	22.5	22.06	0.03	0	0089M	QPSK	1	0	10 mm	back	1:1.58	0.346	1.107	0.383	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	22.5	22.11	-0.05	0	0089M	QPSK	50	25	10 mm	back	1:1.58	0.353	1.094	0.386	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	22.5	22.06	0.03	0	0089M	QPSK	1	0	10 mm	front	1:1.58	0.239	1.107	0.265	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	22.5	22.11	-0.02	0	0089M	QPSK	50	25	10 mm	front	1:1.58	0.252	1.094	0.276	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	22.5	22.06	-0.02	0	0089M	QPSK	1	0	10 mm	bottom	1:1.58	0.597	1.107	0.661	
Power Class 3	2549.50	40185	Low-Mid	LTE Band 41	20	22.5	21.82	-0.04	0	0089M	QPSK	1	0	10 mm	bottom	1:1.58	0.694	1.169	0.811	
Power Class 3	2593.00	40620	Mid	LTE Band 41	20	22.5	21.91	-0.12	0	0089M	QPSK	1	50	10 mm	bottom	1:1.58	0.435	1.146	0.499	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	22.5	21.91	-0.10	0	0089M	QPSK	1	50	10 mm	bottom	1:1.58	0.364	1.146	0.417	
Power Class 3	2680.00	41490	High	LTE Band 41	20	22.5	21.71	-0.02	0	0089M	QPSK	1	50	10 mm	bottom	1:1.58	0.344	1.199	0.412	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	22.5	22.11	-0.02	0	0089M	QPSK	50	25	10 mm	bottom	1:1.58	0.631	1.094	0.690	
Power Class 3	2549.50	40185	Low-Mid	LTE Band 41	20	22.5	21.89	-0.11	0	0089M	QPSK	50	25	10 mm	bottom	1:1.58	0.717	1.151	0.825	A63
Power Class 3	2593.00	40620	Mid	LTE Band 41	20	22.5	21.80	-0.04	0	0089M	QPSK	50	25	10 mm	bottom	1:1.58	0.440	1.175	0.517	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	22.5	21.82	-0.07	0	0089M	QPSK	50	0	10 mm	bottom	1:1.58	0.378	1.169	0.442	
Power Class 3	2680.00	41490	High	LTE Band 41	20	22.5	21.68	-0.08	0	0089M	QPSK	50	25	10 mm	bottom	1:1.58	0.340	1.208	0.411	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	22.5	21.98	-0.12	0	0089M	QPSK	100	0	10 mm	bottom	1:1.58	0.635	1.127	0.716	
Power Class 2	2549.50	40185	Low-Mid	LTE Band 41	20	22.5	21.55	-0.09	0	0089M	QPSK	50	25	10 mm	bottom	1:2.31	0.475	1.245	0.591	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	22.5	22.06	0.06	0	0089M	QPSK	1	0	10 mm	right	1:1.58	0.049	1.107	0.054	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	22.5	22.11	0.07	0	0089M	QPSK	50	25	10 mm	right	1:1.58	0.049	1.094	0.054	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	22.5	22.06	-0.06	0	0089M	QPSK	1	0	10 mm	left	1:1.58	0.129	1.107	0.143	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	22.5	22.11	-0.17	0	0089M	QPSK	50	25	10 mm	left	1:1.58	0.122	1.094	0.133	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																				
Spatial Peak										Body										
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g)										
										averaged over 1 gram										

Table 11-57
WLAN 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	20.5	20.48	-0.01	10 mm	1	0585M	1	back	98.9	0.477	0.283	1.005	1.011	0.288		
2412	1	802.11b	DSSS	22	20.5	20.48	0.16	10 mm	1	0585M	1	front	98.9	0.199	-	1.005	1.011	-		
2412	1	802.11b	DSSS	22	20.5	20.48	0.20	10 mm	1	0585M	1	top	98.9	0.584	0.341	1.005	1.011	0.346	A65	
2412	1	802.11b	DSSS	22	20.5	20.48	0.15	10 mm	1	0585M	1	left	98.9	0.248	-	1.005	1.011	-		
2412	1	802.11b	DSSS	22	20.5	20.48	0.11	10 mm	2	0585M	1	back	98.9	0.095	0.080	1.005	1.011	0.081		
2412	1	802.11b	DSSS	22	20.5	20.48	0.19	10 mm	2	0585M	1	front	98.9	0.014	-	1.005	1.011	-		
2412	1	802.11b	DSSS	22	20.5	20.48	0.15	10 mm	2	0585M	1	top	98.9	0.034	-	1.005	1.011	-		
2412	1	802.11b	DSSS	22	20.5	20.48	0.12	10 mm	2	0585M	1	left	98.9	0.042	-	1.005	1.011	-		
5785	157	802.11a	OFDM	20	18.0	17.91	-0.06	10 mm	1	0585M	6	back	98.8	0.701	0.330	1.021	1.012	0.341		
5785	157	802.11a	OFDM	20	18.0	17.91	0.13	10 mm	1	0585M	6	front	98.8	0.173	-	1.021	1.012	-		
5785	157	802.11a	OFDM	20	18.0	17.91	0.05	10 mm	1	0585M	6	top	98.8	0.520	-	1.021	1.012	-		
5785	157	802.11a	OFDM	20	18.0	17.91	-0.15	10 mm	1	0585M	6	left	98.8	0.501	-	1.021	1.012	-		
5785	157	802.11a	OFDM	20	18.0	17.95	0.18	10 mm	2	0585M	6	back	98.8	0.183	0.083	1.012	1.012	0.085		
5785	157	802.11a	OFDM	20	18.0	17.95	0.19	10 mm	2	0585M	6	front	98.8	0.014	-	1.012	1.012	-		
5785	157	802.11a	OFDM	20	18.0	17.95	0.10	10 mm	2	0585M	6	top	98.8	0.098	-	1.012	1.012	-		
5785	157	802.11a	OFDM	20	18.0	17.95	0.16	10 mm	2	0585M	6	left	98.8	0.125	-	1.012	1.012	-		
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 11-58
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 (lg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (lg)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2462	11	802.11n	OFDM	20	18.0	17.76	18.0	17.71	-0.07	10 mm	MIMO	0585M	13	back	98.4	0.182	-	1.069	1.016	-	
2462	11	802.11n	OFDM	20	18.0	17.76	18.0	17.71	0.05	10 mm	MIMO	0585M	13	front	98.4	0.107	-	1.069	1.016	-	
2462	11	802.11n	OFDM	20	18.0	17.76	18.0	17.71	-0.15	10 mm	MIMO	0585M	13	top	98.4	0.244	0.131	1.069	1.016	0.142	
2462	11	802.11n	OFDM	20	18.0	17.76	18.0	17.71	0.11	10 mm	MIMO	0585M	13	left	98.4	0.125	-	1.069	1.016	-	
5825	165	802.11n	OFDM	20	18.0	17.88	18.0	17.92	0.12	10 mm	MIMO	0585M	13	back	99.7	1.094	0.554	1.028	1.003	0.571	A67
5825	165	802.11n	OFDM	20	18.0	17.88	18.0	17.92	0.15	10 mm	MIMO	0585M	13	front	99.7	0.205	-	1.028	1.003	-	
5825	165	802.11n	OFDM	20	18.0	17.88	18.0	17.92	-0.01	10 mm	MIMO	0585M	13	top	99.7	0.713	0.335	1.028	1.003	0.345	
5825	165	802.11n	OFDM	20	18.0	17.88	18.0	17.92	0.19	10 mm	MIMO	0585M	13	left	99.7	0.510	-	1.028	1.003	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak										Body											
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) 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 11-59
WLAN Hotspot SAR for Conditions with 2.4 GHz and 5 GHz WLAN SAR and/or with 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)	
2412	1	802.11n	OFDM	20	17.0	16.94	17.0	16.97	0.08	10 mm	MIMO	0585M	13	back	98.4	0.133	-	1.014	1.016	-	
2412	1	802.11n	OFDM	20	17.0	16.94	17.0	16.97	-0.19	10 mm	MIMO	0585M	13	front	98.4	0.085	-	1.014	1.016	-	
2412	1	802.11n	OFDM	20	17.0	16.94	17.0	16.97	-0.15	10 mm	MIMO	0585M	13	top	98.4	0.173	0.094	1.014	1.016	0.097	
2412	1	802.11n	OFDM	20	17.0	16.94	17.0	16.97	-0.12	10 mm	MIMO	0585M	13	left	98.4	0.073	-	1.014	1.016	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	14.0	13.89	0.02	10 mm	MIMO	0585M	58.5	back	90.1	0.311	0.140	1.059	1.110	0.165	
5775	155	802.11ac	OFDM	80	14.0	13.75	14.0	13.89	0.19	10 mm	MIMO	0585M	58.5	front	90.1	0.065	-	1.059	1.110	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	14.0	13.89	0.14	10 mm	MIMO	0585M	58.5	top	90.1	0.193	-	1.059	1.110	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	14.0	13.89	0.15	10 mm	MIMO	0585M	58.5	left	90.1	0.183	-	1.059	1.110	-	
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: NII MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations.

Table 11-60
WLAN Hotspot SAR for Conditions with 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 (lg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (lg)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5775	155	802.11ac	OFDM	80	14.0	13.75	0.16	10 mm	1	0585M	29.3	back	94.9	0.265	0.119	1.059	1.054	0.133	
5775	155	802.11ac	OFDM	80	14.0	13.75	0.19	10 mm	1	0585M	29.3	front	94.9	0.071	-	1.059	1.054	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	0.14	10 mm	1	0585M	29.3	top	94.9	0.173	-	1.059	1.054	-	
5775	155	802.11ac	OFDM	80	14.0	13.75	0.13	10 mm	1	0585M	29.3	left	94.9	0.223	-	1.059	1.054	-	
5775	155	802.11ac	OFDM	80	14.0	13.89	0.13	10 mm	2	0585M	29.3	back	94.7	0.073	0.028	1.026	1.056	0.030	
5775	155	802.11ac	OFDM	80	14.0	13.89	-0.14	10 mm	2	0585M	29.3	front	94.7	0.009	-	1.026	1.056	-	
5775	155	802.11ac	OFDM	80	14.0	13.89	0.16	10 mm	2	0585M	29.3	top	94.7	0.046	-	1.026	1.056	-	
5775	155	802.11ac	OFDM	80	14.0	13.89	-0.15	10 mm	2	0585M	29.3	left	94.7	0.063	-	1.026	1.056	-	
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 11-61
DSS Hotspot SAR**

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	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)	
2480	78	Bluetooth	FHSS	14.5	13.99	0.00	10 mm	0600M	1	back	76.8	0.042	1.125	1.302	0.062	
2480	78	Bluetooth	FHSS	14.5	13.99	0.06	10 mm	0600M	1	front	76.8	0.018	1.125	1.302	0.026	
2480	78	Bluetooth	FHSS	14.5	13.99	0.05	10 mm	0600M	1	top	76.8	0.047	1.125	1.302	0.069	A69
2480	78	Bluetooth	FHSS	14.5	13.99	0.18	10 mm	0600M	1	left	76.8	0.024	1.125	1.302	0.035	
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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11.4 Standalone Phablet SAR Data

Table 11-62
GPRS/UMTS Phablet SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Ant State	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1850.20	512	GSM 1900	GPRS	26.0	25.11	-0.16	0 mm	N/A	0099M	3	1:2.76	bottom	2.660	1.227	3.264	A70
1880.00	661	GSM 1900	GPRS	26.0	25.55	0.18	0 mm	N/A	0099M	3	1:2.76	bottom	2.560	1.109	2.839	
1909.80	810	GSM 1900	GPRS	26.0	25.37	0.13	0 mm	N/A	0099M	3	1:2.76	bottom	2.430	1.156	2.809	
1850.20	512	GSM 1900	GPRS	26.0	25.11	0.19	0 mm	N/A	0099M	3	1:2.76	bottom	2.600	1.227	3.190	
1732.40	1412	UMTS 1750	RMC	25.0	24.39	0.01	8 mm	23	0099M	N/A	1:1	back	1.040	1.151	1.197	
1732.40	1412	UMTS 1750	RMC	25.0	24.39	-0.01	6 mm	23	0099M	N/A	1:1	front	1.190	1.151	1.370	
1732.40	1412	UMTS 1750	RMC	25.0	24.39	0.02	11 mm	23	0099M	N/A	1:1	bottom	1.120	1.151	1.289	
1732.40	1412	UMTS 1750	RMC	25.0	24.39	0.02	0 mm	23	0099M	N/A	1:1	right	0.305	1.151	0.351	
1732.40	1412	UMTS 1750	RMC	25.0	24.39	0.00	0 mm	23	0099M	N/A	1:1	left	0.466	1.151	0.536	
1732.40	1412	UMTS 1750	RMC	20.0	19.34	-0.02	0 mm	23	0099M	N/A	1:1	back	1.300	1.164	1.513	
1732.40	1412	UMTS 1750	RMC	20.0	19.34	-0.08	0 mm	23	0099M	N/A	1:1	front	1.330	1.164	1.548	
1712.40	1312	UMTS 1750	RMC	20.0	19.44	-0.01	0 mm	23	0099M	N/A	1:1	bottom	1.760	1.138	2.003	
1732.40	1412	UMTS 1750	RMC	20.0	19.34	-0.01	0 mm	23	0099M	N/A	1:1	bottom	1.760	1.164	2.049	
1752.60	1513	UMTS 1750	RMC	20.0	19.41	0.03	0 mm	23	0099M	N/A	1:1	bottom	1.770	1.146	2.028	A71
1880.00	9400	UMTS 1900	RMC	25.0	24.50	0.02	8 mm	0	0099M	N/A	1:1	back	1.180	1.122	1.324	
1880.00	9400	UMTS 1900	RMC	25.0	24.50	0.01	6 mm	0	0099M	N/A	1:1	front	1.380	1.122	1.548	
1880.00	9400	UMTS 1900	RMC	25.0	24.50	-0.09	11 mm	0	0099M	N/A	1:1	bottom	1.650	1.122	1.851	
1880.00	9400	UMTS 1900	RMC	25.0	24.50	0.06	0 mm	0	0099M	N/A	1:1	right	0.382	1.122	0.429	
1880.00	9400	UMTS 1900	RMC	25.0	24.50	-0.03	0 mm	0	0099M	N/A	1:1	left	0.689	1.122	0.773	
1880.00	9400	UMTS 1900	RMC	20.5	20.47	0.02	0 mm	0	0099M	N/A	1:1	back	1.940	1.007	1.954	
1880.00	9400	UMTS 1900	RMC	20.5	20.47	-0.04	0 mm	0	0099M	N/A	1:1	front	1.740	1.007	1.752	
1852.40	9262	UMTS 1900	RMC	20.5	20.33	-0.07	0 mm	0	0099M	N/A	1:1	bottom	1.810	1.040	1.882	
1880.00	9400	UMTS 1900	RMC	20.5	20.47	-0.07	0 mm	0	0099M	N/A	1:1	bottom	2.040	1.007	2.054	A72
1907.60	9538	UMTS 1900	RMC	20.5	20.38	-0.07	0 mm	0	0099M	N/A	1:1	bottom	1.940	1.028	1.994	
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: Blue entries represent variability measurements.

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Table 11-63
LTE Band 66 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	25.0	24.58	-0.05	0	0096M	QPSK	1	0	8 mm	back	1:1	1.100	1.102	1.212	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.81	-0.20	1	0096M	QPSK	50	25	8 mm	back	1:1	0.911	1.045	0.952	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	25.0	24.58	-0.08	0	0096M	QPSK	1	0	6 mm	front	1:1	1.320	1.102	1.455	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.81	-0.02	1	0096M	QPSK	50	25	6 mm	front	1:1	1.090	1.045	1.139	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	25.0	24.58	-0.02	0	0096M	QPSK	1	0	11 mm	bottom	1:1	1.280	1.102	1.411	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.81	0.02	1	0096M	QPSK	50	25	11 mm	bottom	1:1	1.050	1.045	1.097	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	25.0	24.58	0.00	0	0096M	QPSK	1	0	0 mm	right	1:1	0.312	1.102	0.344	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.81	0.02	1	0096M	QPSK	50	25	0 mm	right	1:1	0.255	1.045	0.266	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	25.0	24.58	0.01	0	0096M	QPSK	1	0	0 mm	left	1:1	0.537	1.102	0.592	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	24.0	23.81	0.00	1	0096M	QPSK	50	25	0 mm	left	1:1	0.442	1.045	0.462	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	19.98	-0.01	0	0096M	QPSK	1	50	0 mm	back	1:1	1.770	1.127	1.995	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	20.16	0.01	0	0096M	QPSK	50	25	0 mm	back	1:1	1.840	1.081	1.989	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	19.98	-0.09	0	0096M	QPSK	1	50	0 mm	front	1:1	1.690	1.127	1.905	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	20.16	-0.07	0	0096M	QPSK	50	25	0 mm	front	1:1	1.760	1.081	1.903	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	20.5	19.84	0.02	0	0096M	QPSK	1	50	0 mm	bottom	1:1	2.810	1.164	3.271	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	19.98	0.02	0	0096M	QPSK	1	50	0 mm	bottom	1:1	2.400	1.127	2.705	
1770.00	132572	High	LTE Band 66 (AWS)	20	23	20.5	19.97	-0.08	0	0096M	QPSK	1	0	0 mm	bottom	1:1	2.900	1.130	3.277	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	20.5	20.14	0.12	0	0096M	QPSK	50	50	0 mm	bottom	1:1	2.920	1.086	3.171	A73
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	20.16	-0.04	0	0096M	QPSK	50	25	0 mm	bottom	1:1	2.530	1.081	2.735	
1770.00	132572	High	LTE Band 66 (AWS)	20	23	20.5	20.11	-0.04	0	0096M	QPSK	50	25	0 mm	bottom	1:1	2.890	1.094	3.162	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	20.5	19.95	-0.04	0	0096M	QPSK	100	0	0 mm	bottom	1:1	2.500	1.135	2.838	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	20.5	20.14	0.15	0	0096M	QPSK	50	50	0 mm	bottom	1:1	2.840	1.086	3.084	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Phablet											
Spatial Peak									4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 10 grams											

Note: Blue entries represent variability measurements.

Table 11-64
LTE Band 66 Reduced Phablet SAR during Conditions with NR Active

MEASUREMENT RESULTS																			
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.37	0.08	0	QPSK	1	50	0 mm	back	1:1	1.270	1.030	1.308	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.40	0.08	0	QPSK	50	25	0 mm	back	1:1	1.310	1.023	1.340	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.37	0.05	0	QPSK	1	50	0 mm	front	1:1	1.350	1.030	1.391	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.40	0.06	0	QPSK	50	25	0 mm	front	1:1	1.390	1.023	1.422	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.37	-0.08	0	QPSK	1	50	0 mm	bottom	1:1	1.850	1.030	1.906	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23	19.5	19.40	-0.04	0	QPSK	50	25	0 mm	bottom	1:1	1.940	1.023	1.985	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23	19.5	19.19	-0.06	0	QPSK	50	50	0 mm	bottom	1:1	1.570	1.074	1.686	
1770.00	132572	High	LTE Band 66 (AWS)	20	23	19.5	19.24	-0.07	0	QPSK	50	0	0 mm	bottom	1:1	1.800	1.062	1.912	
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 11-65
LTE Band 25 (PCS) Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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	23	25.0	24.06	0.02	0	0096M	QPSK	1	0	8 mm	back	1:1	0.952	1.242	1.182	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	24.0	23.26	-0.01	1	0096M	QPSK	50	25	8 mm	back	1:1	0.714	1.186	0.847	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	25.0	24.06	0.03	0	0096M	QPSK	1	0	6 mm	front	1:1	0.984	1.242	1.222	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	24.0	23.26	0.02	1	0096M	QPSK	50	25	6 mm	front	1:1	0.727	1.186	0.862	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	25.0	24.06	-0.06	0	0096M	QPSK	1	0	11 mm	bottom	1:1	1.210	1.242	1.503	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	24.0	23.26	-0.02	1	0096M	QPSK	50	25	11 mm	bottom	1:1	0.932	1.186	1.105	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	25.0	24.06	0.14	0	0096M	QPSK	1	0	0 mm	right	1:1	0.187	1.242	0.232	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	24.0	23.26	0.12	1	0096M	QPSK	50	25	0 mm	right	1:1	0.135	1.186	0.160	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	25.0	24.06	-0.15	0	0096M	QPSK	1	0	0 mm	left	1:1	0.278	1.242	0.345	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	24.0	23.26	-0.12	1	0096M	QPSK	50	25	0 mm	left	1:1	0.189	1.186	0.224	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	21.0	20.83	-0.05	0	0096M	QPSK	1	0	0 mm	back	1:1	1.800	1.040	1.872	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23	21.0	20.81	0.18	0	0096M	QPSK	1	99	0 mm	back	1:1	1.330	1.045	1.390	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	21.0	20.69	0.10	0	0096M	QPSK	1	99	0 mm	back	1:1	1.770	1.074	1.901	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	21.0	20.94	-0.04	0	0096M	QPSK	50	25	0 mm	back	1:1	1.820	1.014	1.845	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	21.0	20.82	-0.04	0	0096M	QPSK	100	0	0 mm	back	1:1	1.790	1.042	1.865	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	21.0	20.83	-0.07	0	0096M	QPSK	1	0	0 mm	front	1:1	1.660	1.040	1.726	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	21.0	20.94	-0.08	0	0096M	QPSK	50	25	0 mm	front	1:1	1.640	1.014	1.663	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	21.0	20.83	-0.11	0	0096M	QPSK	1	0	0 mm	bottom	1:1	2.460	1.040	2.558	A74
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23	21.0	20.81	-0.11	0	0096M	QPSK	1	99	0 mm	bottom	1:1	2.140	1.045	2.236	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	21.0	20.69	-0.12	0	0096M	QPSK	1	99	0 mm	bottom	1:1	1.880	1.074	2.019	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	21.0	20.94	-0.11	0	0096M	QPSK	50	25	0 mm	bottom	1:1	2.390	1.014	2.423	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23	21.0	20.92	-0.15	0	0096M	QPSK	50	50	0 mm	bottom	1:1	2.200	1.019	2.242	
1905.00	26590	High	LTE Band 25 (PCS)	20	23	21.0	20.86	-0.10	0	0096M	QPSK	50	25	0 mm	bottom	1:1	1.940	1.033	2.004	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23	21.0	20.82	-0.12	0	0096M	QPSK	100	0	0 mm	bottom	1:1	2.400	1.042	2.501	
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 11-66
LTE Band 2 (PCS) Phablet SAR and/or with NR Active

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Ant State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	25.0	24.19	-0.02	0	0096M	QPSK	1	0	8 mm	back	1:1	0.868	1.205	1.046	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	24.0	23.20	-0.05	1	0096M	QPSK	50	25	8 mm	back	1:1	0.766	1.202	0.921	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	25.0	24.19	0.12	0	0096M	QPSK	1	0	6 mm	front	1:1	1.090	1.205	1.313	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	24.0	23.20	0.15	1	0096M	QPSK	50	25	6 mm	front	1:1	0.895	1.202	1.076	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	25.0	24.19	-0.09	0	0096M	QPSK	1	0	11 mm	bottom	1:1	1.160	1.205	1.398	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	24.0	23.20	-0.05	1	0096M	QPSK	50	25	11 mm	bottom	1:1	0.986	1.202	1.185	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	25.0	24.19	-0.11	0	0096M	QPSK	1	0	0 mm	right	1:1	0.154	1.205	0.186	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	24.0	23.20	0.18	1	0096M	QPSK	50	25	0 mm	right	1:1	0.137	1.202	0.165	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	25.0	24.19	-0.14	0	0096M	QPSK	1	0	0 mm	left	1:1	0.211	1.205	0.254	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	24.0	23.20	-0.16	1	0096M	QPSK	50	25	0 mm	left	1:1	0.155	1.202	0.186	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22	21.0	20.86	0.03	0	0096M	QPSK	1	0	0 mm	back	1:1	1.590	1.033	1.642	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22	21.0	20.88	0.01	0	0096M	QPSK	50	25	0 mm	back	1:1	1.650	1.028	1.696	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22	21.0	20.86	0.00	0	0096M	QPSK	1	0	0 mm	front	1:1	1.430	1.033	1.477	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22	21.0	20.88	0.01	0	0096M	QPSK	50	25	0 mm	front	1:1	1.490	1.028	1.532	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22	21.0	20.86	-0.14	0	0096M	QPSK	1	0	0 mm	bottom	1:1	2.170	1.033	2.242	
1880.00	18900	Md	LTE Band 2 (PCS)	20	22	21.0	20.70	-0.15	0	0096M	QPSK	1	99	0 mm	bottom	1:1	2.280	1.072	2.444	
1900.00	19100	High	LTE Band 2 (PCS)	20	22	21.0	20.73	-0.13	0	0096M	QPSK	1	0	0 mm	bottom	1:1	1.950	1.064	2.075	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22	21.0	20.88	-0.15	0	0096M	QPSK	50	25	0 mm	bottom	1:1	2.340	1.028	2.406	
1880.00	18900	Md	LTE Band 2 (PCS)	20	22	21.0	20.81	-0.18	0	0096M	QPSK	50	50	0 mm	bottom	1:1	2.370	1.045	2.477	A75
1900.00	19100	High	LTE Band 2 (PCS)	20	22	21.0	20.85	-0.13	0	0096M	QPSK	50	25	0 mm	bottom	1:1	2.020	1.035	2.091	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22	21.0	20.85	-0.16	0	0096M	QPSK	100	0	0 mm	bottom	1:1	2.300	1.035	2.381	
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 11-67
LTE Band 30 Phablet SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
2310.00	27710	Mid	LTE Band 30	10	24.0	23.33	0.01	0	0089M	QPSK	1	25	8 mm	back	1:1	0.642	1.167	0.749	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.44	-0.03	1	0089M	QPSK	25	12	8 mm	back	1:1	0.516	1.138	0.587	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.33	0.01	0	0089M	QPSK	1	25	6 mm	front	1:1	0.708	1.167	0.826	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.44	-0.02	1	0089M	QPSK	25	12	6 mm	front	1:1	0.569	1.138	0.648	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.33	0.02	0	0089M	QPSK	1	25	11 mm	bottom	1:1	0.832	1.167	0.971	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.44	-0.03	1	0089M	QPSK	25	12	11 mm	bottom	1:1	0.651	1.138	0.741	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.33	0.04	0	0089M	QPSK	1	25	0 mm	right	1:1	0.149	1.167	0.174	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.44	0.09	1	0089M	QPSK	25	12	0 mm	right	1:1	0.120	1.138	0.137	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.33	-0.01	0	0089M	QPSK	1	25	0 mm	left	1:1	0.374	1.167	0.436	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.44	-0.01	1	0089M	QPSK	25	12	0 mm	left	1:1	0.292	1.138	0.332	
2310.00	27710	Mid	LTE Band 30	10	23.0	23.00	0.00	0	0089M	QPSK	1	49	0 mm	back	1:1	1.950	1.000	1.950	
2310.00	27710	Mid	LTE Band 30	10	23.0	23.00	0.01	0	0089M	QPSK	25	12	0 mm	back	1:1	1.980	1.000	1.980	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.99	0.12	0	0089M	QPSK	50	0	0 mm	back	1:1	1.960	1.002	1.964	
2310.00	27710	Mid	LTE Band 30	10	23.0	23.00	0.00	0	0089M	QPSK	1	49	0 mm	front	1:1	1.520	1.000	1.520	
2310.00	27710	Mid	LTE Band 30	10	23.0	23.00	0.03	0	0089M	QPSK	25	12	0 mm	front	1:1	1.550	1.000	1.550	
2310.00	27710	Mid	LTE Band 30	10	23.0	23.00	0.04	0	0089M	QPSK	1	49	0 mm	bottom	1:1	2.250	1.000	2.250	
2310.00	27710	Mid	LTE Band 30	10	23.0	23.00	0.04	0	0089M	QPSK	25	12	0 mm	bottom	1:1	2.340	1.000	2.340	A76
2310.00	27710	Mid	LTE Band 30	10	23.0	22.99	-0.10	0	0089M	QPSK	50	0	0 mm	bottom	1:1	2.180	1.002	2.184	
2310.00	27710	Mid	LTE Band 30	10	23.0	23.00	0.04	0	0089M	QPSK	25	12	0 mm	bottom	1:1	2.330	1.000	2.330	
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: Blue entries represent variability measurements.

Table 11-68
LTE Band 30 Reduced Phablet SAR during Conditions with NR Active

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
2310.00	27710	Mid	LTE Band 30	10	21.5	21.01	-0.20	0	0089M	QPSK	1	0	0 mm	back	1:1	1.530	1.119	1.712	
2310.00	27710	Mid	LTE Band 30	10	21.5	21.02	-0.13	0	0089M	QPSK	25	0	0 mm	back	1:1	1.530	1.117	1.709	
2310.00	27710	Mid	LTE Band 30	10	21.5	21.01	-0.08	0	0089M	QPSK	1	0	0 mm	front	1:1	1.270	1.119	1.421	
2310.00	27710	Mid	LTE Band 30	10	21.5	21.02	-0.08	0	0089M	QPSK	25	0	0 mm	front	1:1	1.280	1.117	1.430	
2310.00	27710	Mid	LTE Band 30	10	21.5	21.01	-0.19	0	0089M	QPSK	1	0	0 mm	bottom	1:1	1.940	1.119	2.171	
2310.00	27710	Mid	LTE Band 30	10	21.5	21.02	-0.16	0	0089M	QPSK	25	0	0 mm	bottom	1:1	1.950	1.117	2.178	
2310.00	27710	Mid	LTE Band 30	10	21.5	21.00	-0.19	0	0089M	QPSK	50	0	0 mm	bottom	1:1	1.950	1.122	2.188	
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 11-69
LTE Band 7 Phablet SAR

MEASUREMENT RESULTS																			
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)			
2510.00	20850	Low	LTE Band 7	20	24.0	23.67	-0.12	0	0089M	QPSK	1	0	8 mm	back	1:1	0.453	1.079	0.489	
2510.00	20850	Low	LTE Band 7	20	23.0	22.76	0.05	1	0089M	QPSK	50	0	8 mm	back	1:1	0.396	1.057	0.419	
2510.00	20850	Low	LTE Band 7	20	24.0	23.67	-0.12	0	0089M	QPSK	1	0	6 mm	front	1:1	0.399	1.079	0.431	
2510.00	20850	Low	LTE Band 7	20	23.0	22.76	0.02	1	0089M	QPSK	50	0	6 mm	front	1:1	0.356	1.057	0.376	
2510.00	20850	Low	LTE Band 7	20	24.0	23.67	-0.04	0	0089M	QPSK	1	0	11 mm	bottom	1:1	0.484	1.079	0.522	
2510.00	20850	Low	LTE Band 7	20	23.0	22.76	-0.13	1	0089M	QPSK	50	0	11 mm	bottom	1:1	0.412	1.057	0.435	
2510.00	20850	Low	LTE Band 7	20	24.0	23.67	0.09	0	0089M	QPSK	1	0	0 mm	right	1:1	0.267	1.079	0.288	
2510.00	20850	Low	LTE Band 7	20	23.0	22.76	0.09	1	0089M	QPSK	50	0	0 mm	right	1:1	0.222	1.057	0.235	
2510.00	20850	Low	LTE Band 7	20	24.0	23.67	-0.12	0	0089M	QPSK	1	0	0 mm	left	1:1	0.895	1.079	0.966	
2510.00	20850	Low	LTE Band 7	20	23.0	22.76	-0.19	1	0089M	QPSK	50	0	0 mm	left	1:1	0.740	1.057	0.782	
2510.00	20850	Low	LTE Band 7	20	21.5	20.70	0.07	0	0089M	QPSK	1	0	0 mm	back	1:1	1.530	1.202	1.839	
2510.00	20850	Low	LTE Band 7	20	21.5	20.90	0.09	0	0089M	QPSK	50	0	0 mm	back	1:1	1.590	1.148	1.825	
2510.00	20850	Low	LTE Band 7	20	21.5	20.70	-0.10	0	0089M	QPSK	1	0	0 mm	front	1:1	1.160	1.202	1.394	
2510.00	20850	Low	LTE Band 7	20	21.5	20.90	-0.05	0	0089M	QPSK	50	0	0 mm	front	1:1	1.210	1.148	1.389	
2510.00	20850	Low	LTE Band 7	20	21.5	20.70	-0.12	0	0089M	QPSK	1	0	0 mm	bottom	1:1	1.700	1.202	2.043	
2535.00	21100	Mid	LTE Band 7	20	21.5	20.56	-0.15	0	0089M	QPSK	1	0	0 mm	bottom	1:1	1.700	1.242	2.111	
2560.00	21350	High	LTE Band 7	20	21.5	20.32	-0.10	0	0089M	QPSK	1	0	0 mm	bottom	1:1	1.810	1.312	2.375	
2510.00	20850	Low	LTE Band 7	20	21.5	20.90	-0.07	0	0089M	QPSK	50	0	0 mm	bottom	1:1	1.790	1.148	2.055	
2535.00	21100	Mid	LTE Band 7	20	21.5	20.57	-0.08	0	0089M	QPSK	50	0	0 mm	bottom	1:1	1.770	1.239	2.193	
2560.00	21350	High	LTE Band 7	20	21.5	20.36	0.02	0	0089M	QPSK	50	0	0 mm	bottom	1:1	1.880	1.300	2.444	A77
2510.00	20850	Low	LTE Band 7	20	21.5	20.68	-0.10	0	0089M	QPSK	100	0	0 mm	bottom	1:1	1.770	1.208	2.138	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet 4.0 W/kg (mW/g) averaged over 10 grams											
Spatial Peak																			
Uncontrolled Exposure/General Population																			

Table 11-70
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]	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	2506.00	39750	Low	LTE Band 41	20	24.5	24.05	-0.10	0	0089M	QPSK	1	0	0 mm	bottom	1:1.58	1.900	1.109	2.107	
Power Class 3	2549.50	40185	Low-Mid	LTE Band 41	20	24.5	23.63	-0.14	0	0089M	QPSK	1	0	0 mm	bottom	1:1.58	1.970	1.222	2.407	
Power Class 3	2593.00	40620	Mid	LTE Band 41	20	24.5	23.74	0.04	0	0089M	QPSK	1	50	0 mm	bottom	1:1.58	2.320	1.191	2.763	A78
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	24.5	24.07	-0.02	0	0089M	QPSK	1	50	0 mm	bottom	1:1.58	1.980	1.104	2.186	
Power Class 3	2680.00	41490	High	LTE Band 41	20	24.5	23.86	-0.05	0	0089M	QPSK	1	50	0 mm	bottom	1:1.58	1.610	1.159	1.866	
Power Class 3	2506.00	39750	Low	LTE Band 41	20	23.5	22.98	-0.13	1	0089M	QPSK	50	25	0 mm	bottom	1:1.58	1.590	1.127	1.792	
Power Class 3	2549.50	40185	Low-Mid	LTE Band 41	20	23.5	22.48	-0.08	1	0089M	QPSK	50	50	0 mm	bottom	1:1.58	1.590	1.265	2.011	
Power Class 3	2593.00	40620	Mid	LTE Band 41	20	23.5	22.71	-0.05	1	0089M	QPSK	50	25	0 mm	bottom	1:1.58	1.890	1.199	2.266	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.5	23.08	-0.05	1	0089M	QPSK	50	0	0 mm	bottom	1:1.58	1.670	1.102	1.840	
Power Class 3	2680.00	41490	High	LTE Band 41	20	23.5	22.97	-0.10	1	0089M	QPSK	50	25	0 mm	bottom	1:1.58	1.290	1.130	1.458	
Power Class 3	2636.50	41055	Mid-High	LTE Band 41	20	23.5	22.93	-0.06	1	0089M	QPSK	100	0	0 mm	bottom	1:1.58	1.650	1.140	1.881	
Power Class 2	2593.00	40620	Mid	LTE Band 41	20	25.5	24.53	0.16	0	0089M	QPSK	1	50	0 mm	bottom	1:2.31	1.910	1.250	2.388	
Power Class 3	2593.00	40620	Mid	LTE Band 41	20	24.5	23.74	0.04	0	0089M	QPSK	1	50	0 mm	bottom	1:1.58	2.310	1.191	2.751	
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: Blue entries represent variability measurements.

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**Table 11-71
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)	
5260	52	802.11a	OFDM	20	18.0	17.93	-0.10	0 mm	1	0585M	6	back	98.8	4.842	-	1.016	1.012	-	
5260	52	802.11a	OFDM	20	18.0	17.93	-0.14	0 mm	1	0585M	6	front	98.8	1.129	0.178	1.016	1.012	0.183	
5260	52	802.11a	OFDM	20	18.0	17.93	-0.13	0 mm	1	0585M	6	top	98.8	2.322	-	1.016	1.012	-	
5260	52	802.11a	OFDM	20	18.0	17.93	-0.17	0 mm	1	0585M	6	left	98.8	6.297	0.597	1.016	1.012	0.614	
5280	56	802.11a	OFDM	20	18.0	17.98	0.03	0 mm	2	0585M	6	back	98.8	6.810	1.090	1.005	1.012	1.109	
5280	56	802.11a	OFDM	20	18.0	17.98	-0.19	0 mm	2	0585M	6	front	98.8	0.271	-	1.005	1.012	-	
5280	56	802.11a	OFDM	20	18.0	17.98	0.15	0 mm	2	0585M	6	top	98.8	0.405	-	1.005	1.012	-	
5280	56	802.11a	OFDM	20	18.0	17.98	-0.01	0 mm	2	0585M	6	left	98.8	0.583	0.042	1.005	1.012	0.043	
5720	144	802.11a	OFDM	20	18.0	17.94	0.02	0 mm	1	0585M	6	back	98.8	7.979	1.050	1.014	1.012	1.077	
5720	144	802.11a	OFDM	20	18.0	17.94	-0.15	0 mm	1	0585M	6	front	98.8	1.606	0.291	1.014	1.012	0.299	
5720	144	802.11a	OFDM	20	18.0	17.94	0.09	0 mm	1	0585M	6	top	98.8	4.295	-	1.014	1.012	-	
5720	144	802.11a	OFDM	20	18.0	17.94	-0.17	0 mm	1	0585M	6	left	98.8	5.296	0.515	1.014	1.012	0.528	
5620	124	802.11a	OFDM	20	18.0	17.85	0.12	0 mm	2	0585M	6	back	98.8	9.093	0.905	1.035	1.012	0.948	
5620	124	802.11a	OFDM	20	18.0	17.85	-0.11	0 mm	2	0585M	6	front	98.8	2.667	-	1.035	1.012	-	
5620	124	802.11a	OFDM	20	18.0	17.85	-0.13	0 mm	2	0585M	6	top	98.8	0.856	-	1.035	1.012	-	
5620	124	802.11a	OFDM	20	18.0	17.85	-0.17	0 mm	2	0585M	6	left	98.8	7.573	-	1.035	1.012	-	
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 11-72
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)	
5300	60	802.11n	OFDM	20	18.0	17.95	18.0	17.86	-0.17	0 mm	MIMO	0585M	13	back	99.7	13.536	1.630	1.033	1.003	1.689	
5300	60	802.11n	OFDM	20	18.0	17.95	18.0	17.86	-0.16	0 mm	MIMO	0585M	13	front	99.7	1.845	0.196	1.033	1.003	0.203	
5300	60	802.11n	OFDM	20	18.0	17.95	18.0	17.86	-0.16	0 mm	MIMO	0585M	13	top	99.7	3.462	-	1.033	1.003	-	
5300	60	802.11n	OFDM	20	18.0	17.95	18.0	17.86	-0.11	0 mm	MIMO	0585M	13	left	99.7	4.624	0.530	1.033	1.003	0.549	
5500	100	802.11n	OFDM	20	18.0	17.55	18.0	17.84	-0.16	0 mm	MIMO	0585M	13	back	99.7	13.434	1.920	1.109	1.003	2.136	A78
5620	124	802.11n	OFDM	20	18.0	17.94	18.0	17.58	-0.14	0 mm	MIMO	0585M	13	back	99.7	15.012	1.700	1.102	1.003	1.879	
5720	144	802.11n	OFDM	20	18.0	17.74	18.0	17.46	0.01	0 mm	MIMO	0585M	13	back	99.7	13.703	1.630	1.132	1.003	1.851	
5620	124	802.11n	OFDM	20	18.0	17.94	18.0	17.58	-0.14	0 mm	MIMO	0585M	13	front	99.7	2.981	0.352	1.102	1.003	0.389	
5620	124	802.11n	OFDM	20	18.0	17.94	18.0	17.58	-0.19	0 mm	MIMO	0585M	13	top	99.7	5.487	-	1.102	1.003	-	
5620	124	802.11n	OFDM	20	18.0	17.94	18.0	17.58	-0.06	0 mm	MIMO	0585M	13	left	99.7	4.331	0.565	1.102	1.003	0.624	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Phablet										
Spatial Peak											4.0 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 10 grams										

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

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Table 11-73
WLAN Phablet SAR for Conditions with 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)	
5290	58	802.11ac	OFDM	80	14.0	13.62	-0.14	0 mm	1	0585M	29.3	back	94.9	1.347	0.147	1.091	1.054	0.169	
5290	58	802.11ac	OFDM	80	14.0	13.62	0.19	0 mm	1	0585M	29.3	front	94.9	0.494	-	1.091	1.054	-	
5290	58	802.11ac	OFDM	80	14.0	13.62	0.13	0 mm	1	0585M	29.3	top	94.9	0.844	-	1.091	1.054	-	
5290	58	802.11ac	OFDM	80	14.0	13.62	0.17	0 mm	1	0585M	29.3	left	94.9	1.689	0.141	1.091	1.054	0.162	
5290	58	802.11ac	OFDM	80	14.0	13.72	0.15	0 mm	2	0585M	29.3	back	94.7	1.537	0.128	1.067	1.056	0.144	
5290	58	802.11ac	OFDM	80	14.0	13.72	0.14	0 mm	2	0585M	29.3	front	94.7	0.085	-	1.067	1.056	-	
5290	58	802.11ac	OFDM	80	14.0	13.72	0.15	0 mm	2	0585M	29.3	top	94.7	0.110	-	1.067	1.056	-	
5290	58	802.11ac	OFDM	80	14.0	13.72	0.13	0 mm	2	0585M	29.3	left	94.7	0.180	-	1.067	1.056	-	
5530	106	802.11ac	OFDM	80	14.0	13.75	0.16	0 mm	1	0585M	29.3	back	94.9	1.865	0.189	1.059	1.054	0.211	
5530	106	802.11ac	OFDM	80	14.0	13.75	0.15	0 mm	1	0585M	29.3	front	94.9	0.966	-	1.059	1.054	-	
5530	106	802.11ac	OFDM	80	14.0	13.75	0.16	0 mm	1	0585M	29.3	top	94.9	1.616	-	1.059	1.054	-	
5530	106	802.11ac	OFDM	80	14.0	13.75	0.09	0 mm	1	0585M	29.3	left	94.9	1.836	-	1.059	1.054	-	
5610	122	802.11ac	OFDM	80	14.0	13.77	0.16	0 mm	2	0585M	29.3	back	94.7	1.177	0.177	1.054	1.056	0.197	
5610	122	802.11ac	OFDM	80	14.0	13.77	0.12	0 mm	2	0585M	29.3	front	94.7	0.145	-	1.054	1.056	-	
5610	122	802.11ac	OFDM	80	14.0	13.77	0.16	0 mm	2	0585M	29.3	top	94.7	0.247	-	1.054	1.056	-	
5610	122	802.11ac	OFDM	80	14.0	13.77	0.16	0 mm	2	0585M	29.3	left	94.7	0.375	-	1.054	1.056	-	
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 11-74
WLAN MIMO Phablet SAR for Conditions with 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) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.															W/kg	(W/kg)					
5290	58	802.11ac	OFDM	80	14.0	13.62	14.0	13.72	-0.06	0 mm	MIMO	0585M	58.5	back	90.1	2.241	0.308	1.091	1.110	0.373		
5290	58	802.11ac	OFDM	80	14.0	13.62	14.0	13.72	0.19	0 mm	MIMO	0585M	58.5	front	90.1	0.647	-	1.091	1.110	-		
5290	58	802.11ac	OFDM	80	14.0	13.62	14.0	13.72	0.14	0 mm	MIMO	0585M	58.5	top	90.1	1.182	-	1.091	1.110	-		
5290	58	802.11ac	OFDM	80	14.0	13.62	14.0	13.72	0.18	0 mm	MIMO	0585M	58.5	left	90.1	2.604	0.253	1.091	1.110	0.306		
5690	138	802.11ac	OFDM	80	14.0	13.69	14.0	13.77	0.19	0 mm	MIMO	0585M	58.5	back	90.1	3.397	0.365	1.074	1.110	0.435		
5690	138	802.11ac	OFDM	80	14.0	13.69	14.0	13.77	0.14	0 mm	MIMO	0585M	58.5	front	90.1	1.043	-	1.074	1.110	-		
5690	138	802.11ac	OFDM	80	14.0	13.69	14.0	13.77	0.21	0 mm	MIMO	0585M	58.5	top	90.1	2.040	-	1.074	1.110	-		
5690	138	802.11ac	OFDM	80	14.0	13.69	14.0	13.77	-0.11	0 mm	MIMO	0585M	58.5	left	90.1	2.226	0.189	1.074	1.110	0.225		
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 18.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14.0 dBm

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11.5 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 13 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 6.7 for more details).
10. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is > 160 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.
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. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D01v06 was applied to determine SAR test exclusion for adjacent edge configurations.
13. 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.
14. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.

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.

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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.

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 or LTE Band 48 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.
8. For LTE Band 5, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

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NR Notes:

1. NR implementation of n71 and n5 is limited to EN-DC operations only, with LTE Band 66, LTE Band 2, and LTE Band 30 acting as the anchor band. 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 included in Section 12. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only. Per FCC guidance, all unique uplink combinations were assessed.
4. Per FCC Guidance, the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency as the NR test results. Additional tuner states were evaluated per April 2019 TCBC Workshop Guidance. Please see Section 14 for supplemental data.
5. 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.
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.
7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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.

12.3 Head SAR Simultaneous Transmission Analysis

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

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

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Head SAR	GSM 850	0.100	0.764	0.018	0.864	0.118	0.882
	GSM 1900	0.051	0.764	0.018	0.815	0.069	0.833
	UMTS 850	0.212	0.764	0.018	0.976	0.230	0.994
	UMTS 1750	0.166	0.764	0.018	0.930	0.184	0.948
	UMTS 1900	0.156	0.764	0.018	0.920	0.174	0.938
	LTE Band 71	0.107	0.764	0.018	0.871	0.125	0.889
	LTE Band 12	0.104	0.764	0.018	0.868	0.122	0.886
	LTE Band 13	0.136	0.764	0.018	0.900	0.154	0.918
	LTE Band 14	0.134	0.764	0.018	0.898	0.152	0.916
	LTE Band 26 (Cell)	0.176	0.764	0.018	0.940	0.194	0.958
	LTE Band 5 (Cell)	0.180	0.764	0.018	0.944	0.198	0.962
	LTE Band 66 (AWS)	0.144	0.764	0.018	0.908	0.162	0.926
	LTE Band 25 (PCS)	0.065	0.764	0.018	0.829	0.083	0.847
	LTE Band 2 (PCS)	0.070	0.764	0.018	0.834	0.088	0.852
	LTE Band 30	0.053	0.764	0.018	0.817	0.071	0.835
	LTE Band 7	0.096	0.764	0.018	0.860	0.114	0.878
	LTE Band 48	0.058	0.764	0.018	0.822	0.076	0.840
	LTE Band 41	0.097	0.764	0.018	0.861	0.115	0.879

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3			1	2	2	1+2+3
Head SAR	Right Cheek	0.063	0.120	0.577	0.760	Head SAR	Right Cheek	0.063	0.214	0.577	0.854
	Right Tilt	0.051	0.052	0.764	0.867		Right Tilt	0.051	0.107	0.764	0.922
	Left Cheek	0.070	0.100	0.764*	0.934		Left Cheek	0.070	0.134	0.764*	0.968
	Left Tilt	0.045	0.050	0.764*	0.859		Left Tilt	0.045	0.097	0.764*	0.906
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN 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)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3			1	2	2	1+2+3
Head SAR	Right Cheek	0.094	0.120	0.577	0.791	Head SAR	Right Cheek	0.094	0.214	0.577	0.885
	Right Tilt	0.083	0.052	0.764	0.899		Right Tilt	0.083	0.107	0.764	0.954
	Left Cheek	0.144	0.100	0.764*	1.008		Left Cheek	0.144	0.134	0.764*	1.042
	Left Tilt	0.066	0.050	0.764*	0.880		Left Tilt	0.066	0.097	0.764*	0.927
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3			1	2	2	1+2+3
Head SAR	Right Cheek	0.053	0.214	0.577	0.844	Head SAR	Right Cheek	0.053	0.214	0.577	0.844
	Right Tilt	0.021	0.107	0.764	0.892		Right Tilt	0.021	0.107	0.764	0.892
	Left Cheek	0.032	0.134	0.764*	0.930		Left Cheek	0.032	0.134	0.764*	0.930
	Left Tilt	0.015	0.097	0.764*	0.876		Left Tilt	0.015	0.097	0.764*	0.876

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Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Head SAR	Right Cheek	0.063	0.120	0.018	0.201	Head SAR	Right Cheek	0.063	0.214	0.018	0.295
	Right Tilt	0.051	0.052	0.018*	0.121		Right Tilt	0.051	0.107	0.018*	0.176
	Left Cheek	0.070	0.100	0.018*	0.188		Left Cheek	0.070	0.134	0.018*	0.222
	Left Tilt	0.045	0.050	0.018*	0.113		Left Tilt	0.045	0.097	0.018*	0.160
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 2 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 WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Head SAR	Right Cheek	0.094	0.120	0.018	0.232	Head SAR	Right Cheek	0.094	0.214	0.018	0.326
	Right Tilt	0.083	0.052	0.018*	0.153		Right Tilt	0.083	0.107	0.018*	0.208
	Left Cheek	0.144	0.100	0.018*	0.262		Left Cheek	0.144	0.134	0.018*	0.296
	Left Tilt	0.066	0.050	0.018*	0.134		Left Tilt	0.066	0.097	0.018*	0.181

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	Right Cheek	0.053	0.214	0.018	0.285
	Right Tilt	0.021	0.107	0.018*	0.146
	Left Cheek	0.032	0.134	0.018*	0.184
	Left Tilt	0.015	0.097	0.018*	0.130

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) 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			1	2	3	1+2+3
Head SAR	Right Cheek	0.063	0.120	0.393	0.576	Head SAR	Right Cheek	0.063	0.214	0.393	0.670
	Right Tilt	0.051	0.052	0.457	0.560		Right Tilt	0.051	0.107	0.457	0.615
	Left Cheek	0.070	0.100	0.457*	0.627		Left Cheek	0.070	0.134	0.457*	0.661
	Left Tilt	0.045	0.050	0.457*	0.552		Left Tilt	0.045	0.097	0.457*	0.599
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 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)	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			1	2	3	1+2+3
Head SAR	Right Cheek	0.094	0.120	0.393	0.607	Head SAR	Right Cheek	0.094	0.214	0.393	0.701
	Right Tilt	0.083	0.052	0.457	0.592		Right Tilt	0.083	0.107	0.457	0.647
	Left Cheek	0.144	0.100	0.457*	0.701		Left Cheek	0.144	0.134	0.457*	0.735
	Left Tilt	0.066	0.050	0.457*	0.573		Left Tilt	0.066	0.097	0.457*	0.620

Simult Tx	Configuration	LTE Band 30 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	Right Cheek	0.053	0.214	0.393	0.660
	Right Tilt	0.021	0.107	0.457	0.585
	Left Cheek	0.032	0.134	0.457*	0.623
	Left Tilt	0.015	0.097	0.457*	0.569

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

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Head SAR	GSM 850	0.100	0.317	0.031	0.417	0.131	0.448
	GSM 1900	0.051	0.317	0.031	0.368	0.082	0.399
	UMTS 850	0.212	0.317	0.031	0.529	0.243	0.560
	UMTS 1750	0.166	0.317	0.031	0.483	0.197	0.514
	UMTS 1900	0.156	0.317	0.031	0.473	0.187	0.504
	LTE Band 71	0.107	0.317	0.031	0.424	0.138	0.455
	LTE Band 12	0.104	0.317	0.031	0.421	0.135	0.452
	LTE Band 13	0.136	0.317	0.031	0.453	0.167	0.484
	LTE Band 14	0.134	0.317	0.031	0.451	0.165	0.482
	LTE Band 26 (Cell)	0.176	0.317	0.031	0.493	0.207	0.524
	LTE Band 5 (Cell)	0.180	0.317	0.031	0.497	0.211	0.528
	LTE Band 66 (AWS)	0.144	0.317	0.031	0.461	0.175	0.492
	LTE Band 25 (PCS)	0.065	0.317	0.031	0.382	0.096	0.413
	LTE Band 2 (PCS)	0.070	0.317	0.031	0.387	0.101	0.418
	LTE Band 30	0.053	0.317	0.031	0.370	0.084	0.401
	LTE Band 7	0.096	0.317	0.031	0.413	0.127	0.444
	LTE Band 48	0.058	0.317	0.031	0.375	0.089	0.406
	LTE Band 41	0.097	0.317	0.031	0.414	0.128	0.445

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3			1	2	2	1+2+3
Head SAR	Right Cheek	0.063	0.120	0.317*	0.500	Head SAR	Right Cheek	0.063	0.214	0.317*	0.594
	Right Tilt	0.051	0.052	0.317	0.420		Right Tilt	0.051	0.107	0.317	0.475
	Left Cheek	0.070	0.100	0.317*	0.487		Left Cheek	0.070	0.134	0.317*	0.521
	Left Tilt	0.045	0.050	0.317*	0.412		Left Tilt	0.045	0.097	0.317*	0.459
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN 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 Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3			1	2	2	1+2+3
Head SAR	Right Cheek	0.094	0.120	0.317*	0.531	Head SAR	Right Cheek	0.094	0.214	0.317*	0.625
	Right Tilt	0.083	0.052	0.317	0.452		Right Tilt	0.083	0.107	0.317	0.507
	Left Cheek	0.144	0.100	0.317*	0.561		Left Cheek	0.144	0.134	0.317*	0.595
	Left Tilt	0.066	0.050	0.317*	0.433		Left Tilt	0.066	0.097	0.317*	0.480
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3			1	2	2	1+2+3
Head SAR	Right Cheek	0.053	0.214	0.317*	0.584	Head SAR	Right Cheek	0.053	0.214	0.317*	0.584
	Right Tilt	0.021	0.107	0.317	0.445		Right Tilt	0.021	0.107	0.317	0.445
	Left Cheek	0.032	0.134	0.317*	0.483		Left Cheek	0.032	0.134	0.317*	0.483
	Left Tilt	0.015	0.097	0.317*	0.429		Left Tilt	0.015	0.097	0.317*	0.429

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Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Head SAR	Right Cheek	0.063	0.120	0.011	0.194	Head SAR	Right Cheek	0.063	0.214	0.011	0.288
	Right Tilt	0.051	0.052	0.031	0.134		Right Tilt	0.051	0.107	0.031	0.189
	Left Cheek	0.070	0.100	0.031*	0.201		Left Cheek	0.070	0.134	0.031*	0.235
	Left Tilt	0.045	0.050	0.027	0.122		Left Tilt	0.045	0.097	0.027	0.169
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 2 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 Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Head SAR	Right Cheek	0.094	0.120	0.011	0.225	Head SAR	Right Cheek	0.094	0.214	0.011	0.319
	Right Tilt	0.083	0.052	0.031	0.166		Right Tilt	0.083	0.107	0.031	0.221
	Left Cheek	0.144	0.100	0.031*	0.275		Left Cheek	0.144	0.134	0.031*	0.309
	Left Tilt	0.066	0.050	0.027	0.143		Left Tilt	0.066	0.097	0.027	0.190

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	Right Cheek	0.053	0.214	0.011	0.278
	Right Tilt	0.021	0.107	0.031	0.159
	Left Cheek	0.032	0.134	0.031*	0.197
	Left Tilt	0.015	0.097	0.027	0.139

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) 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			1	2	3	1+2+3
Head SAR	Right Cheek	0.063	0.120	0.277*	0.460	Head SAR	Right Cheek	0.063	0.214	0.277*	0.554
	Right Tilt	0.051	0.052	0.277	0.380		Right Tilt	0.051	0.107	0.277	0.435
	Left Cheek	0.070	0.100	0.277*	0.447		Left Cheek	0.070	0.134	0.277*	0.481
	Left Tilt	0.045	0.050	0.277*	0.372		Left Tilt	0.045	0.097	0.277*	0.419
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN MIMO 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 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Head SAR	Right Cheek	0.094	0.120	0.277*	0.491	Head SAR	Right Cheek	0.094	0.214	0.277*	0.585
	Right Tilt	0.083	0.052	0.277	0.412		Right Tilt	0.083	0.107	0.277	0.467
	Left Cheek	0.144	0.100	0.277*	0.521		Left Cheek	0.144	0.134	0.277*	0.555
	Left Tilt	0.066	0.050	0.277*	0.393		Left Tilt	0.066	0.097	0.277*	0.440

Simult Tx	Configuration	LTE Band 30 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	Right Cheek	0.053	0.214	0.277*	0.544
	Right Tilt	0.021	0.107	0.277	0.405
	Left Cheek	0.032	0.134	0.277*	0.443
	Left Tilt	0.015	0.097	0.277*	0.389

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Table 12-3

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

Exposure Condition	Mode					2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
						1	2	3	4	5	1+2+3+4+5		
Head SAR	GSM 850					0.100	0.764	0.018	0.317	0.031	1.230		
	GSM 1900					0.051	0.764	0.018	0.317	0.031	1.181		
	UMTS 850					0.212	0.764	0.018	0.317	0.031	1.342		
	UMTS 1750					0.166	0.764	0.018	0.317	0.031	1.296		
	UMTS 1900					0.156	0.764	0.018	0.317	0.031	1.286		
	LTE Band 71					0.107	0.764	0.018	0.317	0.031	1.237		
	LTE Band 12					0.104	0.764	0.018	0.317	0.031	1.234		
	LTE Band 13					0.136	0.764	0.018	0.317	0.031	1.266		
	LTE Band 14					0.134	0.764	0.018	0.317	0.031	1.264		
	LTE Band 26 (Cell)					0.176	0.764	0.018	0.317	0.031	1.306		
	LTE Band 5 (Cell)					0.180	0.764	0.018	0.317	0.031	1.310		
	LTE Band 66 (AWS)					0.144	0.764	0.018	0.317	0.031	1.274		
	LTE Band 25 (PCS)					0.065	0.764	0.018	0.317	0.031	1.195		
	LTE Band 2 (PCS)					0.070	0.764	0.018	0.317	0.031	1.200		
	LTE Band 30					0.053	0.764	0.018	0.317	0.031	1.183		
	LTE Band 7					0.096	0.764	0.018	0.317	0.031	1.226		
	LTE Band 48					0.058	0.764	0.018	0.317	0.031	1.188		
	LTE Band 41					0.097	0.764	0.018	0.317	0.031	1.227		
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) 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			1	2	3	4	1+2+3+4
Head SAR	Right Cheek	0.063	0.120	0.393	0.277*	0.853	Head SAR	Right Cheek	0.063	0.214	0.393	0.277*	0.947
	Right Tilt	0.051	0.052	0.457	0.277	0.837		Right Tilt	0.051	0.107	0.457	0.277	0.892
	Left Cheek	0.070	0.100	0.457*	0.277*	0.904		Left Cheek	0.070	0.134	0.457*	0.277*	0.938
	Left Tilt	0.045	0.050	0.457*	0.277*	0.829		Left Tilt	0.045	0.097	0.457*	0.277*	0.876
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO 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 WLAN MIMO SAR (W/kg)	5 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
Head SAR	Right Cheek	0.094	0.120	0.393	0.277*	0.884	Head SAR	Right Cheek	0.094	0.214	0.393	0.277*	0.978
	Right Tilt	0.083	0.052	0.457	0.277	0.869		Right Tilt	0.083	0.107	0.457	0.277	0.924
	Left Cheek	0.144	0.100	0.457*	0.277*	0.978		Left Cheek	0.144	0.134	0.457*	0.277*	1.012
	Left Tilt	0.066	0.050	0.457*	0.277*	0.850		Left Tilt	0.066	0.097	0.457*	0.277*	0.897

Simult Tx	Configuration	LTE Band 30 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	Right Cheek	0.053	0.214	0.393	0.277*	0.937
	Right Tilt	0.021	0.107	0.457	0.277	0.862
	Left Cheek	0.032	0.134	0.457*	0.277*	0.900
	Left Tilt	0.015	0.097	0.457*	0.277*	0.846

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

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	GSM 850	0.100	0.360	0.460
	GSM 1900	0.051	0.360	0.411
	UMTS 850	0.212	0.360	0.572
	UMTS 1750	0.166	0.360	0.526
	UMTS 1900	0.156	0.360	0.516
	LTE Band 71	0.107	0.360	0.467
	LTE Band 12	0.104	0.360	0.464
	LTE Band 13	0.136	0.360	0.496
	LTE Band 14	0.134	0.360	0.494
	LTE Band 26 (Cell)	0.176	0.360	0.536
	LTE Band 5 (Cell)	0.180	0.360	0.540
	LTE Band 66 (AWS)	0.144	0.360	0.504
	LTE Band 25 (PCS)	0.065	0.360	0.425
	LTE Band 2 (PCS)	0.070	0.360	0.430
	LTE Band 30	0.053	0.360	0.413
	LTE Band 7	0.096	0.360	0.456
	LTE Band 48	0.058	0.360	0.418
	LTE Band 41	0.097	0.360	0.457

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Head SAR	Right Cheek	0.063	0.120	0.283	0.466	Head SAR	Right Cheek	0.063	0.214	0.283	0.560
	Right Tilt	0.051	0.052	0.360	0.463		Right Tilt	0.051	0.107	0.360	0.518
	Left Cheek	0.070	0.100	0.070	0.240		Left Cheek	0.070	0.134	0.070	0.274
	Left Tilt	0.045	0.050	0.082	0.177		Left Tilt	0.045	0.097	0.082	0.224
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Head SAR	Right Cheek	0.094	0.120	0.283	0.497	Head SAR	Right Cheek	0.094	0.214	0.283	0.591
	Right Tilt	0.083	0.052	0.360	0.495		Right Tilt	0.083	0.107	0.360	0.550
	Left Cheek	0.144	0.100	0.070	0.314		Left Cheek	0.144	0.134	0.070	0.348
	Left Tilt	0.066	0.050	0.082	0.198		Left Tilt	0.066	0.097	0.082	0.245

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	Right Cheek	0.053	0.214	0.283	0.550
	Right Tilt	0.021	0.107	0.360	0.488
	Left Cheek	0.032	0.134	0.070	0.236
	Left Tilt	0.015	0.097	0.082	0.194

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

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	GSM 850	0.100	0.360	0.317	0.777
	GSM 1900	0.051	0.360	0.317	0.728
	UMTS 850	0.212	0.360	0.317	0.889
	UMTS 1750	0.166	0.360	0.317	0.843
	UMTS 1900	0.156	0.360	0.317	0.833
	LTE Band 71	0.107	0.360	0.317	0.784
	LTE Band 12	0.104	0.360	0.317	0.781
	LTE Band 13	0.136	0.360	0.317	0.813
	LTE Band 14	0.134	0.360	0.317	0.811
	LTE Band 26 (Cell)	0.176	0.360	0.317	0.853
	LTE Band 5 (Cell)	0.180	0.360	0.317	0.857
	LTE Band 66 (AWS)	0.144	0.360	0.317	0.821
	LTE Band 25 (PCS)	0.065	0.360	0.317	0.742
	LTE Band 2 (PCS)	0.070	0.360	0.317	0.747
	LTE Band 30	0.053	0.360	0.317	0.730
	LTE Band 7	0.096	0.360	0.317	0.773
	LTE Band 48	0.058	0.360	0.317	0.735
	LTE Band 41	0.097	0.360	0.317	0.774

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Head SAR	Right Cheek	0.063	0.120	0.283	0.317*	0.783	Head SAR	Right Cheek	0.063	0.214	0.283	0.317*	0.877
	Right Tilt	0.051	0.052	0.360	0.317	0.780		Right Tilt	0.051	0.107	0.360	0.317	0.835
	Left Cheek	0.070	0.100	0.070	0.317*	0.557		Left Cheek	0.070	0.134	0.070	0.317*	0.591
	Left Tilt	0.045	0.050	0.082	0.317*	0.494		Left Tilt	0.045	0.097	0.082	0.317*	0.541
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN 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)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Head SAR	Right Cheek	0.094	0.120	0.283	0.317*	0.814	Head SAR	Right Cheek	0.094	0.214	0.283	0.317*	0.908
	Right Tilt	0.083	0.052	0.360	0.317	0.812		Right Tilt	0.083	0.107	0.360	0.317	0.867
	Left Cheek	0.144	0.100	0.070	0.317*	0.631		Left Cheek	0.144	0.134	0.070	0.317*	0.665
	Left Tilt	0.066	0.050	0.082	0.317*	0.515		Left Tilt	0.066	0.097	0.082	0.317*	0.562

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	Right Cheek	0.053	0.214	0.283	0.317*	0.867
	Right Tilt	0.021	0.107	0.360	0.317	0.805
	Left Cheek	0.032	0.134	0.070	0.317*	0.553
	Left Tilt	0.015	0.097	0.082	0.317*	0.511

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Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	GSM 850	0.100	0.360	0.031	0.491
	GSM 1900	0.051	0.360	0.031	0.442
	UMTS 850	0.212	0.360	0.031	0.603
	UMTS 1750	0.166	0.360	0.031	0.557
	UMTS 1900	0.156	0.360	0.031	0.547
	LTE Band 71	0.107	0.360	0.031	0.498
	LTE Band 12	0.104	0.360	0.031	0.495
	LTE Band 13	0.136	0.360	0.031	0.527
	LTE Band 14	0.134	0.360	0.031	0.525
	LTE Band 26 (Cell)	0.176	0.360	0.031	0.567
	LTE Band 5 (Cell)	0.180	0.360	0.031	0.571
	LTE Band 66 (AWS)	0.144	0.360	0.031	0.535
	LTE Band 25 (PCS)	0.065	0.360	0.031	0.456
	LTE Band 2 (PCS)	0.070	0.360	0.031	0.461
	LTE Band 30	0.053	0.360	0.031	0.444
	LTE Band 7	0.096	0.360	0.031	0.487
	LTE Band 48	0.058	0.360	0.031	0.449
	LTE Band 41	0.097	0.360	0.031	0.488

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN 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
Head SAR	Right Cheek	0.063	0.120	0.283	0.011	0.477	Head SAR	Right Cheek	0.063	0.214	0.283	0.011	0.571
	Right Tilt	0.051	0.052	0.360	0.031	0.494		Right Tilt	0.051	0.107	0.360	0.031	0.549
	Left Cheek	0.070	0.100	0.070	0.031*	0.271		Left Cheek	0.070	0.134	0.070	0.031*	0.305
	Left Tilt	0.045	0.050	0.082	0.027	0.204		Left Tilt	0.045	0.097	0.082	0.027	0.251
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN 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
Head SAR	Right Cheek	0.094	0.120	0.283	0.011	0.508	Head SAR	Right Cheek	0.094	0.214	0.283	0.011	0.602
	Right Tilt	0.083	0.052	0.360	0.031	0.526		Right Tilt	0.083	0.107	0.360	0.031	0.581
	Left Cheek	0.144	0.100	0.070	0.031*	0.345		Left Cheek	0.144	0.134	0.070	0.031*	0.379
	Left Tilt	0.066	0.050	0.082	0.027	0.225		Left Tilt	0.066	0.097	0.082	0.027	0.272

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	Right Cheek	0.053	0.214	0.283	0.011	0.561
	Right Tilt	0.021	0.107	0.360	0.031	0.519
	Left Cheek	0.032	0.134	0.070	0.031*	0.267
	Left Tilt	0.015	0.097	0.082	0.027	0.221

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Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	GSM 850	0.100	0.360	0.317	0.031	0.808
	GSM 1900	0.051	0.360	0.317	0.031	0.759
	UMTS 850	0.212	0.360	0.317	0.031	0.920
	UMTS 1750	0.166	0.360	0.317	0.031	0.874
	UMTS 1900	0.156	0.360	0.317	0.031	0.864
	LTE Band 71	0.107	0.360	0.317	0.031	0.815
	LTE Band 12	0.104	0.360	0.317	0.031	0.812
	LTE Band 13	0.136	0.360	0.317	0.031	0.844
	LTE Band 14	0.134	0.360	0.317	0.031	0.842
	LTE Band 26 (Cell)	0.176	0.360	0.317	0.031	0.884
	LTE Band 5 (Cell)	0.180	0.360	0.317	0.031	0.888
	LTE Band 66 (AWS)	0.144	0.360	0.317	0.031	0.852
	LTE Band 25 (PCS)	0.065	0.360	0.317	0.031	0.773
	LTE Band 2 (PCS)	0.070	0.360	0.317	0.031	0.778
	LTE Band 30	0.053	0.360	0.317	0.031	0.761
	LTE Band 7	0.096	0.360	0.317	0.031	0.804
	LTE Band 48	0.058	0.360	0.317	0.031	0.766
	LTE Band 41	0.097	0.360	0.317	0.031	0.805

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 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
Head SAR	Right Cheek	0.063	0.120	0.283	0.277*	0.743	Head SAR	Right Cheek	0.063	0.214	0.283	0.277*	0.837
	Right Tilt	0.051	0.052	0.360	0.277	0.740		Right Tilt	0.051	0.107	0.360	0.277	0.795
	Left Cheek	0.070	0.100	0.070	0.277*	0.517		Left Cheek	0.070	0.134	0.070	0.277*	0.551
	Left Tilt	0.045	0.050	0.082	0.277*	0.454		Left Tilt	0.045	0.097	0.082	0.277*	0.501
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 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
Head SAR	Right Cheek	0.094	0.120	0.283	0.277*	0.774	Head SAR	Right Cheek	0.094	0.214	0.283	0.277*	0.868
	Right Tilt	0.083	0.052	0.360	0.277	0.772		Right Tilt	0.083	0.107	0.360	0.277	0.827
	Left Cheek	0.144	0.100	0.070	0.277*	0.591		Left Cheek	0.144	0.134	0.070	0.277*	0.625
	Left Tilt	0.066	0.050	0.082	0.277*	0.475		Left Tilt	0.066	0.097	0.082	0.277*	0.522

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	Right Cheek	0.053	0.214	0.283	0.277*	0.827
	Right Tilt	0.021	0.107	0.360	0.277	0.765
	Left Cheek	0.032	0.134	0.070	0.277*	0.513
	Left Tilt	0.015	0.097	0.082	0.277*	0.471

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12.4 Body-Worn Simultaneous Transmission Analysis

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

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body-Worn	GSM 850	0.167	0.125	0.019	0.292	0.186	0.311
	GSM 1900	0.337	0.125	0.019	0.462	0.356	0.481
	UMTS 850	0.299	0.125	0.019	0.424	0.318	0.443
	UMTS 1750	0.870	0.125	0.019	0.995	0.889	1.014
	UMTS 1900	1.005	0.125	0.019	1.130	1.024	1.149
	LTE Band 71	0.178	0.125	0.019	0.303	0.197	0.322
	LTE Band 12	0.214	0.125	0.019	0.339	0.233	0.358
	LTE Band 13	0.275	0.125	0.019	0.400	0.294	0.419
	LTE Band 14	0.252	0.125	0.019	0.377	0.271	0.396
	LTE Band 26 (Cell)	0.306	0.125	0.019	0.431	0.325	0.450
	LTE Band 5 (Cell)	0.285	0.125	0.019	0.410	0.304	0.429
	LTE Band 66 (AWS)	0.920	0.125	0.019	1.045	0.939	1.064
	LTE Band 25 (PCS)	0.719	0.125	0.019	0.844	0.738	0.863
	LTE Band 2 (PCS)	0.924	0.125	0.019	1.049	0.943	1.068
	LTE Band 30	0.587	0.125	0.019	0.712	0.606	0.731
	LTE Band 7	0.363	0.125	0.019	0.488	0.382	0.507
	LTE Band 48	0.130	0.125	0.019	0.255	0.149	0.274
	LTE Band 41	0.342	0.125	0.019	0.467	0.361	0.486

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.924	0.153	0.125	1.202	Body SAR	Back	0.924	0.340	0.125	1.389
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.924	0.153	0.019	1.096	Body SAR	Back	0.924	0.340	0.019	1.283
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) 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			1	2	3	1+2+3
Body SAR	Back	0.924	0.153	0.061	1.138	Body SAR	Back	0.924	0.340	0.061	1.325

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN 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)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.920	0.153	0.125	1.198	Body SAR	Back	0.920	0.340	0.125	1.385
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 2 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 WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.920	0.153	0.019	1.092	Body SAR	Back	0.920	0.340	0.019	1.279
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 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)	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			1	2	3	1+2+3
Body SAR	Back	0.920	0.153	0.061	1.134	Body SAR	Back	0.920	0.340	0.061	1.321

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.587	0.340	0.125	1.052
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.587	0.340	0.019	0.946
Simult Tx	Configuration	LTE Band 30 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 SAR	Back	0.587	0.340	0.061	0.988

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Table 12-7
Simultaneous Transmission Scenario with 5 GHz WLAN (Body-Worn at 1.5 cm)

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body-Worn	GSM 850	0.167	0.253	0.073	0.420	0.240	0.493
	GSM 1900	0.337	0.253	0.073	0.590	0.410	0.663
	UMTS 850	0.299	0.253	0.073	0.552	0.372	0.625
	UMTS 1750	0.870	0.253	0.073	1.123	0.943	1.196
	UMTS 1900	1.005	0.253	0.073	1.258	1.078	1.331
	LTE Band 71	0.178	0.253	0.073	0.431	0.251	0.504
	LTE Band 12	0.214	0.253	0.073	0.467	0.287	0.540
	LTE Band 13	0.275	0.253	0.073	0.528	0.348	0.601
	LTE Band 14	0.252	0.253	0.073	0.505	0.325	0.578
	LTE Band 26 (Cell)	0.306	0.253	0.073	0.559	0.379	0.632
	LTE Band 5 (Cell)	0.285	0.253	0.073	0.538	0.358	0.611
	LTE Band 66 (AWS)	0.920	0.253	0.073	1.173	0.993	1.246
	LTE Band 25 (PCS)	0.719	0.253	0.073	0.972	0.792	1.045
	LTE Band 2 (PCS)	0.924	0.253	0.073	1.177	0.997	1.250
	LTE Band 30	0.587	0.253	0.073	0.840	0.660	0.913
	LTE Band 7	0.363	0.253	0.073	0.616	0.436	0.689
	LTE Band 48	0.130	0.253	0.073	0.383	0.203	0.456
	LTE Band 41	0.342	0.253	0.073	0.595	0.415	0.668

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) 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			1	2	3	1+2+3
Body SAR	Back	0.924	0.153	0.253	1.330	Body SAR	Back	0.924	0.340	0.253	1.517
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.924	0.153	0.073	1.150	Body SAR	Back	0.924	0.340	0.073	1.337
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.924	0.153	0.109	1.186	Body SAR	Back	0.924	0.340	0.109	1.373

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN 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 Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.920	0.153	0.253	1.326	Body SAR	Back	0.920	0.340	0.253	1.513
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 2 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 Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.920	0.153	0.073	1.146	Body SAR	Back	0.920	0.340	0.073	1.333
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN MIMO at 16 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)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.920	0.153	0.109	1.182	Body SAR	Back	0.920	0.340	0.109	1.369

Simult Tx	Configuration	LTE Band 30 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 SAR	Back	0.587	0.340	0.253	1.180
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.587	0.340	0.073	1.000
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.587	0.340	0.109	1.036

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Table 12-8
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Body-Worn at 1.5 cm)

Exposure Condition	Mode		2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)					
			1	2	3	4	5	1+2+3+4+5					
Body-Worn	GSM 850		0.167	0.125	0.019	0.253	0.073	0.637					
	GSM 1900		0.337	0.125	0.019	0.253	0.073	0.807					
	UMTS 850		0.299	0.125	0.019	0.253	0.073	0.769					
	UMTS 1750		0.870	0.125	0.019	0.253	0.073	1.340					
	UMTS 1900		1.005	0.125	0.019	0.253	0.073	1.475					
	LTE Band 71		0.178	0.125	0.019	0.253	0.073	0.648					
	LTE Band 12		0.214	0.125	0.019	0.253	0.073	0.684					
	LTE Band 13		0.275	0.125	0.019	0.253	0.073	0.745					
	LTE Band 14		0.252	0.125	0.019	0.253	0.073	0.722					
	LTE Band 26 (Cell)		0.306	0.125	0.019	0.253	0.073	0.776					
	LTE Band 5 (Cell)		0.285	0.125	0.019	0.253	0.073	0.755					
	LTE Band 66 (AWS)		0.920	0.125	0.019	0.253	0.073	1.390					
	LTE Band 25 (PCS)		0.719	0.125	0.019	0.253	0.073	1.189					
	LTE Band 2 (PCS)		0.924	0.125	0.019	0.253	0.073	1.394					
	LTE Band 30		0.587	0.125	0.019	0.253	0.073	1.057					
	LTE Band 7		0.363	0.125	0.019	0.253	0.073	0.833					
	LTE Band 48		0.130	0.125	0.019	0.253	0.073	0.600					
	LTE Band 41		0.342	0.125	0.019	0.253	0.073	0.812					
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Body SAR	Back	0.924	0.153	0.026	0.109	1.212	Body SAR	Back	0.924	0.340	0.026	0.109	1.399
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 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 WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Body SAR	Back	0.920	0.153	0.026	0.109	1.208	Body SAR	Back	0.920	0.340	0.026	0.109	1.395
		Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)					
				1	2	3	4	1+2+3+4					
				Body SAR	Back	0.587	0.340	0.026					

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Table 12-9
Simultaneous Transmission Scenario with Bluetooth (Body-Worn at 1.5 cm)

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body-Worn	GSM 850	0.167	0.026	0.193
	GSM 1900	0.337	0.026	0.363
	UMTS 850	0.299	0.026	0.325
	UMTS 1750	0.870	0.026	0.896
	UMTS 1900	1.005	0.026	1.031
	LTE Band 71	0.178	0.026	0.204
	LTE Band 12	0.214	0.026	0.240
	LTE Band 13	0.275	0.026	0.301
	LTE Band 14	0.252	0.026	0.278
	LTE Band 26 (Cell)	0.306	0.026	0.332
	LTE Band 5 (Cell)	0.285	0.026	0.311
	LTE Band 66 (AWS)	0.920	0.026	0.946
	LTE Band 25 (PCS)	0.719	0.026	0.745
	LTE Band 2 (PCS)	0.924	0.026	0.950
	LTE Band 30	0.587	0.026	0.613
	LTE Band 7	0.363	0.026	0.389
	LTE Band 48	0.130	0.026	0.156
	LTE Band 41	0.342	0.026	0.368

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.924	0.153	0.026	1.103	Body SAR	Back	0.924	0.340	0.026	1.290
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Body SAR	Back	0.920	0.153	0.026	1.099	Body SAR	Back	0.920	0.340	0.026	1.286
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)						
		1	2	3	1+2+3						
Body SAR	Back	0.587	0.340	0.026	0.953						

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Table 12-10
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Body-Worn at 1.5 cm)

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn	GSM 850	0.167	0.026	0.253	0.446
	GSM 1900	0.337	0.026	0.253	0.616
	UMTS 850	0.299	0.026	0.253	0.578
	UMTS 1750	0.870	0.026	0.253	1.149
	UMTS 1900	1.005	0.026	0.253	1.284
	LTE Band 71	0.178	0.026	0.253	0.457
	LTE Band 12	0.214	0.026	0.253	0.493
	LTE Band 13	0.275	0.026	0.253	0.554
	LTE Band 14	0.252	0.026	0.253	0.531
	LTE Band 26 (Cell)	0.306	0.026	0.253	0.585
	LTE Band 5 (Cell)	0.285	0.026	0.253	0.564
	LTE Band 66 (AWS)	0.920	0.026	0.253	1.199
	LTE Band 25 (PCS)	0.719	0.026	0.253	0.998
	LTE Band 2 (PCS)	0.924	0.026	0.253	1.203
	LTE Band 30	0.587	0.026	0.253	0.866
	LTE Band 7	0.363	0.026	0.253	0.642
	LTE Band 48	0.130	0.026	0.253	0.409
	LTE Band 41	0.342	0.026	0.253	0.621

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Body SAR	Back	0.924	0.153	0.026	0.253	1.356	Body SAR	Back	0.924	0.340	0.026	0.253	1.543
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN 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)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Body SAR	Back	0.920	0.153	0.026	0.253	1.352	Body SAR	Back	0.920	0.340	0.026	0.253	1.539

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.587	0.340	0.026	0.253	1.206

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Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn	GSM 850	0.167	0.026	0.073	0.266
	GSM 1900	0.337	0.026	0.073	0.436
	UMTS 850	0.299	0.026	0.073	0.398
	UMTS 1750	0.870	0.026	0.073	0.969
	UMTS 1900	1.005	0.026	0.073	1.104
	LTE Band 71	0.178	0.026	0.073	0.277
	LTE Band 12	0.214	0.026	0.073	0.313
	LTE Band 13	0.275	0.026	0.073	0.374
	LTE Band 14	0.252	0.026	0.073	0.351
	LTE Band 26 (Cell)	0.306	0.026	0.073	0.405
	LTE Band 5 (Cell)	0.285	0.026	0.073	0.384
	LTE Band 66 (AWS)	0.920	0.026	0.073	1.019
	LTE Band 25 (PCS)	0.719	0.026	0.073	0.818
	LTE Band 2 (PCS)	0.924	0.026	0.073	1.023
	LTE Band 30	0.587	0.026	0.073	0.686
	LTE Band 7	0.363	0.026	0.073	0.462
	LTE Band 48	0.130	0.026	0.073	0.229
	LTE Band 41	0.342	0.026	0.073	0.441

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN 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
Body SAR	Back	0.924	0.153	0.026	0.073	1.176	Body SAR	Back	0.924	0.340	0.026	0.073	1.363
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN 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
Body SAR	Back	0.920	0.153	0.026	0.073	1.172	Body SAR	Back	0.920	0.340	0.026	0.073	1.359
		Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)					
				1	2	3	4	1+2+3+4					
		Body SAR	Back	0.587	0.340	0.026	0.073	1.026					

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Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body-Worn	GSM 850	0.167	0.026	0.253	0.073	0.519
	GSM 1900	0.337	0.026	0.253	0.073	0.689
	UMTS 850	0.299	0.026	0.253	0.073	0.651
	UMTS 1750	0.870	0.026	0.253	0.073	1.222
	UMTS 1900	1.005	0.026	0.253	0.073	1.357
	LTE Band 71	0.178	0.026	0.253	0.073	0.530
	LTE Band 12	0.214	0.026	0.253	0.073	0.566
	LTE Band 13	0.275	0.026	0.253	0.073	0.627
	LTE Band 14	0.252	0.026	0.253	0.073	0.604
	LTE Band 26 (Cell)	0.306	0.026	0.253	0.073	0.658
	LTE Band 5 (Cell)	0.285	0.026	0.253	0.073	0.637
	LTE Band 66 (AWS)	0.920	0.026	0.253	0.073	1.272
	LTE Band 25 (PCS)	0.719	0.026	0.253	0.073	1.071
	LTE Band 2 (PCS)	0.924	0.026	0.253	0.073	1.276
	LTE Band 30	0.587	0.026	0.253	0.073	0.939
	LTE Band 7	0.363	0.026	0.253	0.073	0.715
	LTE Band 48	0.130	0.026	0.253	0.073	0.482
	LTE Band 41	0.342	0.026	0.253	0.073	0.694

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	1	2	3	4	1+2+3+4	Body SAR	Back	1	2	3	4	1+2+3+4
		0.924	0.153	0.026	0.109	1.212			0.924	0.340	0.026	0.109	1.399
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 16 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)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
Body SAR	Back	1	2	3	4	1+2+3+4	Body SAR	Back	1	2	3	4	1+2+3+4
		0.920	0.153	0.026	0.109	1.208			0.920	0.340	0.026	0.109	1.395

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.587	0.340	0.026	0.109	1.062

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12.5 Hotspot SAR Simultaneous Transmission Analysis

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

(*) For 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.

Table 12-11
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Hotspot at 1.0 cm)

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	GPRS 850	0.429	0.346	0.081	0.775	0.510	0.856
	GPRS 1900	0.981	0.346	0.081	1.327	1.062	1.408
	UMTS 850	0.901	0.346	0.081	1.247	0.982	1.328
	UMTS 1750	0.868	0.346	0.081	1.214	0.949	1.295
	UMTS 1900	0.627	0.346	0.081	0.973	0.708	1.054
	LTE Band 71	0.295	0.346	0.081	0.641	0.376	0.722
	LTE Band 12	0.349	0.346	0.081	0.695	0.430	0.776
	LTE Band 13	0.567	0.346	0.081	0.913	0.648	0.994
	LTE Band 14	0.499	0.346	0.081	0.845	0.580	0.926
	LTE Band 26 (Cell)	0.554	0.346	0.081	0.900	0.635	0.981
	LTE Band 5 (Cell)	0.612	0.346	0.081	0.958	0.693	1.039
	LTE Band 66 (AWS)	1.313	0.346	0.081	See Table Below	1.394	See Table Below
	LTE Band 25 (PCS)	0.868	0.346	0.081	1.214	0.949	1.295
	LTE Band 2 (PCS)	0.827	0.346	0.081	1.173	0.908	1.254
	LTE Band 30	1.290	0.346	0.081	See Table Below	1.371	See Table Below
	LTE Band 7	1.026	0.346	0.081	1.372	1.107	1.453
	LTE Band 48	0.546	0.346	0.081	0.892	0.627	0.973
	LTE Band 41	0.825	0.346	0.081	1.171	0.906	1.252

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	Back	0.677	0.288	0.081	0.965	0.758	1.046
	Front	0.584	0.346*	0.081*	0.930	0.665	1.011
	Top	-	0.346	0.081*	0.346	0.081	0.427
	Bottom	1.313	-	-	1.313	1.313	1.313
	Right	0.071	-	-	0.071	0.071	0.071
	Left	0.107	0.346*	0.081*	0.453	0.188	0.534
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	Back	0.598	0.288	0.081	0.886	0.679	0.967
	Front	0.477	0.346*	0.081*	0.823	0.558	0.904
	Top	-	0.346	0.081*	0.346	0.081	0.427
	Bottom	1.290	-	-	1.290	1.290	1.290
	Right	0.032	-	-	0.032	0.032	0.032
	Left	0.077	0.346*	0.081*	0.423	0.158	0.504

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Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.480	0.231	0.288	0.999	Hotspot SAR	Back	0.480	0.732	0.288	1.500
	Front	0.356	0.168	0.346*	0.870		Front	0.356	0.446	0.346*	1.148
	Top	-	-	0.346	0.346		Top	-	-	0.346	0.346
	Bottom	0.827	0.149	-	0.976		Bottom	0.827	0.367	-	1.194
	Right	0.024	0.161	-	0.185		Right	0.024	0.237	-	0.261
	Left	0.022	0.107	0.346*	0.475		Left	0.022	0.100	0.346*	0.468
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN 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)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.420	0.231	0.288	0.939	Hotspot SAR	Back	0.420	0.732	0.288	1.440
	Front	0.368	0.168	0.346*	0.882		Front	0.368	0.446	0.346*	1.160
	Top	-	-	0.346	0.346		Top	-	-	0.346	0.346
	Bottom	0.927	0.149	-	1.076		Bottom	0.927	0.367	-	1.294
	Right	0.057	0.161	-	0.218		Right	0.057	0.237	-	0.294
	Left	0.061	0.107	0.346*	0.514		Left	0.061	0.100	0.346*	0.507

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.559	0.732	0.288	1.579
	Front	0.432	0.446	0.346*	1.224
	Top	-	-	0.346	0.346
	Bottom	1.176	0.367	-	1.543
	Right	0.028	0.237	-	0.265
	Left	0.071	0.100	0.346*	0.517

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.480	0.231	0.081	0.792	Hotspot SAR	Back	0.480	0.732	0.081	1.293
	Front	0.356	0.168	0.081*	0.605		Front	0.356	0.446	0.081*	0.883
	Top	-	-	0.081*	0.081		Top	-	-	0.081*	0.081
	Bottom	0.827	0.149	-	0.976		Bottom	0.827	0.367	-	1.194
	Right	0.024	0.161	-	0.185		Right	0.024	0.237	-	0.261
	Left	0.022	0.107	0.081*	0.210		Left	0.022	0.100	0.081*	0.203
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN Ant 2 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 WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.420	0.231	0.081	0.732	Hotspot SAR	Back	0.420	0.732	0.081	1.233
	Front	0.368	0.168	0.081*	0.617		Front	0.368	0.446	0.081*	0.895
	Top	-	-	0.081*	0.081		Top	-	-	0.081*	0.081
	Bottom	0.927	0.149	-	1.076		Bottom	0.927	0.367	-	1.294
	Right	0.057	0.161	-	0.218		Right	0.057	0.237	-	0.294
	Left	0.061	0.107	0.081*	0.249		Left	0.061	0.100	0.081*	0.242

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.559	0.732	0.081	1.372
	Front	0.432	0.446	0.081*	0.959
	Top	-	-	0.081*	0.081
	Bottom	1.176	0.367	-	1.543
	Right	0.028	0.237	-	0.265
	Left	0.071	0.100	0.081*	0.252

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Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) 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			1	2	3	1+2+3
Hotspot SAR	Back	0.480	0.231	0.142*	0.853	Hotspot SAR	Back	0.480	0.732	0.142*	1.354
	Front	0.356	0.168	0.142*	0.666		Front	0.356	0.446	0.142*	0.944
	Top	-	-	0.142	0.142		Top	-	-	0.142	0.142
	Bottom	0.827	0.149	-	0.976		Bottom	0.827	0.367	-	1.194
	Right	0.024	0.161	-	0.185		Right	0.024	0.237	-	0.261
	Left	0.022	0.107	0.142*	0.271		Left	0.022	0.100	0.142*	0.264
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 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)	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			1	2	3	1+2+3
Hotspot SAR	Back	0.420	0.231	0.142*	0.793	Hotspot SAR	Back	0.420	0.732	0.142*	1.294
	Front	0.368	0.168	0.142*	0.678		Front	0.368	0.446	0.142*	0.956
	Top	-	-	0.142	0.142		Top	-	-	0.142	0.142
	Bottom	0.927	0.149	-	1.076		Bottom	0.927	0.367	-	1.294
	Right	0.057	0.161	-	0.218		Right	0.057	0.237	-	0.294
	Left	0.061	0.107	0.142*	0.310		Left	0.061	0.100	0.142*	0.303
	Simult Tx	Configuration	LTE Band 30 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	Back		0.559	0.732	0.142*	1.433					
	Front		0.432	0.446	0.142*	1.020					
	Top		-	-	0.142	0.142					
	Bottom		1.176	0.367	-	1.543					
	Right		0.028	0.237	-	0.265					
	Left		0.071	0.100	0.142*	0.313					

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

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	GPRS 850	0.429	0.341	0.085	0.770	0.514	0.855
	GPRS 1900	0.981	0.341	0.085	1.322	1.066	1.407
	UMTS 850	0.901	0.341	0.085	1.242	0.986	1.327
	UMTS 1750	0.868	0.341	0.085	1.209	0.953	1.294
	UMTS 1900	0.627	0.341	0.085	0.968	0.712	1.053
	LTE Band 71	0.295	0.341	0.085	0.636	0.380	0.721
	LTE Band 12	0.349	0.341	0.085	0.690	0.434	0.775
	LTE Band 13	0.567	0.341	0.085	0.908	0.652	0.993
	LTE Band 14	0.499	0.341	0.085	0.840	0.584	0.925
	LTE Band 26 (Cell)	0.554	0.341	0.085	0.895	0.639	0.980
	LTE Band 5 (Cell)	0.612	0.341	0.085	0.953	0.697	1.038
	LTE Band 66 (AWS)	1.313	0.341	0.085	See Table Below	1.398	See Table Below
	LTE Band 25 (PCS)	0.868	0.341	0.085	1.209	0.953	1.294
	LTE Band 2 (PCS)	0.827	0.341	0.085	1.168	0.912	1.253
	LTE Band 30	1.290	0.341	0.085	See Table Below	1.375	See Table Below
	LTE Band 7	1.026	0.341	0.085	1.367	1.111	1.452
	LTE Band 48	0.546	0.341	0.085	0.887	0.631	0.972
	LTE Band 41	0.825	0.341	0.085	1.166	0.910	1.251

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	Back	0.677	0.341	0.085	1.018	0.762	1.103
	Front	0.584	0.341*	0.085*	0.925	0.669	1.010
	Top	-	0.341*	0.085*	0.341	0.085	0.426
	Bottom	1.313	-	-	1.313	1.313	1.313
	Right	0.071	-	-	0.071	0.071	0.071
	Left	0.107	0.341*	0.085*	0.448	0.192	0.533
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	Back	0.598	0.341	0.085	0.939	0.683	1.024
	Front	0.477	0.341*	0.085*	0.818	0.562	0.903
	Top	-	0.341*	0.085*	0.341	0.085	0.426
	Bottom	1.290	-	-	1.290	1.290	1.290
	Right	0.032	-	-	0.032	0.032	0.032
	Left	0.077	0.341*	0.085*	0.418	0.162	0.503

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Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 1 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 1 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.480	0.231	0.133	0.844	Hotspot SAR	Back	0.480	0.732	0.133	1.345
	Front	0.356	0.168	0.133*	0.657		Front	0.356	0.446	0.133*	0.935
	Top	-	-	0.133*	0.133		Top	-	-	0.133*	0.133
	Bottom	0.827	0.149	-	0.976		Bottom	0.827	0.367	-	1.194
	Right	0.024	0.161	-	0.185		Right	0.024	0.237	-	0.261
	Left	0.022	0.107	0.133*	0.262		Left	0.022	0.100	0.133*	0.255
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 1 at 13 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)	5 GHz WLAN Ant 1 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.420	0.231	0.133	0.784	Hotspot SAR	Back	0.420	0.732	0.133	1.285
	Front	0.368	0.168	0.133*	0.669		Front	0.368	0.446	0.133*	0.947
	Top	-	-	0.133*	0.133		Top	-	-	0.133*	0.133
	Bottom	0.927	0.149	-	1.076		Bottom	0.927	0.367	-	1.294
	Right	0.057	0.161	-	0.218		Right	0.057	0.237	-	0.294
	Left	0.061	0.107	0.133*	0.301		Left	0.061	0.100	0.133*	0.294

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 1 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.559	0.732	0.133	1.424
	Front	0.432	0.446	0.133*	1.011
	Top	-	-	0.133*	0.133
	Bottom	1.176	0.367	-	1.543
	Right	0.028	0.237	-	0.265
	Left	0.071	0.100	0.133*	0.304

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.480	0.231	0.030	0.741	Hotspot SAR	Back	0.480	0.732	0.030	1.242
	Front	0.356	0.168	0.030*	0.554		Front	0.356	0.446	0.030*	0.832
	Top	-	-	0.030*	0.030		Top	-	-	0.030*	0.030
	Bottom	0.827	0.149	-	0.976		Bottom	0.827	0.367	-	1.194
	Right	0.024	0.161	-	0.185		Right	0.024	0.237	-	0.261
	Left	0.022	0.107	0.030*	0.159		Left	0.022	0.100	0.030*	0.152
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 2 at 13 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)	5 GHz WLAN Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.420	0.231	0.030	0.681	Hotspot SAR	Back	0.420	0.732	0.030	1.182
	Front	0.368	0.168	0.030*	0.566		Front	0.368	0.446	0.030*	0.844
	Top	-	-	0.030*	0.030		Top	-	-	0.030*	0.030
	Bottom	0.927	0.149	-	1.076		Bottom	0.927	0.367	-	1.294
	Right	0.057	0.161	-	0.218		Right	0.057	0.237	-	0.294
	Left	0.061	0.107	0.030*	0.198		Left	0.061	0.100	0.030*	0.191

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.559	0.732	0.030	1.321
	Front	0.432	0.446	0.030*	0.908
	Top	-	-	0.030*	0.030
	Bottom	1.176	0.367	-	1.543
	Right	0.028	0.237	-	0.265
	Left	0.071	0.100	0.030*	0.201

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Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.480	0.231	0.165	0.876	Hotspot SAR	Back	0.480	0.732	0.165	1.377
	Front	0.356	0.168	0.165*	0.689		Front	0.356	0.446	0.165*	0.967
	Top	-	-	0.165*	0.165		Top	-	-	0.165*	0.165
	Bottom	0.827	0.149	-	0.976		Bottom	0.827	0.367	-	1.194
	Right	0.024	0.161	-	0.185		Right	0.024	0.237	-	0.261
	Left	0.022	0.107	0.165*	0.294		Left	0.022	0.100	0.165*	0.287
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	5 GHz WLAN MIMO at 16 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)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.420	0.231	0.165	0.816	Hotspot SAR	Back	0.420	0.732	0.165	1.317
	Front	0.368	0.168	0.165*	0.701		Front	0.368	0.446	0.165*	0.979
	Top	-	-	0.165*	0.165		Top	-	-	0.165*	0.165
	Bottom	0.927	0.149	-	1.076		Bottom	0.927	0.367	-	1.294
	Right	0.057	0.161	-	0.218		Right	0.057	0.237	-	0.294
	Left	0.061	0.107	0.165*	0.333		Left	0.061	0.100	0.165*	0.326
		Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)				
				1	2	3	1+2+3				
		Hotspot SAR	Back	0.559	0.732	0.165	1.456				
			Front	0.432	0.446	0.165*	1.043				
			Top	-	-	0.165*	0.165				
			Bottom	1.176	0.367	-	1.543				
			Right	0.028	0.237	-	0.265				
			Left	0.071	0.100	0.165*	0.336				

Table 12-13
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Hotspot at 1.0 cm)

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	GPRS 850	0.429	0.097	0.165	0.691
	GPRS 1900	0.981	0.097	0.165	1.243
	UMTS 850	0.901	0.097	0.165	1.163
	UMTS 1750	0.868	0.097	0.165	1.130
	UMTS 1900	0.627	0.097	0.165	0.889
	LTE Band 71	0.295	0.097	0.165	0.557
	LTE Band 12	0.349	0.097	0.165	0.611
	LTE Band 13	0.567	0.097	0.165	0.829
	LTE Band 14	0.499	0.097	0.165	0.761
	LTE Band 26 (Cell)	0.554	0.097	0.165	0.816
	LTE Band 5 (Cell)	0.612	0.097	0.165	0.874
	LTE Band 66 (AWS)	1.313	0.097	0.165	1.575
	LTE Band 25 (PCS)	0.868	0.097	0.165	1.130
	LTE Band 2 (PCS)	0.827	0.097	0.165	1.089
	LTE Band 30	1.290	0.097	0.165	1.552
	LTE Band 7	1.026	0.097	0.165	1.288
	LTE Band 48	0.546	0.097	0.165	0.808
	LTE Band 41	0.825	0.097	0.165	1.087

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.480	0.231	0.097*	0.165	0.973	Hotspot SAR	Back	0.480	0.732	0.097*	0.165	1.474
	Front	0.356	0.168	0.097*	0.165*	0.786		Front	0.356	0.446	0.097*	0.165*	1.064
	Top	-	-	0.097	0.165*	0.262		Top	-	-	0.097	0.165*	0.262
	Bottom	0.827	0.149	-	-	0.976		Bottom	0.827	0.367	-	-	1.194
	Right	0.024	0.161	-	-	0.185		Right	0.024	0.237	-	-	0.261
	Left	0.022	0.107	0.097*	0.165*	0.391		Left	0.022	0.100	0.097*	0.165*	0.384
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 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 WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.420	0.231	0.097*	0.165	0.913	Hotspot SAR	Back	0.420	0.732	0.097*	0.165	1.414
	Front	0.368	0.168	0.097*	0.165*	0.798		Front	0.368	0.446	0.097*	0.165*	1.076
	Top	-	-	0.097	0.165*	0.262		Top	-	-	0.097	0.165*	0.262
	Bottom	0.927	0.149	-	-	1.076		Bottom	0.927	0.367	-	-	1.294
	Right	0.057	0.161	-	-	0.218		Right	0.057	0.237	-	-	0.294
	Left	0.061	0.107	0.097*	0.165*	0.430		Left	0.061	0.100	0.097*	0.165*	0.423

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.559	0.732	0.097*	0.165	1.553
	Front	0.432	0.446	0.097*	0.165*	1.140
	Top	-	-	0.097	0.165*	0.262
	Bottom	1.176	0.367	-	-	1.543
	Right	0.028	0.237	-	-	0.265
	Left	0.071	0.100	0.097*	0.165*	0.433

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Table 12-14
Simultaneous Transmission Scenario with Bluetooth (Hotspot at 1.0 cm)

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	GPRS 850	0.429	0.069	0.498
	GPRS 1900	0.981	0.069	1.050
	UMTS 850	0.901	0.069	0.970
	UMTS 1750	0.868	0.069	0.937
	UMTS 1900	0.627	0.069	0.696
	LTE Band 71	0.295	0.069	0.364
	LTE Band 12	0.349	0.069	0.418
	LTE Band 13	0.567	0.069	0.636
	LTE Band 14	0.499	0.069	0.568
	LTE Band 26 (Cell)	0.554	0.069	0.623
	LTE Band 5 (Cell)	0.612	0.069	0.681
	LTE Band 66 (AWS)	1.313	0.069	1.382
	LTE Band 25 (PCS)	0.868	0.069	0.937
	LTE Band 2 (PCS)	0.827	0.069	0.896
	LTE Band 30	1.290	0.069	1.359
	LTE Band 7	1.026	0.069	1.095
	LTE Band 48	0.546	0.069	0.615
	LTE Band 41	0.825	0.069	0.894

Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.480	0.231	0.062	0.767	Hotspot SAR	Back	0.480	0.732	0.062	1.274
	Front	0.356	0.168	0.026	0.546		Front	0.356	0.446	0.026	0.828
	Top	-	-	0.069	0.069		Top	-	-	0.069	0.069
	Bottom	0.827	0.149	-	0.972		Bottom	0.827	0.367	-	1.194
	Right	0.024	0.161	-	0.181		Right	0.024	0.237	-	0.261
	Left	0.022	0.107	0.035	0.161		Left	0.022	0.100	0.035	0.157
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.420	0.231	0.062	0.707	Hotspot SAR	Back	0.420	0.732	0.062	1.214
	Front	0.368	0.168	0.026	0.558		Front	0.368	0.446	0.026	0.840
	Top	-	-	0.069	0.069		Top	-	-	0.069	0.069
	Bottom	0.927	0.149	-	1.072		Bottom	0.927	0.367	-	1.294
	Right	0.057	0.161	-	0.214		Right	0.057	0.237	-	0.294
	Left	0.061	0.107	0.035	0.200		Left	0.061	0.100	0.035	0.196
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)						
		1	2	3	1+2+3						
Hotspot SAR	Back	0.559	0.732	0.062	1.353						
	Front	0.432	0.446	0.026	0.904						
	Top	-	-	0.069	0.069						
	Bottom	1.176	0.367	-	1.543						
	Right	0.028	0.237	-	0.265						
	Left	0.071	0.100	0.035	0.204						

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Table 12-15
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Hotspot at 1.0 cm)

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	GPRS 850	0.429	0.069	0.341	0.839
	GPRS 1900	0.981	0.069	0.341	1.391
	UMTS 850	0.901	0.069	0.341	1.311
	UMTS 1750	0.868	0.069	0.341	1.278
	UMTS 1900	0.627	0.069	0.341	1.037
	LTE Band 71	0.295	0.069	0.341	0.705
	LTE Band 12	0.349	0.069	0.341	0.759
	LTE Band 13	0.567	0.069	0.341	0.977
	LTE Band 14	0.499	0.069	0.341	0.909
	LTE Band 26 (Cell)	0.554	0.069	0.341	0.964
	LTE Band 5 (Cell)	0.612	0.069	0.341	1.022
	LTE Band 66 (AWS)	1.313	0.069	0.341	See Table Below
	LTE Band 25 (PCS)	0.868	0.069	0.341	1.278
	LTE Band 2 (PCS)	0.827	0.069	0.341	1.237
	LTE Band 30	1.290	0.069	0.341	See Table Below
	LTE Band 7	1.026	0.069	0.341	1.436
	LTE Band 48	0.546	0.069	0.341	0.956
	LTE Band 41	0.825	0.069	0.341	1.235

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.677	0.062	0.341	1.080	Hotspot SAR	Back	0.598	0.062	0.341	1.001
	Front	0.584	0.026	0.341*	0.951		Front	0.477	0.026	0.341*	0.844
	Top	-	0.069	0.341*	0.410		Top	-	0.069	0.341*	0.410
	Bottom	1.313	-	-	1.313		Bottom	1.290	-	-	1.290
	Right	0.071	-	-	0.071		Right	0.032	-	-	0.032
	Left	0.107	0.035	0.341*	0.483		Left	0.077	0.035	0.341*	0.453

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Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 at 13dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 at 13dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.480	0.231	0.062	0.133	0.906	Hotspot SAR	Back	0.480	0.732	0.062	0.133	1.407
	Front	0.356	0.168	0.026	0.133*	0.683		Front	0.356	0.446	0.026	0.133*	0.961
	Top	-	-	0.069	0.133*	0.202		Top	-	-	0.069	0.133*	0.202
	Bottom	0.827	0.149	-	-	0.976		Bottom	0.827	0.367	-	-	1.194
	Right	0.024	0.161	-	-	0.185		Right	0.024	0.237	-	-	0.261
	Left	0.022	0.107	0.035	0.133*	0.297		Left	0.022	0.100	0.035	0.133*	0.290
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 at 13dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 at 13dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.420	0.231	0.062	0.133	0.846	Hotspot SAR	Back	0.420	0.732	0.062	0.133	1.347
	Front	0.368	0.168	0.026	0.133*	0.695		Front	0.368	0.446	0.026	0.133*	0.973
	Top	-	-	0.069	0.133*	0.202		Top	-	-	0.069	0.133*	0.202
	Bottom	0.927	0.149	-	-	1.076		Bottom	0.927	0.367	-	-	1.294
	Right	0.057	0.161	-	-	0.218		Right	0.057	0.237	-	-	0.294
	Left	0.061	0.107	0.035	0.133*	0.336		Left	0.061	0.100	0.035	0.133*	0.329
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 at 13dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 at 13dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.559	0.732	0.062	0.133	1.486	Hotspot SAR	Back	0.559	0.732	0.062	0.133	1.486
	Front	0.432	0.446	0.026	0.133*	1.037		Front	0.432	0.446	0.026	0.133*	1.037
	Top	-	-	0.069	0.133*	0.202		Top	-	-	0.069	0.133*	0.202
	Bottom	1.176	0.367	-	-	1.543		Bottom	1.176	0.367	-	-	1.543
	Right	0.028	0.237	-	-	0.265		Right	0.028	0.237	-	-	0.265
	Left	0.071	0.100	0.035	0.133*	0.339		Left	0.071	0.100	0.035	0.133*	0.339

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	GPRS 850	0.429	0.069	0.085	0.583
	GPRS 1900	0.981	0.069	0.085	1.135
	UMTS 850	0.901	0.069	0.085	1.055
	UMTS 1750	0.868	0.069	0.085	1.022
	UMTS 1900	0.627	0.069	0.085	0.781
	LTE Band 71	0.295	0.069	0.085	0.449
	LTE Band 12	0.349	0.069	0.085	0.503
	LTE Band 13	0.567	0.069	0.085	0.721
	LTE Band 14	0.499	0.069	0.085	0.653
	LTE Band 26 (Cell)	0.554	0.069	0.085	0.708
	LTE Band 5 (Cell)	0.612	0.069	0.085	0.766
	LTE Band 66 (AWS)	1.313	0.069	0.085	1.467
	LTE Band 25 (PCS)	0.868	0.069	0.085	1.022
	LTE Band 2 (PCS)	0.827	0.069	0.085	0.981
	LTE Band 30	1.290	0.069	0.085	1.444
	LTE Band 7	1.026	0.069	0.085	1.180
	LTE Band 48	0.546	0.069	0.085	0.700
	LTE Band 41	0.825	0.069	0.085	0.979

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Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.480	0.231	0.062	0.030	0.803	Hotspot SAR	Back	0.480	0.732	0.062	0.030	1.304
	Front	0.356	0.168	0.026	0.030*	0.580		Front	0.356	0.446	0.026	0.030*	0.858
	Top	-	-	0.069	0.030*	0.099		Top	-	-	0.069	0.030*	0.099
	Bottom	0.827	0.149	-	-	0.976		Bottom	0.827	0.367	-	-	1.194
	Right	0.024	0.161	-	-	0.185		Right	0.024	0.237	-	-	0.261
	Left	0.022	0.107	0.035	0.030*	0.194		Left	0.022	0.100	0.035	0.030*	0.187
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 at 13 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)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.420	0.231	0.062	0.030	0.743	Hotspot SAR	Back	0.420	0.732	0.062	0.030	1.244
	Front	0.368	0.168	0.026	0.030*	0.592		Front	0.368	0.446	0.026	0.030*	0.870
	Top	-	-	0.069	0.030*	0.099		Top	-	-	0.069	0.030*	0.099
	Bottom	0.927	0.149	-	-	1.076		Bottom	0.927	0.367	-	-	1.294
	Right	0.057	0.161	-	-	0.218		Right	0.057	0.237	-	-	0.294
	Left	0.061	0.107	0.035	0.030*	0.233		Left	0.061	0.100	0.035	0.030*	0.226
Simult Tx			Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)					
				1	2	3	4	1+2+3+4					
Hotspot SAR			Back	0.559	0.732	0.062	0.030	1.383					
			Front	0.432	0.446	0.026	0.030*	0.934					
			Top	-	-	0.069	0.030*	0.099					
			Bottom	1.176	0.367	-	-	1.543					
			Right	0.028	0.237	-	-	0.265					
			Left	0.071	0.100	0.035	0.030*	0.236					

Exposure Condition	Mode	2G/3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	GPRS 850	0.429	0.069	0.571	1.069
	GPRS 1900	0.981	0.069	0.571	See Table Below
	UMTS 850	0.901	0.069	0.571	1.541
	UMTS 1750	0.868	0.069	0.571	1.508
	UMTS 1900	0.627	0.069	0.571	1.267
	LTE Band 71	0.295	0.069	0.571	0.935
	LTE Band 12	0.349	0.069	0.571	0.989
	LTE Band 13	0.567	0.069	0.571	1.207
	LTE Band 14	0.499	0.069	0.571	1.139
	LTE Band 26 (Cell)	0.554	0.069	0.571	1.194
	LTE Band 5 (Cell)	0.612	0.069	0.571	1.252
	LTE Band 66 (AWS)	1.313	0.069	0.571	See Table Below
	LTE Band 25 (PCS)	0.868	0.069	0.571	1.508
	LTE Band 2 (PCS)	0.827	0.069	0.571	1.467
	LTE Band 30	1.290	0.069	0.571	See Table Below
	LTE Band 7	1.026	0.069	0.571	See Table Below
	LTE Band 48	0.546	0.069	0.571	1.186
	LTE Band 41	0.825	0.069	0.571	1.465

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Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3			1	2	3	1+2+3		
Hotspot SAR	Back	0.432	0.062	0.571	1.065	Hotspot SAR	Back	0.677	0.062	0.571	1.310		
	Front	0.345	0.026	0.571*	0.942		Front	0.584	0.026	0.571*	1.181		
	Top	-	0.069	0.345	0.414		Top	-	0.069	0.345	0.414		
	Bottom	0.981	-	-	0.981		Bottom	1.313	-	-	1.313		
	Right	0.042	-	-	0.042		Right	0.071	-	-	0.071		
	Left	0.054	0.035	0.571*	0.660		Left	0.107	0.035	0.571*	0.713		
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3			1	2	3	1+2+3		
Hotspot SAR	Back	0.598	0.062	0.571	1.231	Hotspot SAR	Back	0.576	0.062	0.571	1.209		
	Front	0.477	0.026	0.571*	1.074		Front	0.465	0.026	0.571*	1.062		
	Top	-	0.069	0.345	0.414		Top	-	0.069	0.345	0.414		
	Bottom	1.290	-	-	1.290		Bottom	1.026	-	-	1.026		
	Right	0.032	-	-	0.032		Right	0.085	-	-	0.085		
	Left	0.077	0.035	0.571*	0.683		Left	0.185	0.035	0.571*	0.791		
Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 2 (PCS) SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.480	0.231	0.062	0.165	0.938	Hotspot SAR	Back	0.480	0.732	0.062	0.165	1.439
	Front	0.356	0.168	0.026	0.165*	0.715		Front	0.356	0.446	0.026	0.165*	0.993
	Top	-	-	0.069	0.165*	0.234		Top	-	-	0.069	0.165*	0.234
	Bottom	0.827	0.149	-	-	0.976		Bottom	0.827	0.367	-	-	1.194
	Right	0.024	0.161	-	-	0.185		Right	0.024	0.237	-	-	0.261
	Left	0.022	0.107	0.035	0.165*	0.329		Left	0.022	0.100	0.035	0.165*	0.322
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	NR Band n71 SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 16 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)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.420	0.231	0.062	0.165	0.878	Hotspot SAR	Back	0.420	0.732	0.062	0.165	1.379
	Front	0.368	0.168	0.026	0.165*	0.727		Front	0.368	0.446	0.026	0.165*	1.005
	Top	-	-	0.069	0.165*	0.234		Top	-	-	0.069	0.165*	0.234
	Bottom	0.927	0.149	-	-	1.076		Bottom	0.927	0.367	-	-	1.294
	Right	0.057	0.161	-	-	0.218		Right	0.057	0.237	-	-	0.294
	Left	0.061	0.107	0.035	0.165*	0.368		Left	0.061	0.100	0.035	0.165*	0.361
	Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	NR Band n5 (Cell.) SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)						
			1	2	3	4	1+2+3+4						
	Hotspot SAR	Back	0.559	0.732	0.062	0.165	1.518						
		Front	0.432	0.446	0.026	0.165*	1.069						
		Top	-	-	0.069	0.165*	0.234						
		Bottom	1.176	0.367	-	-	1.543						
		Right	0.028	0.237	-	-	0.265						
		Left	0.071	0.100	0.035	0.165*	0.371						

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12.6 Phablet Simultaneous Transmission Analysis

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

(*) For 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.

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 12-16
Simultaneous Transmission Scenario with 5 GHz WLAN (Phablet)

Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Phablet SAR	Back	-	1.077	1.109	1.077	1.109
	Front	-	0.299	1.109*	0.299	1.109
	Top	-	1.077*	1.109*	1.077	1.109
	Bottom	3.264	-	-	3.264	3.264
	Right	-	-	-	-	-
	Left	-	0.614	0.043	0.614	0.043
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Phablet SAR	Back	1.513	1.077	1.109	2.590	2.622
	Front	1.548	0.299	1.109*	1.847	2.657
	Top	-	1.077*	1.109*	1.077	1.109
	Bottom	2.049	-	-	2.049	2.049
	Right	0.351	-	-	0.351	0.351
	Left	0.536	0.614	0.043	1.150	0.579
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Phablet SAR	Back	1.954	1.077	1.109	3.031	3.063
	Front	1.752	0.299	1.109*	2.051	2.861
	Top	-	1.077*	1.109*	1.077	1.109
	Bottom	2.054	-	-	2.054	2.054
	Right	0.429	-	-	0.429	0.429
	Left	0.773	0.614	0.043	1.387	0.816
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Phablet SAR	Back	1.995	1.077	1.109	3.072	3.104
	Front	1.905	0.299	1.109*	2.204	3.014
	Top	-	1.077*	1.109*	1.077	1.109
	Bottom	3.277	-	-	3.277	3.277
	Right	0.344	-	-	0.344	0.344
	Left	0.592	0.614	0.043	1.206	0.635
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Phablet SAR	Back	1.901	1.077	1.109	2.978	3.010
	Front	1.726	0.299	1.109*	2.025	2.835
	Top	-	1.077*	1.109*	1.077	1.109
	Bottom	2.558	-	-	2.558	2.558
	Right	0.232	-	-	0.232	0.232
	Left	0.345	0.614	0.043	0.959	0.388
Simult Tx	Configuration	LTE Band 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Phablet SAR	Back	1.696	1.077	1.109	2.773	2.805
	Front	1.532	0.299	1.109*	1.831	2.641
	Top	-	1.077*	1.109*	1.077	1.109
	Bottom	2.477	-	-	2.477	2.477
	Right	0.186	-	-	0.186	0.186
	Left	0.254	0.614	0.043	0.868	0.297
Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Phablet SAR	Back	1.839	1.077	1.109	2.916	2.948
	Front	1.394	0.299	1.109*	1.693	2.503
	Top	-	1.077*	1.109*	1.077	1.109
	Bottom	2.444	-	-	2.444	2.444
	Right	0.288	-	-	0.288	0.288
	Left	0.966	0.614	0.043	1.580	1.009

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Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Phablet SAR	Back	-	1.077	1.109	1.077	1.109
	Front	-	0.299	1.109*	0.299	1.109
	Top	-	1.077*	1.109*	1.077	1.109
	Bottom	2.763	-	-	2.763	2.763
	Right	-	-	-	-	-
	Left	-	0.614	0.043	0.614	0.043

Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Phablet SAR	Back	-	2.136	2.136	Phablet SAR	Back	1.513	2.136	3.649
	Front	-	0.389	0.389		Front	1.548	0.389	1.937
	Top	-	2.136*	2.136		Top	-	2.136*	2.136
	Bottom	3.264	-	3.264		Bottom	2.049	-	2.049
	Right	-	-	-		Right	0.351	-	0.351
	Left	-	0.624	0.624		Left	0.536	0.624	1.160

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR
		1	2	1+2	1+2			1	2	1+2	1+2
Phablet SAR	Back	1.954	2.136	See Note 1	0.06	Phablet SAR	Back	1.995	2.136	See Note 1	0.06
	Front	1.752	0.389	2.141	N/A		Front	1.905	0.389	2.294	N/A
	Top	-	2.136*	2.136	N/A		Top	-	2.136*	2.136	N/A
	Bottom	2.054	-	2.054	N/A		Bottom	3.277	-	3.277	N/A
	Right	0.429	-	0.429	N/A		Right	0.344	-	0.344	N/A
	Left	0.773	0.624	1.397	N/A		Left	0.592	0.624	1.216	N/A

Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2	1+2			1	2	1+2
Phablet SAR	Back	1.901	2.136	See Note 1	0.06	Phablet SAR	Back	1.696	2.136	3.832
	Front	1.726	0.389	2.115	N/A		Front	1.532	0.389	1.921
	Top	-	2.136*	2.136	N/A		Top	-	2.136*	2.136
	Bottom	2.558	-	2.558	N/A		Bottom	2.477	-	2.477
	Right	0.232	-	0.232	N/A		Right	0.186	-	0.186
	Left	0.345	0.624	0.969	N/A		Left	0.254	0.624	0.878
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2	1+2			1	2	1+2
Phablet SAR	Back	1.980	2.136	See Note 1	0.06	Phablet SAR	Back	1.839	2.136	3.975
	Front	1.550	0.389	1.939	N/A		Front	1.394	0.389	1.783
	Top	-	2.136*	2.136	N/A		Top	-	2.136*	2.136
	Bottom	2.340	-	2.340	N/A		Bottom	2.444	-	2.444
	Right	0.174	-	0.174	N/A		Right	0.288	-	0.288
	Left	0.436	0.624	1.060	N/A		Left	0.966	0.624	1.590

Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Phablet SAR	Back	-	2.136	2.136
	Front	-	0.389	0.389
	Top	-	2.136*	2.136
	Bottom	2.763	-	2.763
	Right	-	-	-
	Left	-	0.624	0.624

Notes:

- No evaluation was performed to determine the aggregate 10g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.10 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

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12.7 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.

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

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

12.7.1 Back Side SPLSR Evaluation and Analysis

Table 12-17
Peak SAR Locations for Body Back Side

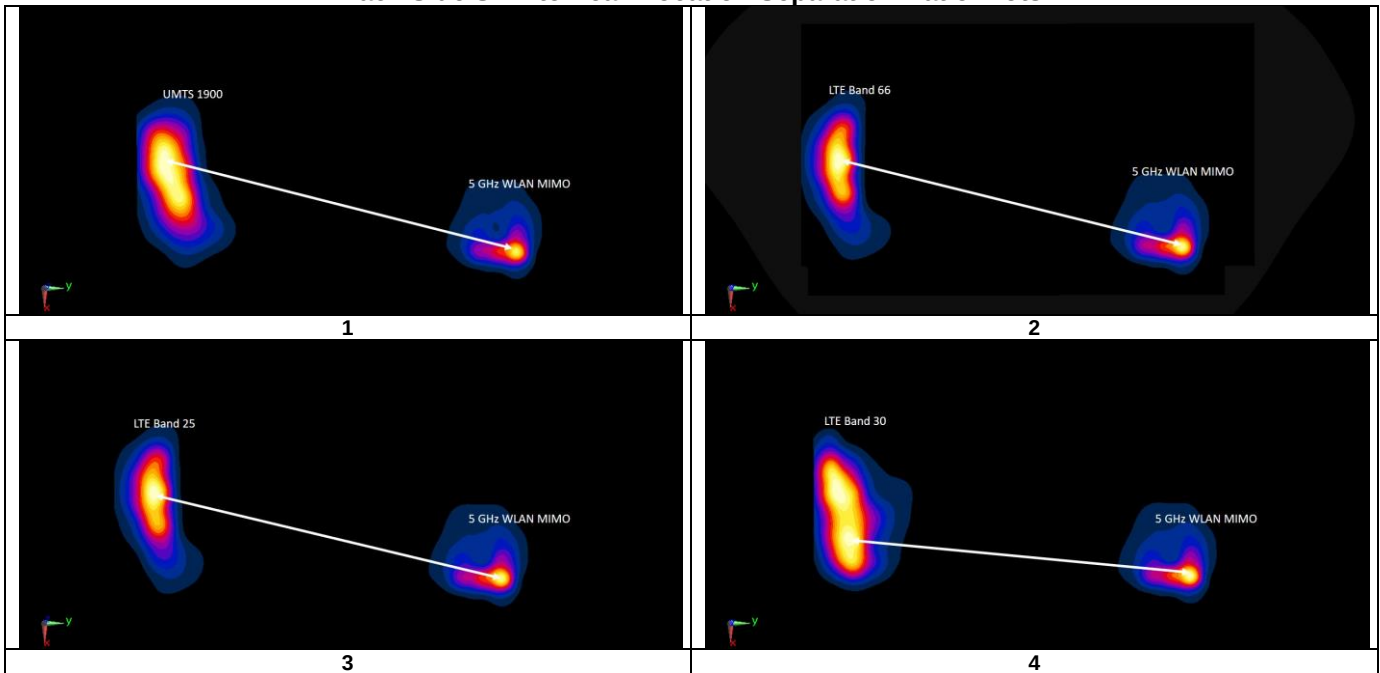
Mode/Band	x (mm)	y (mm)
5 GHz WLAN MIMO	11.00	60.00
UMTS 1900	-28.00	-82.50
LTE Band 66 (AWS)	-23.50	-79.50
LTE Band 25 (PCS)	-31.50	-78.00
LTE Band 30	-4.60	-79.20

Table 12-18
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	5 GHz WLAN MIMO	1.954	2.136	4.09	147.74	0.06	1
LTE Band 66 (AWS)	5 GHz WLAN MIMO	1.995	2.136	4.131	143.70	0.06	2
LTE Band 25 (PCS)	5 GHz WLAN MIMO	1.901	2.136	4.037	144.40	0.06	3
LTE Band 30	5 GHz WLAN MIMO	1.980	2.136	4.116	140.07	0.06	4

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Table 12-19
Back Side SAR to Peak Location Separation Ratio Plots



12.8 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 1528- 2013 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
Body 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)	
1900	1907.60	9538	UMTS 1900	RMC	back	15 mm	0.893	0.861	1.04	N/A	N/A	N/A	N/A
1750	1770.00	132572	LTE Band 66 (AWS), 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	bottom	10 mm	1.200	1.090	1.10	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	bottom	10 mm	1.140	1.080	1.06	N/A	N/A	N/A	N/A
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 13-2
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	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	1850.20	512	GSM 1900	GPRS	bottom	0 mm	2.660	2.600	1.02	N/A	N/A	N/A	N/A
1750	1720.00	132072	LTE Band 66 (AWS), 20 MHz Bandwidth	QPSK, 50 RB, 50 RB Offset	bottom	0 mm	2.920	2.840	1.03	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 25 RB, 12 RB Offset	bottom	0 mm	2.340	2.330	1.00	N/A	N/A	N/A	N/A
2600	2593.00	40620	LTE Band 41, 20 MHz Bandwidth	QPSK, 1 RB, 50 RB Offset	bottom	0 mm	2.320	2.310	1.00	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Phablet 4.0 W/kg (mW/g) averaged over 10 grams							

13.2 Measurement Uncertainty

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

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14 ADDITIONAL TESTING PER FCC GUIDANCE

14.1 Tuner Testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 11 represented the appropriate SAR test conditions. 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. Per FCC Guidance, during NR testing the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency. 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 60 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 60 states.

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

Table 14-1
UMTS Supplemental Head SAR Data

Supplemental Head SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	836.6	Frequency (MHz)	1732.4	Frequency (MHz)	1880.0
Channel	4183	Channel	1412	Channel	9400
Measured 1g SAR (W/kg)	0.174	Measured 1g SAR (W/kg)	0.144	Measured 1g SAR (W/kg)	0.139
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.190	Auto-tune (State 23)	0.184	Auto-tune (State 0)	0.174
Default (State 0)	0.188	Default (State 0)	0.112	Default (State 0)	0.169
State 3	0.181	State 8	0.092	State 2	0.168
State 7	0.122	State 14	0.076	State 11	0.078
State 10	0.052	State 22	0.159	State 33	0.093
State 52	0.189	State 23	0.181	State 37	0.033
State 54	0.194	State 25	0.123	State 45	0.144

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Table 14-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data					
LTE B71		LTE B12		LTE B13	
QPSK, 20 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	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	680.5	Frequency (MHz)	707.5	Frequency (MHz)	782.0
Channel	133297	Channel	23095	Channel	23230
Measured 1g SAR (W/kg)	0.090	Measured 1g SAR (W/kg)	0.084	Measured 1g SAR (W/kg)	0.101
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.128	Auto-tune (State 0)	0.109	Auto-tune (State 42)	0.126
Default (State 1)	0.095	Default (State 0)	0.110	Default (State 0)	0.133
State 0	0.128	State 1	0.078	State 3	0.103
State 4	0.079	State 23	0.017	State 6	0.059
State 32	0.042	State 46	0.068	State 11	0.008
State 56	0.127	State 53	0.086	State 42	0.130
State 59	0.068	State 56	0.109	State 45	0.113

Supplemental Head SAR Data					
LTE B14		LTE B5		LTE B26	
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	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	793.0	Frequency (MHz)	836.5	Frequency (MHz)	831.5
Channel	23330	Channel	20525	Channel	26865
Measured 1g SAR (W/kg)	0.109	Measured 1g SAR (W/kg)	0.138	Measured 1g SAR (W/kg)	0.147
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 16)	0.131	Auto-tune (State 0)	0.175	Auto-tune (State 0)	0.183
Default (State 56)	0.119	Default (State 0)	0.176	Default (State 0)	0.190
State 2	0.097	State 1	0.164	State 7	0.096
State 5	0.077	State 2	0.159	State 20	0.127
State 15	0.136	State 9	0.055	State 23	0.048
State 16	0.133	State 34	0.063	State 49	0.052
State 53	0.131	State 56	0.175	State 58	0.175

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Supplemental Head SAR Data					
LTE B66/4		LTE B2		LTE B25	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	1745.0	Frequency (MHz)	1900.0	Frequency (MHz)	1905.0
Channel	132322	Channel	19100	Channel	26590
Measured 1g SAR (W/kg)	0.131	Measured 1g SAR (W/kg)	0.058	Measured 1g SAR (W/kg)	0.052
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 23)	0.167	Auto-tune (State 0)	0.114	Auto-tune (State 0)	0.101
Default (State 0)	0.120	Default (State 0)	0.111	Default (State 0)	0.104
State 9	0.097	State 4	0.103	State 0	0.104
State 23	0.168	State 9	0.076	State 10	0.062
State 28	0.087	State 22	0.107	State 33	0.044
State 35	0.036	State 50	0.054	State 41	0.091
State 55	0.123	State 56	0.111	State 52	0.100

Table 14-3
NR Supplemental Head SAR Data

Supplemental Head SAR Data			
NR Band n5		NR Band n71	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 53 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	836.5	Frequency (MHz)	680.5
Channel	167300	Channel	136100
Measured 1g SAR (W/kg)	0.168	Measured 1g SAR (W/kg)	0.103
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.195	Auto-tune (State 0)	0.130
Default (State 0)	0.195	Default (State 1)	0.083
State 2	0.174	State 0	0.130
State 15	0.136	State 14	0.094
State 33	0.087	State 35	0.013
State 37	0.023	State 46	0.064
State 55	0.128	State 55	0.079

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Table 14-4
UMTS Supplemental Body SAR Data

Supplemental Body SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Back Side	Test Position	Back Side	Test Position	Back Side
Spacing	10 mm	Spacing	15 mm	Spacing	15 mm
Frequency (MHz)	846.6	Frequency (MHz)	1752.6	Frequency (MHz)	1907.6
Channel	4233	Channel	1513	Channel	9538
Measured 1g SAR (W/kg)	0.706	Measured 1g SAR (W/kg)	0.759	Measured 1g SAR (W/kg)	0.893
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	1.087	Auto-tune (State 23)	1.164	Auto-tune (State 0)	1.380
Default (State 0)	1.127	Default (State 0)	0.771	Default (State 2)	1.265
State 0	1.127	State 5	0.755	State 0	1.378
State 4	0.888	State 11	0.58	State 1	1.276
State 9	0.293	State 23	1.181	State 2	1.265
State 18	0.906	State 27	0.429	State 3	1.250
State 30	0.772	State 39	0.729	State 4	1.226
State 51	0.083	State 52	0.785	State 5	1.224
				State 6	1.153
				State 7	1.101
				State 8	1.016
				State 9	0.889
				State 10	0.789
				State 11	0.658
				State 12	0.485
				State 13	1.380
				State 14	1.384
				State 15	1.384
				State 16	1.384
				State 17	1.381
				State 18	1.376
				State 19	1.360
				State 20	1.343
				State 21	1.308
				State 22	1.227
				State 23	1.146
				State 24	1.017
				State 25	0.804
				State 26	0.802
				State 27	0.789
				State 28	0.777
				State 29	0.764
				State 30	0.740
				State 31	0.746
				State 32	0.680
				State 33	0.637
				State 34	0.564
				State 35	0.500
				State 36	0.424
				State 37	0.339
				State 38	0.225
				State 39	1.260
				State 40	1.237
				State 41	1.226
				State 42	1.211
				State 43	1.188
				State 44	1.183
				State 45	1.119
				State 46	1.076
				State 47	0.998
				State 48	0.884
				State 49	0.785
				State 50	0.661
				State 51	0.495
				State 52	1.294
				State 53	1.387
				State 54	0.796
				State 55	1.226
				State 56	1.297
				State 57	1.384
				State 58	0.795
				State 59	1.222

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Table 14-5
LTE Supplemental Body SAR Data

Supplemental Body SAR Data					
LTE B71		LTE B12		LTE B13	
QPSK, 20 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	
Test Position	Back Side	Test Position	Back Side	Test Position	Back Side
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.5	Frequency (MHz)	707.5	Frequency (MHz)	782
Channel	133297	Channel	23095	Channel	23230
Measured 1g SAR (W/kg)	0.249	Measured 1g SAR (W/kg)	0.282	Measured 1g SAR (W/kg)	0.420
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.377	Auto-tune (State 0)	0.393	Auto-tune (State 0)	0.658
Default (State 1)	0.298	Default (State 0)	0.406	Default (State 0)	0.633
State 0	0.383	State 0	0.406	State 0	0.633
State 3	0.268	State 5	0.215	State 4	0.440
State 9	0.068	State 17	0.358	State 12	0.032
State 33	0.100	State 21	0.145	State 31	0.327
State 45	0.219	State 32	0.126	State 35	0.082
State 55	0.202	State 51	0.025	State 50	0.083

Supplemental Body SAR Data					
LTE B14		LTE B5		LTE B26	
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	
Test Position	Back Side	Test Position	Back Side	Test Position	Back Side
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	793	Frequency (MHz)	836.5	Frequency (MHz)	831.5
Channel	23330	Channel	20525	Channel	26865
Measured 1g SAR (W/kg)	0.406	Measured 1g SAR (W/kg)	0.464	Measured 1g SAR (W/kg)	0.462
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.600	Auto-tune (State 0)	0.696	Auto-tune (State 0)	0.762
Default (State 56)	0.602	Default (State 0)	0.696	Default (State 0)	0.766
State 0	0.604	State 0	0.696	State 0	0.766
State 5	0.420	State 6	0.435	State 7	0.429
State 10	0.090	State 14	0.590	State 14	0.632
State 29	0.450	State 36	0.123	State 34	0.284
State 38	0.030	State 43	0.593	State 40	0.658
State 52	0.603	State 53	0.534	State 55	0.581

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Supplemental Body SAR Data					
LTE B66/4		LTE B2		LTE B25	
QPSK, 20 MHz Bandwidth, 50 RB, 25 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 99 RB Offset		QPSK, 20 MHz Bandwidth, 50 RB, 25 RB Offset	
Test Position	Bottom	Test Position	Back Side	Test Position	Bottom
Spacing	10 mm	Spacing	15 mm	Spacing	10 mm
Frequency (MHz)	1770.0	Frequency (MHz)	1860.0	Frequency (MHz)	1905.0
Channel	132572	Channel	18700	Channel	26590
Measured 1g SAR (W/kg)	1.200	Measured 1g SAR (W/kg)	0.734	Measured 1g SAR (W/kg)	0.792
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 23)	1.864	Auto-tune (State 22)	0.968	Auto-tune (State 23)	1.187
Default (State 0)	1.342	Default (State 0)	0.918	Default (State 0)	1.114
State 0	1.342	State 11	0.479	State 23	1.165
State 1	1.310	State 20	0.881	State 27	0.712
State 2	1.303	State 22	0.935	State 42	0.953
State 3	1.295	State 30	0.508	State 47	0.848
State 4	1.279	State 48	0.613	State 52	1.110
State 5	1.271				
State 6	1.271				
State 7	1.237				
State 8	1.169				
State 9	1.097				
State 10	1.032				
State 11	0.943				
State 12	0.800				
State 13	0.976				
State 14	1.062				
State 15	1.085				
State 16	1.106				
State 17	1.132				
State 18	1.135				
State 19	1.246				
State 20	1.328				
State 21	1.710				
State 22	1.869				
State 23	1.909				
State 24	1.803				
State 25	1.161				
State 26	0.966				
State 27	0.866				
State 28	0.837				
State 29	0.813				
State 30	0.771				
State 31	0.757				
State 32	0.656				
State 33	0.542				
State 34	0.503				
State 35	0.401				
State 36	0.335				
State 37	0.261				
State 38	0.179				
State 39	1.028				
State 40	1.028				
State 41	1.030				
State 42	1.030				
State 43	1.033				
State 44	1.023				
State 45	1.029				
State 46	1.214				
State 47	1.202				
State 48	1.178				
State 49	1.148				
State 50	1.087				
State 51	0.959				
State 52	1.345				
State 53	1.005				
State 54	1.024				
State 55	1.162				
State 56	1.334				
State 57	0.997				
State 58	1.017				
State 59	1.154				

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Table 14-6
NR Supplemental Body SAR Data

Supplemental Body SAR Data			
NR Band n5		NR Band n71	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 26 RB Offset	
Test Position	Back Side	Test Position	Back Side
Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	836.5	Frequency (MHz)	680.5
Channel	167300	Channel	136100
Measured 1g SAR (W/kg)	0.574	Measured 1g SAR (W/kg)	0.199
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.768	Auto-tune (State 0)	0.299
Default (State 0)	0.768	Default (State 1)	0.230
State 0	0.768	State 0	0.299
State 5	0.653	State 5	0.171
State 16	0.518	State 13	0.233
State 24	0.089	State 30	0.159
State 43	0.555	State 42	0.267
State 51	0.058	State 53	0.229

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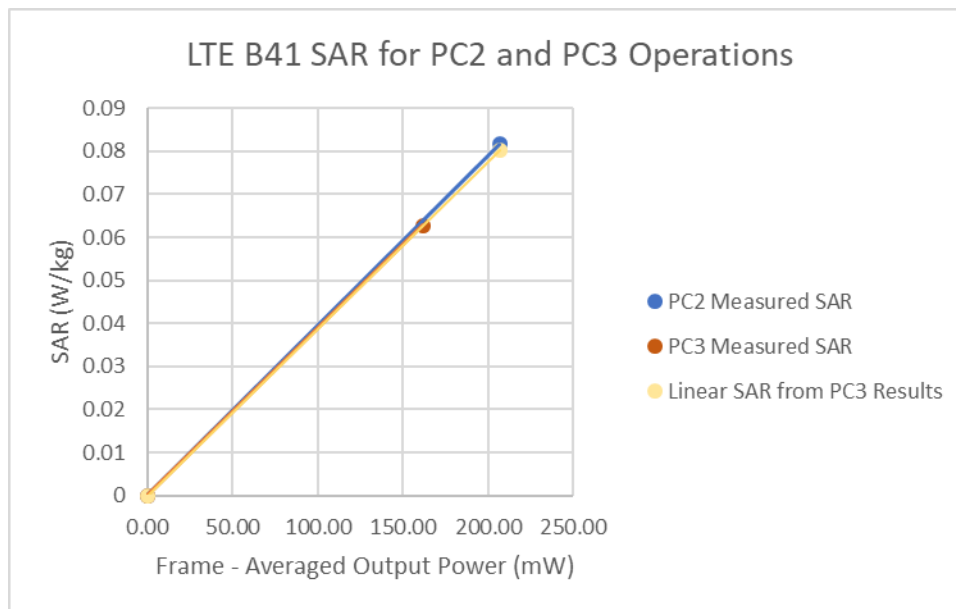
14.2 LTE Band 41 Power Class 2 and Power Class 3 Linearity

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.

LTE Band 41 SAR testing 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.

Table 14-7
LTE Band 41 Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.50	27.50
Measured Output Power (dBm)	24.07	26.79
Measured SAR (W/kg)	0.0627	0.0817
Measured Power (mW)	255.27	477.53
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	161.59	206.77
% deviation from expected linearity		1.83%



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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.50	27.50
Measured Output Power (dBm)	24.07	26.79
Measured SAR (W/kg)	0.235	0.290
Measured Power (mW)	255.27	477.53
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	161.59	206.77
% deviation from expected linearity		-3.56%

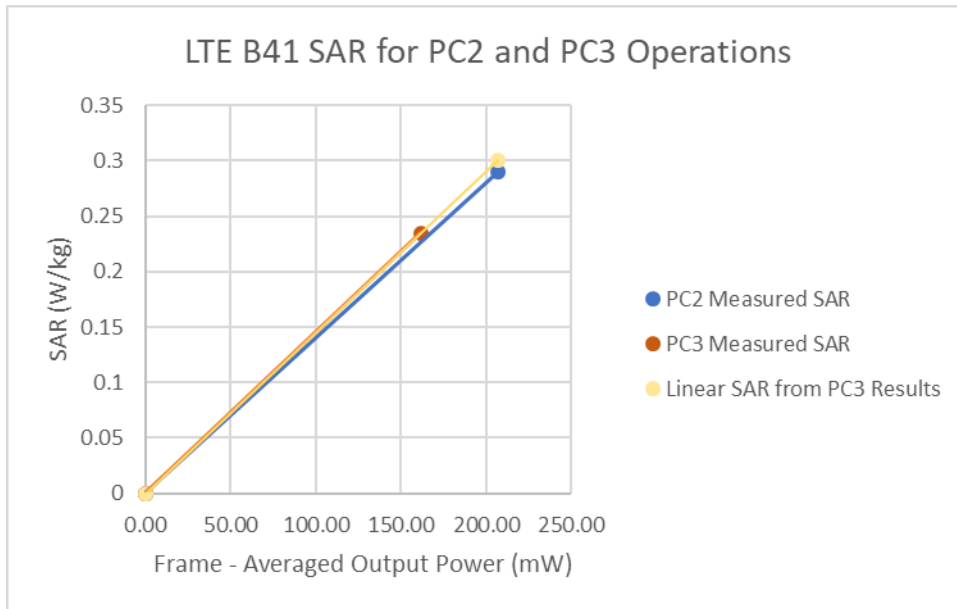


Figure 14-2
LTE Band 41 Body-Worn Linearity

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Table 14-9
LTE Band 41 Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.50	22.50
Measured Output Power (dBm)	21.89	21.55
Measured SAR (W/kg)	0.717	0.475
Measured Power (mW)	154.53	142.89
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	97.81	61.87
% deviation from expected linearity		4.73%

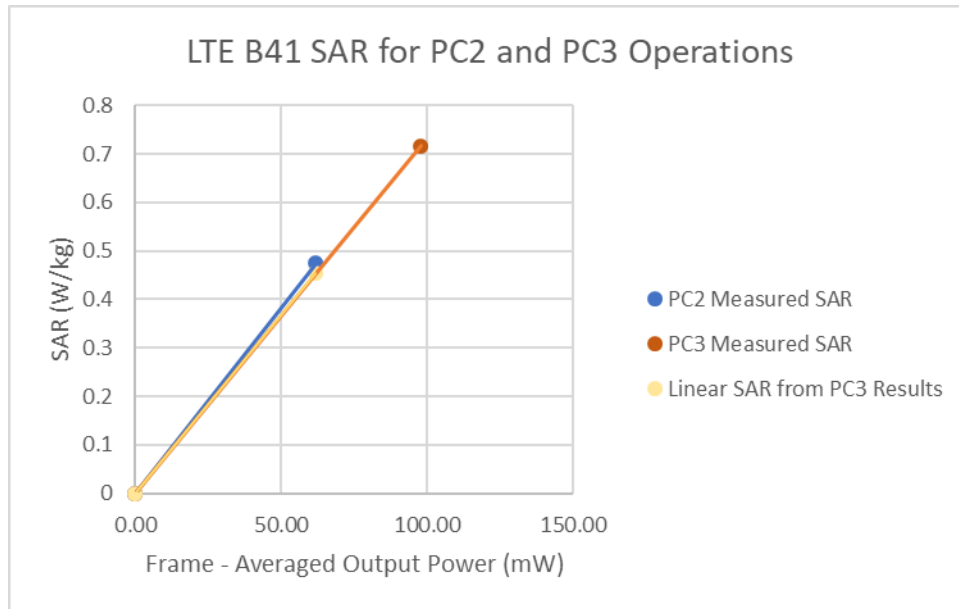


Figure 14-3
LTE Band 41 Hotspot Linearity

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Table 14-10
LTE Band 41 Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.50	25.50
Measured Output Power (dBm)	23.74	24.53
Measured SAR (W/kg)	2.32	1.91
Measured Power (mW)	236.59	283.79
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	149.76	122.88
% deviation from expected linearity		0.34%

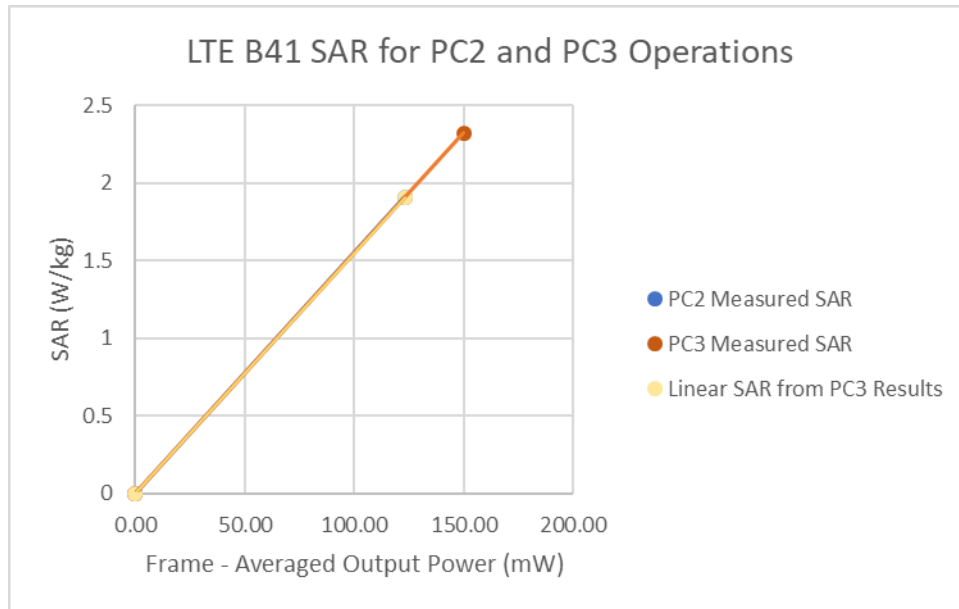


Figure 14-4
LTE Band 41 Phablet Linearity

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15 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(8kHz-2 GHz) Spectrum Analyzer	CBT	N/A	CBT	3051400187
Agilent	8753ES	Network Analyzer	3/19/2019	Annual	3/19/2020	MM40001472
Agilent	8753ES	S-Parameter Network Analyzer	8/26/2019	Annual	8/26/2020	MM40000670
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/19/2019	Annual	9/19/2020	MM40003841
Agilent	E4432B	ESG-O Series Signal Generator	7/14/2019	Annual	7/14/2020	US40053896
Agilent	E4438C	ESG Vector Signal Generator	5/22/2019	Annual	5/22/2020	MM45091346
Agilent	E4404A	PSA Series Spectrum Analyzer	11/14/2018	Annual	11/14/2019	MM46186272
Agilent	E5515C	8960 Series 10 Wireless Communications Test Set	12/18/2018	Annual	12/18/2019	GB42230325
Agilent	E5515C	Wireless Communications Test Set	2/28/2018	Biennial	2/28/2020	GB41450775
Agilent	E5515C	Wireless Communications Test Set	5/22/2018	Biennial	5/22/2020	GB41919353
Agilent	N4010A	Wireless Connectivity Test Set	CBT	N/A	CBT	GB46170464
Agilent	N5182A	MMG Vector Signal Generator	11/28/2018	Annual	11/28/2019	MM47420603
Agilent	N5182A	MMG Vector Signal Generator	6/27/2019	Annual	6/27/2020	US46240505
Agilent	N9020A	MSA Signal Analyzer	4/20/2019	Annual	4/20/2020	US46475661
Agilent	N9030A	PSA Signal Analyzer (44GHz)	6/12/2019	Annual	6/12/2020	MM53500166
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433971
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433972
Anritsu	MA24100A	USB Power Sensor	6/5/2019	Annual	6/5/2020	14877527
Anritsu	MA24100A	USB Power Sensor	1/31/2019	Annual	1/31/2020	1244524
Anritsu	MA2411B	Pulse Power Sensor	11/20/2018	Annual	11/20/2019	1339007
Anritsu	MA2411B	Pulse Power Sensor	3/6/2019	Annual	3/6/2020	1339018
Anritsu	MA8000ZA	39GHz RF Converter	4/22/2019	Annual	4/22/2020	6261951702
Anritsu	ML1495A	Power Meter	11/20/2018	Annual	11/20/2019	1039028
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	MT8000A	Radio Communication Test Station	11/14/2018	Annual	11/14/2019	6261914237
Anritsu	MT820C	Radio Communication Analyzer	3/29/2019	Annual	3/29/2020	6201300731
Anritsu	MT821C	Radio Communication Analyzer	11/6/2018	Annual	11/6/2019	6200901190
Anritsu	MT821C	Radio Communication Analyzer	3/16/2019	Annual	3/16/2020	6201381794
Anritsu	MT821C	Radio Communication Analyzer	8/16/2019	Annual	8/16/2020	6201144418
Anritsu	MT821C	Radio Communication Analyzer	10/2/2019	Annual	10/2/2020	6201664756
Anritsu	MT882A	Wireless Connectivity Test Set	8/8/2019	Annual	8/8/2020	6261782395
Anritsu	MA18002A	28GHz RF Converter	4/5/2019	Annual	4/5/2020	6261923958
Control Company	4040	Therm./Clock/Humidity Monitor	1/8/2019	Annual	1/8/2020	160473909
Control Company	4040	Therm./Clock/Humidity Monitor	1/8/2019	Annual	1/8/2020	160574418
Control Company	4040	Therm./Clock/Humidity Monitor	10/9/2018	Biennial	10/9/2020	181647811
Control Company	4352	Ultra Long Stem Thermometer	1/4/2019	Annual	1/4/2020	160508097
Control Company	4352	Ultra Long Stem Thermometer	1/4/2019	Annual	1/4/2020	160508127
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MM52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	7/2/2019	Annual	7/2/2020	MM53401181
Keysight Technologies	A176705B	DC Power Supply	CBT	N/A	CBT	MM53001315
Keysight Technologies	NE1705B	DC Power Analyzer	4/27/2019	Biennial	4/27/2021	MM53004099
MCL	BW-N6V5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
MiniCircuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
MiniCircuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
MiniCircuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Minutepro	CD-EC5X	Digital Caliper	4/18/2018	Biennial	4/18/2020	13264165
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	NC-100	Torque Wrench	11/1/2017	Biennial	11/1/2019	N/A
Pasternack	NC-100	Torque Wrench	11/7/2017	Biennial	11/7/2019	N/A
Pasternack	PE1208-6	BiDirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE1209-10	BiDirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMA500	Radio Communication Tester	4/19/2019	Annual	4/19/2020	128633
Rohde & Schwarz	CMA500	Radio Communication Tester	5/17/2019	Annual	5/17/2020	128635
Rohde & Schwarz	CMA500	Radio Communication Tester	6/6/2019	Annual	6/6/2020	140348
Rohde & Schwarz	CMA500	Radio Communication Tester	4/17/2019	Annual	4/17/2020	167285
Rohde & Schwarz	ZNA65	Vector Network Analyzer	10/11/2019	Annual	10/11/2020	1013387
Rohde & Schwarz	CMA500	Wideband Radio Communication Tester	7/12/2019	Annual	7/12/2020	145645
SPEAG	D1750V2	1750 MHz SAR Dipole	5/15/2019	Annual	5/15/2020	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2018	Annual	10/22/2019	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	2/23/2019	Annual	2/23/2020	56149
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Annual	10/23/2019	56149
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Annual	10/23/2019	56080
SPEAG	D2300V2	2300 MHz SAR Dipole	11/8/2017	Biennial	11/8/2020	1064
SPEAG	D2300V2	2300 MHz SAR Dipole	8/13/2018	Biennial	8/13/2020	1073
SPEAG	D2450V2	2450 MHz SAR Dipole	8/14/2019	Annual	8/14/2020	719
SPEAG	D2450V2	2450 MHz SAR Dipole	8/16/2018	Biennial	8/16/2020	981
SPEAG	D2450V2	2450 MHz SAR Dipole	9/11/2019	Triennial	9/11/2020	797
SPEAG	D2600V2	2600 MHz SAR Dipole	8/14/2019	Annual	8/14/2020	1126
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Annual	6/14/2020	1064
SPEAG	D3500V2	3500 MHz SAR Dipole	1/11/2018	Biennial	1/11/2020	1059
SPEAG	D3700V2	3700 MHz SAR Dipole	1/11/2018	Biennial	1/11/2020	1018
SPEAG	D5040V2	5 GHz SAR Dipole	8/10/2018	Biennial	8/10/2020	1237
SPEAG	D5040V2	5 GHz SAR Dipole	1/16/2019	Biennial	1/16/2020	1067
SPEAG	D750V3	750 MHz SAR Dipole	10/19/2018	Annual	10/19/2019	1161
SPEAG	D750V3	750 MHz SAR Dipole	1/15/2018	Biennial	1/15/2020	1003
SPEAG	D815V2	815 MHz SAR Dipole	1/22/2019	Annual	1/22/2020	46132
SPEAG	D815V2	815 MHz SAR Dipole	10/19/2018	Annual	10/19/2019	46133
SPEAG	D815V2	815 MHz SAR Dipole	3/13/2019	Annual	3/13/2020	48007
SPEAG	DAE4	Dasys Data Acquisition Electronics	6/20/2019	Annual	6/20/2020	1334
SPEAG	DAE4	Dasys Data Acquisition Electronics	4/18/2019	Annual	4/18/2020	1407
SPEAG	DAE4	Dasys Data Acquisition Electronics	9/17/2019	Annual	9/17/2020	1333
SPEAG	DAE4	Dasys Data Acquisition Electronics	5/8/2019	Annual	5/8/2020	728
SPEAG	DAE4	Dasys Data Acquisition Electronics	7/12/2019	Annual	7/12/2020	1322
SPEAG	DAE4	Dasys Data Acquisition Electronics	2/13/2019	Annual	2/13/2020	665
SPEAG	DAE4	Dasys Data Acquisition Electronics	5/8/2019	Annual	5/8/2020	859
SPEAG	DAE4	Dasys Data Acquisition Electronics	1/15/2019	Annual	1/15/2020	1530
SPEAG	DAE4	Dasys Data Acquisition Electronics	2/14/2019	Annual	2/14/2020	1272
SPEAG	DAE4	Dasys Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1323
SPEAG	DAE4	Dasys Data Acquisition Electronics	12/7/2018	Annual	12/7/2019	1533
SPEAG	EX30V4	SAR Probe	6/19/2019	Annual	6/19/2020	7409
SPEAG	EX30V4	SAR Probe	4/24/2019	Annual	4/24/2020	7357
SPEAG	EX30V4	SAR Probe	9/19/2019	Annual	9/19/2020	7551
SPEAG	EX30V4	SAR Probe	5/16/2019	Annual	5/16/2020	7538
SPEAG	EX30V4	SAR Probe	7/16/2019	Annual	7/16/2020	7410
SPEAG	EX30V4	SAR Probe	2/19/2019	Annual	2/19/2020	7417
SPEAG	EX30V4	SAR Probe	1/25/2019	Annual	1/25/2020	5849
SPEAG	EX30V4	SAR Probe	5/16/2019	Annual	5/16/2020	7406
SPEAG	EX30V4	SAR Probe	1/24/2019	Annual	1/24/2020	7488
SPEAG	EX30V4	SAR Probe	2/19/2019	Annual	2/19/2020	3914
SPEAG	EX30V4	SAR Probe	7/15/2019	Annual	7/15/2020	7547
SPEAG	DAK-3.5	Dielectric Parameter Probes	12/3/2018	Annual	12/3/2019	1278
SPEAG	DAK-3.5	Dielectric Assessment Kit	10/22/2019	Annual	10/22/2020	1091

Notes: 1) All equipment was used solely within its calibration period. 2) 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.

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16 MEASUREMENT UNCERTAINTIES

a	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System								
Probe Calibration	6.55	N	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	N	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	∞
Readout Electronics	0.3	N	1	1.0	1.0	0.3	0.3	∞
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.7	N	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	N	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	∞
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)						RSS	11.5	11.3
Expanded Uncertainty (95% CONFIDENCE LEVEL)						k=2	23.0	22.6

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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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APPENDIX A: SAR TEST DATA

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0098M

Communication System: UID 0, GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: 835 Head Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.919 \text{ S/m}$; $\epsilon_r = 41.18$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 10-02-2019; Ambient Temp: 20.4°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 836.6 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1177

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Mode: GSM 850, Right Head, Cheek, Mid.ch

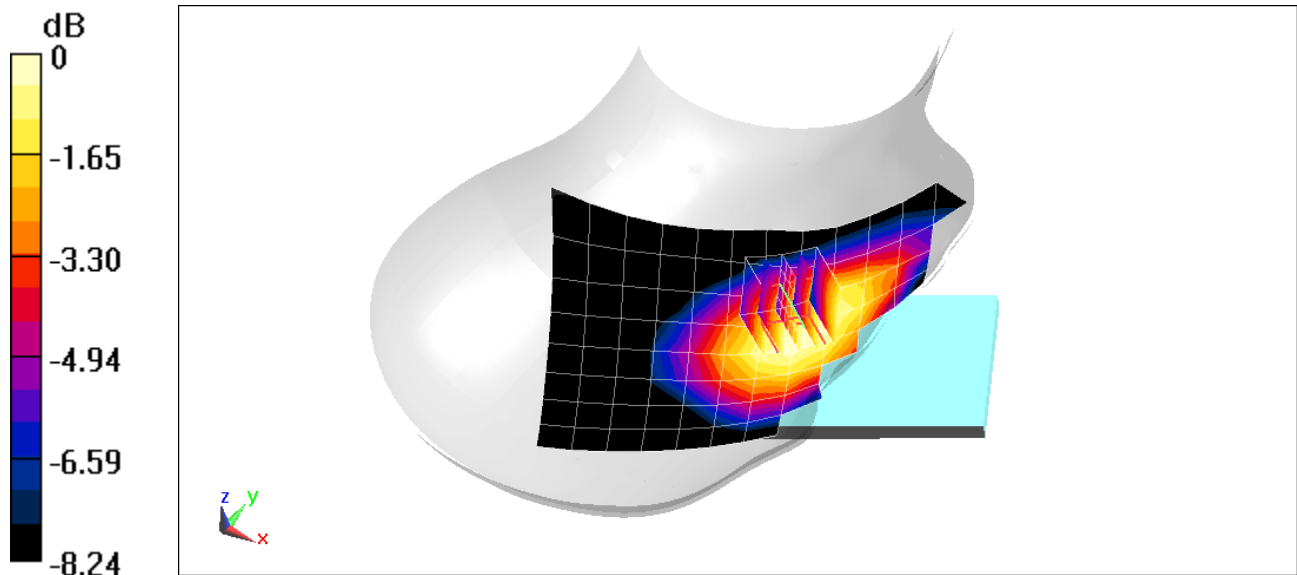
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.991 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.085 W/kg



0 dB = 0.0980 W/kg = -10.09 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: 1900 Head Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.42 \text{ S/m}$; $\epsilon_r = 39.175$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 09-30-2019; Ambient Temp: 21.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7409; ConvF(8.01, 8.01, 8.01) @ 1880 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Mode: GSM 1900, Left Head, Cheek, Mid.ch

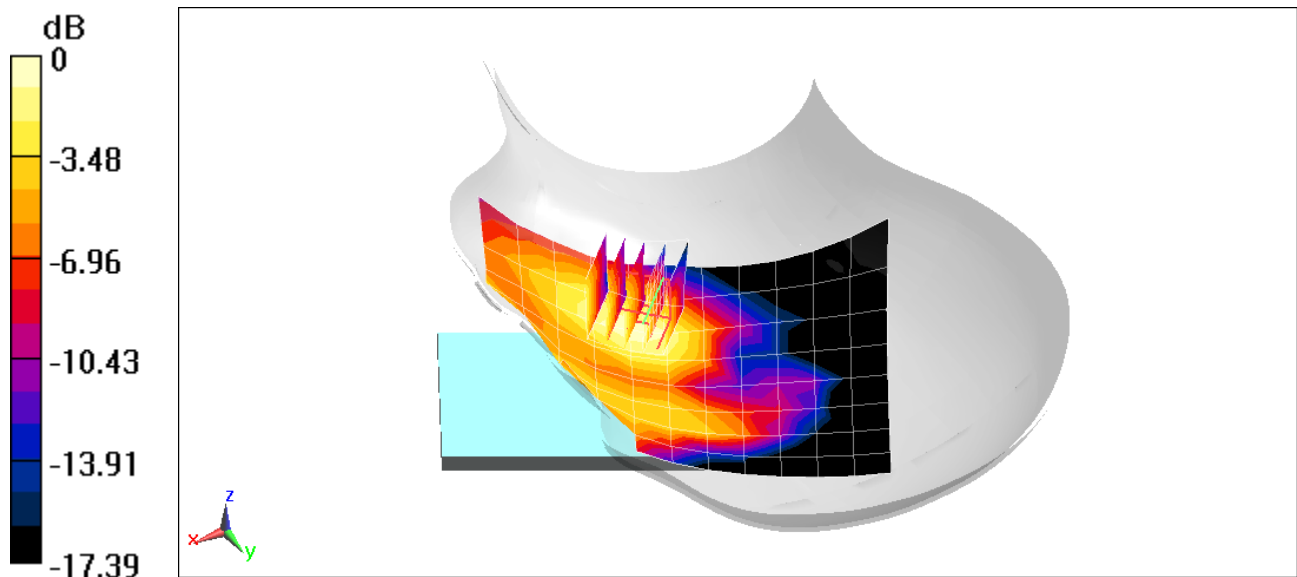
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.424 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0660 W/kg

SAR(1 g) = 0.041 W/kg



0 dB = 0.0554 W/kg = -12.56 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0098M

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Head Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.919 \text{ S/m}$; $\epsilon_r = 41.18$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 10-02-2019; Ambient Temp: 20.4°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 836.6 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1177

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 850, Right Head, Cheek, Mid.ch

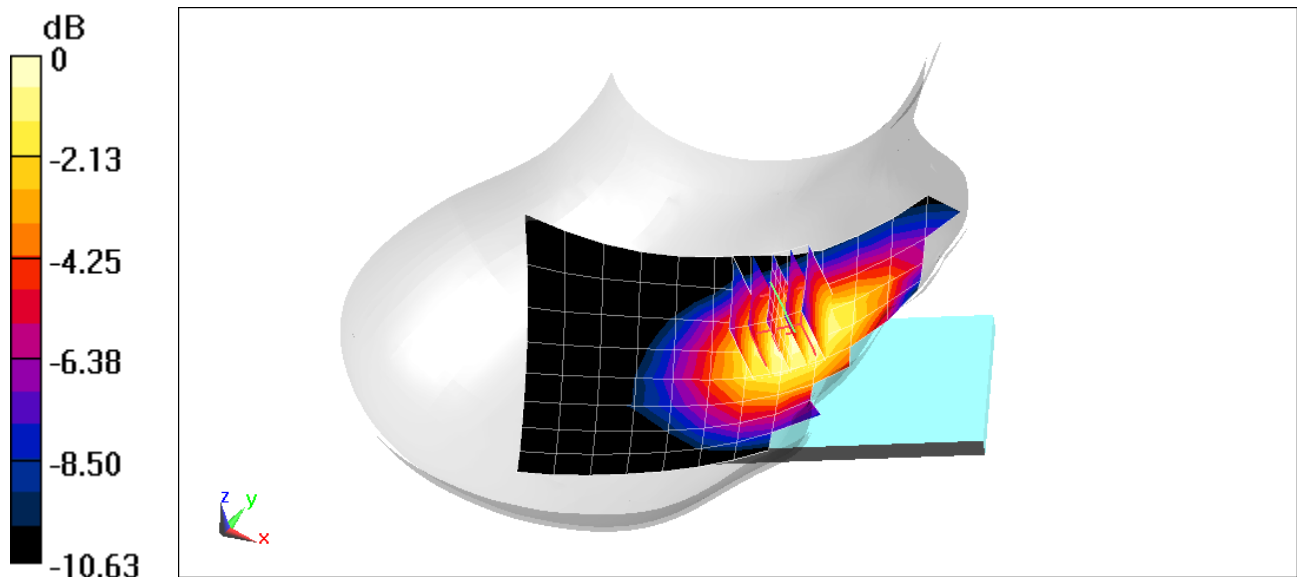
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.02 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.230 W/kg

SAR(1 g) = 0.174 W/kg



0 dB = 0.210 W/kg = -6.78 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: 1750 Head Medium parameters used (interpolated):

$f = 1732.4 \text{ MHz}$; $\sigma = 1.358 \text{ S/m}$; $\epsilon_r = 39.127$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 10-02-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7409; ConvF(8.32, 8.32, 8.32) @ 1732.4 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 1750, Left Head, Cheek, Mid.ch

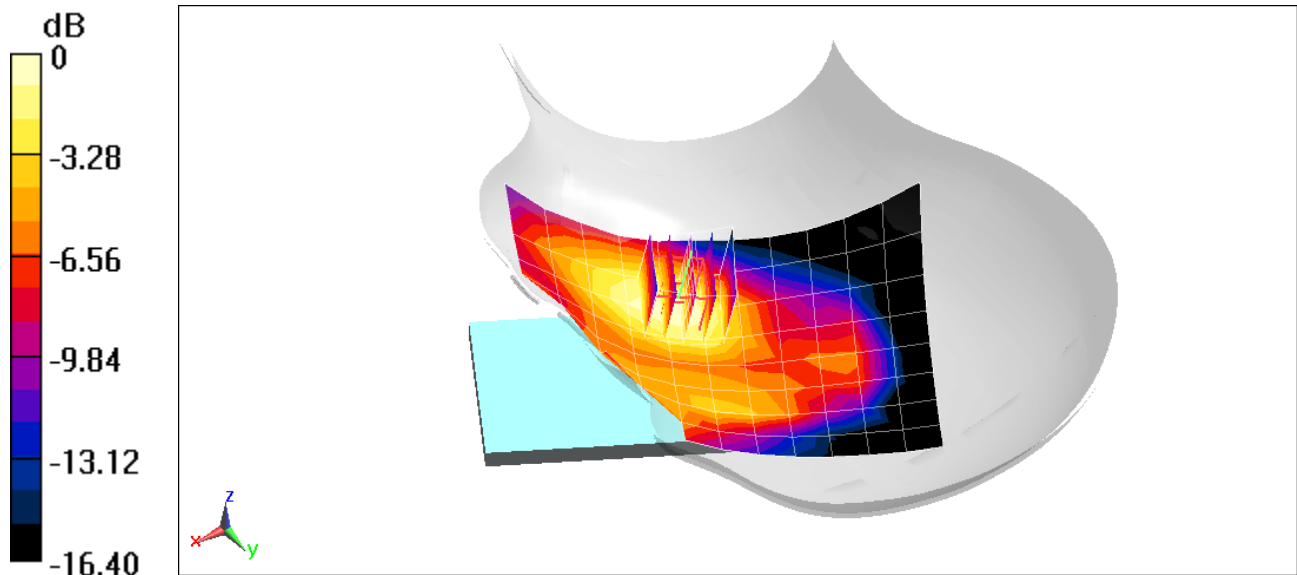
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.64 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.144 W/kg



0 dB = 0.188 W/kg = -7.26 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Head Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.42 \text{ S/m}$; $\epsilon_r = 39.175$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 09-30-2019; Ambient Temp: 21.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7409; ConvF(8.01, 8.01, 8.01) @ 1880 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 1900, Left Head, Cheek, Mid.ch

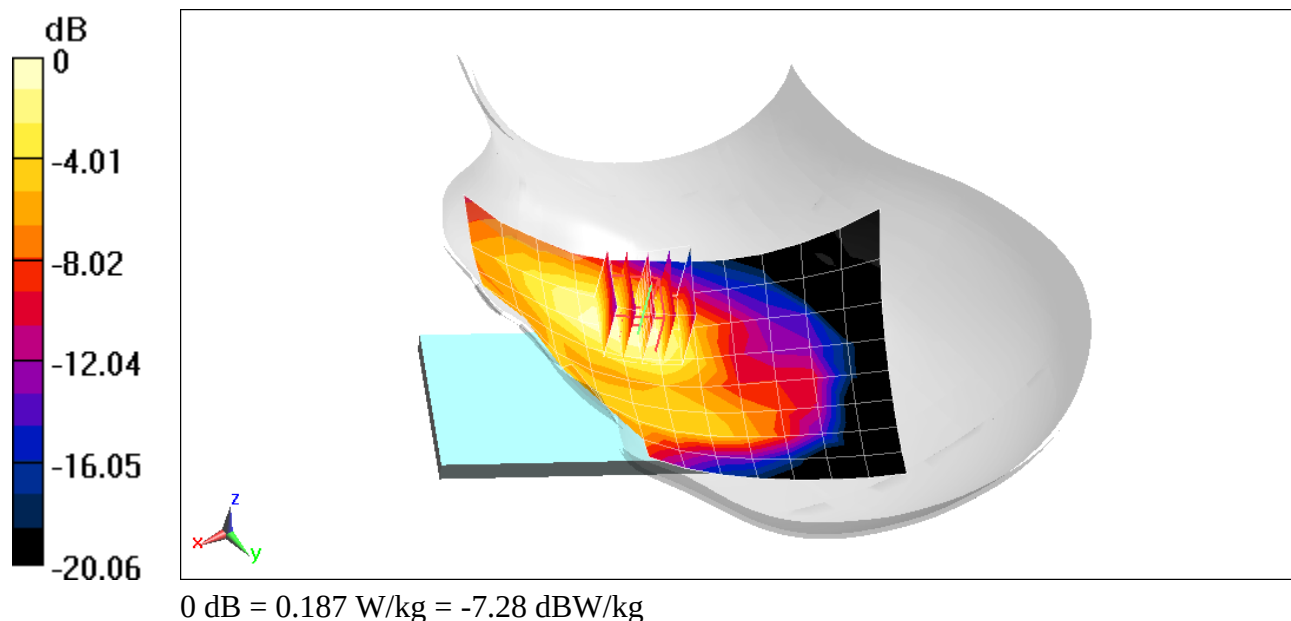
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.03 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.222 W/kg

SAR(1 g) = 0.139 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$; $\sigma = 0.864 \text{ S/m}$; $\epsilon_r = 42.218$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 09-23-2019; Ambient Temp: 21.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7409; ConvF(9.96, 9.96, 9.96) @ 680.5 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 71, Right Head, Cheek, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

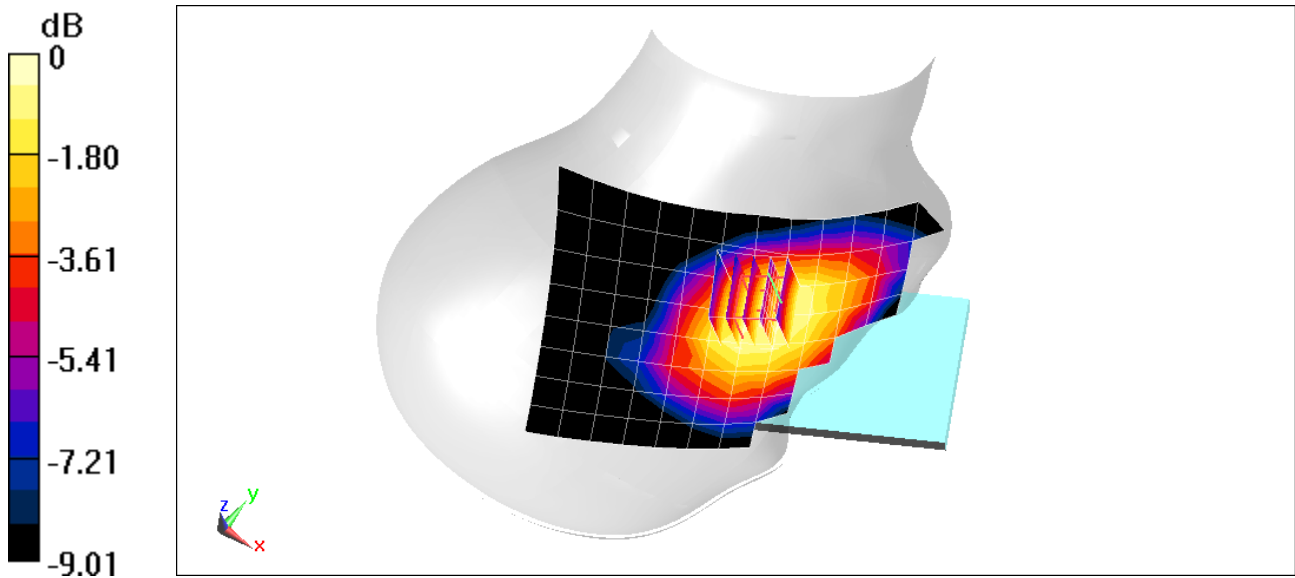
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.63 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.118 W/kg

SAR(1 g) = 0.090 W/kg



0 dB = 0.107 W/kg = -9.71 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0428M

Communication System: UID 0, n71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$; $\sigma = 0.864 \text{ S/m}$; $\epsilon_r = 41.71$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 10-21-2019; Ambient Temp: 21.4°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7357; ConvF(10.26, 10.26, 10.26) @ 680.5 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1167

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: NR Band n71, Right Head, Cheek, Mid.ch,
20 MHz Bandwidth, DFT-s-OFDM QPSK, 1 RB, 53 RB Offset**

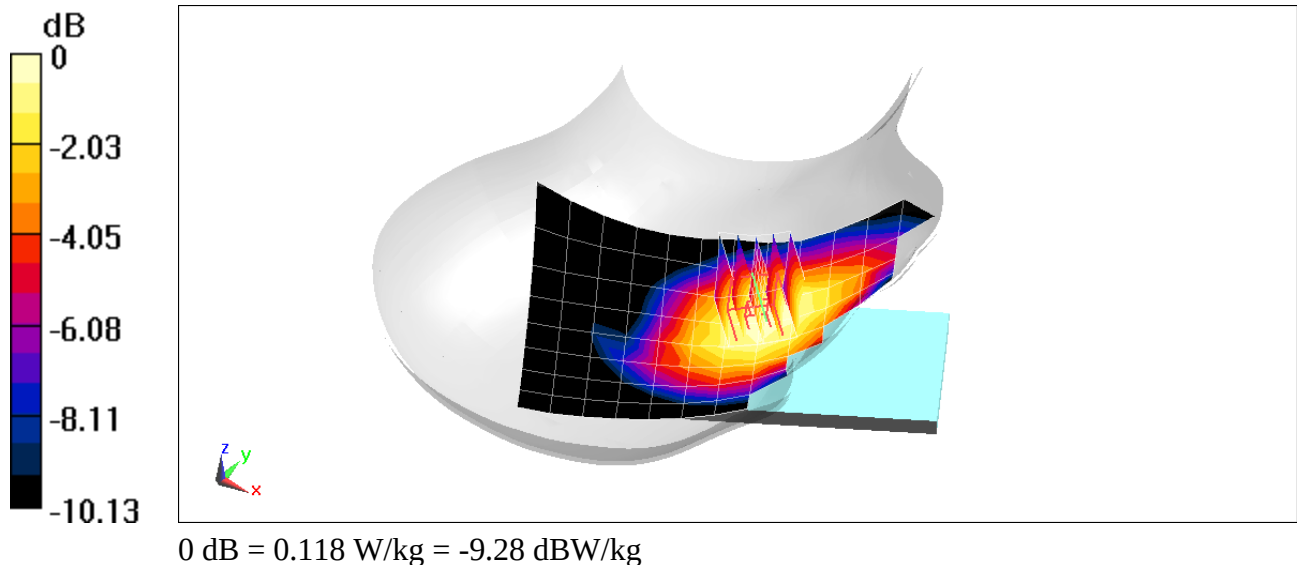
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.39 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.128 W/kg

SAR(1 g) = 0.103 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$; $\sigma = 0.873 \text{ S/m}$; $\epsilon_r = 41.621$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 10-21-2019; Ambient Temp: 21.4°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7357; ConvF(10.26, 10.26, 10.26) @ 707.5 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1167

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 12, Right Head, Cheek, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

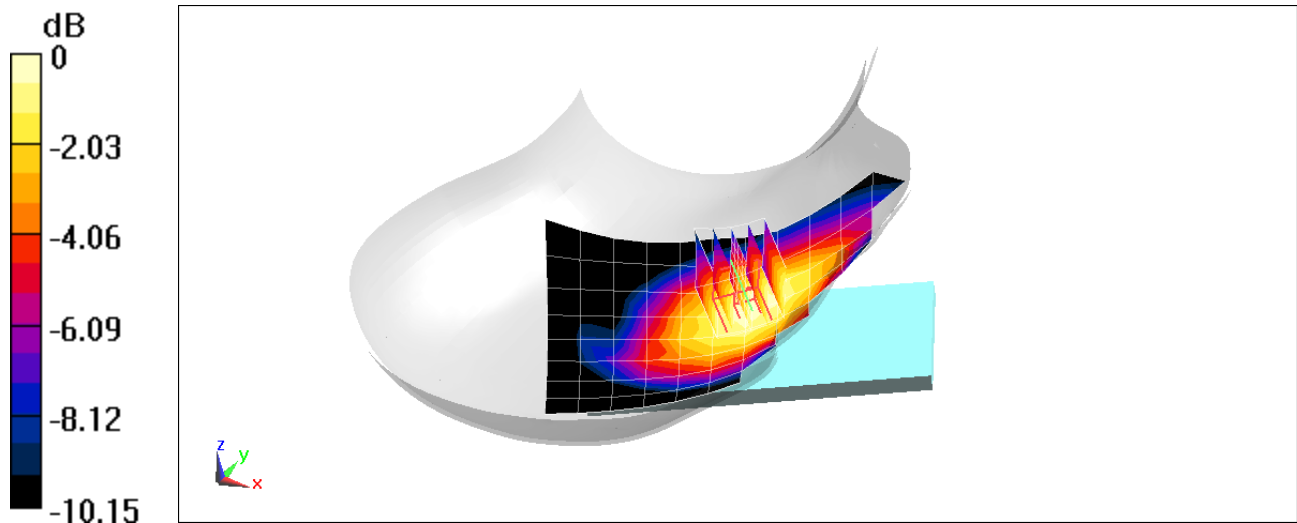
Area Scan (9x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.30 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.104 W/kg

SAR(1 g) = 0.084 W/kg



0 dB = 0.0977 W/kg = -10.10 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 0.9 \text{ S/m}$; $\epsilon_r = 41.393$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 10-21-2019; Ambient Temp: 21.4°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7357; ConvF(10.26, 10.26, 10.26) @ 782 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1167

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 13, Left Head, Cheek, Mid.ch,
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset**

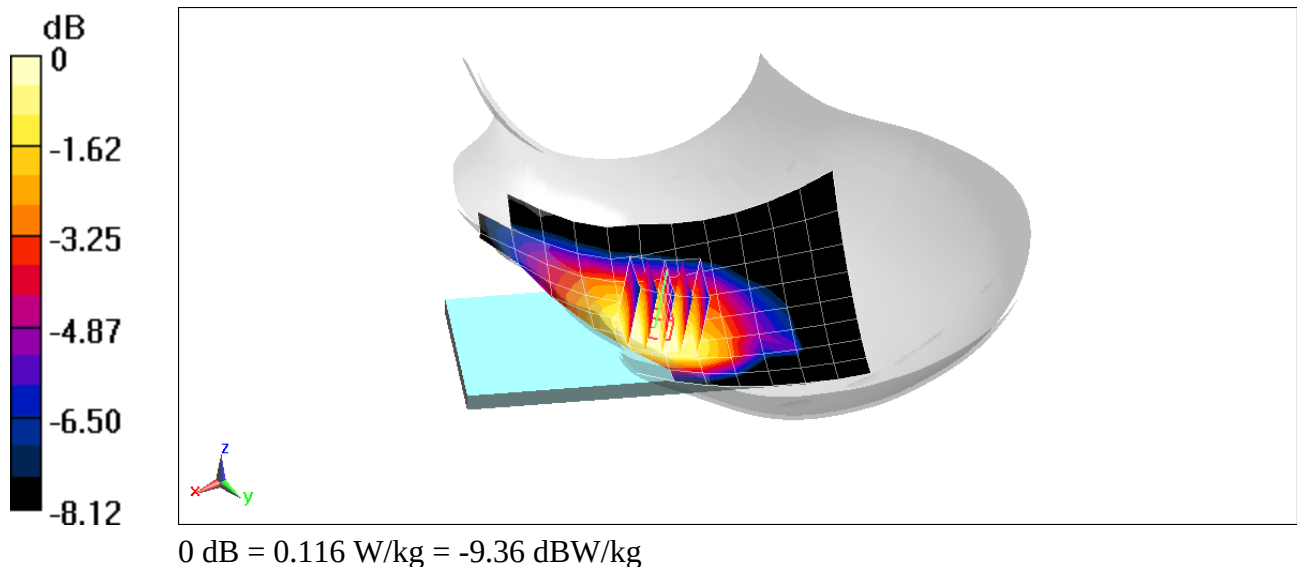
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.04 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.124 W/kg

SAR(1 g) = 0.101 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used (interpolated):

$f = 793 \text{ MHz}$; $\sigma = 0.903 \text{ S/m}$; $\epsilon_r = 41.863$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 09-23-2019; Ambient Temp: 21.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7409; ConvF(9.96, 9.96, 9.96) @ 793 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 14, Right Head, Cheek, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

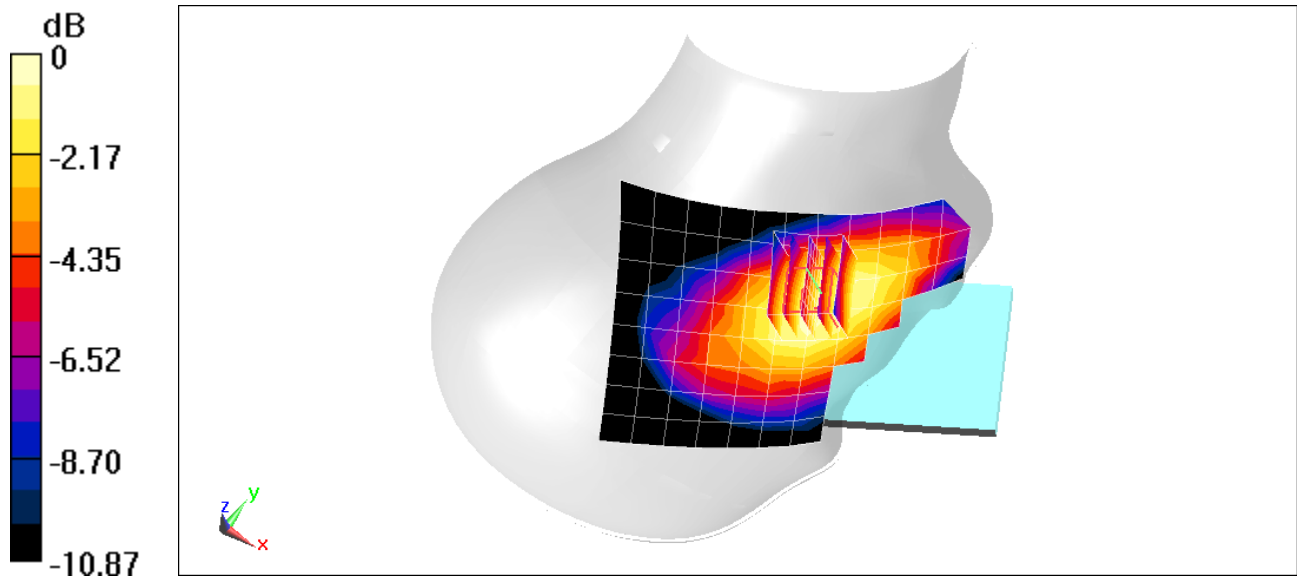
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.58 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.145 W/kg

SAR(1 g) = 0.109 W/kg



0 dB = 0.131 W/kg = -8.83 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: 835 Head Medium parameters used (interpolated):

$f = 831.5 \text{ MHz}$; $\sigma = 0.917 \text{ S/m}$; $\epsilon_r = 42.724$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 10-24-2019; Ambient Temp: 21.8°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7357; ConvF(9.91, 9.91, 9.91) @ 831.5 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1167

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 26 (Cell.), Right Head, Cheek, Mid.ch,
15 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

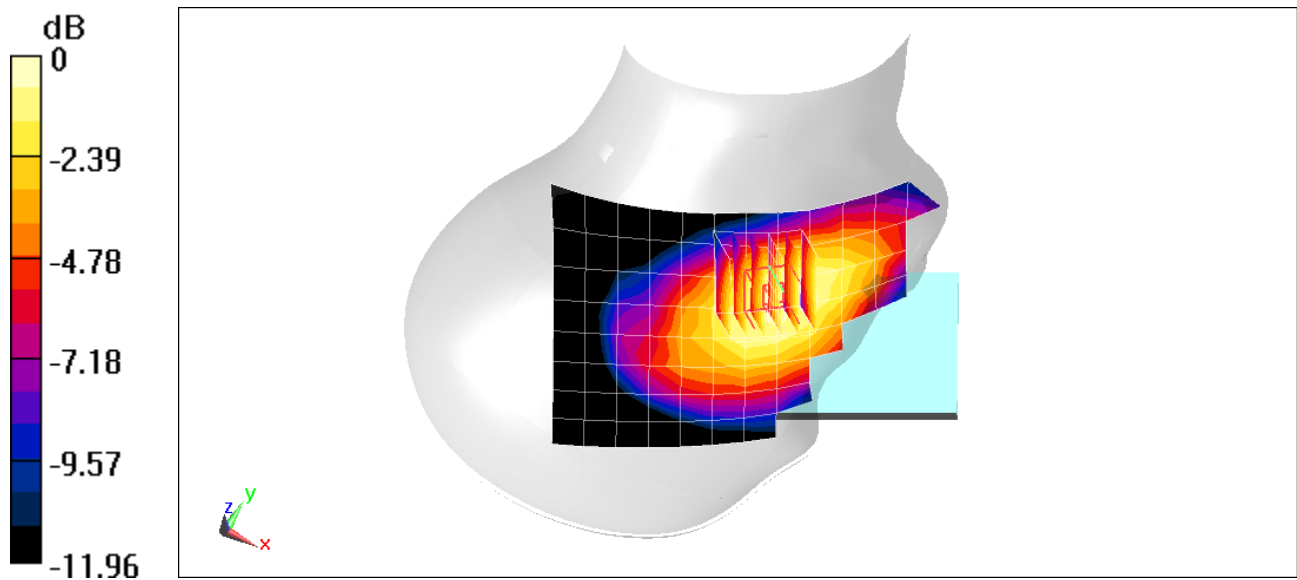
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.38 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.147 W/kg



0 dB = 0.209 W/kg = -6.80 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 5 (Cell.); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Head Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 42.796$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 10-09-2019; Ambient Temp: 22.3°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7409; ConvF(9.7, 9.7, 9.7) @ 836.5 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Mode: LTE Band 5 (Cell.), ULCA, Right Head, Cheek, Mid.ch,

PCC: Ch. 20525, 10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

SCC: Ch. 20453, 5 MHz Bandwidth, QPSK, 1 RB, 24 RB Offset

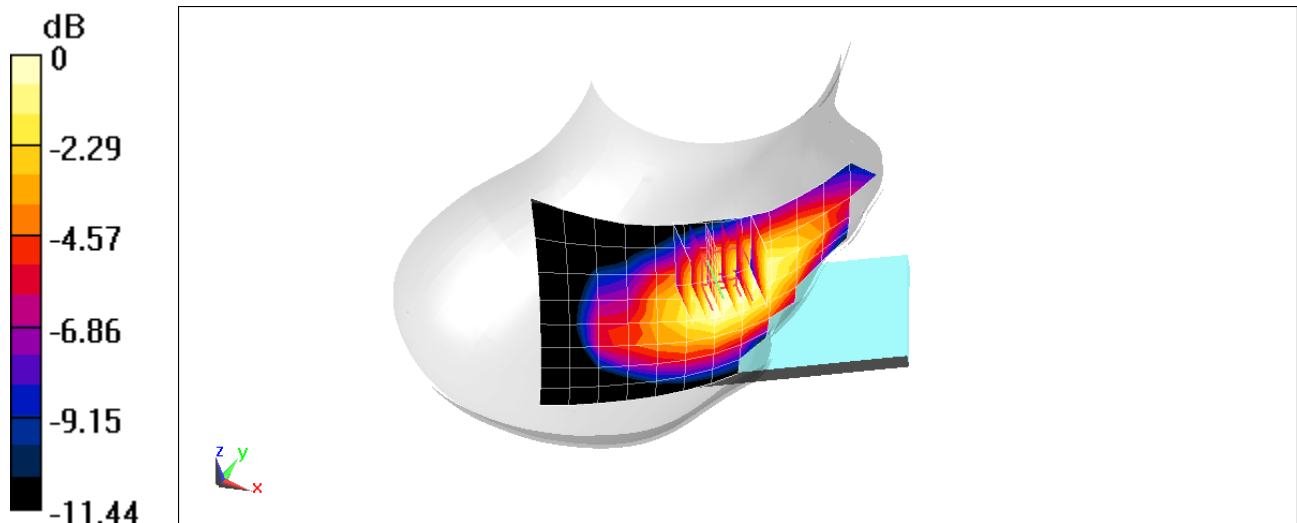
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.16 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.171 W/kg



0 dB = 0.207 W/kg = -6.84 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0665M

Communication System: UID 0, NR Band n5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Head Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 41.237$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 10-21-2019; Ambient Temp: 21.4°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7357; ConvF(9.91, 9.91, 9.91) @ 836.5 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1167

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: NR Band n5, Right Head, Cheek, Mid.ch,
20 MHz Bandwidth, DFT-s-OFDM QPSK, 1 RB, 1 RB Offset**

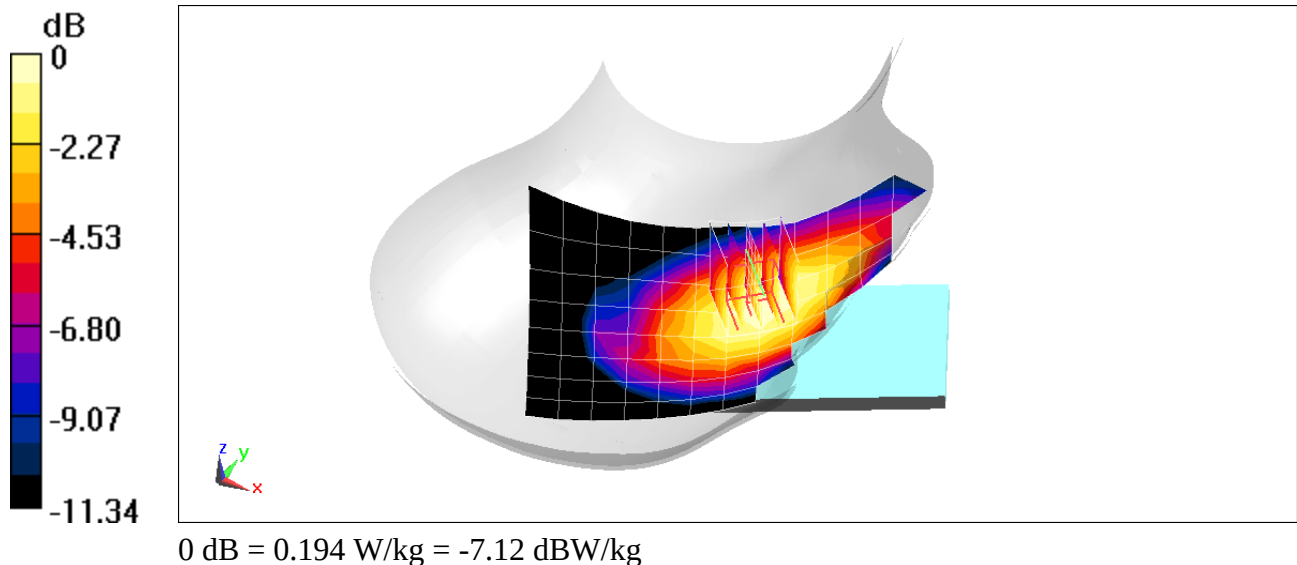
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.08 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.168 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Head Medium parameters used (interpolated):

$f = 1745 \text{ MHz}$; $\sigma = 1.346 \text{ S/m}$; $\epsilon_r = 41.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 09-16-2019; Ambient Temp: 20.7°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7538; ConvF(8.67, 8.67, 8.67) @ 1745 MHz; Calibrated: 5/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn728; Calibrated: 5/8/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 66 (AWS), Left Head, Cheek, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

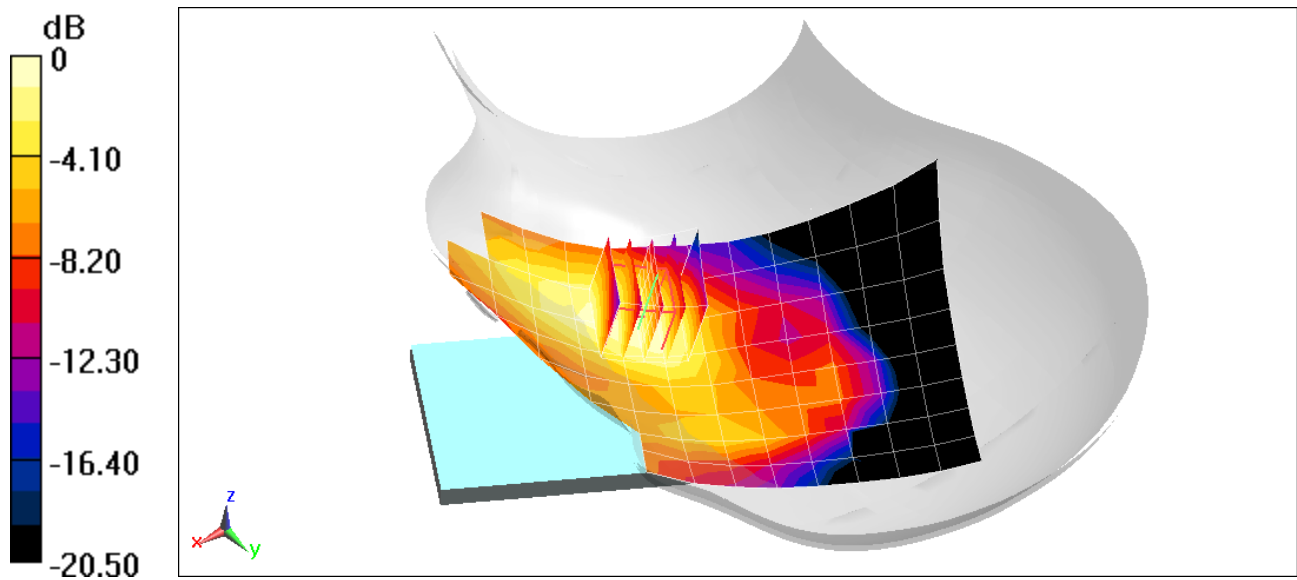
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.42 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.189 W/kg

SAR(1 g) = 0.131 W/kg



0 dB = 0.164 W/kg = -7.85 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN967U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Head Medium parameters used (interpolated):

$f = 1905 \text{ MHz}$; $\sigma = 1.447 \text{ S/m}$; $\epsilon_r = 41.172$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 09-16-2019; Ambient Temp: 20.4°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN7538; ConvF(8.32, 8.32, 8.32) @ 1905 MHz; Calibrated: 5/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn728; Calibrated: 5/8/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 25 (PCS), Left Head, Cheek, High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

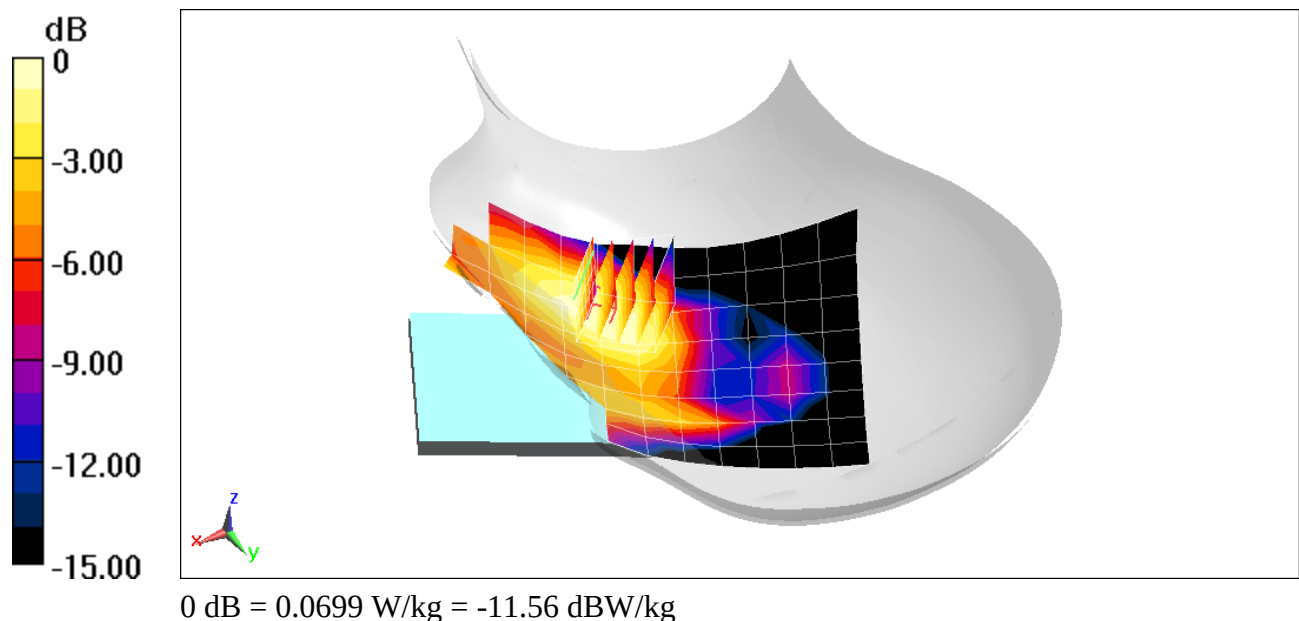
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.729 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.0820 W/kg

SAR(1 g) = 0.052 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, _LTE Band 2 (PCS); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Head Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.432 \text{ S/m}$; $\epsilon_r = 39.149$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 09-30-2019; Ambient Temp: 21.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7409; ConvF(8.01, 8.01, 8.01) @ 1900 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 2 (PCS), Left Head, Cheek, High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

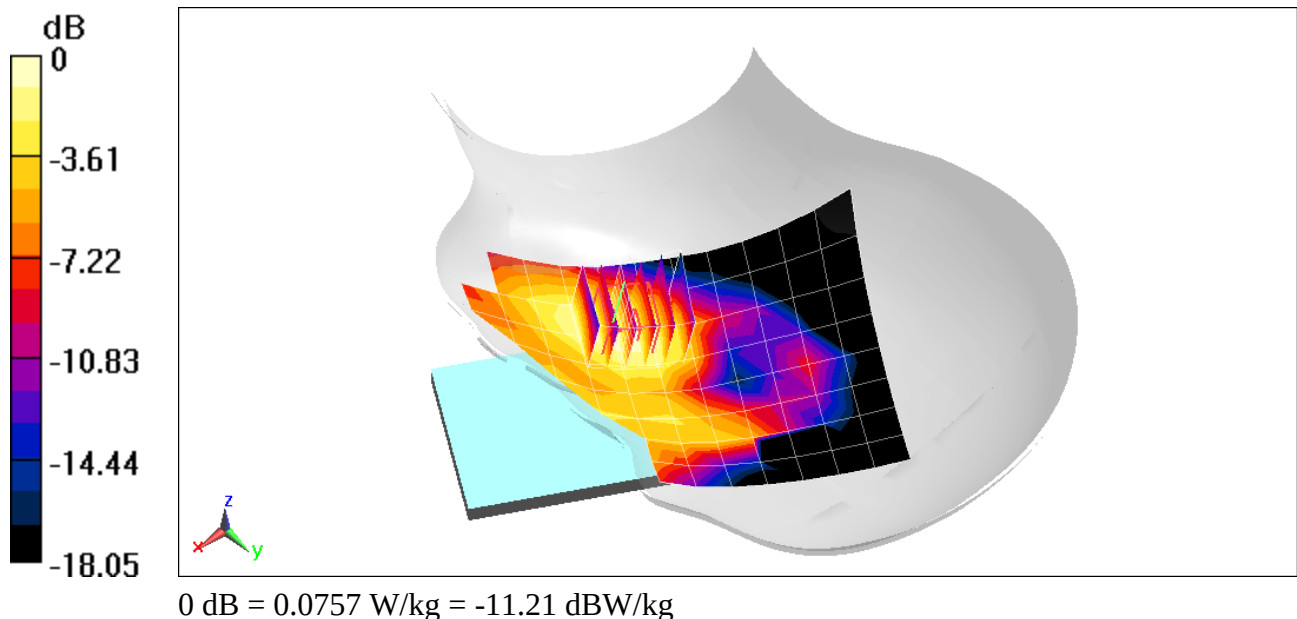
Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.864 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0930 W/kg

SAR(1 g) = 0.058 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 Head Medium parameters used:

$f = 2310 \text{ MHz}$; $\sigma = 1.75 \text{ S/m}$; $\epsilon_r = 40.926$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 10-08-2019; Ambient Temp: 21.6°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7410; ConvF(7.91, 7.91, 7.91) @ 2310 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 30, Right Head, Cheek, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

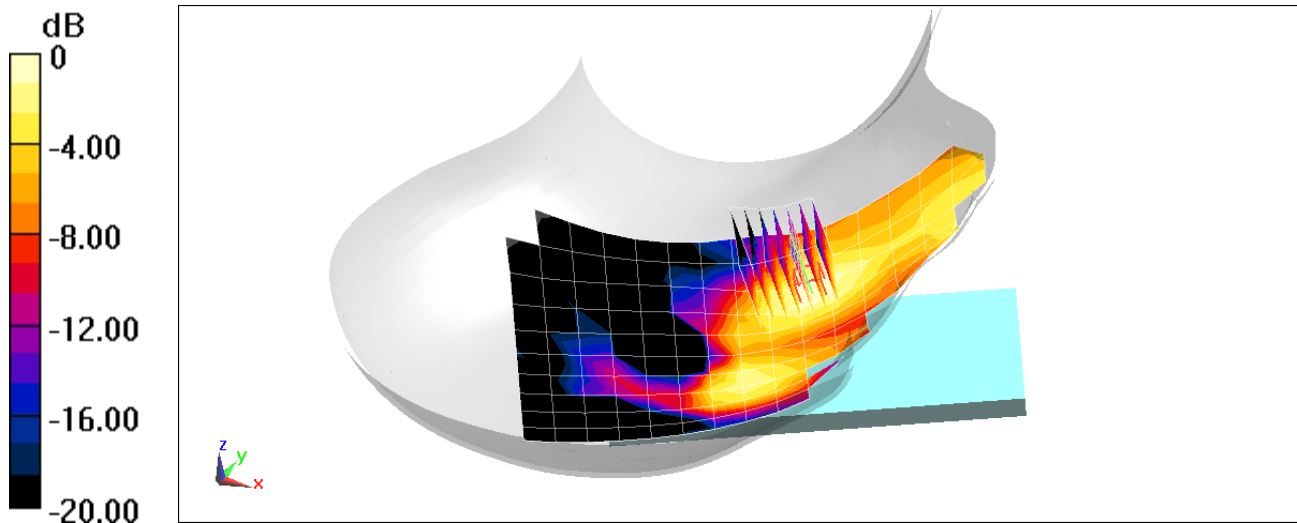
Area Scan (11x18x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.629 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0800 W/kg

SAR(1 g) = 0.045 W/kg



0 dB = 0.0664 W/kg = -11.78 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0073M

Communication System: UID 0, _LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 Head Medium parameters used:

$f = 2510 \text{ MHz}$; $\sigma = 1.898 \text{ S/m}$; $\epsilon_r = 38.79$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 09-24-2019; Ambient Temp: 22.1°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7409; ConvF(7.3, 7.3, 7.3) @ 2510 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 7, Right Head, Tilt, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

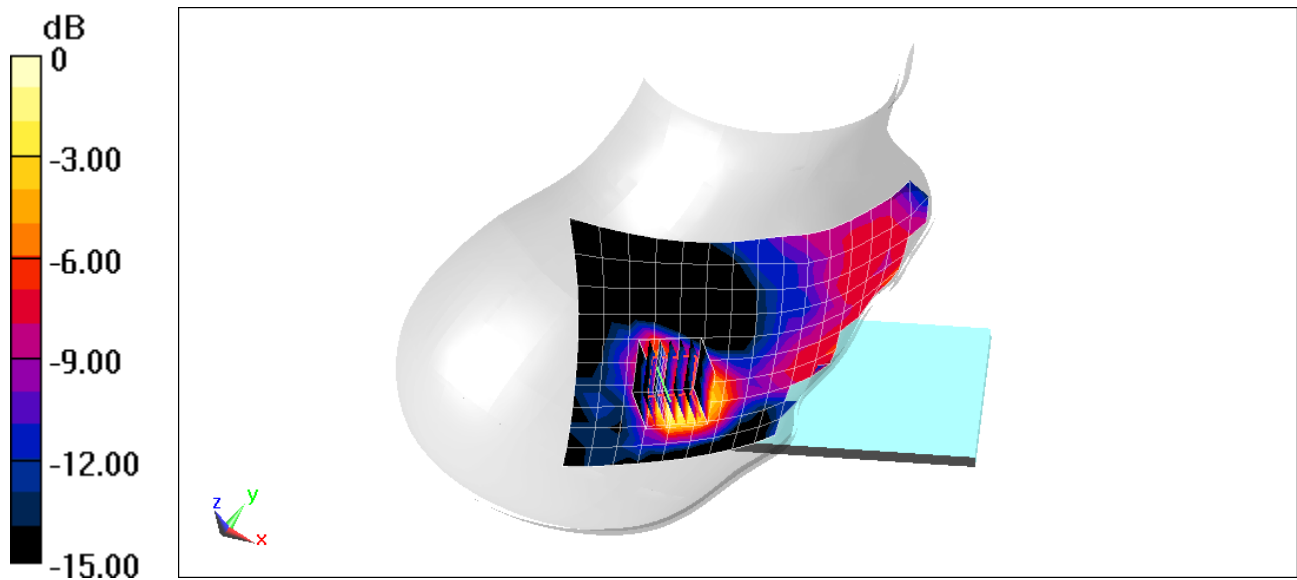
Area Scan (11x18x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.934 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.168 W/kg

SAR(1 g) = 0.089 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0073M

Communication System: UID 0, LTE Band 48; Frequency: 3646.7 MHz; Duty Cycle: 1:1.58

Medium: 3500-3700 MHz Head Medium parameters used (interpolated):

$f = 3646.7 \text{ MHz}$; $\sigma = 2.935 \text{ S/m}$; $\epsilon_r = 37.843$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 09-17-2019; Ambient Temp: 20.9°C; Tissue Temp: 20.2°C

Probe: EX3DV4 - SN3589; ConvF(6.02, 6.02, 6.02) @ 3646.7 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 5/8/2019

Phantom: Twin-SAM V5.0 Right 20; Type: QD 000 P40 CD; Serial: 1759

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 48, Left Head, Cheek, Mid-High.ch,
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset**

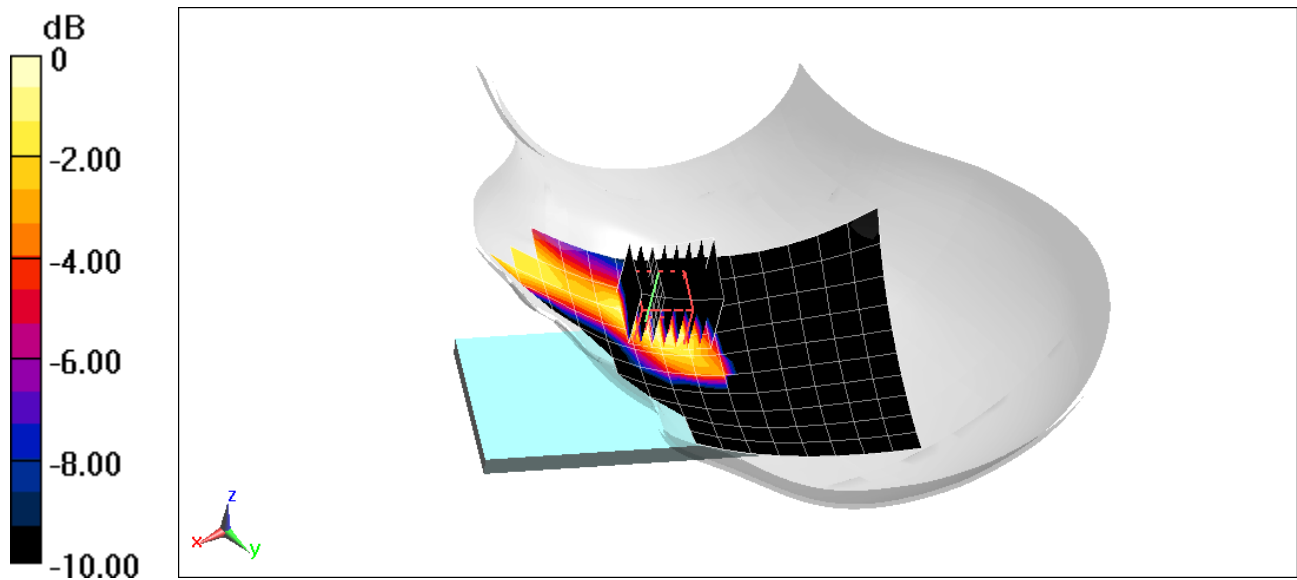
Area Scan (11x17x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x8x8)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 4.633 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.179 W/kg

SAR(1 g) = 0.050 W/kg



0 dB = 0.0863 W/kg = -10.64 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, _LTE Band 41 (Class 2); Frequency: 2636.5 MHz; Duty Cycle: 1:2.31

Medium: 2450 Head Medium parameters used (interpolated):

$f = 2636.5 \text{ MHz}$; $\sigma = 2.013 \text{ S/m}$; $\epsilon_r = 39.669$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 10-03-2019; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7417; ConvF(7.17, 7.17, 7.17) @ 2636.5 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 2/13/2019

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 41, PC2, Right Head, Tilt, Mid-High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

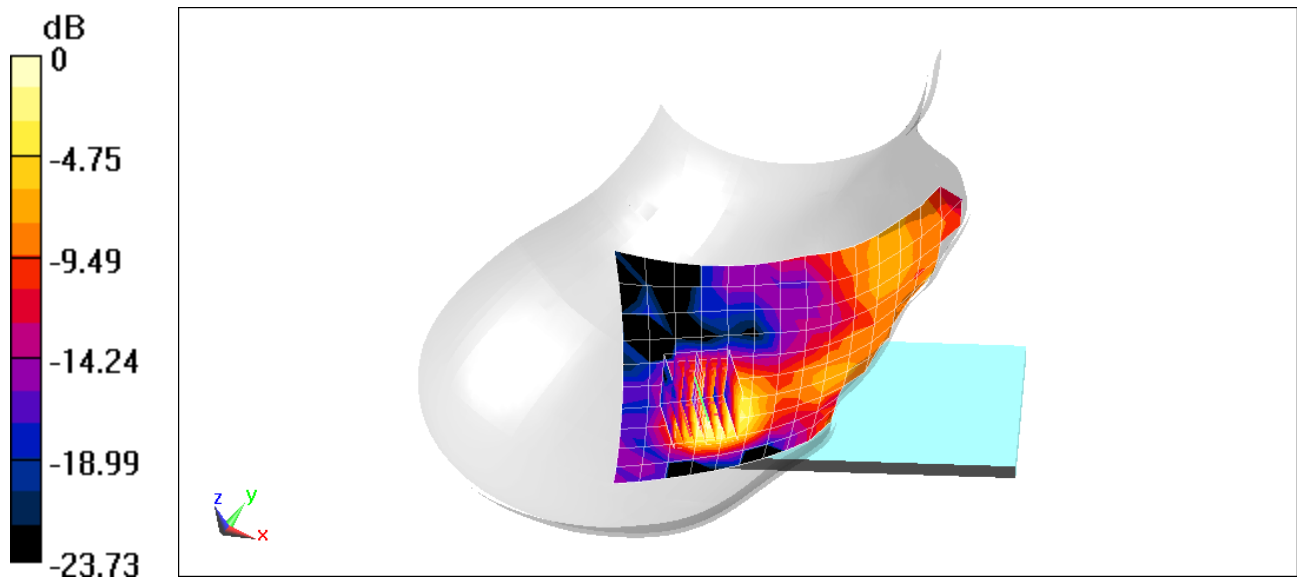
Area Scan (11x17x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.317 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.152 W/kg

SAR(1 g) = 0.082 W/kg



0 dB = 0.124 W/kg = -9.07 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0585M

Communication System: UID 0, _IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 Head Medium parameters used (interpolated):

$f = 2412 \text{ MHz}$; $\sigma = 1.822 \text{ S/m}$; $\epsilon_r = 38.952$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 09-24-2019; Ambient Temp: 22.1°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7409; ConvF(7.3, 7.3, 7.3) @ 2412 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: IEEE 802.11b, 22 MHz Bandwidth, Antenna 1, Right Head, Tilt, Ch 1, 1 Mbps

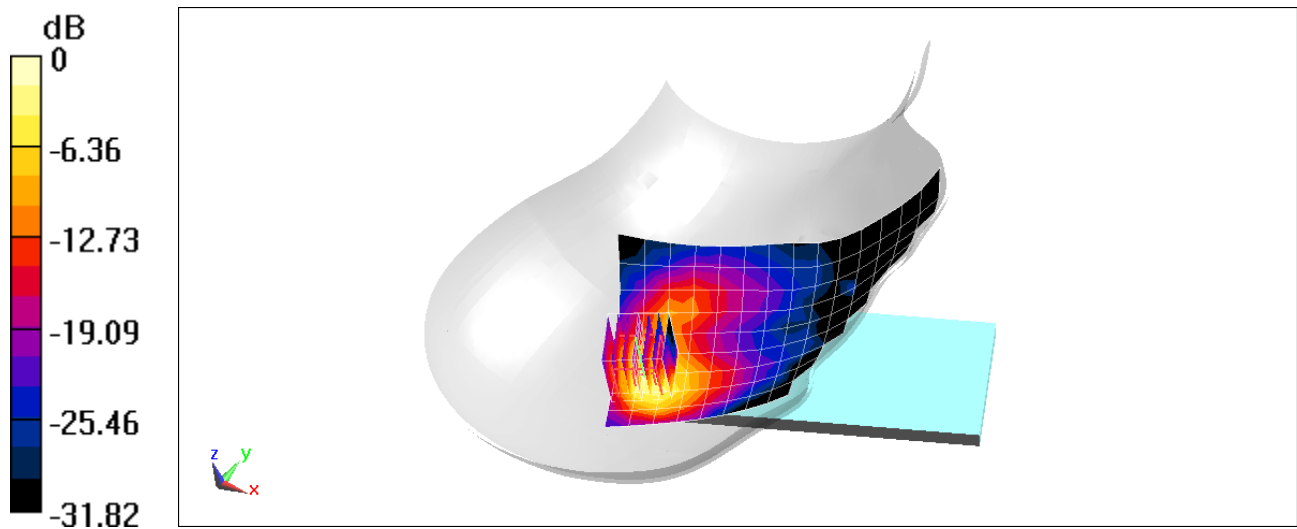
Area Scan (10x17x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.671 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 0.749 W/kg



0 dB = 1.37 W/kg = 1.37 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0585M

Communication System: UID 0, 802.11ac 5.2-5.8 GHz Band; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: 5GHz Head Medium parameters used (interpolated):

$f = 5775 \text{ MHz}$; $\sigma = 5.213 \text{ S/m}$; $\epsilon_r = 34.067$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 09-10-2019; Ambient Temp: 23.9°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7406; ConvF(5.23, 5.23, 5.23) @ 5775 MHz; Calibrated: 5/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 5/8/2019

Phantom: Twin-SAM V5.0 Right 20; Type: QD 000 P40 CD; Serial: 1759

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: IEEE 802.11ac, U-NII-3, 80 MHz Bandwidth,
Antenna 1, Right Head, Tilt, Ch 155, 29.3 Mbps**

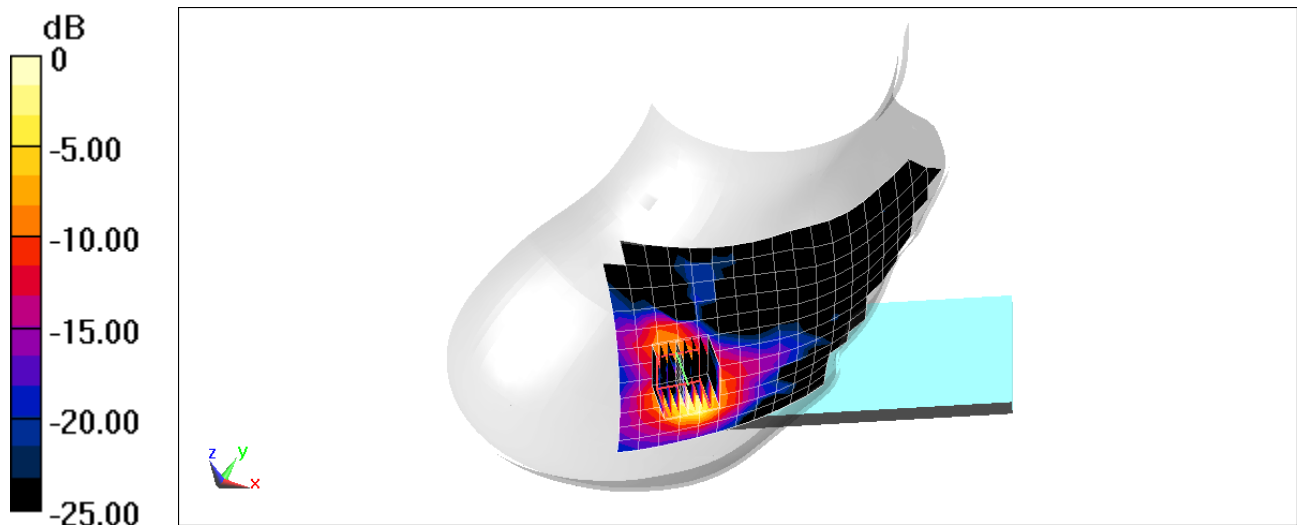
Area Scan (13x22x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 3.283 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.284 W/kg



0 dB = 0.817 W/kg = -0.88 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0600M

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.302

Medium: 2450 Head Medium parameters used (interpolated):

$f = 2480 \text{ MHz}$; $\sigma = 1.888 \text{ S/m}$; $\epsilon_r = 38.454$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 10-24-2019; Ambient Temp: 24.2°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7417; ConvF(7.46, 7.46, 7.46) @ 2480 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn665; Calibrated: 2/13/2019

Phantom: SAM 5.0 front; Type: QD000P40CD; Serial: 1648

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Mode: Bluetooth, Right Head, Tilt, Ch 78, 1 Mbps

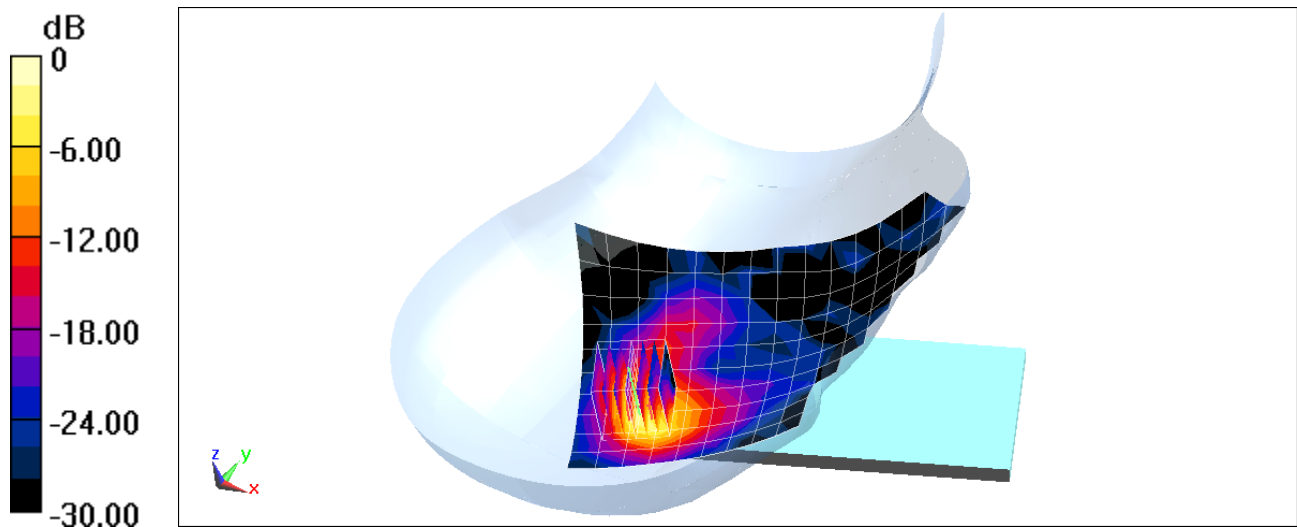
Area Scan (11x19x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.73 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.246 W/kg



0 dB = 0.458 W/kg = -3.39 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0098M

Communication System: UID 0, GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.984 \text{ S/m}$; $\epsilon_r = 52.747$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-30-2019; Ambient Temp: 22.1°C; Tissue Temp: 18.7°C

Probe: EX3DV4 - SN7488; ConvF(11.03, 11.03, 11.03) @ 836.6 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: GSM 850, Body SAR, Back side, Mid.ch

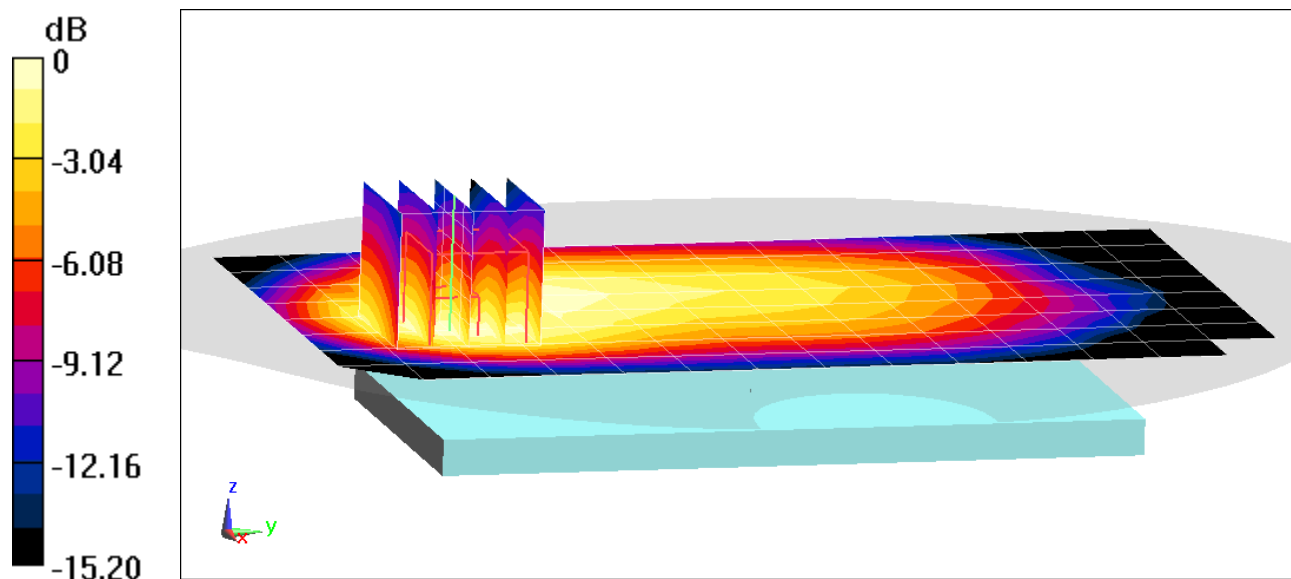
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.49 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.235 W/kg

SAR(1 g) = 0.142 W/kg



0 dB = 0.201 W/kg = -6.97 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0098M

Communication System: UID 0, _GSM GPRS; 3 Tx slots; Frequency: 836.6 MHz; Duty Cycle: 1:2.76

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.984 \text{ S/m}$; $\epsilon_r = 52.747$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-30-2019; Ambient Temp: 22.1°C; Tissue Temp: 18.7°C

Probe: EX3DV4 - SN7488; ConvF(11.03, 11.03, 11.03) @ 836.6 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Mode: GPRS 850, Body SAR, Back side, Mid.ch, 3 Tx Slots

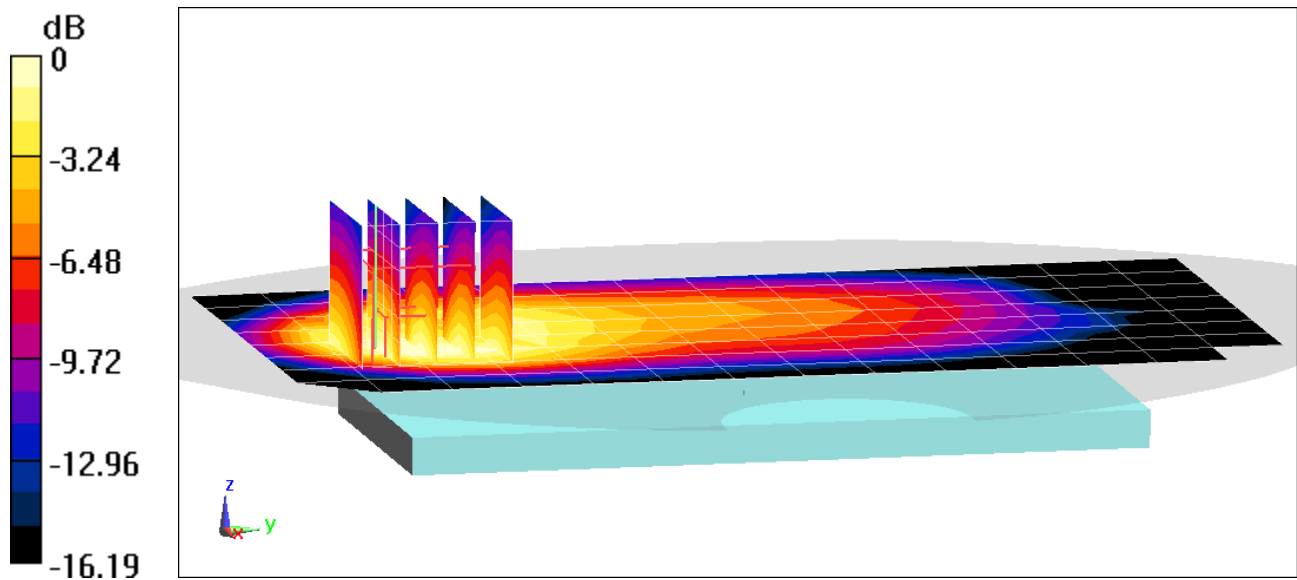
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.61 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.352 W/kg



0 dB = 0.509 W/kg = -2.93 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.547 \text{ S/m}$; $\epsilon_r = 51.478$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 10-02-2019; Ambient Temp: 23.6°C; Tissue Temp: 24.1°C

Probe: EX3DV4 - SN7547; ConvF(7.53, 7.53, 7.53) @ 1880 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: GSM 1900, Body SAR, Back side, Mid.ch

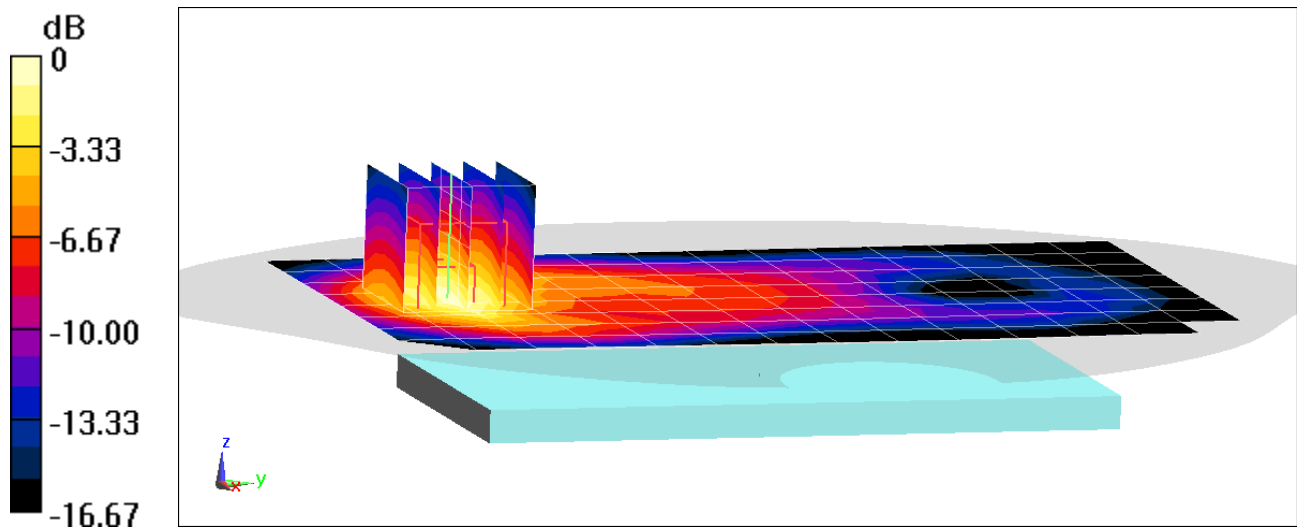
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.95 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.456 W/kg

SAR(1 g) = 0.273 W/kg



0 dB = 0.392 W/kg = -4.07 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, _GSM GPRS; 3 Tx slots; Frequency: 1909.8 MHz; Duty Cycle: 1:2.76

Medium: 1900 Body Medium parameters used:

$f = 1910 \text{ MHz}$; $\sigma = 1.58 \text{ S/m}$; $\epsilon_r = 51.367$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 10-02-2019; Ambient Temp: 23.6°C; Tissue Temp: 24.1°C

Probe: EX3DV4 - SN7547; ConvF(7.53, 7.53, 7.53) @ 1909.8 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: GPRS 1900, Body SAR, Bottom Edge, High.ch, 3 Tx Slots

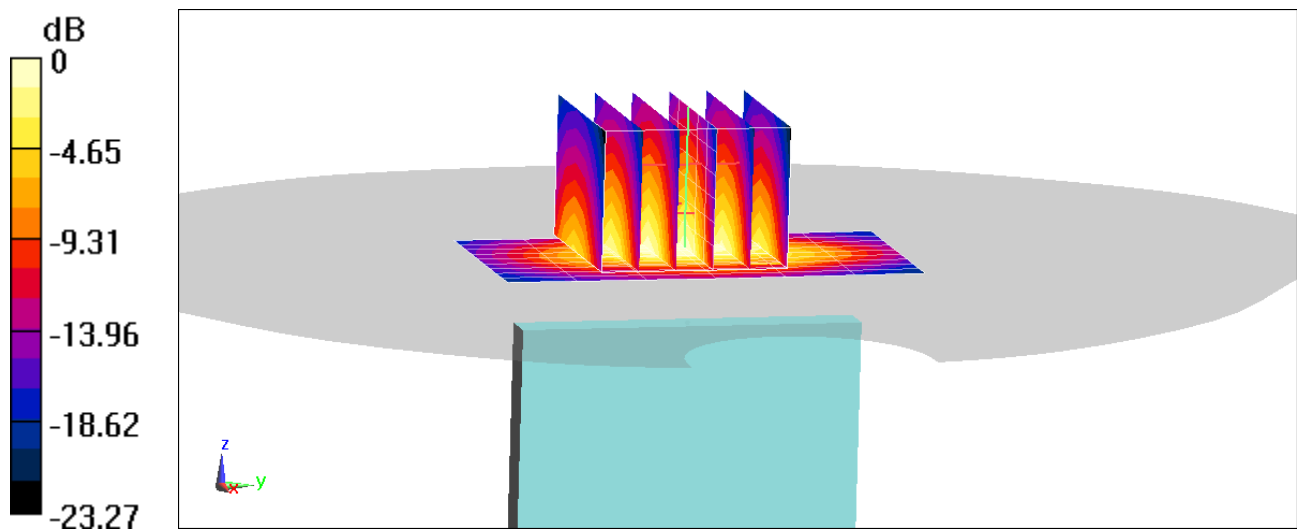
Area Scan (10x7x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.26 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.889 W/kg



0 dB = 1.33 W/kg = 1.24 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0098M

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.984 \text{ S/m}$; $\epsilon_r = 52.747$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-30-2019; Ambient Temp: 22.1°C; Tissue Temp: 18.7°C

Probe: EX3DV4 - SN7488; ConvF(11.03, 11.03, 11.03) @ 836.6 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 850, Body SAR, Back side, Mid.ch

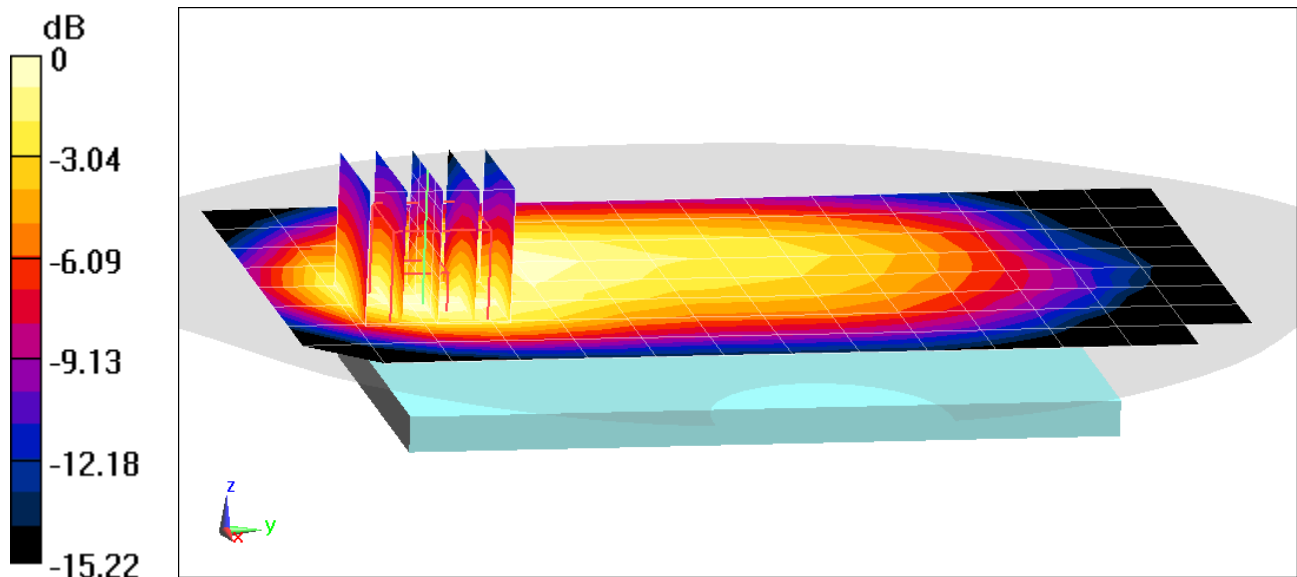
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.33 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.402 W/kg

SAR(1 g) = 0.245 W/kg



0 dB = 0.344 W/kg = -4.63 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0098M

Communication System: UID 0, UMTS; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 846.6 \text{ MHz}$; $\sigma = 0.984 \text{ S/m}$; $\epsilon_r = 53.336$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 10-21-2019; Ambient Temp: 20.9°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7551; ConvF(9.92, 9.92, 9.92) @ 846.6 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 850, Body SAR, Back side, High.ch

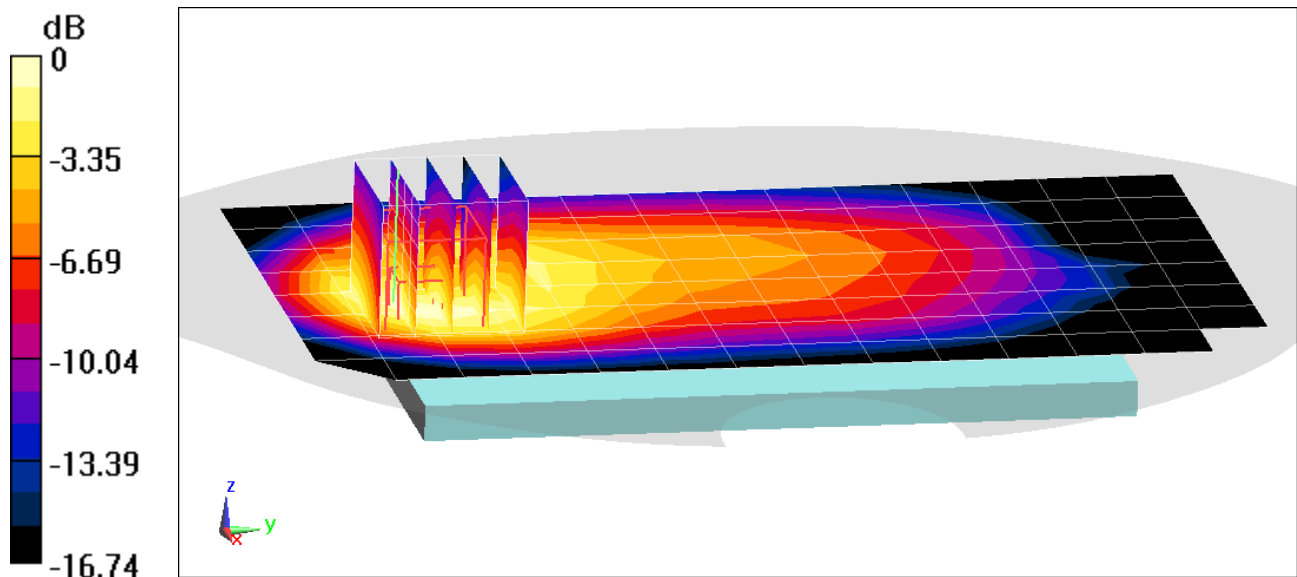
Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.71 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.706 W/kg



0 dB = 0.764 W/kg = -1.17 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, UMTS; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1752.6 \text{ MHz}$; $\sigma = 1.542 \text{ S/m}$; $\epsilon_r = 52.39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date:09-29-2019; Ambient Temp: 18.3°C; Tissue Temp: 18.8°C

Probe: EX3DV4 - SN7357; ConvF(8.26, 8.26, 8.26) @ 1752.6 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Right Back Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 1750, Body SAR, Back side, High.ch

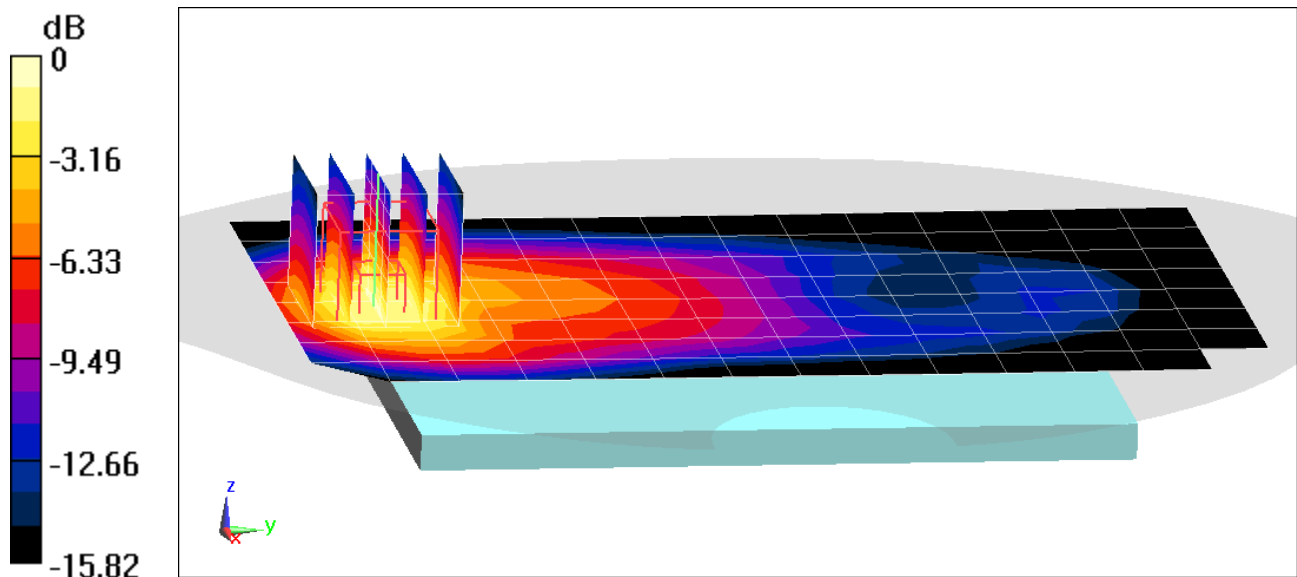
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.15 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.759 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, _UMTS; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1752.6 \text{ MHz}$; $\sigma = 1.542 \text{ S/m}$; $\epsilon_r = 52.39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date:09-29-2019; Ambient Temp: 18.3°C; Tissue Temp: 18.8°C

Probe: EX3DV4 - SN7357; ConvF(8.26, 8.26, 8.26) @ 1752.6 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Right Back Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 1750, Body SAR, Bottom Edge, High.ch

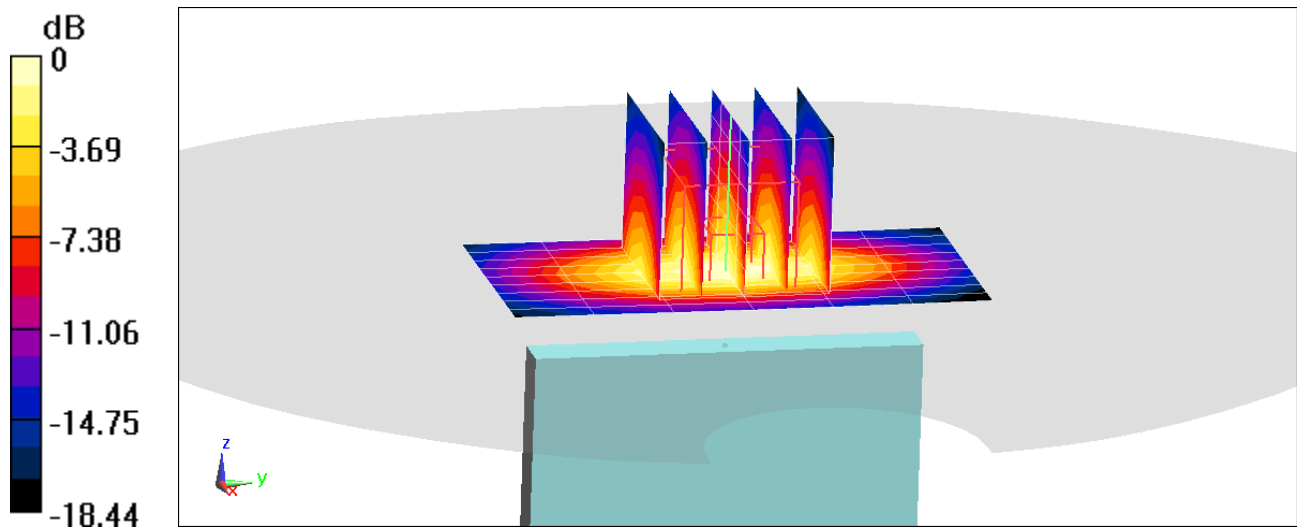
Area Scan (10x7x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.38 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.756 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1907.6 \text{ MHz}$; $\sigma = 1.58 \text{ S/m}$; $\epsilon_r = 52.327$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 10-22-2019; Ambient Temp: 20.6°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7406; ConvF(7.95, 7.95, 7.95) @ 1907.6 MHz; Calibrated: 5/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 5/8/2019

Phantom: Twin-SAM V5.0 Right 30; Type: QD 000 P40 CD; Serial: 1759

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 1900, Body SAR, Back side, High.ch

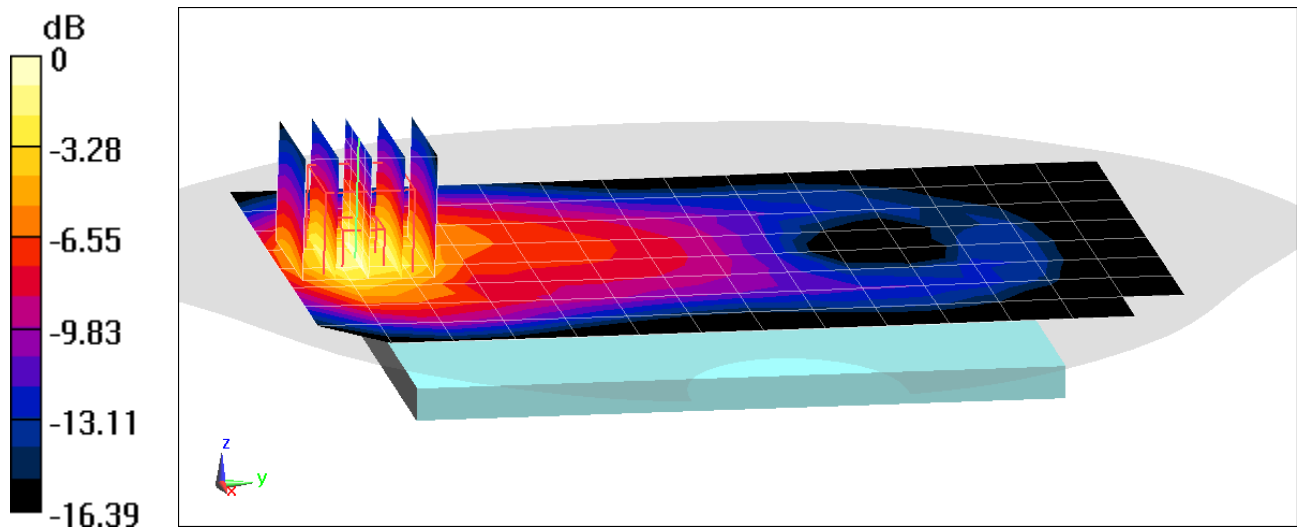
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.56 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.893 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, _UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1907.6 \text{ MHz}$; $\sigma = 1.58 \text{ S/m}$; $\epsilon_r = 52.327$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 10-22-2019; Ambient Temp: 20.6°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7406; ConvF(7.95, 7.95, 7.95) @ 1907.6 MHz; Calibrated: 5/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 5/8/2019

Phantom: Twin-SAM V5.0 Right 30; Type: QD 000 P40 CD; Serial: 1759

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 1900, Body SAR, Bottom Edge, High.ch

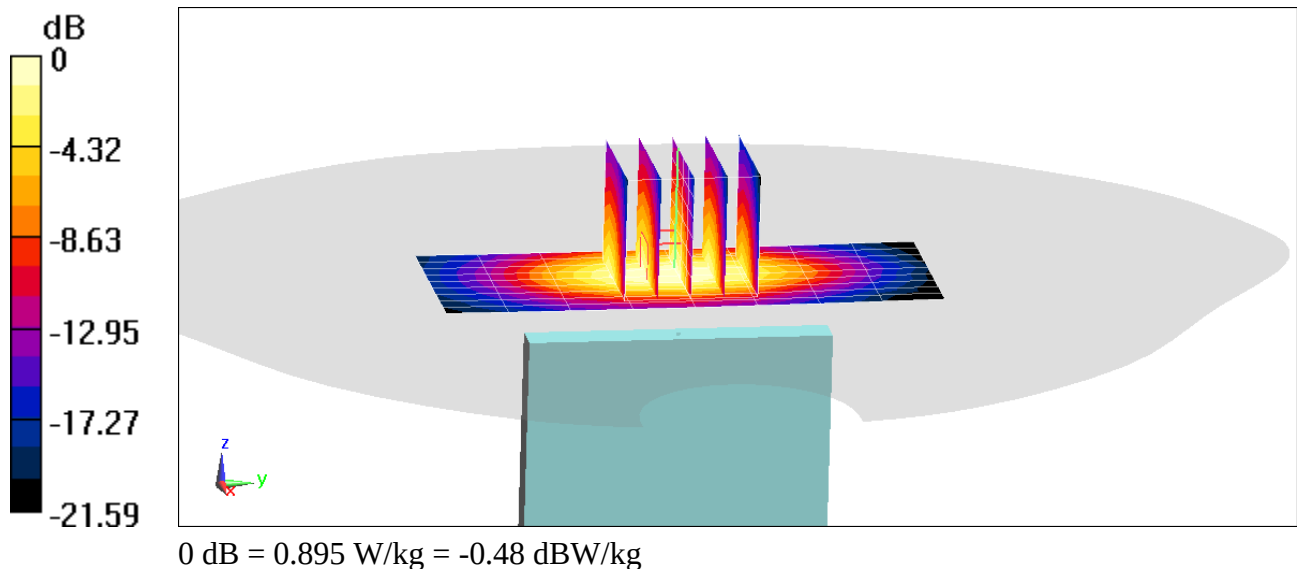
Area Scan (10x9x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.74 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.621 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 55.022$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-16-2019; Ambient Temp: 21.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7488; ConvF(11.28, 11.28, 11.28) @ 680.5 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 71, Body SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

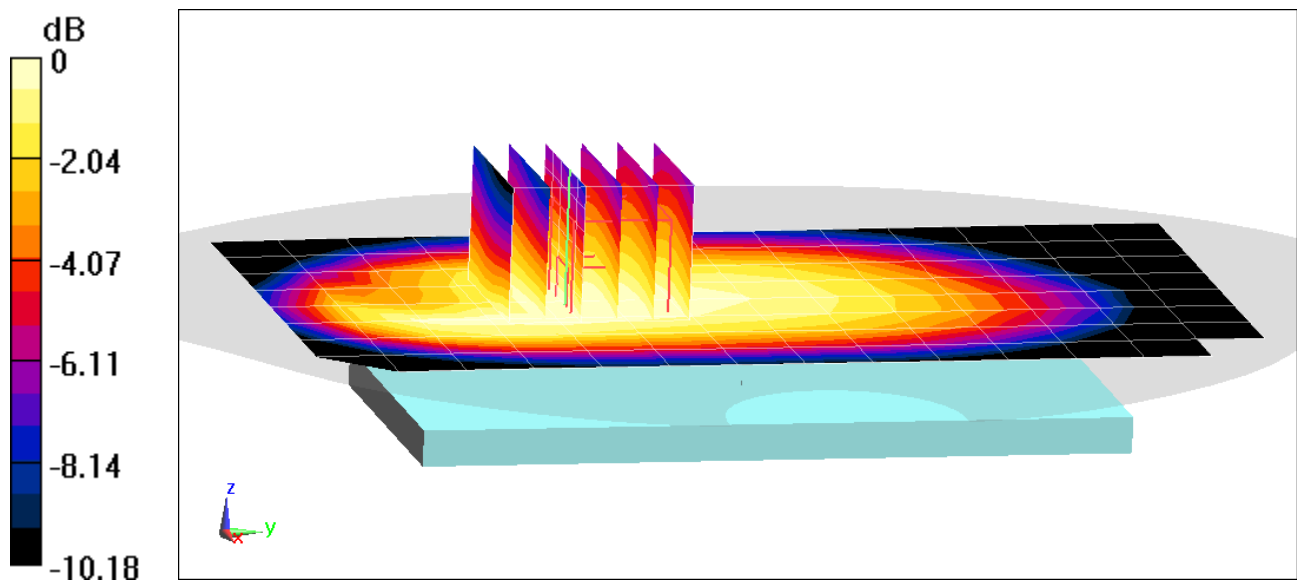
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.96 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.201 W/kg

SAR(1 g) = 0.150 W/kg



0 dB = 0.182 W/kg = -7.40 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 55.022$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-16-2019; Ambient Temp: 21.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7488; ConvF(11.28, 11.28, 11.28) @ 680.5 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 71, Body SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

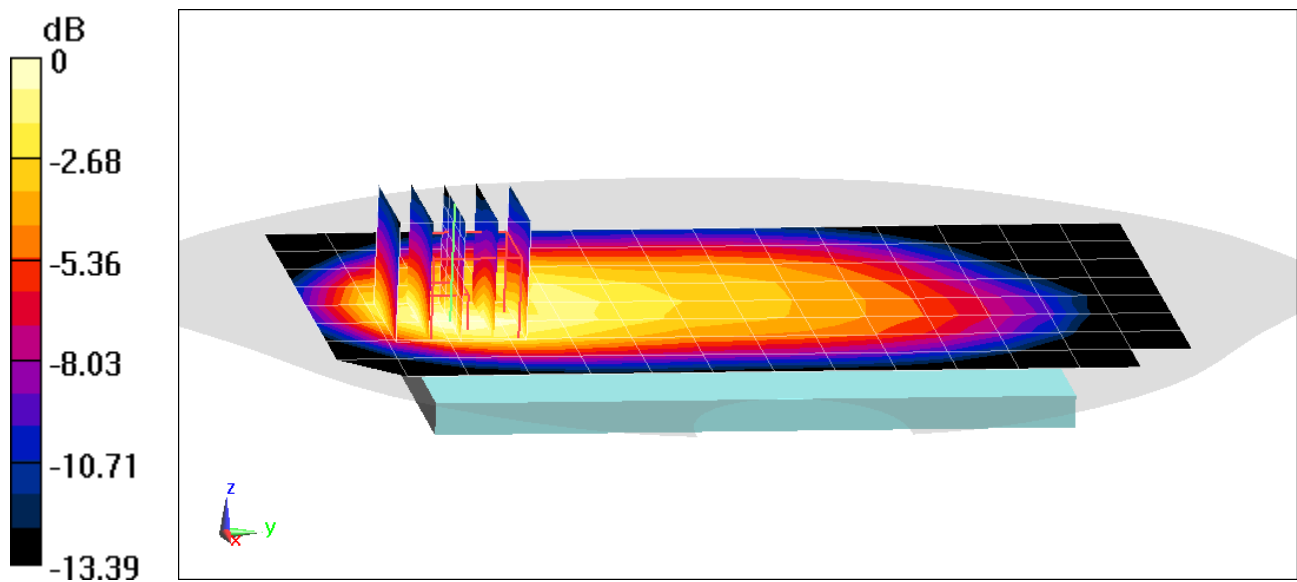
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.01 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.249 W/kg



0 dB = 0.362 W/kg = -4.41 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0428M

Communication System: UID 0, NR Band n71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$; $\sigma = 0.912 \text{ S/m}$; $\epsilon_r = 56.795$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 10-17-2019; Ambient Temp: 21.5°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 680.5 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: NR Band n71, Body SAR, Back Side, 20 MHz Bandwidth,
DFT-s-OFDM QPSK, Mid.ch, 1 RB, 53 RB Offset**

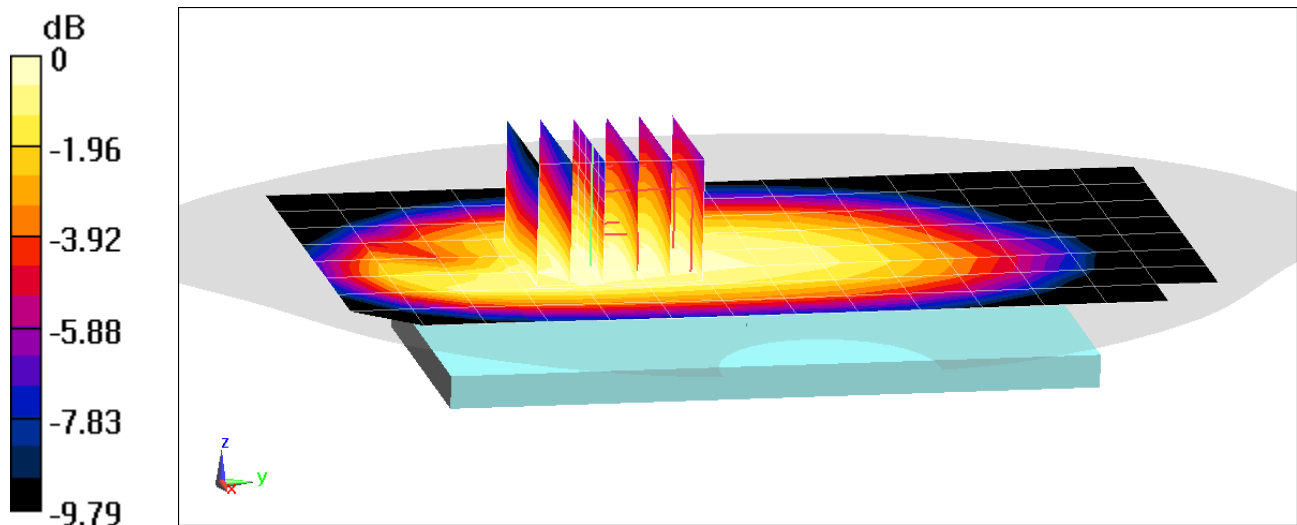
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.04 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.171 W/kg

SAR(1 g) = 0.132 W/kg



0 dB = 0.157 W/kg = -8.04 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0428M

Communication System: UID 0, NR Band n71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$; $\sigma = 0.912 \text{ S/m}$; $\epsilon_r = 56.795$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 10-17-2019; Ambient Temp: 21.5°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 680.5 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: NR Band n71, Body SAR, Back Side, 20 MHz Bandwidth,
DFT-s-OFDM QPSK, Mid.ch, 50 RB, 26 RB Offset**

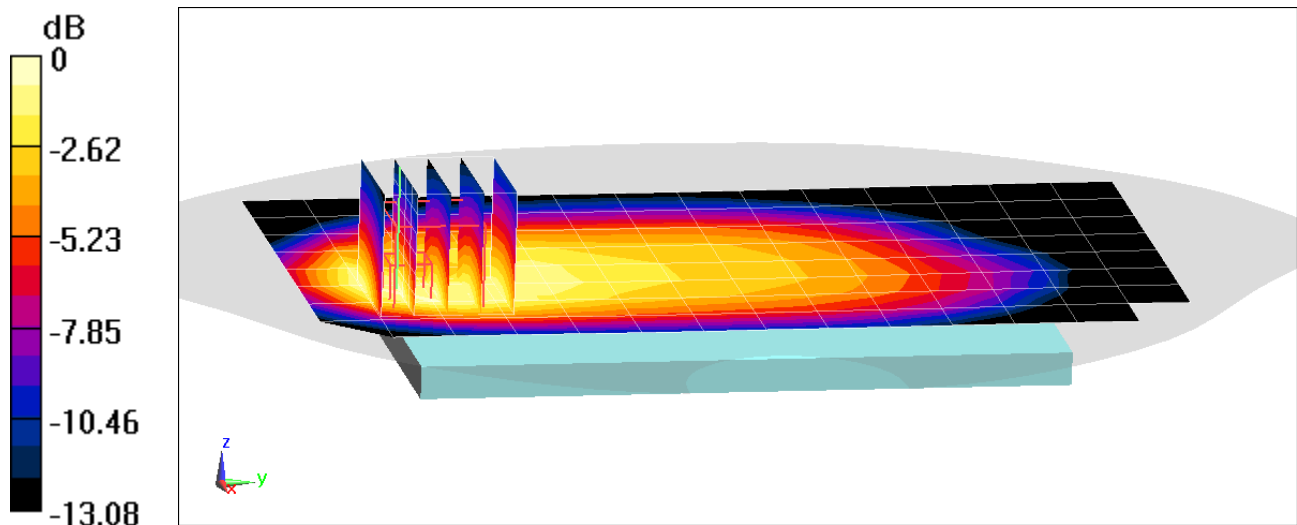
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.35 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.341 W/kg

SAR(1 g) = 0.199 W/kg



0 dB = 0.287 W/kg = -5.42 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 54.954$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-16-2019; Ambient Temp: 21.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7488; ConvF(11.28, 11.28, 11.28) @ 707.5 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 12, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

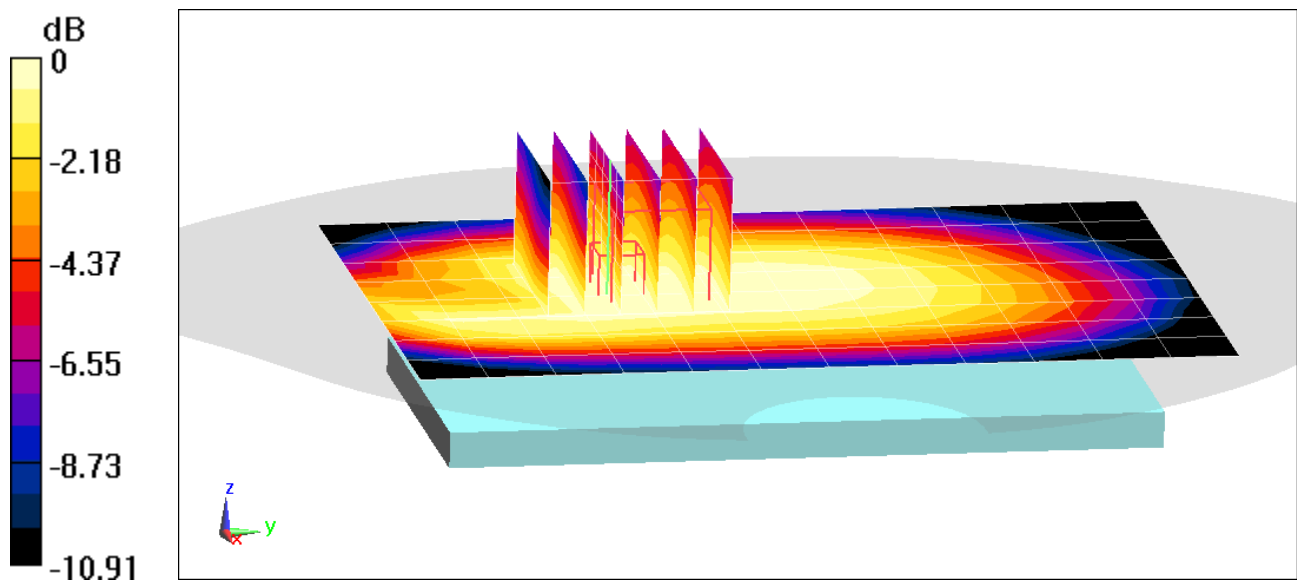
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.82 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.173 W/kg



0 dB = 0.209 W/kg = -6.80 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 54.954$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-16-2019; Ambient Temp: 21.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7488; ConvF(11.28, 11.28, 11.28) @ 707.5 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 12, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

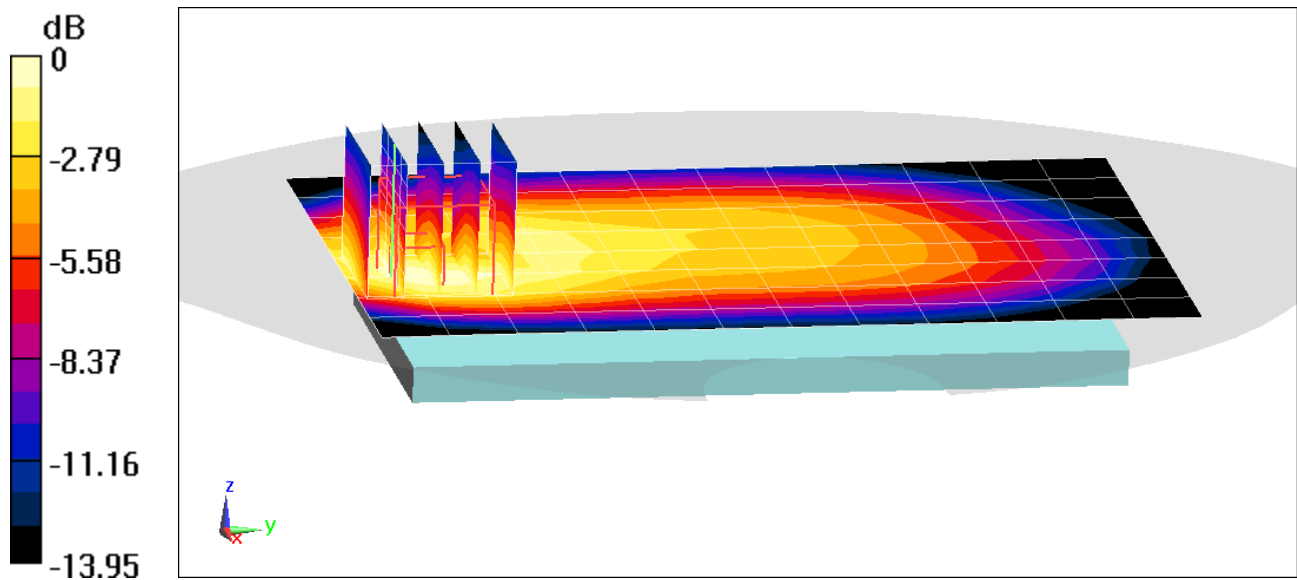
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.75 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.496 W/kg

SAR(1 g) = 0.282 W/kg



0 dB = 0.400 W/kg = -3.98 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 0.962 \text{ S/m}$; $\epsilon_r = 53.757$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-18-2019; Ambient Temp: 20.5°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7488; ConvF(11.28, 11.28, 11.28) @ 782 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 13, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

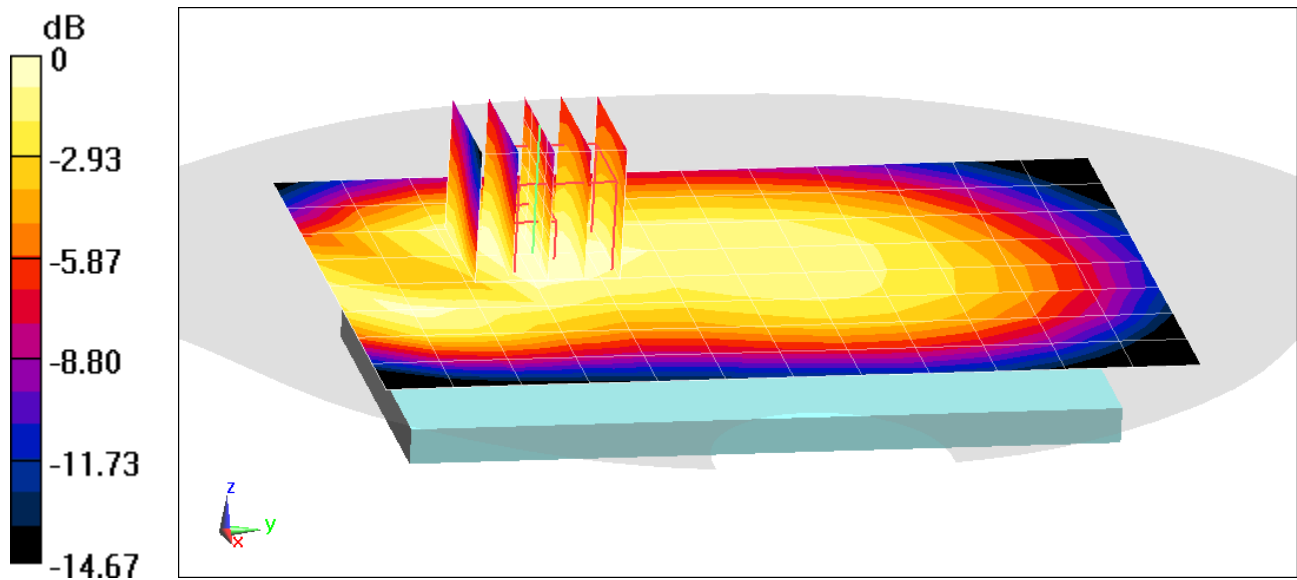
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.83 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.277 W/kg

SAR(1 g) = 0.204 W/kg



0 dB = 0.250 W/kg = -6.02 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 0.962 \text{ S/m}$; $\epsilon_r = 53.757$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-18-2019; Ambient Temp: 20.5°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7488; ConvF(11.28, 11.28, 11.28) @ 782 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 13, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

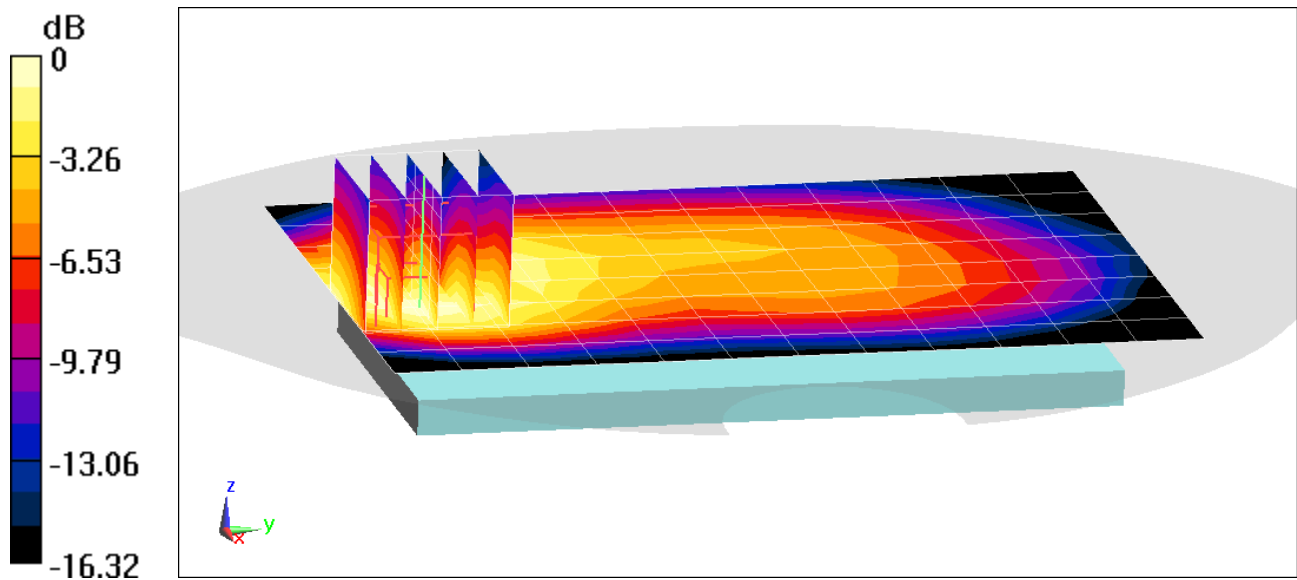
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.48 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.736 W/kg

SAR(1 g) = 0.420 W/kg



0 dB = 0.598 W/kg = -2.23 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 793 \text{ MHz}$; $\sigma = 0.965 \text{ S/m}$; $\epsilon_r = 53.726$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-18-2019; Ambient Temp: 20.5°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7488; ConvF(11.28, 11.28, 11.28) @ 793 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 14, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

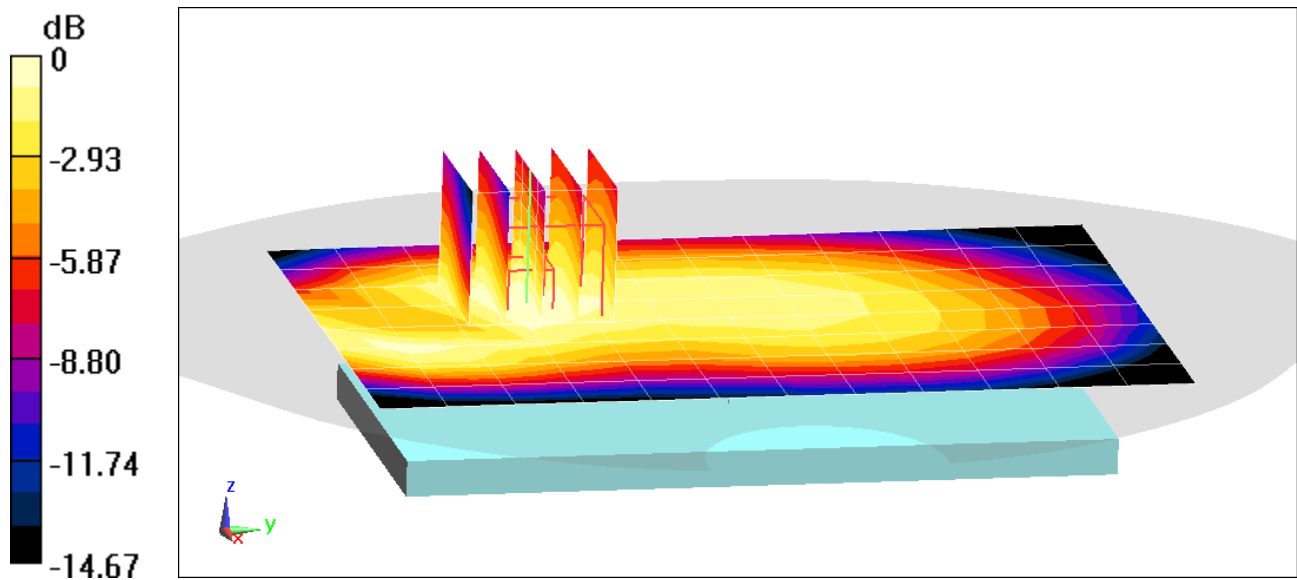
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.88 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.205 W/kg



0 dB = 0.255 W/kg = -5.93 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 793 \text{ MHz}$; $\sigma = 0.965 \text{ S/m}$; $\epsilon_r = 53.726$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-18-2019; Ambient Temp: 20.5°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7488; ConvF(11.28, 11.28, 11.28) @ 793 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 14, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

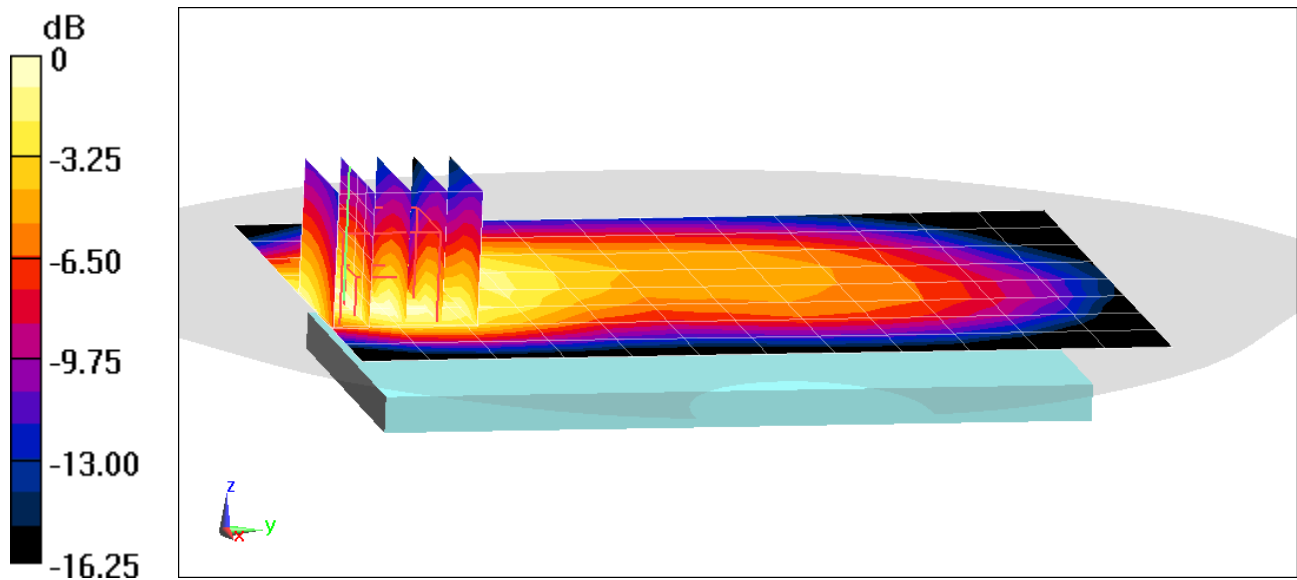
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.99 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.708 W/kg

SAR(1 g) = 0.406 W/kg



0 dB = 0.577 W/kg = -2.39 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 831.5 \text{ MHz}$; $\sigma = 0.942 \text{ S/m}$; $\epsilon_r = 53.35$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-23-2019; Ambient Temp: 21.8°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3914; ConvF(9.46, 9.46, 9.46) @ 831.5 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 2/14/2019

Phantom: Twin-SAM V5.0 Front 30; Type: QD 000 P40 CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 26 (Cell.), Body SAR, Back side, Mid.ch,
15 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

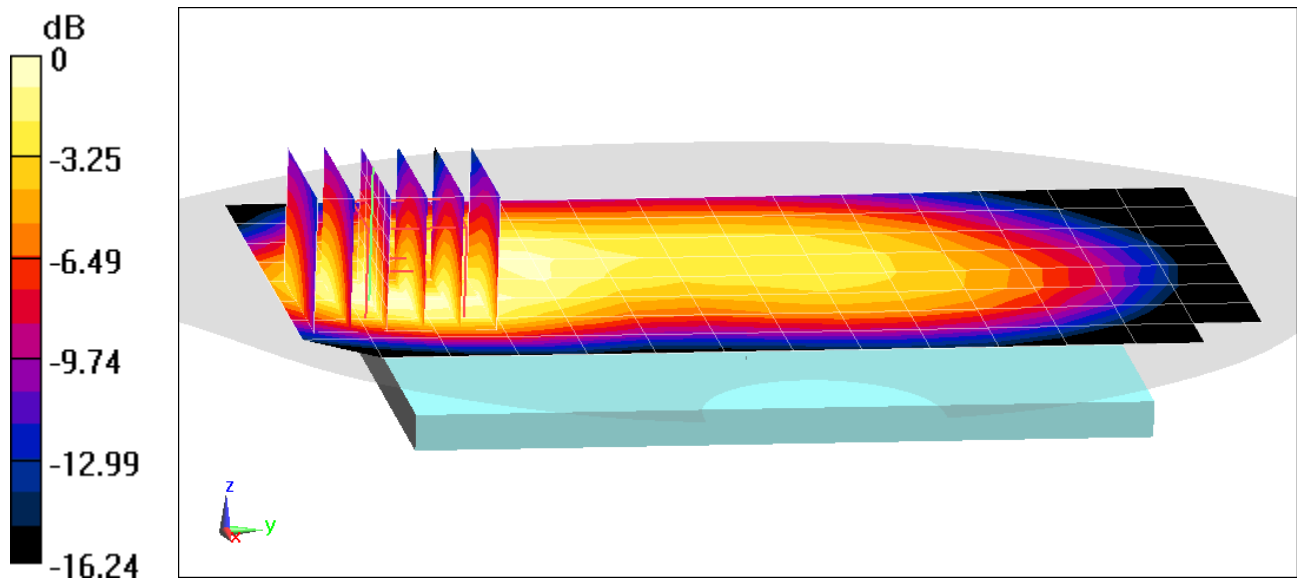
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.84 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.411 W/kg

SAR(1 g) = 0.255 W/kg



0 dB = 0.346 W/kg = -4.61 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 831.5 \text{ MHz}$; $\sigma = 0.942 \text{ S/m}$; $\epsilon_r = 53.35$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-23-2019; Ambient Temp: 21.8°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3914; ConvF(9.46, 9.46, 9.46) @ 831.5 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 2/14/2019

Phantom: Twin-SAM V5.0 Front 30; Type: QD 000 P40 CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 26 (Cell.), Body SAR, Back side, Mid.ch,
15 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

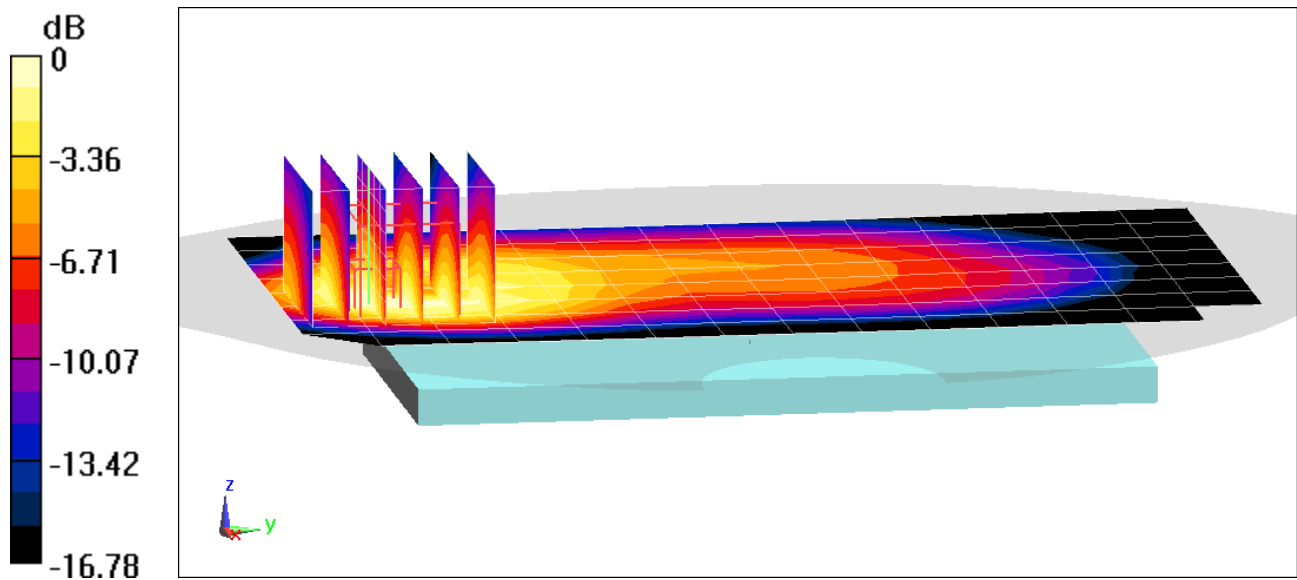
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.97 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.797 W/kg

SAR(1 g) = 0.462 W/kg



0 dB = 0.666 W/kg = -1.77 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.966 \text{ S/m}$; $\epsilon_r = 55.191$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 10-10-2019; Ambient Temp: 23.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7357; ConvF(9.95, 9.95, 9.95) @ 836.5 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1167

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Mode: LTE Band 5 (Cell.), ULCA, Body SAR, Back side, Mid.ch,

PCC: Ch. 20525, 10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

SCC: Ch. 20453, 5 MHz Bandwidth, QPSK, 1 RB, 24 RB Offset

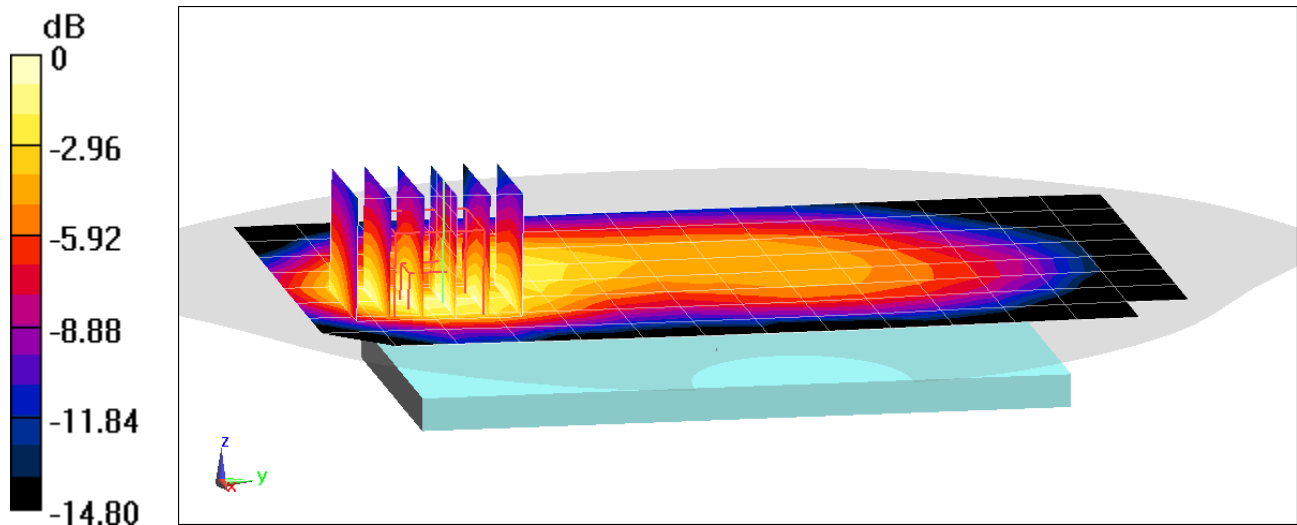
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.28 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.435 W/kg

SAR(1 g) = 0.271 W/kg



0 dB = 0.367 W/kg = -4.35 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0103M

Communication System: UID 0, LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.966 \text{ S/m}$; $\epsilon_r = 55.191$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 10-10-2019; Ambient Temp: 23.5°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7357; ConvF(9.95, 9.95, 9.95) @ 836.5 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1167

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Mode: LTE Band 5 (Cell.), ULCA, Body SAR, Back side, Mid.ch,

PCC: Ch. 20525, 10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

SCC: Ch. 20453, 5 MHz Bandwidth, QPSK, 1 RB, 24 RB Offset

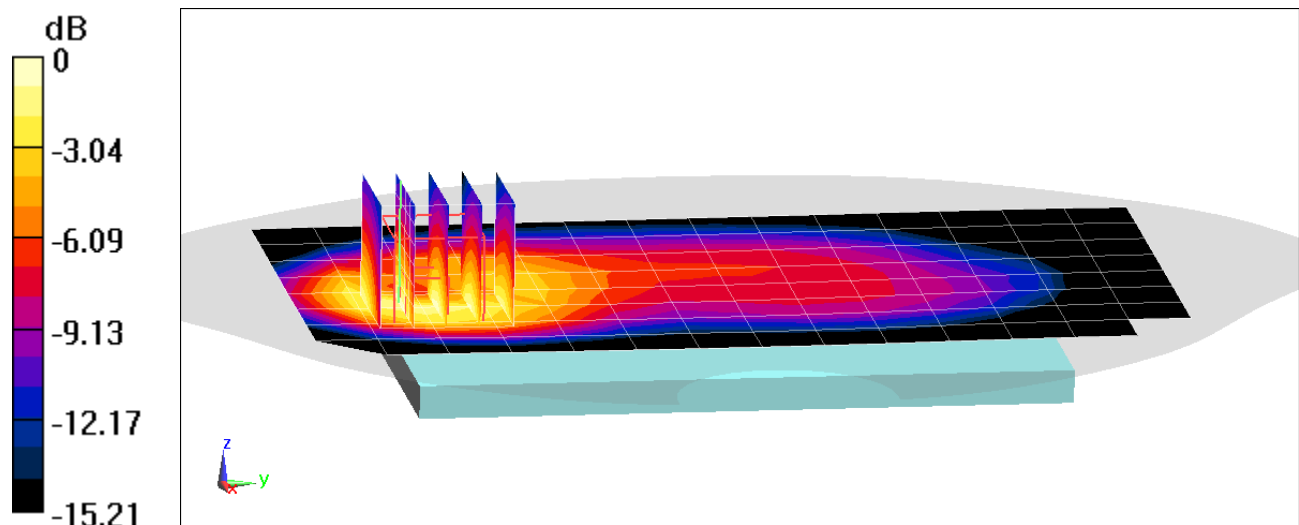
Area Scan (9x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.33 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.988 W/kg

SAR(1 g) = 0.583 W/kg



0 dB = 0.815 W/kg = -0.89 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0665M

Communication System: UID 0, NR Band n5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.979 \text{ S/m}$; $\epsilon_r = 52.626$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 10-17-2019; Ambient Temp: 19.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7551; ConvF(9.92, 9.92, 9.92) @ 836.5 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: NR Band n5 (Cell.), Body SAR, Back side, Mid.ch,
20 MHz Bandwidth, DFT-s-OFDM QPSK, 50 RB, 26 RB Offset**

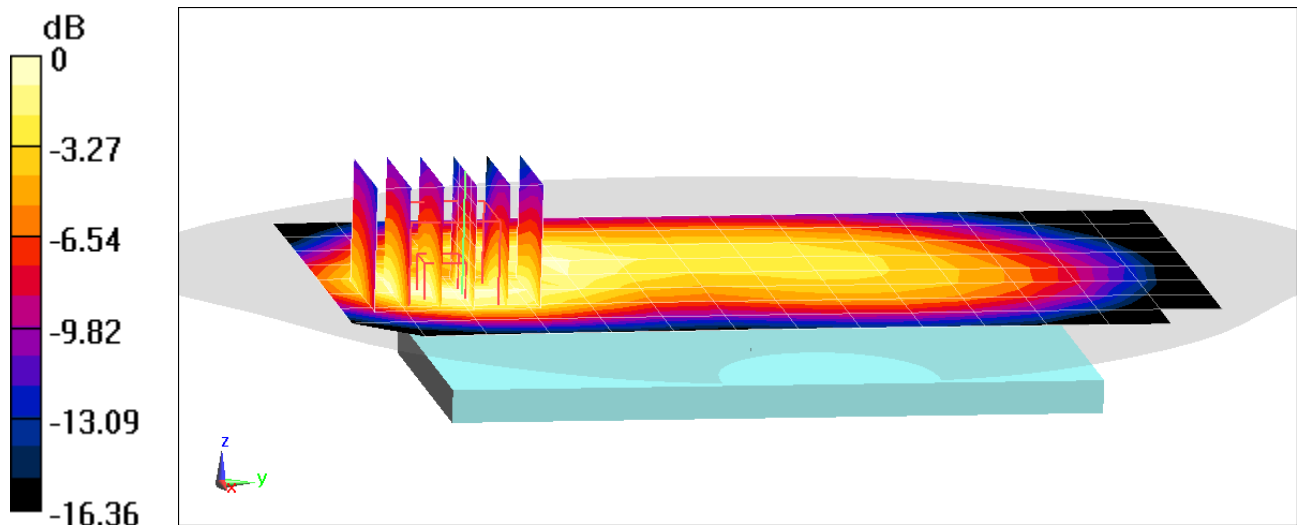
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.65 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.433 W/kg

SAR(1 g) = 0.261 W/kg



0 dB = 0.358 W/kg = -4.46 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0665M

Communication System: UID 0, NR Band n5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.979 \text{ S/m}$; $\epsilon_r = 52.626$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 10-17-2019; Ambient Temp: 19.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7551; ConvF(9.92, 9.92, 9.92) @ 836.5 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: NR Band n5 (Cell.), Body SAR, Back side, Mid.ch,
20 MHz Bandwidth, DFT-s-OFDM QPSK, 1 RB, 1 RB Offset**

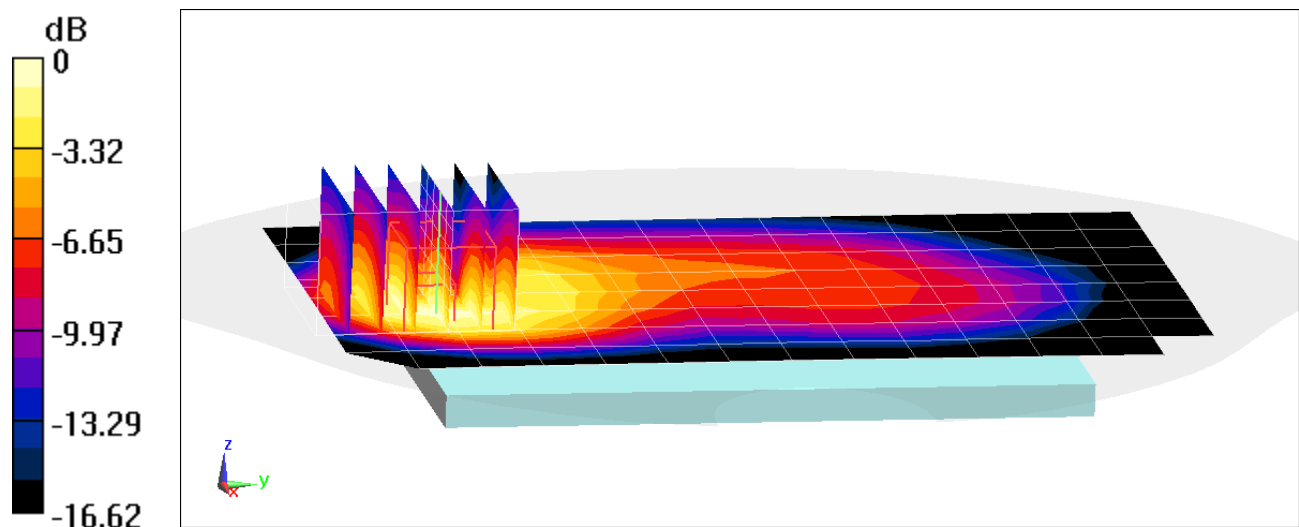
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.98 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.998 W/kg

SAR(1 g) = 0.574 W/kg



0 dB = 0.824 W/kg = -0.84 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1745 \text{ MHz}$; $\sigma = 1.527 \text{ S/m}$; $\epsilon_r = 52.121$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-25-2019; Ambient Temp: 21.8°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7357; ConvF(8.26, 8.26, 8.26) @ 1745 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Right Back Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 66 (AWS), Body SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

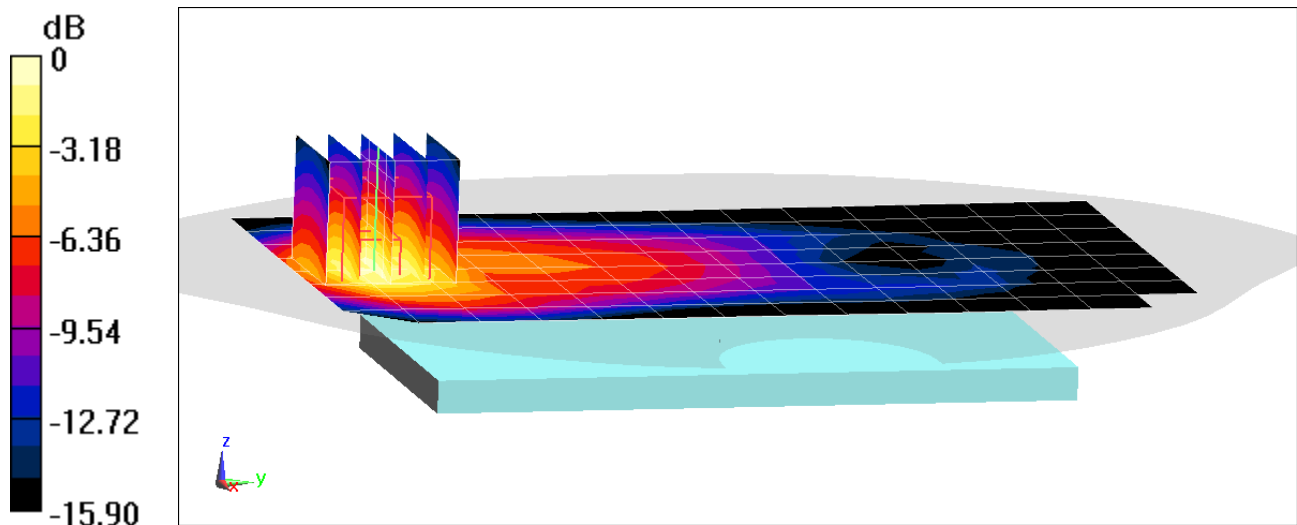
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.16 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.835 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, _LTE Band 66 (AWS); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1770 \text{ MHz}$; $\sigma = 1.554 \text{ S/m}$; $\epsilon_r = 52.026$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-25-2019; Ambient Temp: 21.8°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7357; ConvF(8.26, 8.26, 8.26) @ 1770 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Right Back Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 66 (AWS), Body SAR, Bottom Edge, High.ch,
20 MHz Bandwidth, QPSK, 50 RB, 25 RB Offset**

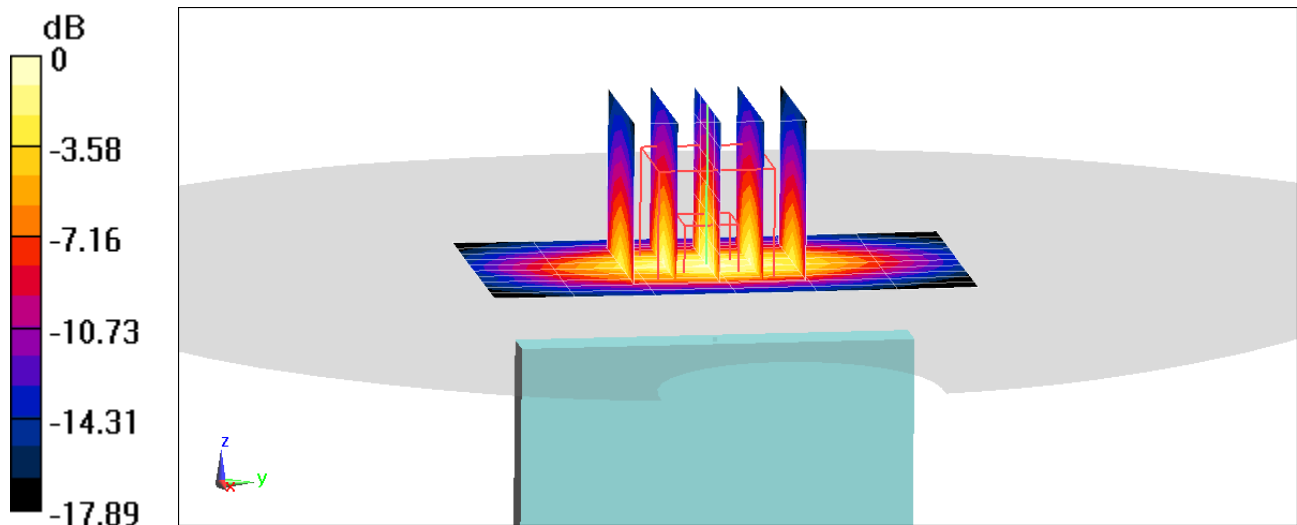
Area Scan (11x7x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.32 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 1.2 W/kg



0 dB = 1.81 W/kg = 2.58 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1860 \text{ MHz}$; $\sigma = 1.52 \text{ S/m}$; $\epsilon_r = 53.638$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-16-2019; Ambient Temp: 22.1°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN3914; ConvF(7.6, 7.6, 7.6) @ 1860 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 2/14/2019

Phantom: Twin-SAM V5.0 Front 30; Type: QD 000 P40 CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 25 (PCS), Body SAR, Back side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

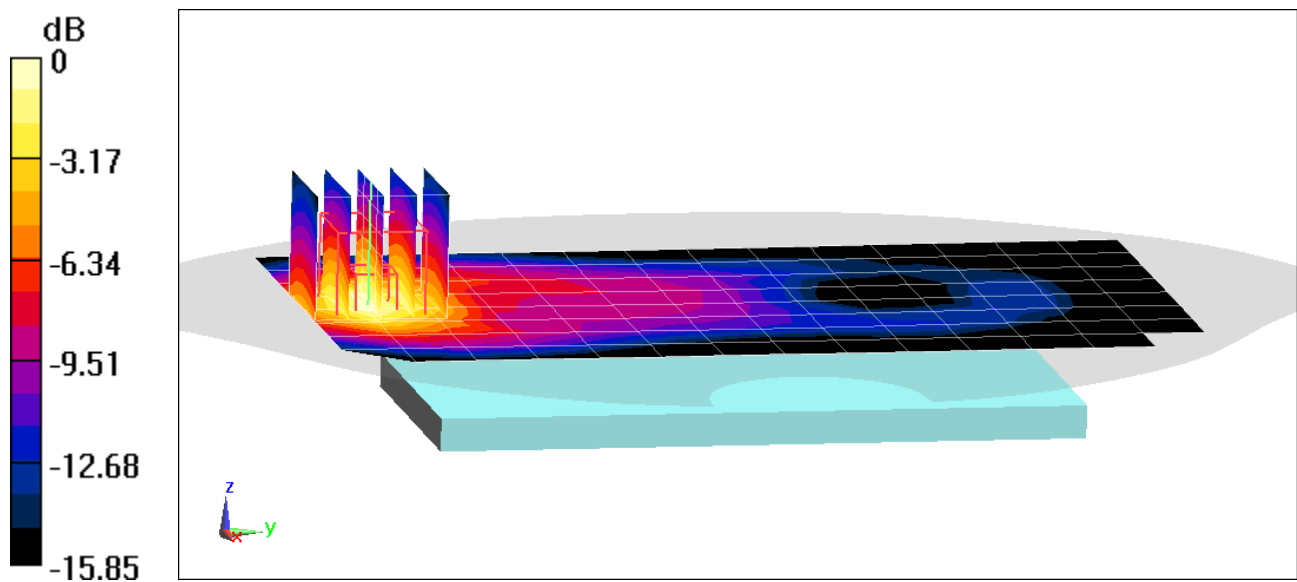
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.42 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.951 W/kg

SAR(1 g) = 0.575 W/kg



0 dB = 0.812 W/kg = -0.90 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1905 \text{ MHz}$; $\sigma = 1.562 \text{ S/m}$; $\epsilon_r = 52.205$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 11-04-2019; Ambient Temp: 22.3°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1905 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 25 (PCS), Body SAR, Bottom Edge, High.ch,
20 MHz Bandwidth, QPSK, 50 RB, 25 RB Offset**

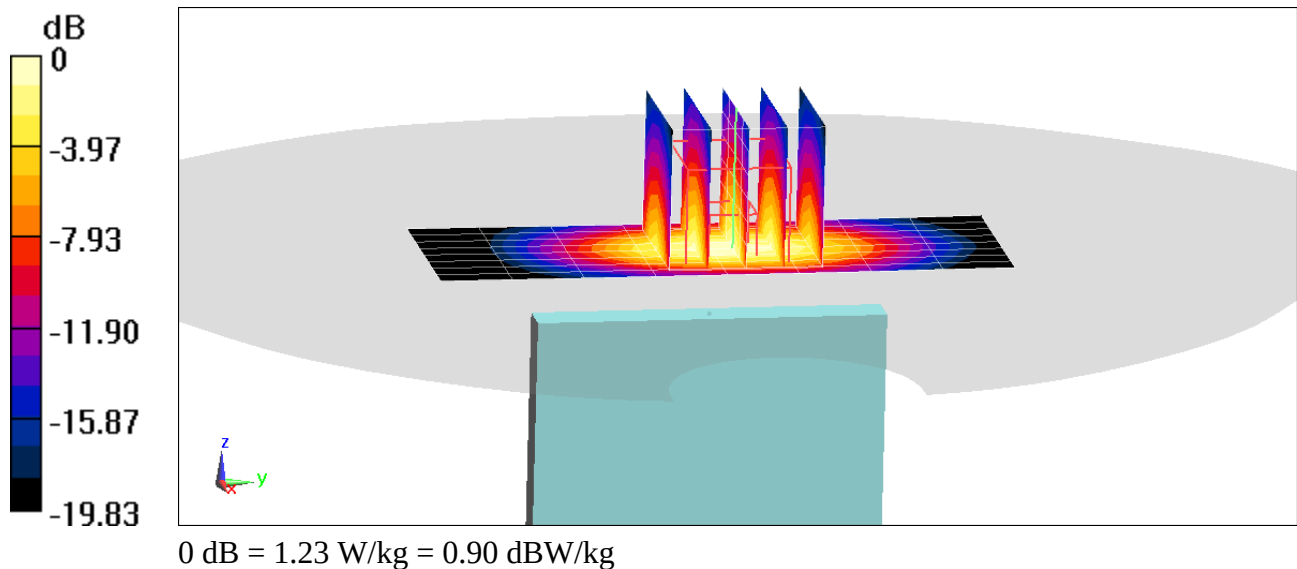
Area Scan (9x9x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.88 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.792 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, LTE Band 2 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1860 \text{ MHz}$; $\sigma = 1.528 \text{ S/m}$; $\epsilon_r = 52.586$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-30-2019; Ambient Temp: 23.0°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7547; ConvF(7.53, 7.53, 7.53) @ 1860 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: Right Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1797

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 2 (PCS), Body SAR, Back side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

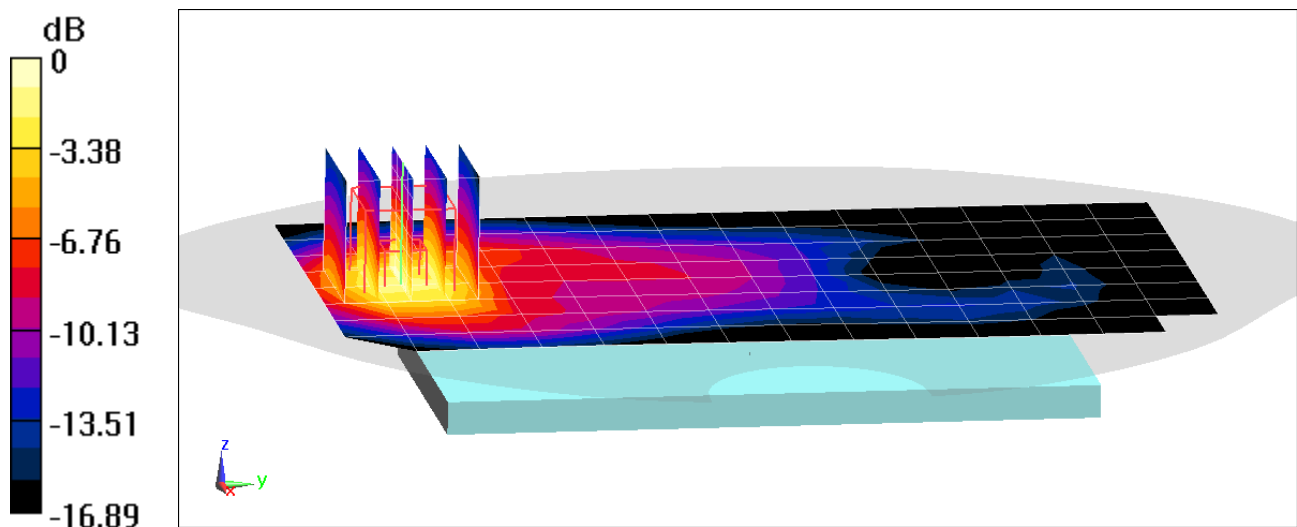
Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.65 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.734 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, LTE Band 2 (PCS); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.574 \text{ S/m}$; $\epsilon_r = 52.447$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-30-2019; Ambient Temp: 23.0°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7547; ConvF(7.53, 7.53, 7.53) @ 1900 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: Right Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1797

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 2 (PCS), Body SAR, Bottom Edge, High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

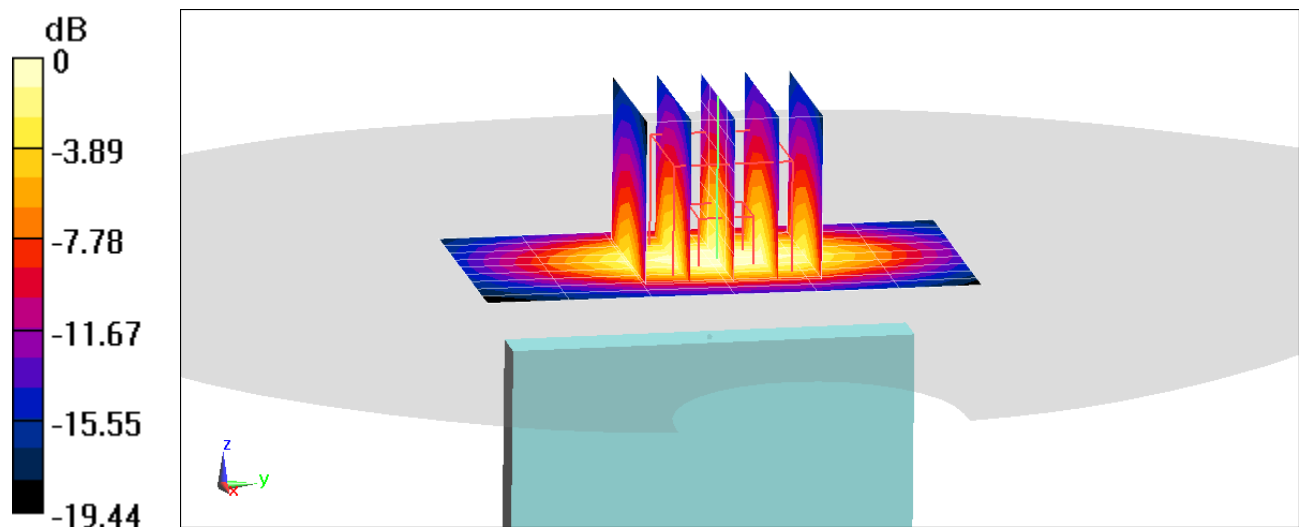
Area Scan (10x7x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.24 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.713 W/kg



0 dB = 1.09 W/kg = 0.37 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2310 \text{ MHz}$; $\sigma = 1.813 \text{ S/m}$; $\epsilon_r = 52.637$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-16-2019; Ambient Temp: 21.2°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7357; ConvF(7.72, 7.72, 7.72) @ 2310 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1167

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 30, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

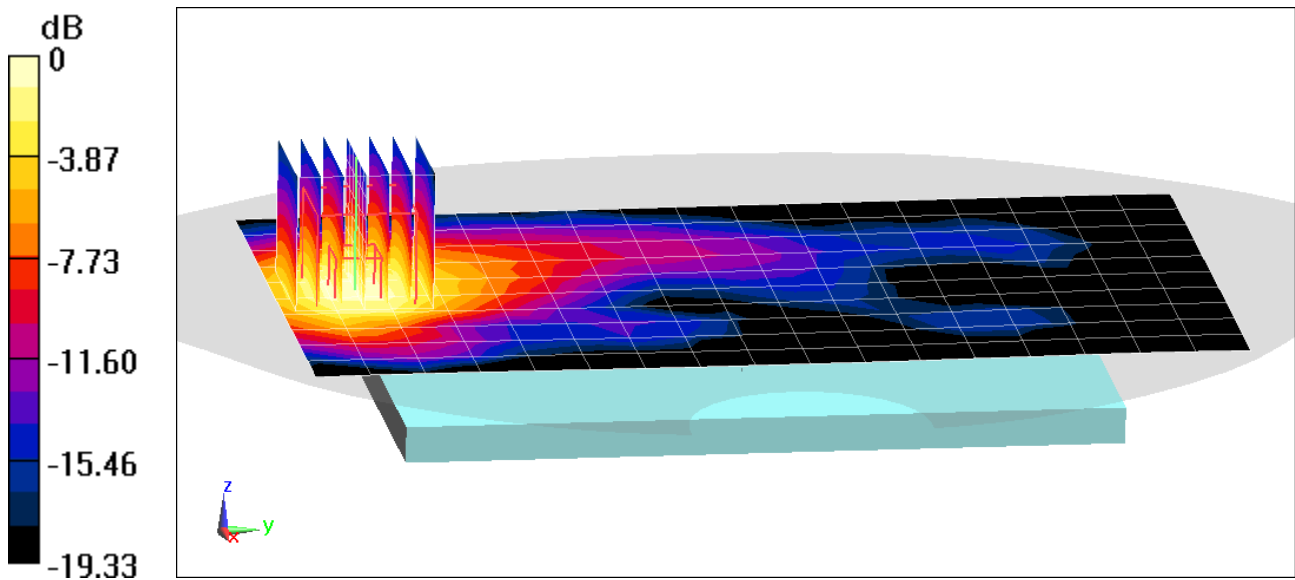
Area Scan (11x18x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.40 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.920 W/kg

SAR(1 g) = 0.503 W/kg



0 dB = 0.760 W/kg = -1.19 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2310 \text{ MHz}$; $\sigma = 1.882 \text{ S/m}$; $\epsilon_r = 52.355$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 10-24-2019; Ambient Temp: 23.4°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7547; ConvF(7.47, 7.47, 7.47) @ 2310 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 30, Body SAR, Bottom Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

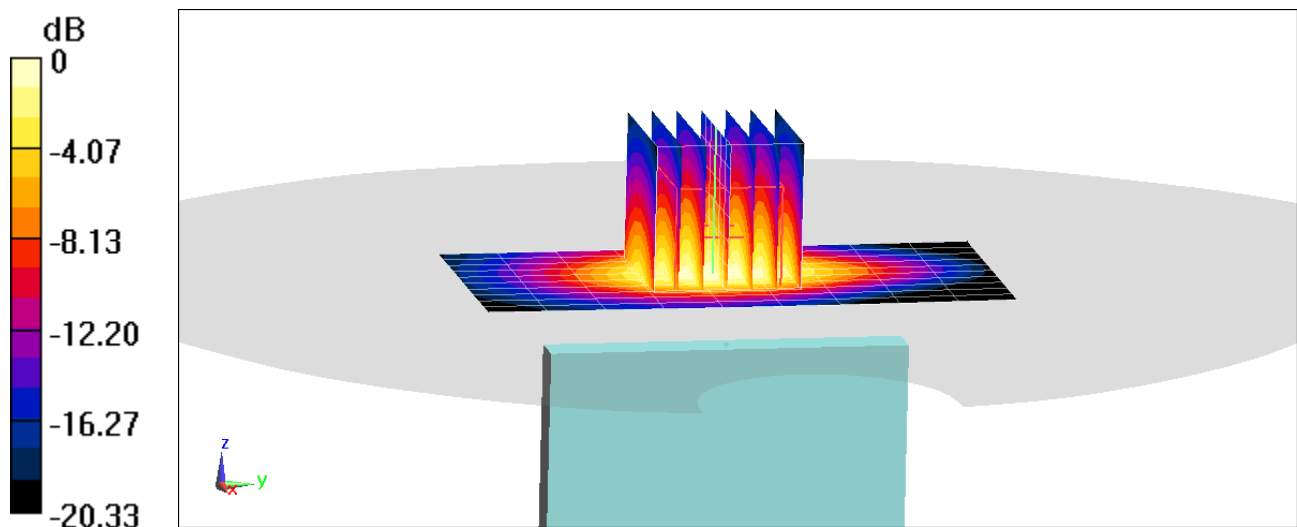
Area Scan (11x10x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.24 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.20 W/kg

SAR(1 g) = 1.14 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2510 \text{ MHz}$; $\sigma = 2.106 \text{ S/m}$; $\epsilon_r = 50.666$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-22-2019; Ambient Temp: 21.2°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2510 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 7, Body SAR, Back side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

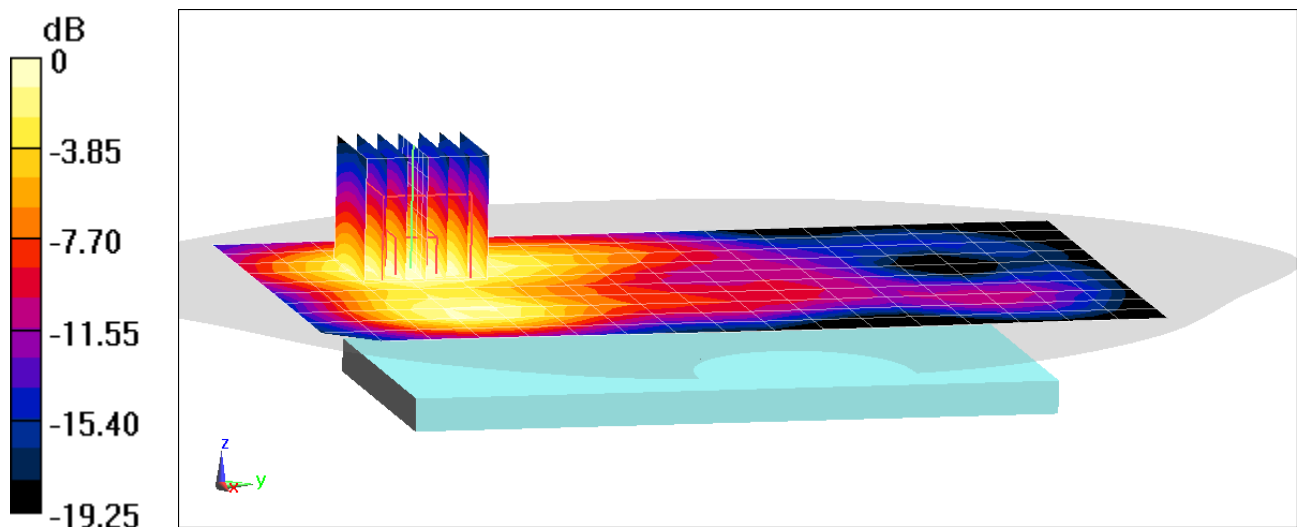
Area Scan (11x18x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.27 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.618 W/kg

SAR(1 g) = 0.336 W/kg



0 dB = 0.509 W/kg = -2.93 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, LTE Band 7; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2560 \text{ MHz}$; $\sigma = 2.164 \text{ S/m}$; $\epsilon_r = 50.525$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-22-2019; Ambient Temp: 21.2°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7547; ConvF(7.18, 7.18, 7.18) @ 2560 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 7, Body SAR, Bottom Edge, High.ch,
20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

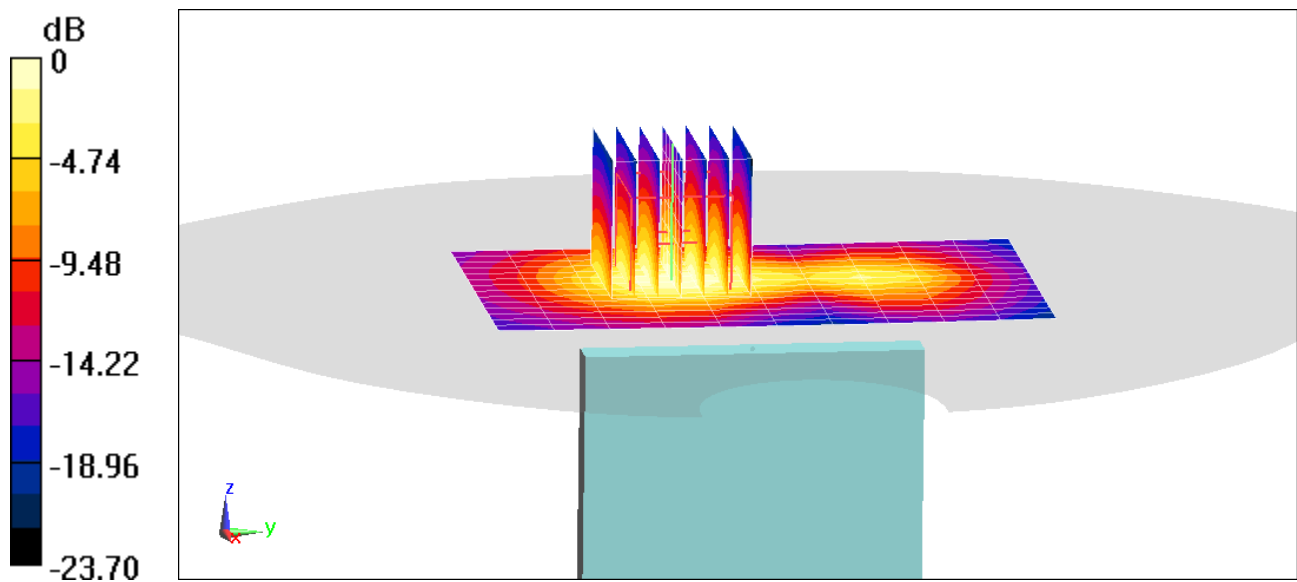
Area Scan (15x11x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.88 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.789 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0073M

Communication System: UID 0, LTE Band 48; Frequency: 3646.7 MHz; Duty Cycle: 1:1.58

Medium: 3500-3700 Body Medium parameters used (interpolated):

$f = 3646.7$ MHz; $\sigma = 3.325$ S/m; $\epsilon_r = 49.608$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-19-2019; Ambient Temp: 21.1°C; Tissue Temp: 19.6°C

Probe: EX3DV4 - SN3589; ConvF(6.13, 6.13, 6.13) @ 3646.7 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/7/2018

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1177

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 48, Body SAR, Back side, Mid-High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

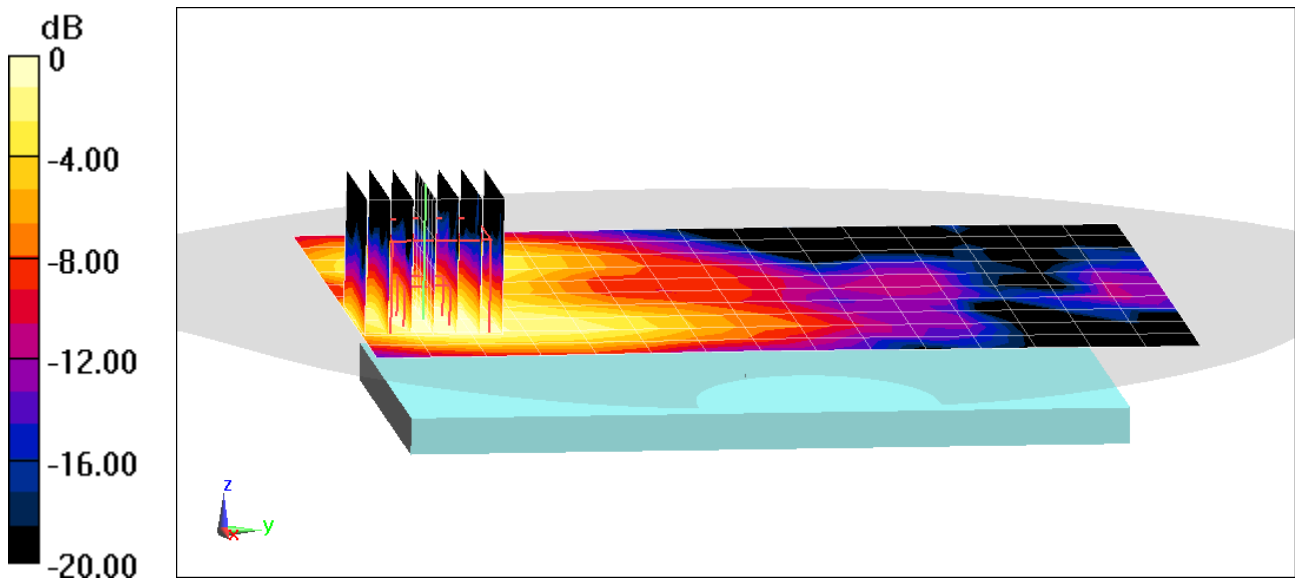
Area Scan (11x16x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 5.947 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.290 W/kg

SAR(1 g) = 0.111 W/kg



0 dB = 0.203 W/kg = -6.93 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0073M

Communication System: UID 0, LTE Band 48; Frequency: 3646.7 MHz; Duty Cycle: 1:1.58

Medium: 3500-3700 Body Medium parameters used (interpolated):

$f = 3646.7 \text{ MHz}$; $\sigma = 3.325 \text{ S/m}$; $\epsilon_r = 49.608$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-19-2019; Ambient Temp: 21.1°C; Tissue Temp: 19.6°C

Probe: EX3DV4 - SN3589; ConvF(6.13, 6.13, 6.13) @ 3646.7 MHz; Calibrated: 1/25/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/7/2018

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1177

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 48, Body SAR, Bottom Edge, Mid-High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

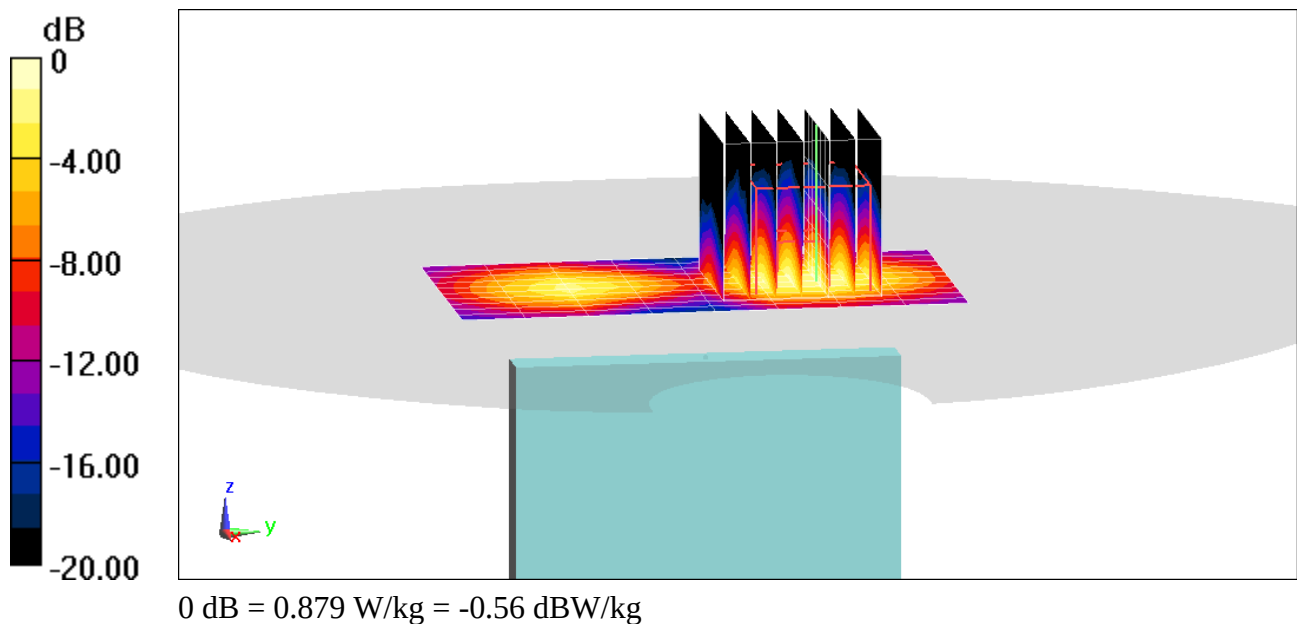
Area Scan (11x9x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 12.24 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.468 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, _LTE Band 41 (Class 2); Frequency: 2636.5 MHz; Duty Cycle: 1:2.31

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2636.5 \text{ MHz}$; $\sigma = 2.258 \text{ S/m}$; $\epsilon_r = 51.524$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 10-02-2019; Ambient Temp: 22.3°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN3914; ConvF(7.15, 7.15, 7.15) @ 2636.5 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 2/14/2019

Phantom: Twin-SAM V5.0 Left 30; Type: QD 000 P40 CD; Serial: 1687

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 41, PC2, Body SAR, Back side, Mid-High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

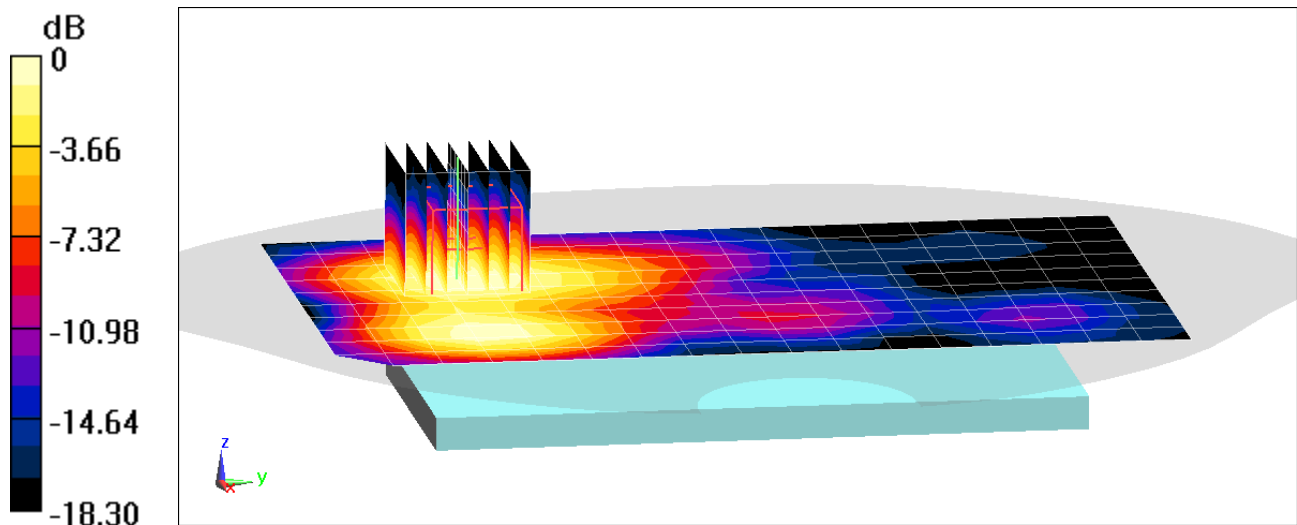
Area Scan (11x18x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.68 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.582 W/kg

SAR(1 g) = 0.290 W/kg



0 dB = 0.462 W/kg = -3.35 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2549.5 MHz; Duty Cycle: 1:1.58

Medium: 2450 Body Medium parameters used:

$f = 2550$ MHz; $\sigma = 2.154$ S/m; $\epsilon_r = 51.773$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 10-02-2019; Ambient Temp: 22.3°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN3914; ConvF(7.15, 7.15, 7.15) @ 2549.5 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 2/14/2019

Phantom: Twin-SAM V5.0 Left 30; Type: QD 000 P40 CD; Serial: 1687

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 41, PC3, Body SAR, Bottom Edge, Low-Mid.ch,
20 MHz Bandwidth, QPSK, 50 RB, 25 RB Offset**

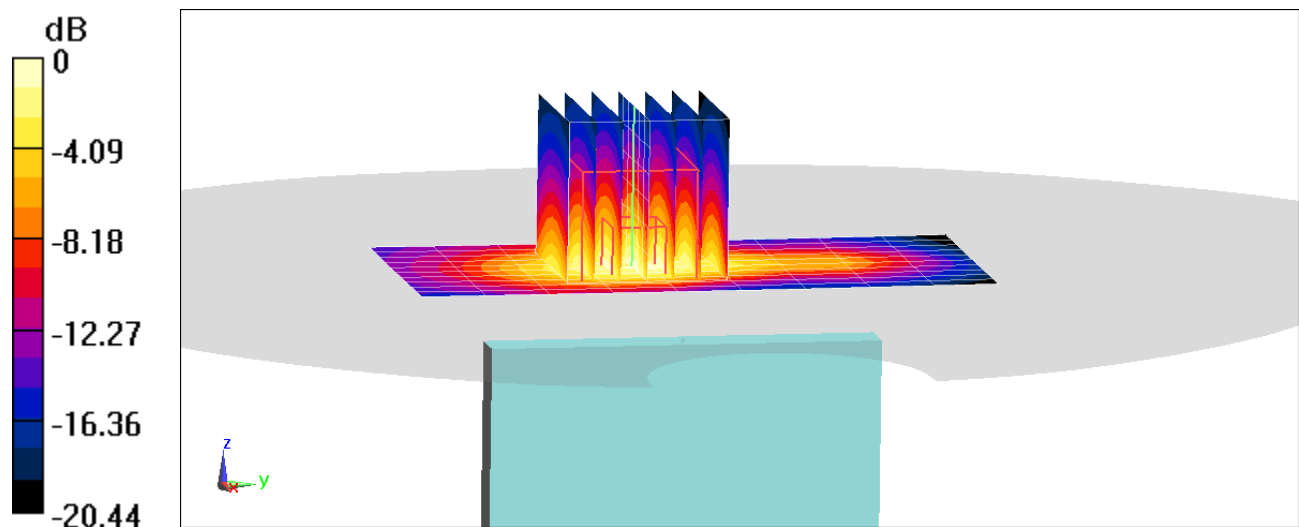
Area Scan (11x10x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.11 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.717 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0585M

Communication System: UID 0, IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2412 \text{ MHz}$; $\sigma = 1.965 \text{ S/m}$; $\epsilon_r = 51.912$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-16-2019; Ambient Temp: 22.9°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2412 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Antenna 1,
Body SAR, Ch 1, 1 Mbps, Back Side**

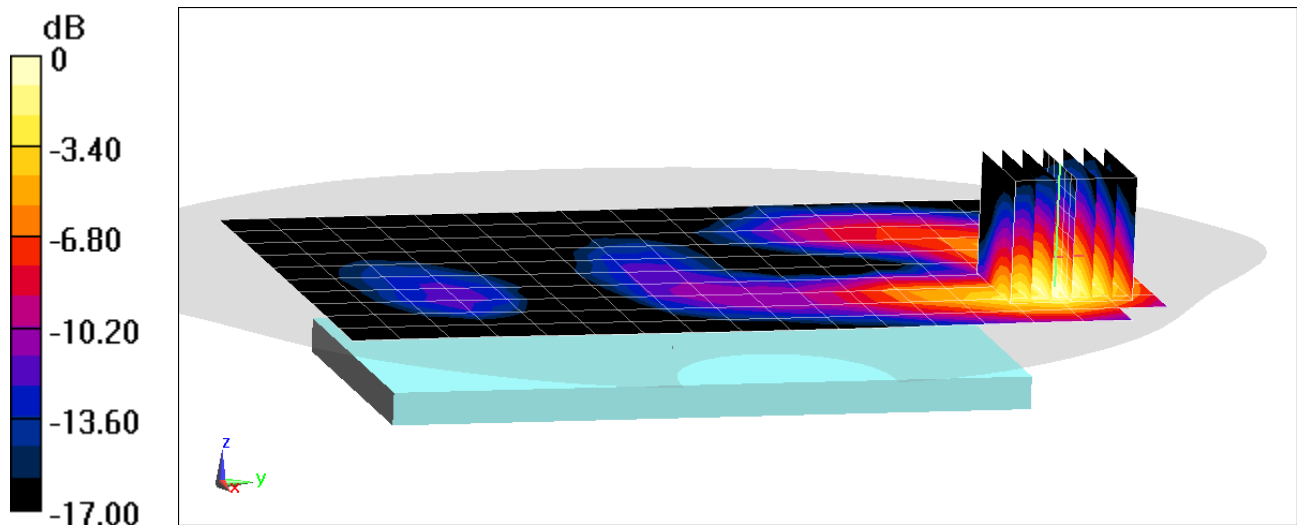
Area Scan (11x18x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.427 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.234 W/kg

SAR(1 g) = 0.123 W/kg



0 dB = 0.194 W/kg = -7.12 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0585M

Communication System: UID 0, _IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2412 \text{ MHz}$; $\sigma = 1.965 \text{ S/m}$; $\epsilon_r = 51.912$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-16-2019; Ambient Temp: 22.9°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2412 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Antenna 1,
Body SAR, Ch 1, 1 Mbps, Top Edge**

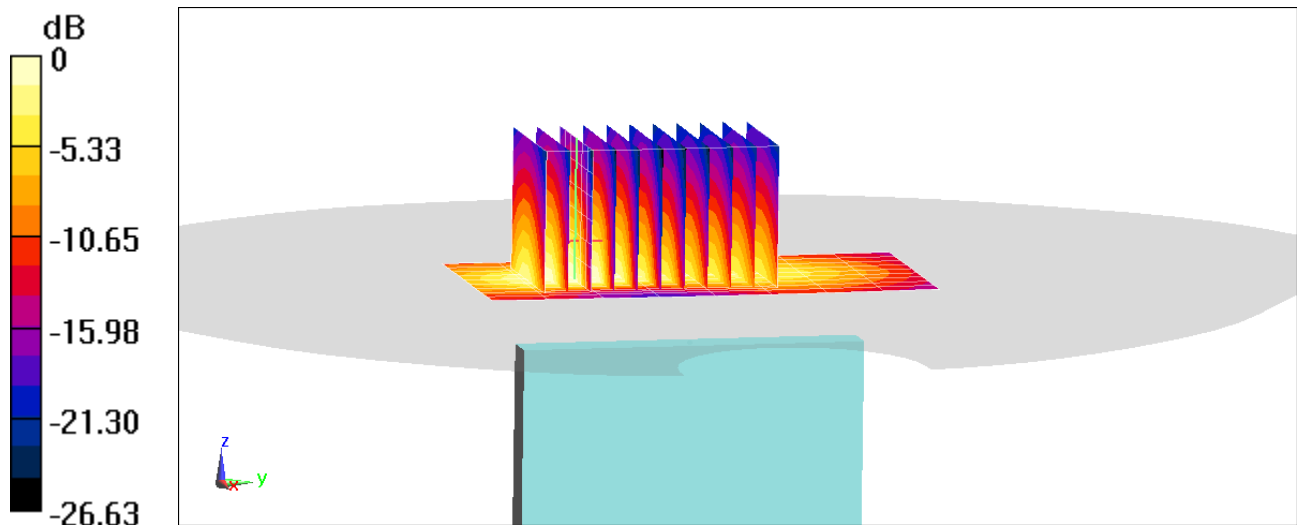
Area Scan (10x9x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (7x11x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.296 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.722 W/kg

SAR(1 g) = 0.341 W/kg



0 dB = 0.539 W/kg = -2.68 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN967U; Type: Portable Handset; Serial: 0585M

Communication System: UID 0, 802.11n 5.2-5.8 GHz Band; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used:

$f = 5825 \text{ MHz}$; $\sigma = 6.285 \text{ S/m}$; $\epsilon_r = 47.455$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-30-2019; Ambient Temp: 20.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7410; ConvF(4.6, 4.6, 4.6) @ 5825 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: IEEE 802.11n, UNII-3, 20 MHz Bandwidth, MIMO,
Body SAR, Ch 165, 13 Mbps, Back Side**

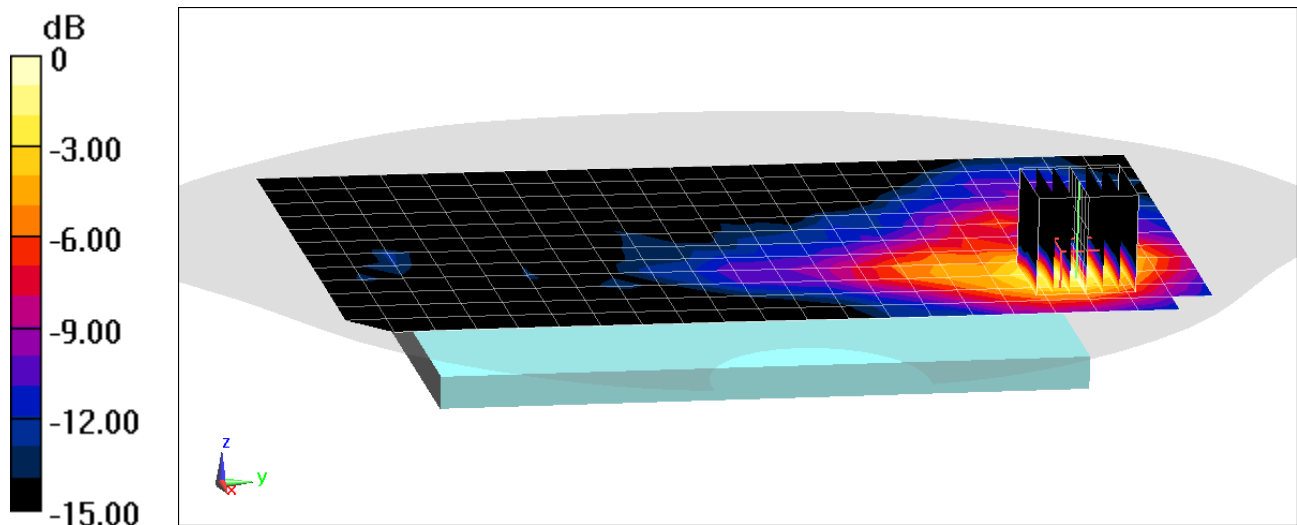
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 7.124 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.303 W/kg



0 dB = 0.724 W/kg = -1.40 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN967U; Type: Portable Handset; Serial: 0585M

Communication System: UID 0, 802.11n 5.2-5.8 GHz Band; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used:

$f = 5825 \text{ MHz}$; $\sigma = 6.216 \text{ S/m}$; $\epsilon_r = 47.424$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 10-28-2019; Ambient Temp: 22.8°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7409; ConvF(4.23, 4.23, 4.23) @ 5825 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: SAM Left; Type: QD000P40CA; Serial: TP:82355

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: IEEE 802.11n, UNII-3, 20 MHz Bandwidth, MIMO,
Body SAR, Ch 165, 13 Mbps, Back Side**

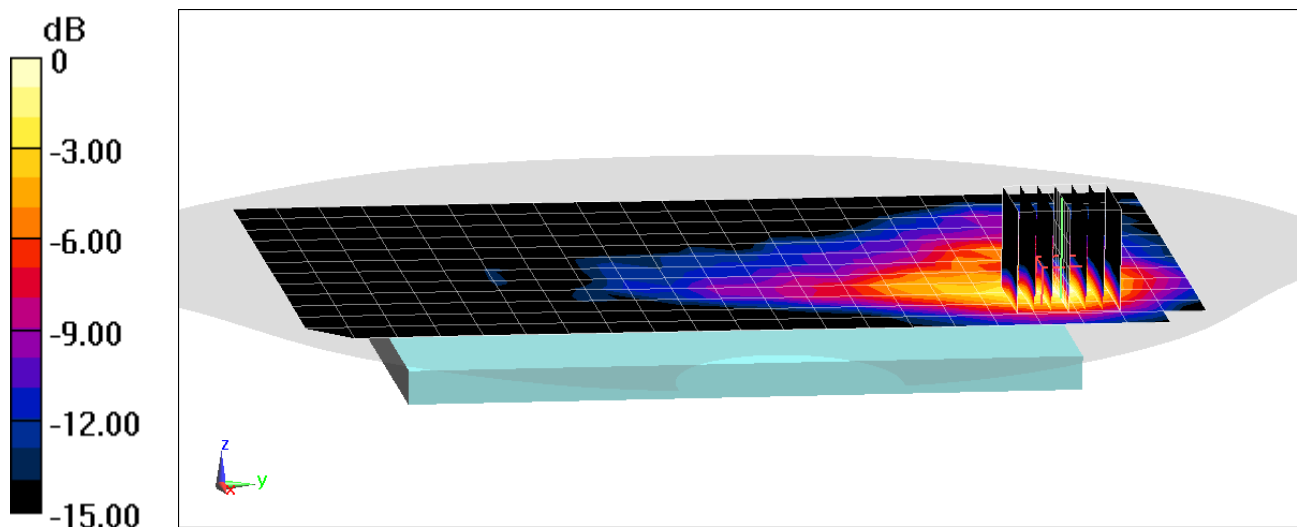
Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 9.707 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 0.554 W/kg



0 dB = 0.954 W/kg = -0.20 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0600M

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.302

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2480 \text{ MHz}$; $\sigma = 2.08 \text{ S/m}$; $\epsilon_r = 51.893$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 10-24-2019; Ambient Temp: 23.4°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2480 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: Bluetooth, Body SAR, Ch 78, 1 Mbps, Back Side

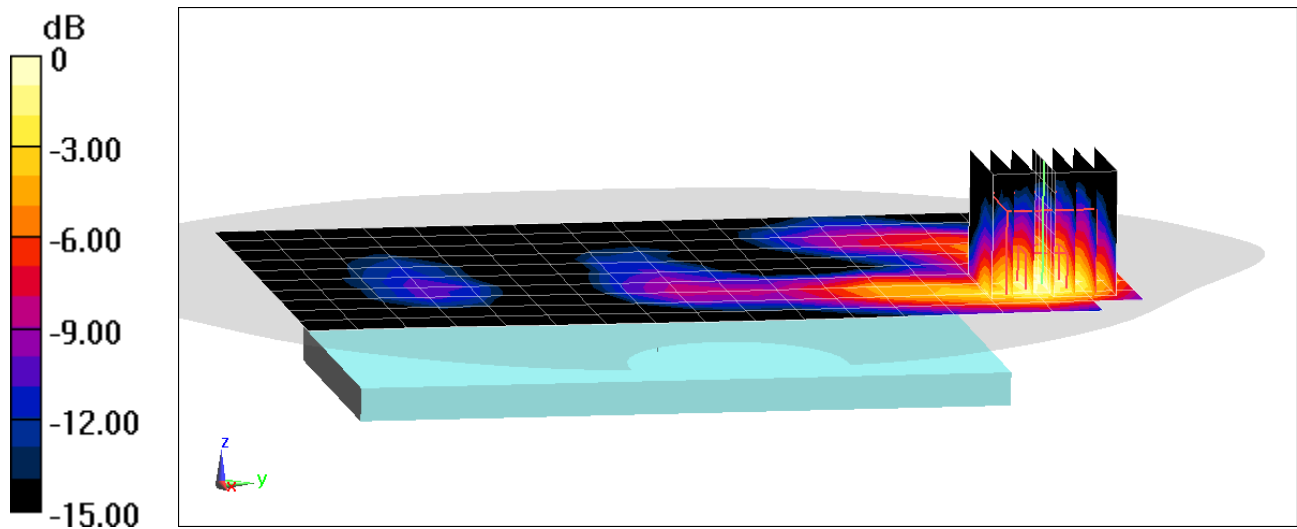
Area Scan (11x17x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.082 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0360 W/kg

SAR(1 g) = 0.018 W/kg



0 dB = 0.0704 W/kg = -11.52 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0600M

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.302

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2480 \text{ MHz}$; $\sigma = 2.08 \text{ S/m}$; $\epsilon_r = 51.893$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 10-24-2019; Ambient Temp: 23.4°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2480 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: Bluetooth, Body SAR, Ch 78, 1 Mbps, Top Edge

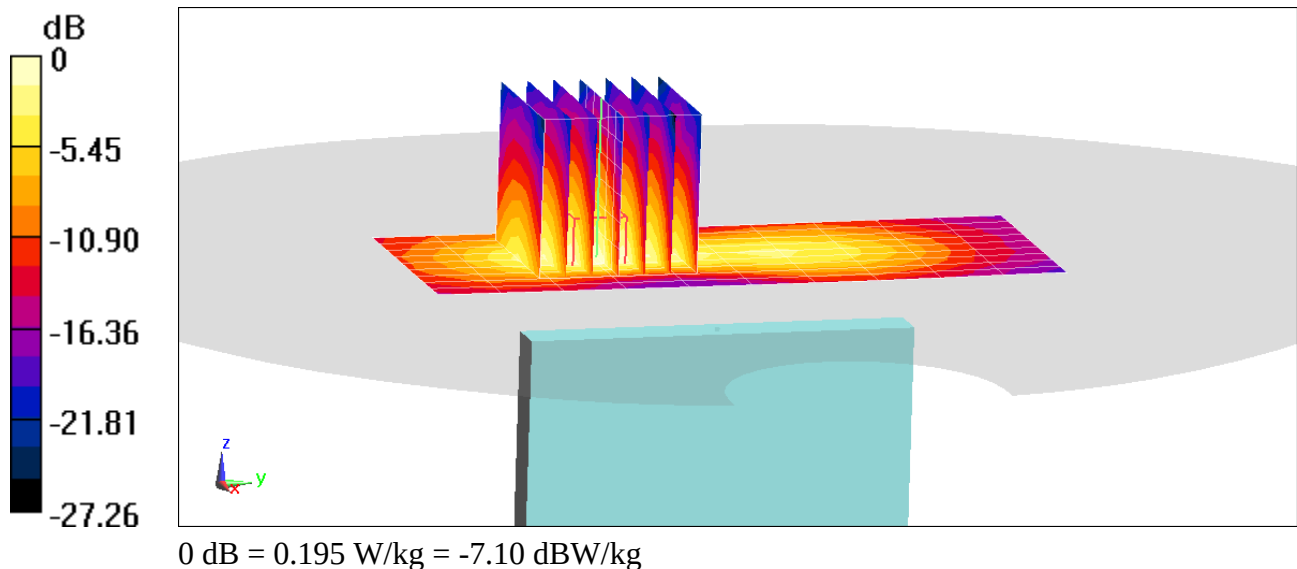
Area Scan (10x11x1): Measurement grid: $dx=5\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.192 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.106 W/kg

SAR(1 g) = 0.047 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, GSM GPRS; 3 Tx slots; Frequency: 1850.2 MHz; Duty Cycle: 1:2.76

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1850.2 \text{ MHz}$; $\sigma = 1.513 \text{ S/m}$; $\epsilon_r = 51.349$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 11-06-2019; Ambient Temp: 22.7°C; Tissue Temp: 22.4°C

Probe: EX3DV4 - SN7488; ConvF(8.37, 8.37, 8.37) @ 1850.2 MHz; Calibrated: 1/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/15/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1800

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Mode: GPRS 1900, Phablet SAR, Bottom Edge, Low.ch, 3 Tx Slots

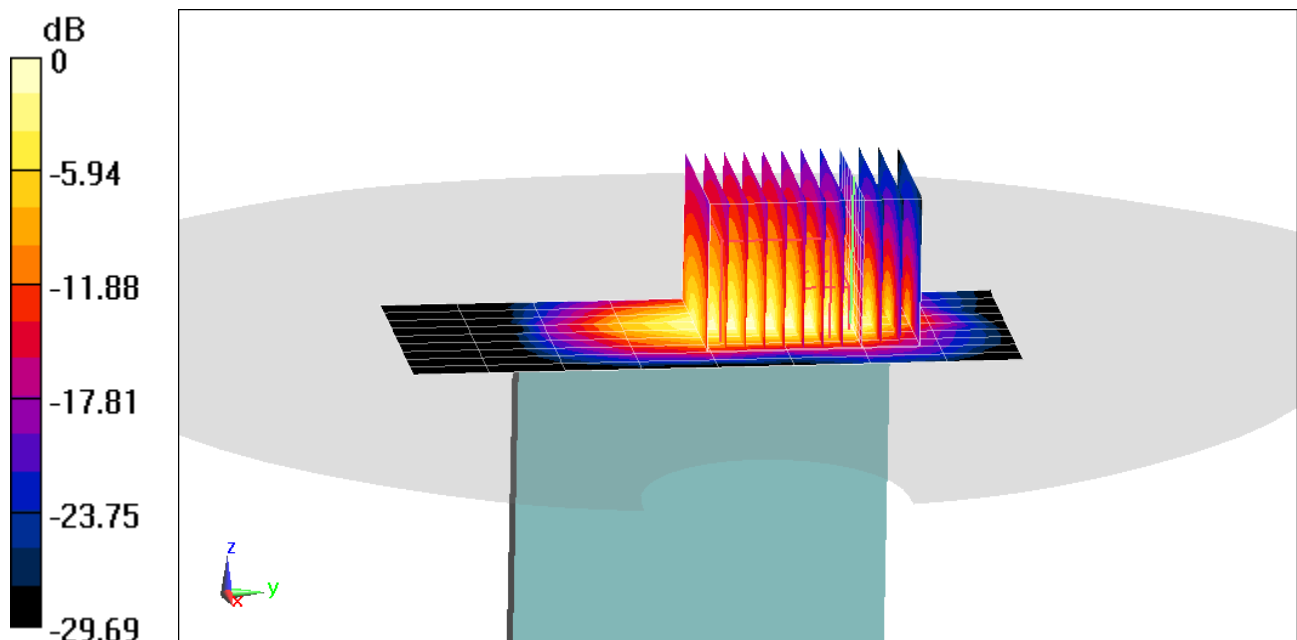
Area Scan (10x9x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

Zoom Scan (10x12x8)/Cube 0: Measurement grid: $dx=3.8\text{mm}$, $dy=3.8\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 66.89 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 21.9 W/kg

SAR(10 g) = 2.66 W/kg



0 dB = 11.5 W/kg = 10.61 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, UMTS; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1752.6 \text{ MHz}$; $\sigma = 1.542 \text{ S/m}$; $\epsilon_r = 52.39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date:09-29-2019; Ambient Temp: 18.3°C; Tissue Temp: 18.8°C

Probe: EX3DV4 - SN7357; ConvF(8.26, 8.26, 8.26) @ 1752.6 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Right Back Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 1750, Phablet SAR, Bottom Edge, High.ch

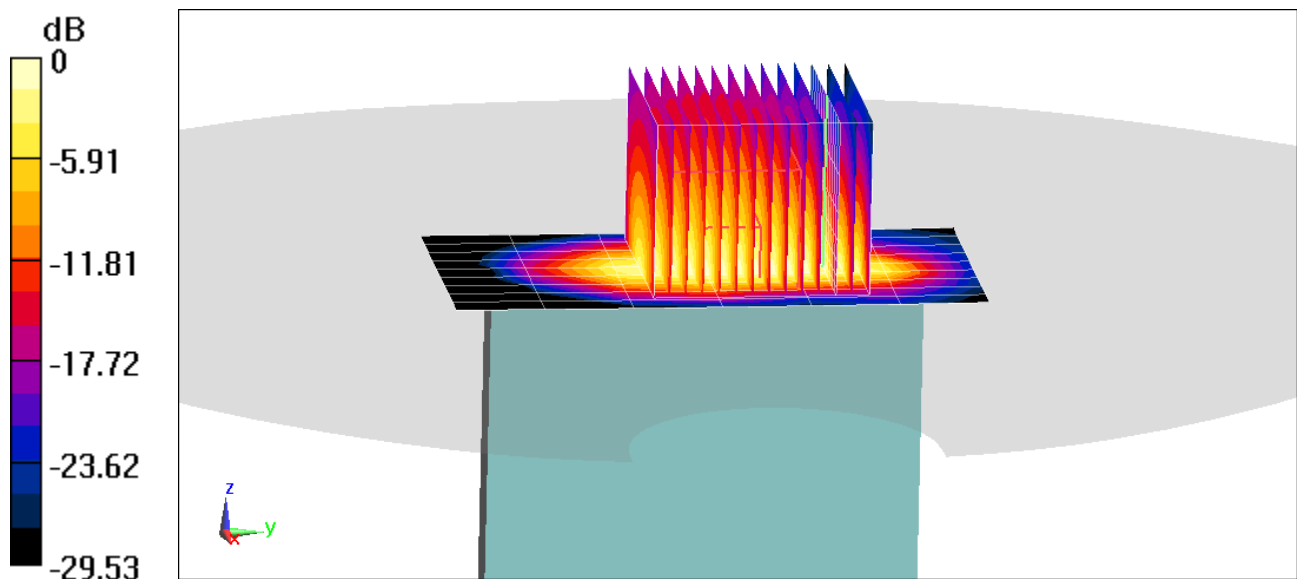
Area Scan (10x7x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

Zoom Scan (14x14x8)/Cube 0: Measurement grid: $dx=2.8\text{mm}$, $dy=2.8\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 53.51 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 14.5 W/kg

SAR(10 g) = 1.77 W/kg



0 dB = 7.98 W/kg = 9.02 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0099M

Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.547 \text{ S/m}$; $\epsilon_r = 51.478$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 10-02-2019; Ambient Temp: 23.6°C; Tissue Temp: 24.1°C

Probe: EX3DV4 - SN7547; ConvF(7.53, 7.53, 7.53) @ 1880 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

Mode: UMTS 1900, Phablet SAR, Bottom Edge, Mid.ch

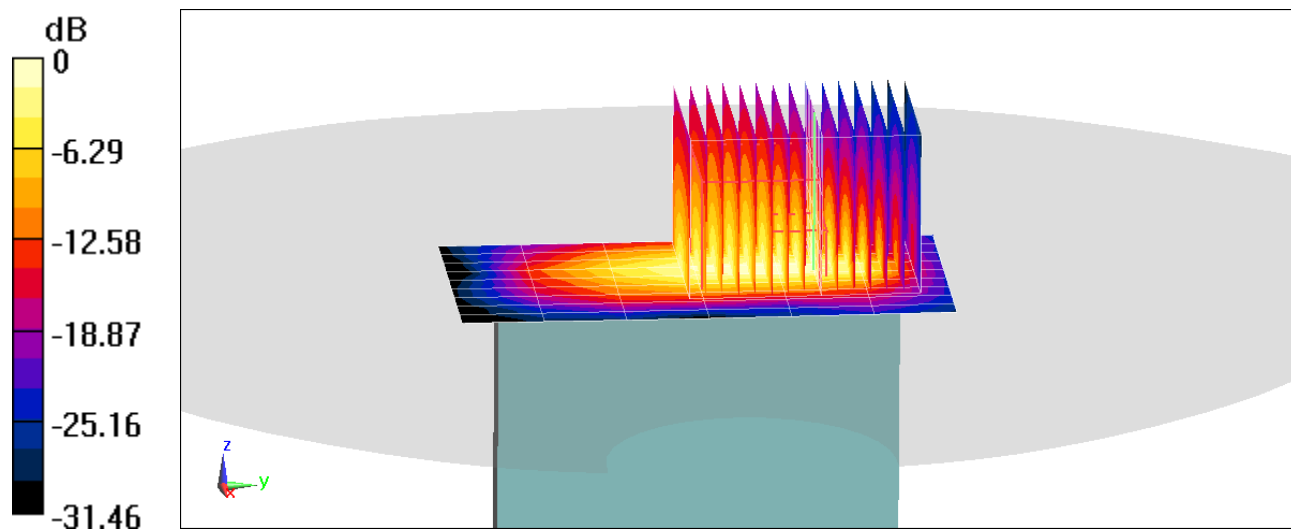
Area Scan (10x7x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (12x15x7)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 58.11 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(10 g) = 2.04 W/kg



0 dB = 9.87 W/kg = 9.94 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, _LTE Band 66 (AWS); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1720 \text{ MHz}$; $\sigma = 1.505 \text{ S/m}$; $\epsilon_r = 51.778$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 10-02-2019; Ambient Temp: 19.8°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7357; ConvF(8.26, 8.26, 8.26) @ 1720 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Right Back Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 66 (AWS), Phablet SAR, Bottom Edge, Low.ch,
20 MHz Bandwidth, QPSK, 50 RB, 50 RB Offset**

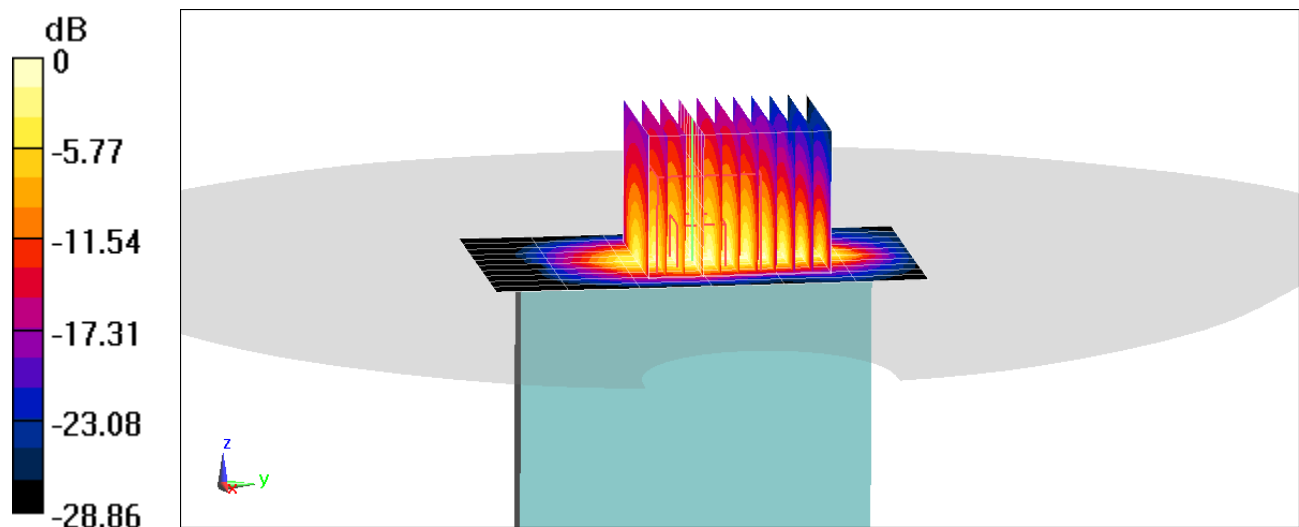
Area Scan (11x7x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (10x11x8)/Cube 0: Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 62.46 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 22.2 W/kg

SAR(10 g) = 2.92 W/kg



0 dB = 12.2 W/kg = 10.86 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1860 \text{ MHz}$; $\sigma = 1.528 \text{ S/m}$; $\epsilon_r = 52.586$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 09-30-2019; Ambient Temp: 23.0°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7547; ConvF(7.53, 7.53, 7.53) @ 1860 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: Right Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1797

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 25 (PCS), Phablet SAR, Bottom Edge, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

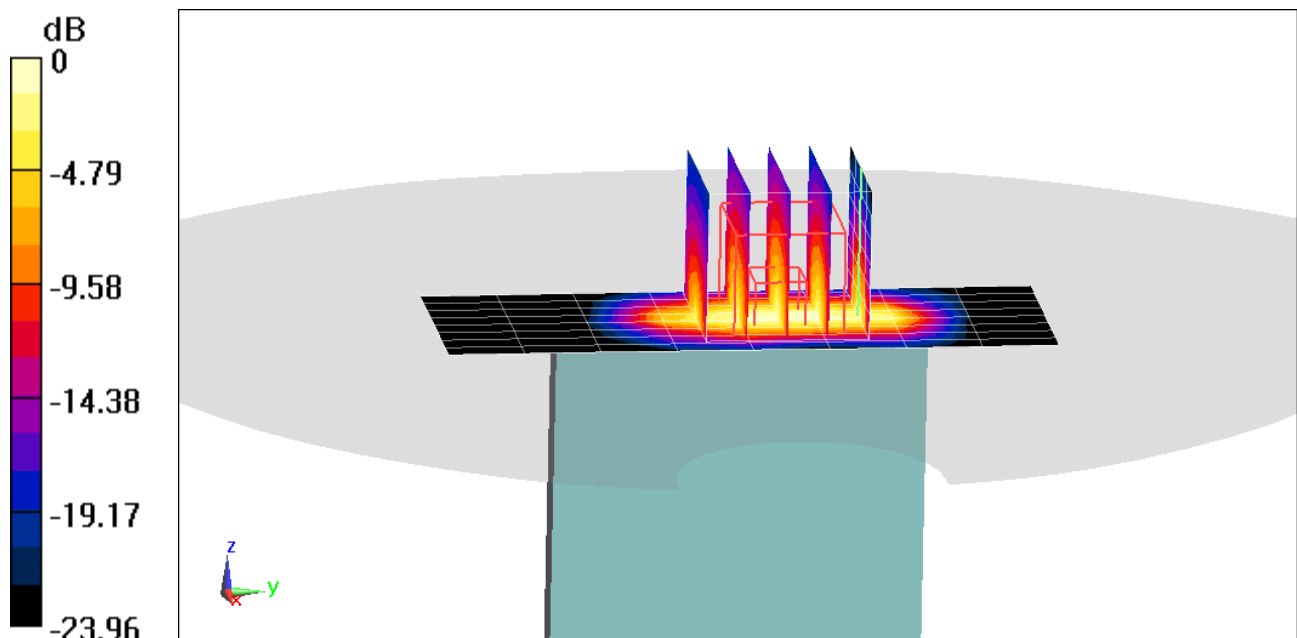
Area Scan (9x9x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 63.48 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(10 g) = 2.46 W/kg



0 dB = 11.0 W/kg = 10.41 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0096M

Communication System: UID 0, LTE Band 2 (PCS); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.551 \text{ S/m}$; $\epsilon_r = 52.517$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 09-30-2019; Ambient Temp: 23.0°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7547; ConvF(7.53, 7.53, 7.53) @ 1880 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: Right Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1797

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 2 (PCS), Phablet SAR, Bottom Edge, Mid.ch,
20 MHz Bandwidth, QPSK, 50 RB, 50 RB Offset**

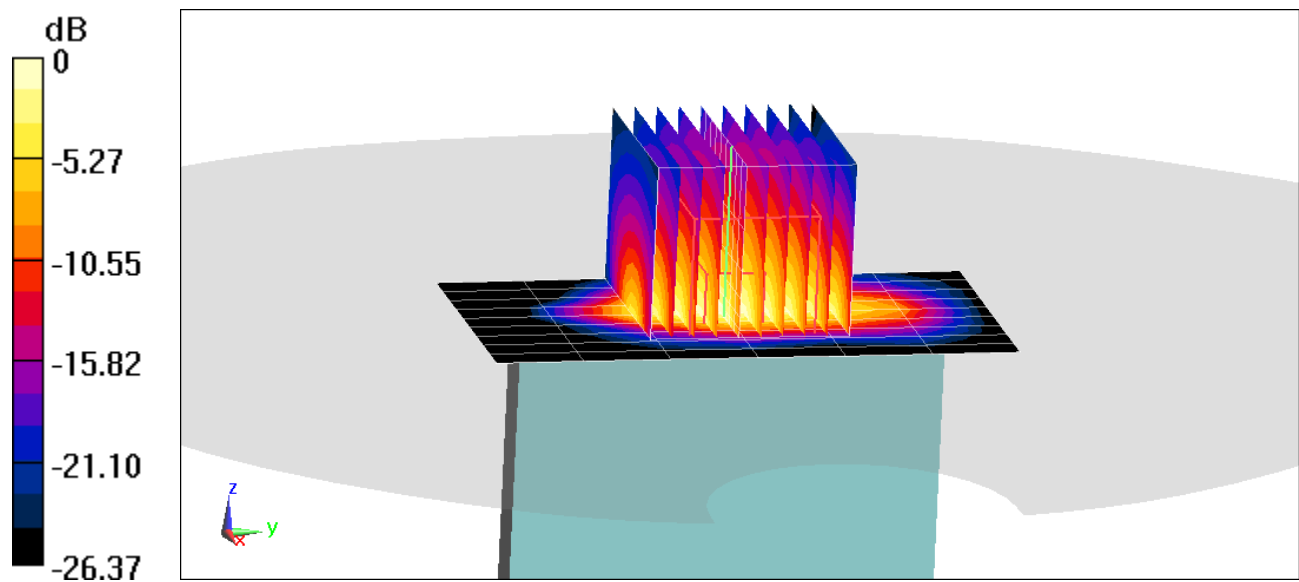
Area Scan (10x7x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (10x10x7)/Cube 0: Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 61.45 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 15.2 W/kg

SAR(10 g) = 2.37 W/kg



0 dB = 10.7 W/kg = 10.29 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2310 \text{ MHz}$; $\sigma = 1.813 \text{ S/m}$; $\epsilon_r = 52.637$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 09-16-2019; Ambient Temp: 21.2°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7357; ConvF(7.72, 7.72, 7.72) @ 2310 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1167

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 30, Phablet SAR, Bottom Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 25 RB, 12 RB Offset**

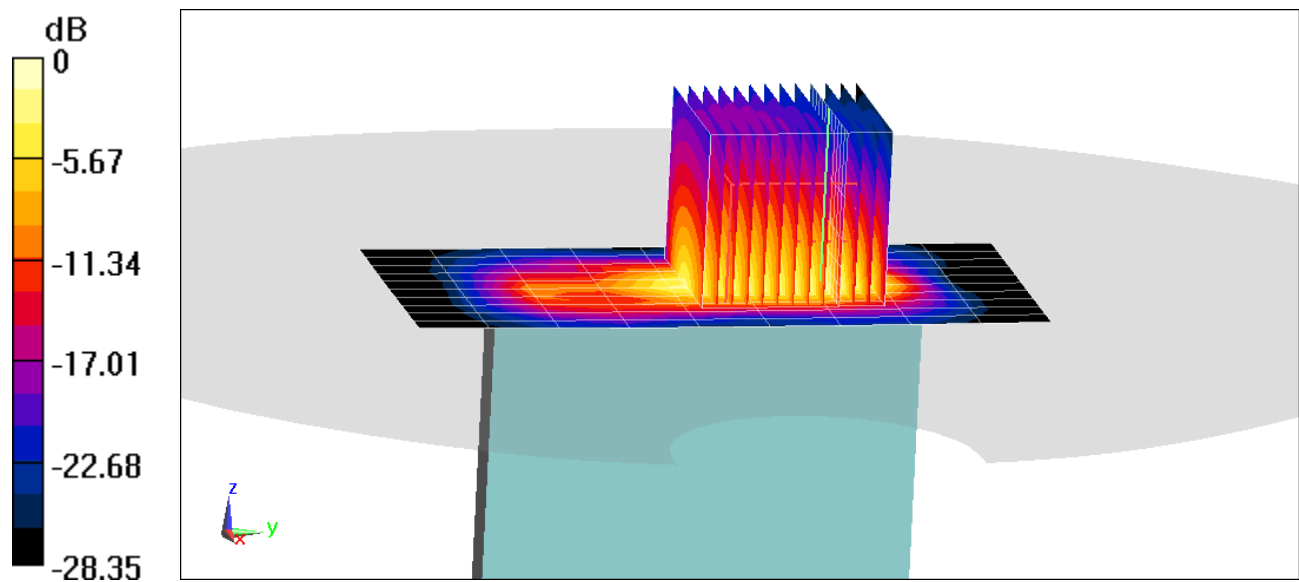
Area Scan (11x10x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (13x13x7)/Cube 0: Measurement grid: dx=2.6mm, dy=2.6mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 59.51 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 23.0 W/kg

SAR(10 g) = 2.34 W/kg



0 dB = 12.8 W/kg = 11.07 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, LTE Band 7; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2560 \text{ MHz}$; $\sigma = 2.119 \text{ S/m}$; $\epsilon_r = 52.061$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 10-16-2019; Ambient Temp: 21.6°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7547; ConvF(7.18, 7.18, 7.18) @ 2560 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 7, Phablet SAR, Bottom Edge, High.ch,
20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

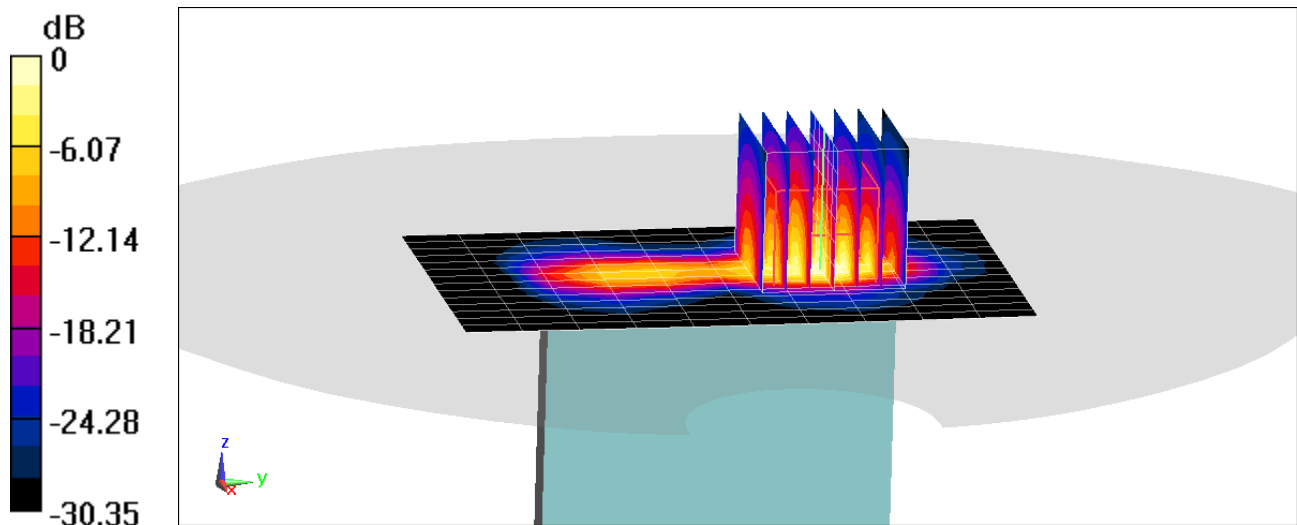
Area Scan (15x11x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.82 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 19.7 W/kg

SAR(10 g) = 1.88 W/kg



0 dB = 12.9 W/kg = 11.11 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN976U; Type: Portable Handset; Serial: 0089M

Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2593 \text{ MHz}$; $\sigma = 2.205 \text{ S/m}$; $\epsilon_r = 51.652$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 10-02-2019; Ambient Temp: 22.3°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN3914; ConvF(7.15, 7.15, 7.15) @ 2593 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1272; Calibrated: 2/14/2019

Phantom: Twin-SAM V5.0 Left 30; Type: QD 000 P40 CD; Serial: 1687

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

**Mode: LTE Band 41, PC3, Phablet SAR, Bottom Edge, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

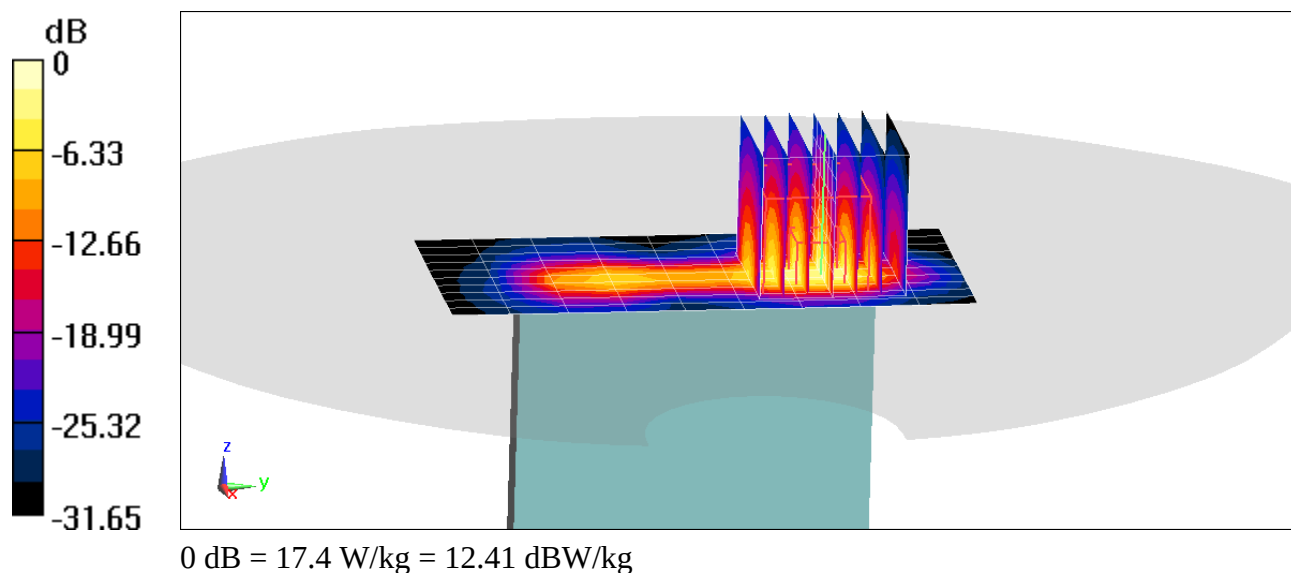
Area Scan (11x10x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 61.68 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 24.3 W/kg

SAR(10 g) = 2.32 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: A3LSMN967U; Type: Portable Handset; Serial: 0585M

Communication System: UID 0, 802.11n 5.2-5.8 GHz Band; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used:

$f = 5500 \text{ MHz}$; $\sigma = 5.814 \text{ S/m}$; $\epsilon_r = 47.952$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 09-30-2019; Ambient Temp: 20.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7410; ConvF(4.42, 4.42, 4.42) @ 5500 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

**Mode: IEEE 802.11n, UNII-2C, 20 MHz Bandwidth, MIMO,
Phablet SAR, Ch 100, 13 Mbps, Back Side**

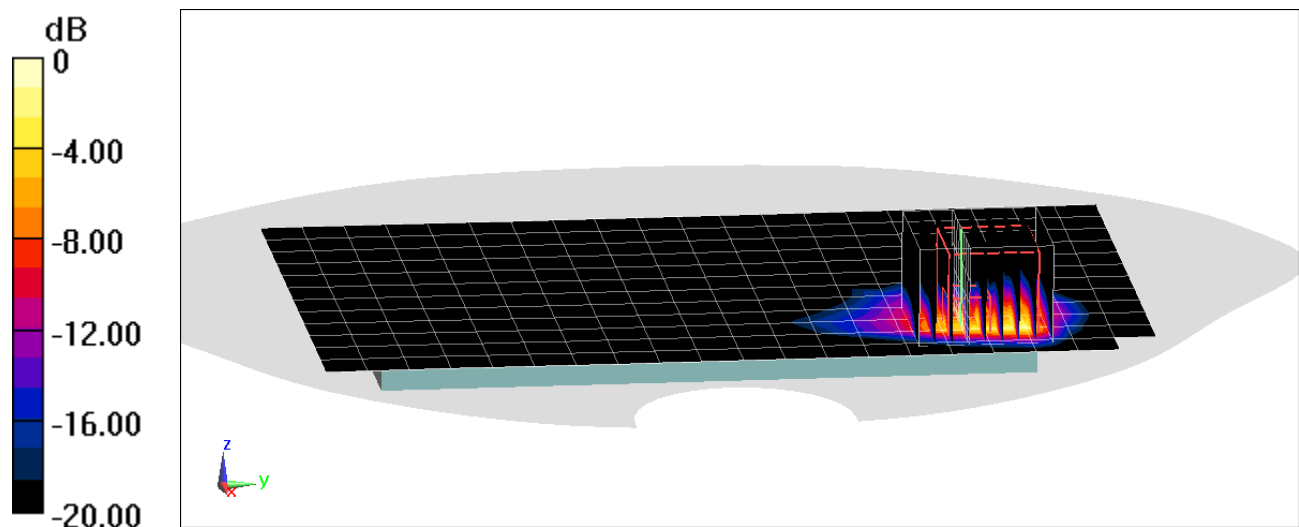
Area Scan (13x21x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 38.01 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 42.5 W/kg

SAR(10 g) = 1.92 W/kg



0 dB = 21.7 W/kg = 13.36 dBW/kg

APPENDIX B: SYSTEM VERIFICATION

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1161

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.889 \text{ S/m}$; $\epsilon_r = 42.001$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 09-23-2019; Ambient Temp: 21.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7409; ConvF(9.96, 9.96, 9.96) @ 750 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (2);SEMCAD X Version 14.6.12 (7470)

750 MHz System Verification at 23.0 dBm (200 mW)

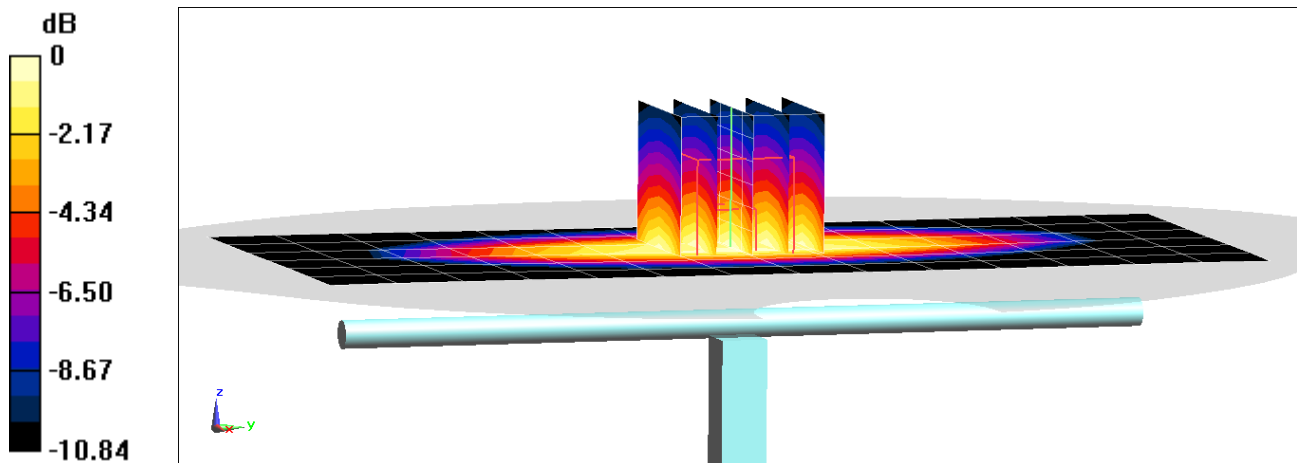
Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.62 W/kg

SAR(1 g) = 1.67 W/kg

Deviation(1 g) = 3.99%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head; Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 41.476$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 10-21-2019; Ambient Temp: 21.4°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7357; ConvF(10.26, 10.26, 10.26) @ 750 MHz; Calibrated: 4/24/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/18/2019

Phantom: Twin-SAM V4.0 (30); Type: QD 000 P40 CC; Serial: 1167

Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

750 MHz System Verification at 23.0 dBm (200 mW)

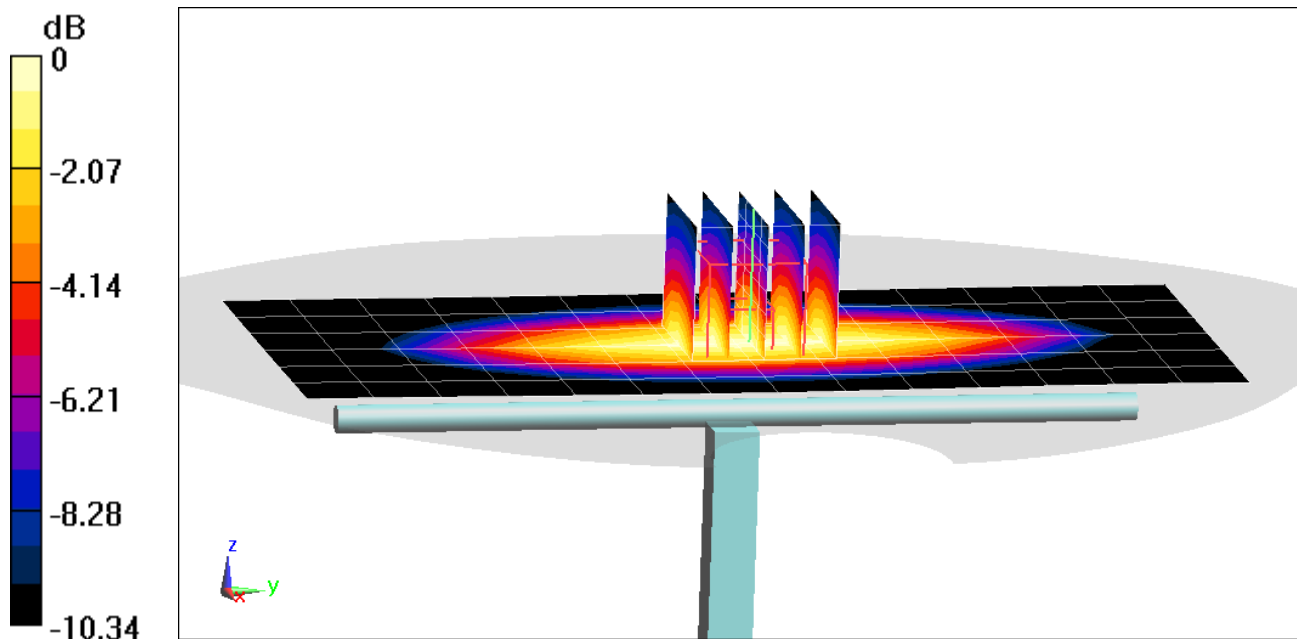
Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 1.65 W/kg

Deviation(1 g) = -0.36%



0 dB = 2.21 W/kg = 3.44 dBW/kg