



SAR EVALUATION REPORT

Applicant Name:

Apple, Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:

08/08/18 - 09/03/18

Test Site/Location:

PCTEST Lab, Morgan Hill, CA, USA

Document Serial No.:

1C1806050012-01-R2.BCG

FCC ID:

BCGA2013

APPLICANT:

APPLE, INC.

DUT Type:

Tablet Device

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

A2013

Equipment Class	Band & Mode	Tx Frequency	SAR
			1g Body (W/kg)
PCB	UMTS 850	826.40 - 846.00 MHz	1.09
PCB	UMTS 1750	1712.4 - 1752.6 MHz	1.11
PCB	UMTS 1900	1852.4 - 1907.6 MHz	1.15
PCB	GPRS/EDGE 850	824.20 - 848.80 MHz	1.13
PCB	GPRS/EDGE 1900	1850.20 - 1909.80 MHz	1.11
PCB	LTE Band 71	665.5 - 695.5 MHz	1.14
PCB	LTE Band 12	699.7 - 715.3 MHz	1.15
PCB	LTE Band 17	706.5 - 715.5 MHz	N/A
PCB	LTE Band 13	779.5 - 784.5 MHz	1.18
PCB	LTE Band 14	790.5 - 795.5 MHz	1.04
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	1.18
PCB	LTE Band 26 (Cell)	814.7 - 848.3 MHz	1.15
PCB	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	1.16
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A
PCB	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	1.17
PCB	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A
PCB	LTE Band 30	2307.5 - 2312.5 MHz	1.11
PCB	LTE Band 7	2502.5 - 2567.5 MHz	1.15
PCB	LTE Band 41	2498.5 - 2687.5 MHz	1.18
DTS	2.4 GHz WLAN	2412 - 2472 MHz	1.03
NIJ	U-NI-1	5180 - 5240 MHz	N/A
NIJ	U-NI-2A	5260 - 5320 MHz	1.16
NIJ	U-NI-2C	5500 - 5720 MHz	1.12
NIJ	U-NI-3	5745 - 5825 MHz	1.12
DSS/DTSS	Bluetooth	2402 - 2480 MHz	1.19
Simultaneous SAR per KDB 690783 D01v01r03:			1.59

Note: This revised Test Report (S/N: 1C1806050012-01-R2.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.7 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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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
GPRS/EDGE 850	Data	824.20 - 848.80 MHz
GPRS/EDGE 1900	Data	1850.20 - 1909.80 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz

1.2 Power Reduction for SAR

This device uses the manufacturer's proprietary motion detect mode to determine proximity to the user's body and set the licensed power level accordingly for SAR compliance. When being used in the hand or the body, the output power for licensed transmitters will always be reduced. Per FCC KDB Guidance, SAR testing was performed only using reduced output powers following the test positions in KDB Publication 616217.

This device additionally utilizes a power reduction mechanism for Bluetooth and WLAN operations. When WLAN/Bluetooth is operating simultaneously with certain combinations of 2G/3G/4G and 5 GHz WLAN antennas, the output power is permanently reduced. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

Detailed descriptions of the power reduction mechanisms are included in the operational description. The power reduction mechanisms were confirmed during the SAR Evaluation. Appendix G contains a summary of the verification results.

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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 Output Power for Portable Use Conditions

A. Antenna 1

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8- PSK (dBm)	
		1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
GPRS/EDGE 850	Maximum	27.50	26.50	22.00	21.00
	Nominal	26.75	25.75	21.25	20.25

Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	3GPP DC-HSDPA
UMTS Band 5 (850 MHz)	Maximum	20.00	20.00	20.00	20.00
	Nominal	19.50	19.50	19.50	19.50

Mode / Band		Modulated Average (dBm)
LTE Band 71	Maximum	20.00
	Nominal	19.50
LTE Band 12	Maximum	19.70
	Nominal	19.20
LTE Band 17	Maximum	19.70
	Nominal	19.20
LTE Band 13	Maximum	21.30
	Nominal	20.80
LTE Band 14	Maximum	21.30
	Nominal	20.80
LTE Band 5 (Cell)	Maximum	20.30
	Nominal	19.80
LTE Band 26 (Cell)	Maximum	20.30
	Nominal	19.80

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B. Antenna 3

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8- PSK (dBm)	
		1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
GPRS/EDGE 850	Maximum	30.25	27.70	24.75	23.75
	Nominal	29.50	26.95	24.00	23.00
Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	3GPP DC-HSDPA
UMTS Band 5 (850 MHz)	Maximum	21.20	21.20	21.20	21.20
	Nominal	20.70	20.70	20.70	20.70
Mode / Band		Modulated Average (dBm)			
LTE Band 71	Maximum	22.20			
	Nominal	21.70			
LTE Band 12	Maximum	20.00			
	Nominal	19.50			
LTE Band 17	Maximum	20.00			
	Nominal	19.50			
LTE Band 13	Maximum	21.30			
	Nominal	20.80			
LTE Band 14	Maximum	21.30			
	Nominal	20.80			
LTE Band 5 (Cell)	Maximum	21.40			
	Nominal	20.90			
LTE Band 26 (Cell)	Maximum	21.40			
	Nominal	20.90			

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B. Antenna 4a

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8-PSK (dBm)	
		1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
GPRS/EDGE 1900	Maximum	24.30	21.30	24.25	21.30
	Nominal	23.55	20.55	23.50	20.55
Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	3GPP DC-HSDPA
UMTS Band 4 (1750 MHz)	Maximum	15.00	15.00	15.00	15.00
	Nominal	14.50	14.50	14.50	14.50
UMTS Band 2 (1900 MHz)	Maximum	15.30	15.30	15.30	15.30
	Nominal	14.80	14.80	14.80	14.80
Mode / Band		Modulated Average (dBm)			
LTE Band 66 (AWS)	Maximum	15.00			
	Nominal	14.50			
LTE Band 4 (AWS)	Maximum	15.00			
	Nominal	14.50			
LTE Band 25 (PCS)	Maximum	15.30			
	Nominal	14.80			
LTE Band 2 (PCS)	Maximum	15.30			
	Nominal	14.80			
LTE Band 30	Maximum	13.50			
	Nominal	13.00			
LTE Band 7	Maximum	12.00			
	Nominal	11.50			
LTE Band 7 ULCA	Maximum	12.00			
	Nominal	11.00			
LTE Band 41 PC3	Maximum	14.50			
	Nominal	14.00			
LTE Band 41 PC2	Maximum	14.50			
	Nominal	14.00			
LTE Band 41 ULCA	Maximum	14.50			
	Nominal	13.50			

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D. Antenna 4b

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8-PSK (dBm)	
		1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
GPRS/EDGE 1900	Maximum	23.50	20.50	23.50	20.50
	Nominal	22.75	19.75	22.75	19.75
Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	3GPP DC-HSDPA
UMTS Band 4 (1750 MHz)	Maximum	14.75	14.75	14.75	14.75
	Nominal	14.25	14.25	14.25	14.25
UMTS Band 2 (1900 MHz)	Maximum	14.20	14.20	14.20	14.20
	Nominal	13.70	13.70	13.70	13.70
Mode / Band		Modulated Average (dBm)			
LTE Band 66 (AWS)	Maximum	14.75			
	Nominal	14.25			
LTE Band 4 (AWS)	Maximum	14.75			
	Nominal	14.25			
LTE Band 25 (PCS)	Maximum	14.20			
	Nominal	13.70			
LTE Band 2 (PCS)	Maximum	14.20			
	Nominal	13.70			
LTE Band 30	Maximum	13.70			
	Nominal	13.20			
LTE Band 7	Maximum	12.30			
	Nominal	11.80			
LTE Band 7 ULCA	Maximum	12.30			
	Nominal	11.30			
LTE Band 41 PC3	Maximum	15.00			
	Nominal	14.50			
LTE Band 41 PC2	Maximum	15.00			
	Nominal	14.50			
LTE Band 41 ULCA	Maximum	15.00			
	Nominal	14.00			

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E. Antenna 2a

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8-PSK (dBm)	
		1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
GPRS/EDGE 1900	Maximum	23.30	20.30	21.75	20.30
	Nominal	22.55	19.55	21.00	19.55
Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	3GPP DC-HSDPA
UMTS Band 4 (1750 MHz)	Maximum	14.70	14.70	14.70	14.70
	Nominal	14.20	14.20	14.20	14.20
UMTS Band 2 (1900 MHz)	Maximum	14.00	14.00	14.00	14.00
	Nominal	13.50	13.50	13.50	13.50
Mode / Band		Modulated Average (dBm)			
LTE Band 66 (AWS)	Maximum	14.70			
	Nominal	14.20			
LTE Band 4 (AWS)	Maximum	14.70			
	Nominal	14.20			
LTE Band 25 (PCS)	Maximum	14.00			
	Nominal	13.50			
LTE Band 2 (PCS)	Maximum	14.00			
	Nominal	13.50			
LTE Band 30	Maximum	12.60			
	Nominal	12.10			
LTE Band 7	Maximum	12.00			
	Nominal	11.50			
LTE Band 7 ULCA	Maximum	12.00			
	Nominal	11.00			
LTE Band 41 PC3	Maximum	14.80			
	Nominal	14.30			
LTE Band 41 PC2	Maximum	14.80			
	Nominal	14.30			
LTE Band 41 ULCA	Maximum	14.80			
	Nominal	13.80			

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F. Antenna 2b

Mode / Band		Burst Average GMSK (dBm)		Burst Average 8-PSK (dBm)	
		1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
GPRS/EDGE 1900	Maximum	23.00	20.00	21.75	20.00
	Nominal	22.25	19.25	21.00	19.25
Mode / Band		Modulated Average (dBm)			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	3GPP DC-HSDPA
UMTS Band 4 (1750 MHz)	Maximum	14.30	14.30	14.30	14.30
	Nominal	13.80	13.80	13.80	13.80
UMTS Band 2 (1900 MHz)	Maximum	13.70	13.70	13.70	13.70
	Nominal	13.20	13.20	13.20	13.20
Mode / Band		Modulated Average (dBm)			
LTE Band 66 (AWS)	Maximum	14.30			
	Nominal	13.80			
LTE Band 4 (AWS)	Maximum	14.30			
	Nominal	13.80			
LTE Band 25 (PCS)	Maximum	13.70			
	Nominal	13.20			
LTE Band 2 (PCS)	Maximum	13.70			
	Nominal	13.20			
LTE Band 30	Maximum	13.40			
	Nominal	12.90			
LTE Band 7	Maximum	12.30			
	Nominal	11.80			
LTE Band 7 ULCA	Maximum	12.30			
	Nominal	11.30			
LTE Band 41 PC3	Maximum	14.50			
	Nominal	14.00			
LTE Band 41 PC2	Maximum	14.50			
	Nominal	14.00			
LTE Band 41 ULCA	Maximum	14.50			
	Nominal	13.50			

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1.3.2 Unlicensed Maximum Output Power

A. Antenna 4a

Mode / Band		Modulated Average (dBm)				
Bluetooth BDR/LE	Maximum	16.00				
Bluetooth EDR	Maximum	13.50				
Bluetooth HDR	Maximum	8.50				
Mode / Band		Modulated Average (dBm)				
		Ch. 1-11	Ch. 12	Ch. 13		
IEEE 802.11b (2.4 GHz)	Maximum	13.75				
	Nominal	12.25				
IEEE 802.11g (2.4 GHz)	Maximum	13.75	11.00	4.00		
	Nominal	12.25	9.50	2.50		
IEEE 802.11n (2.4 GHz)	Maximum	13.75	11.00	4.00		
	Nominal	12.25	9.50	2.50		
Mode / Band		Modulated Average - MIMO (dBm)				
		Ch. 1	Ch. 2-10	Ch. 11	Ch. 12	Ch. 13
IEEE 802.11g/n (2.4 GHz)	Maximum	13.50	13.75	13.50	11.00	2.00
	Nominal	12.00	12.25	12.00	9.50	0.50

Note: In MIMO operations, Antenna 4A transmits at maximum allowed powers as indicated above.

B. Antenna 2a

Mode / Band		Modulated Average (dBm)			
Bluetooth BDR/LE	Maximum	15.00			
Bluetooth EDR	Maximum	11.00			
Bluetooth HDR	Maximum	6.00			
Mode / Band		Modulated Average (dBm)			
		Ch. 2-10	Ch. 1,11	Ch. 12	Ch. 13
IEEE 802.11b (2.4 GHz)	Maximum	13.75			12.00
	Nominal	12.25			10.50
IEEE 802.11g (2.4 GHz)	Maximum	13.75	13.50	9.00	2.50
	Nominal	12.25	12.00	7.50	1.00
IEEE 802.11n (2.4 GHz)	Maximum	13.75	13.50	9.00	2.50
	Nominal	12.25	12.00	7.50	1.00

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Mode / Band		Modulated Average - MIMO (dBm)				
		Ch. 1	Ch. 2-10	Ch. 11	Ch. 12	Ch. 13
IEEE 802.11g/n (2.4 GHz)	Maximum	12.50	13.75	12.00	9.00	0.00
	Nominal	11.00	12.25	10.50	7.50	-1.50

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers as indicated above.

C. Antenna 5

Mode / Band		Modulated Average (dBm)			
		Ch. 1	Ch. 2-11	Ch. 12	Ch. 13
Bluetooth BDR/LE	Maximum	18.50			
Bluetooth EDR	Maximum	11.50			
Bluetooth HDR	Maximum	6.50			
Mode / Band		Modulated Average (dBm)			
		Ch. 1	Ch. 2-11	Ch. 12	Ch. 13
IEEE 802.11b (2.4 GHz)	Maximum	19.00			
	Nominal	17.50			
IEEE 802.11g (2.4 GHz)	Maximum	17.50	19.00	18.25	17.50
	Nominal	16.00	17.50	16.75	16.00
IEEE 802.11n (2.4 GHz)	Maximum	17.50	19.00	18.25	17.50
	Nominal	16.00	17.50	16.75	16.00
Mode / Band		Modulated Average - MIMO (dBm)			
		Ch. 1, 11	Ch. 2-10	Ch. 12	Ch. 13
IEEE 802.11g/n (2.4 GHz)	Maximum	17.00	19.00	9.50	1.50
	Nominal	15.50	17.50	8.00	0.00

Note: In MIMO operations, Antenna 5 transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (dBm)															
		20 MHz Bandwidth				40 MHz Bandwidth				80 MHz Bandwidth							
		Ch. 64, 149-165	Ch. 36-48, 100-136, 144	Ch. 52-60	Ch. 140	Ch. 38, 62-102	Ch. 46, 110-142	ch. 54	Ch. 151-159	Ch. 42-106	Ch. 122-138	Ch. 155					
IEEE 802.11a (5 GHz)	Maximum	16.50	15.50	17.00	15.00												
	Nominal	15.00	14.00	15.50	13.50												
IEEE 802.11n (5 GHz)	Maximum	16.50	15.50	17.00	15.00	14.00	15.50	17.00	16.50								
	Nominal	15.00	14.00	15.50	13.50	12.50	14.00	15.50	15.00								
IEEE 802.11ac (5 GHz)	Maximum	16.50	15.50	17.00	15.00	14.00	15.50	17.00	16.50	13.50	15.50	16.50					
	Nominal	15.00	14.00	15.50	13.50	12.50	14.00	15.50	15.00	12.00	14.00	15.00					
Mode / Band		Modulated Average - MIMO (CDD/SDM) (dBm)															
		20 MHz Bandwidth					40 MHz Bandwidth					80 MHz Bandwidth					
		Ch. 36, 64, 100, 136	Ch. 40-48, 104-132, 144	Ch. 52-60	Ch. 140	Ch. 149-165	Ch. 38, 62	Ch. 46, 110-126, 142	Ch. 54	Ch. 102	Ch. 134	Ch. 151-159	Ch. 42	Ch. 58	Ch. 106	Ch. 122-138	Ch. 155
IEEE 802.11a (5 GHz)	Maximum	15.00	15.50	17.00	12.50	16.50											
	Nominal	13.50	14.00	15.50	11.00	15.00											
IEEE 802.11n (5 GHz)	Maximum	15.00	15.50	17.00	12.50	16.50	13.00	15.50	17.00	12.75	14.00	16.50					
	Nominal	13.50	14.00	15.50	11.00	15.00	11.50	14.00	15.50	11.25	12.50	15.00					
IEEE 802.11ac (5 GHz)	Maximum	15.00	15.50	17.00	12.50	16.50	13.00	15.50	17.00	12.75	14.00	16.50	12.00	11.50	11.25	15.50	16.50
	Nominal	13.50	14.00	15.50	11.00	15.00	11.50	14.00	15.50	11.25	12.50	15.00	10.50	10.00	9.75	14.00	15.00

Note: In MIMO operations, Antenna 5 transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

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D. Antenna 6

Mode / Band		Modulated Average (dBm)											
		20 MHz Bandwidth				40 MHz Bandwidth				80 MHz Bandwidth			
		Ch. 36, 64	ch. 40-60	Ch. 100-136, 144	Ch. 140, 149-165	Ch. 38, 62, 102	Ch. 46-54	Ch. 110-142	Ch. 151-159	Ch. 42-106	Ch. 122-138	Ch. 155	
IEEE 802.11a (5 GHz)	Maximum	16.50	17.00	15.50	15.00								
	Nominal	15.00	15.50	14.00	13.50								
IEEE 802.11n (5 GHz)	Maximum	16.50	17.00	15.50	15.00	14.00	17.00	15.50	15.00				
	Nominal	15.00	15.50	14.00	13.50	12.50	15.50	14.00	13.50				
IEEE 802.11ac (5 GHz)	Maximum	16.50	17.00	15.50	15.00	14.00	17.00	15.50	15.00	13.50	15.50	15.00	
	Nominal	15.00	15.50	14.00	13.50	12.50	15.50	14.00	13.50	12.00	14.00	13.50	

Mode / Band		Modulated Average - MIMO (CDD/SDM) (dBm)														
		20 MHz Bandwidth				40 MHz Bandwidth						80 MHz Bandwidth				
		Ch. 36, 64, 100, 136, 149-165	Ch. 40-60	Ch. 104-132, 144	Ch. 140	Ch. 38, 62	Ch. 46-54	Ch. 102	Ch. 110-126, 142	Ch. 134	Ch. 151-159	Ch. 42	Ch. 58	Ch. 106	Ch. 122-138	Ch. 155
IEEE 802.11a (5 GHz)	Maximum	15.00	17.00	15.50	12.50											
	Nominal	13.50	15.50	14.00	11.00											
IEEE 802.11n (5 GHz)	Maximum	15.00	17.00	15.50	12.50	13.00	17.00	12.75	15.50	14.00	15.00					
	Nominal	13.50	15.50	14.00	11.00	11.50	15.50	11.25	14.00	12.50	13.50					
IEEE 802.11ac (5 GHz)	Maximum	15.00	17.00	15.50	12.50	13.00	17.00	12.75	15.50	14.00	15.00	12.00	11.50	11.25	15.50	15.00
	Nominal	13.50	15.50	14.00	11.00	11.50	15.50	11.25	14.00	12.50	13.50	10.50	10.00	9.75	14.00	13.50

Note: In MIMO operations, Antenna 6 transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

1.3.3 Unlicensed Reduced Output Power

A. Antenna 4a - Output Power for Simultaneous Operations with 2G/3G/4G Antennas 3/4a/4b

Mode / Band		Modulated Average (dBm)
Bluetooth BDR/LE	Maximum	9.00
Bluetooth EDR	Maximum	9.00
Bluetooth HDR	Maximum	8.50

Note: The above power levels are implemented when 2G/3G/4G Operations are active with Antenna 3/4A/4B.

Mode / Band		Modulated Average (dBm)		
		Ch. 1-11	Ch. 12	Ch. 13
IEEE 802.11b (2.4 GHz)	Maximum	6.75		
	Nominal	5.25		
IEEE 802.11g (2.4 GHz)	Maximum	6.75	4.00	
	Nominal	5.25	2.50	
IEEE 802.11n (2.4 GHz)	Maximum	6.75	4.00	
	Nominal	5.25	2.50	

Mode / Band		Modulated Average - MIMO (dBm)		
		Ch. 1-12		Ch. 13
IEEE 802.11g/n (2.4 GHz)	Maximum	6.75		2.00
	Nominal	5.25		0.50

Note: The above power levels are implemented when 2G/3G/4G Operations are active with Antenna 4A/4B. In MIMO operations, Antenna 4A transmits at maximum allowed powers as indicated above.

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B. Antenna 2a - Output Power for Simultaneous Operations with 2G/3G/4G Antennas 1/2a/2b

Mode / Band		Modulated Average (dBm)
Bluetooth BDR/LE Reduced Level 1	Maximum	12.50
Bluetooth EDR Reduced Level 1	Maximum	11.00
Bluetooth HDR Reduced Level 1	Maximum	6.00

Note: The above power levels are implemented when 5 GHz WIFI is active only.

Mode / Band		Modulated Average (dBm)
Bluetooth BDR/LE Reduced Level 2	Maximum	8.00
Bluetooth EDR Reduced Level 2	Maximum	8.00
Bluetooth HDR Reduced Level 2	Maximum	6.00

Note: The above power levels are implemented when 2G/3G/4G Operations are active with Antenna 1/2A/2B with/without 5 GHz WIFI.

Mode / Band		Modulated Average (dBm)	
		Ch. 1-12	Ch. 13
IEEE 802.11b (2.4 GHz)	Maximum	6.75	
	Nominal	5.25	
IEEE 802.11g (2.4 GHz)	Maximum	6.75	2.50
	Nominal	5.25	1.00
IEEE 802.11n (2.4 GHz)	Maximum	6.75	2.50
	Nominal	5.25	1.00

Mode / Band		Modulated Average - MIMO (dBm)	
		Ch. 1-12	Ch. 13
IEEE 802.11g/n (2.4 GHz)	Maximum	6.75	0.00
	Nominal	5.25	-1.50

Note: The above power levels are implemented when 2G/3G/4G Operations are active with Antenna 2A/2B. In MIMO operations, Antenna 2A transmits at maximum allowed powers as indicated above.

C. Antenna 5 - Output Power for Simultaneous Operations with 2G/3G/4G Antennas 1/2a/2b

Mode / Band		Modulated Average (dBm)
Bluetooth BDR/LE Reduced Level 1	Maximum	17.00
Bluetooth EDR Reduced Level 1	Maximum	11.50
Bluetooth HDR Reduced Level 1	Maximum	6.50

Note: The above power levels are implemented when 2G/3G/4G Operations are active with Antenna 1/2A/2B.

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Mode / Band		Modulated Average (dBm)
Bluetooth BDR/LE Reduced Level 2	Maximum	14.50
Bluetooth EDR Reduced Level 2	Maximum	11.50
Bluetooth HDR Reduced Level 2	Maximum	6.50

Note: The above power levels are implemented when 5 GHz WIFI is active only.

Mode / Band		Modulated Average (dBm)
Bluetooth BDR/LE Reduced Level 3	Maximum	12.50
Bluetooth EDR Reduced Level 3	Maximum	11.50
Bluetooth HDR Reduced Level 3	Maximum	6.50

Note: The above power levels are implemented when 2G/3G/4G Operations are active with Antenna 1/2A/2B with 5 GHz WIFI.

Mode / Band		Modulated Average (dBm)		
IEEE 802.11b (2.4 GHz)	Maximum	15.50		
	Nominal	14.00		
IEEE 802.11g (2.4 GHz)	Maximum	15.50		
	Nominal	14.00		
IEEE 802.11n (2.4 GHz)	Maximum	15.50		
	Nominal	14.00		
Mode / Band		Modulated Average - MIMO (dBm)		
		Ch. 1-11	Ch. 12	Ch. 13
IEEE 802.11g/n (2.4 GHz)	Maximum	15.50	9.50	1.50
	Nominal	14.00	8.00	0.00

Note: In MIMO operations, Antenna 5 transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (dBm)								
		20 MHz Bandwidth			40 MHz Bandwidth			80 MHz Bandwidth		
		Ch. 36-48, 100-144	Ch. 52-64	Ch. 149-165	Ch. 38-46, 102-142	Ch. 54-62	Ch. 151-159	Ch. 42, 106-138	Ch. 58	Ch. 155
IEEE 802.11a (5 GHz)	Maximum	8.50	10.00	9.00						
	Nominal	7.00	8.50	7.50						
IEEE 802.11n (5 GHz)	Maximum	8.50	10.00	9.00	8.50	10.00	9.00			
	Nominal	7.00	8.50	7.50	7.00	8.50	7.50			
IEEE 802.11ac (5 GHz)	Maximum	8.50	10.00	9.00	8.50	10.00	9.00	8.50	10.00	9.00
	Nominal	7.00	8.50	7.50	7.00	8.50	7.50	7.00	8.50	7.50

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Mode / Band		Modulated Average - MIMO (CDD/SDM) (dBm)								
		20 MHz Bandwidth			40 MHz Bandwidth			80 MHz Bandwidth		
		Ch. 36-48, 100-144	Ch. 52-64	Ch. 149-165	Ch. 38-46, 102-142	Ch. 54-62	Ch. 151-159	Ch. 42, 106-138	Ch. 58	Ch. 155
IEEE 802.11a (5 GHz)	Maximum	8.50	10.00	9.00						
	Nominal	7.00	8.50	7.50						
IEEE 802.11n (5 GHz)	Maximum	8.50	10.00	9.00	8.50	10.00	9.00			
	Nominal	7.00	8.50	7.50	7.00	8.50	7.50			
IEEE 802.11ac (5 GHz)	Maximum	8.50	10.00	9.00	8.50	10.00	9.00	8.50	10.00	9.00
	Nominal	7.00	8.50	7.50	7.00	8.50	7.50	7.00	8.50	7.50

Note: The above power levels are implemented when 2G/3G/4G Operations are active with Antenna 2A. In MIMO operations, Antenna 5 transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

D. Antenna 6 - Output Power for Simultaneous Operations with 2G/3G/4G Antenna 3

Mode / Band		Modulated Average (dBm)								
		20 MHz Bandwidth			40 MHz Bandwidth			80 MHz Bandwidth		
		Ch. 36 - 64	Ch. 100-144	Ch. 149-165	Ch. 38-62	Ch. 102-142	Ch. 151-159	Ch. 42-58	Ch. 106-138	Ch. 155
IEEE 802.11a (5 GHz)	Maximum	12.00	10.50	10.00						
	Nominal	10.50	9.00	8.50						
IEEE 802.11n (5 GHz)	Maximum	12.00	10.50	10.00	12.00	10.50	10.00			
	Nominal	10.50	9.00	8.50	10.50	9.00	8.50			
IEEE 802.11ac (5 GHz)	Maximum	12.00	10.50	10.00	12.00	10.50	10.00	12.00	10.50	10.00
	Nominal	10.50	9.00	8.50	10.50	9.00	8.50	10.50	9.00	8.50

Mode / Band		Modulated Average - MIMO (CDD/SDM) (dBm)										
		20 MHz Bandwidth			40 MHz Bandwidth			80 MHz Bandwidth				
		Ch. 36-64	Ch. 104-144	Ch. 100, 149-165	Ch. 38-62	Ch. 102-142	Ch. 151-159	Ch. 42	Ch. 58	Ch. 106-138	Ch. 155	
IEEE 802.11a (5 GHz)	Maximum	12.00	10.50	10.00								
	Nominal	10.50	9.00	8.50								
IEEE 802.11n (5 GHz)	Maximum	12.00	10.50	10.00	12.00	10.50	10.00					
	Nominal	10.50	9.00	8.50	10.50	9.00	8.50					
IEEE 802.11ac (5 GHz)	Maximum	12.00	10.50	10.00	12.00	10.50	10.00	12.00	11.50	10.50	10.00	
	Nominal	10.50	9.00	8.50	10.50	9.00	8.50	10.50	10.00	9.00	8.50	

Note: In MIMO operations, Antenna 6 transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

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1.4 DUT Antenna Locations

The overall diagonal dimension of the device is > 200 mm. A diagram showing the location of the device antennas can be found in Appendix F. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

Table 1-1
Device Edges/Sides for SAR Testing

Mode	Back	Front	Top	Bottom	Right	Left
GPRS 850 Ant 1	Yes	No	No	Yes	No	Yes
GPRS 850 Ant 3	Yes	No	Yes	No	Yes	No
GPRS 1900 Ant 4a	Yes	No	Yes	No	No	Yes
GPRS 1900 Ant 4b	Yes	No	Yes	No	No	Yes
GPRS 1900 Ant 2a	Yes	No	No	Yes	Yes	No
GPRS 1900 Ant 2b	Yes	No	No	Yes	Yes	No
UMTS 850 Ant 1	Yes	No	No	Yes	No	Yes
UMTS 850 Ant 3	Yes	No	Yes	No	Yes	No
UMTS 1750 Ant 4a	Yes	No	Yes	No	No	Yes
UMTS 1750 Ant 4b	Yes	No	Yes	No	No	Yes
UMTS 1750 Ant 2a	Yes	No	No	Yes	Yes	No
UMTS 1750 Ant 2b	Yes	No	No	Yes	Yes	No
UMTS 1900 Ant 4a	Yes	No	Yes	No	No	Yes
UMTS 1900 Ant 4b	Yes	No	Yes	No	No	Yes
UMTS 1900 Ant 2a	Yes	No	No	Yes	Yes	No
UMTS 1900 Ant 2b	Yes	No	No	Yes	Yes	No
LTE Band 71 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 71 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 12 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 12 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 13 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 13 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 14 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 14 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 5 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 5 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 26 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 26 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 66 Ant 4a	Yes	No	Yes	No	No	Yes
LTE Band 66 Ant 4b	Yes	No	Yes	No	No	Yes
LTE Band 66 Ant 2a	Yes	No	No	Yes	Yes	No
LTE Band 66 Ant 2b	Yes	No	No	Yes	Yes	No
LTE Band 25 Ant 4a	Yes	No	Yes	No	No	Yes
LTE Band 25 Ant 4b	Yes	No	Yes	No	No	Yes
LTE Band 25 Ant 2a	Yes	No	No	Yes	Yes	No
LTE Band 25 Ant 2b	Yes	No	No	Yes	Yes	No
LTE Band 30 Ant 4a	Yes	No	Yes	No	No	Yes
LTE Band 30 Ant 4b	Yes	No	Yes	No	No	Yes
LTE Band 30 Ant 2a	Yes	No	No	Yes	Yes	No
LTE Band 30 Ant 2b	Yes	No	No	Yes	Yes	No
LTE Band 7 Ant 4a	Yes	No	Yes	No	No	Yes
LTE Band 7 Ant 4b	Yes	No	Yes	No	No	Yes
LTE Band 7 Ant 2a	Yes	No	No	Yes	Yes	No
LTE Band 7 Ant 2b	Yes	No	No	Yes	Yes	No
LTE Band 41 Ant 4a	Yes	No	Yes	No	No	Yes
LTE Band 41 Ant 4b	Yes	No	Yes	No	No	Yes
LTE Band 41 Ant 2a	Yes	No	No	Yes	Yes	No
LTE Band 41 Ant 2b	Yes	No	No	Yes	Yes	No
2.4 GHz WLAN Ant 4a	Yes	No	Yes	No	No	Yes
2.4 GHz WLAN Ant 2a	Yes	No	No	Yes	Yes	No
2.4 GHz WLAN Ant 5	Yes	No	No	Yes	Yes	No
5 GHz WLAN Ant 5	Yes	No	No	Yes	Yes	No
5 GHz WLAN Ant 6	Yes	No	Yes	No	Yes	No
Bluetooth Ant 4a	Yes	No	Yes	No	No	Yes
Bluetooth Ant 2a	Yes	No	No	Yes	Yes	No
Bluetooth Ant 5	Yes	No	No	Yes	Yes	No

Note: Per FCC KDB Publication 616217 D04v01r01, particular edges were not required to be evaluated for SAR based on the SAR exclusion threshold in KDB 447498 D01V06. Additional edges may have been evaluated for simultaneous transmission analysis.

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1.5 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be transmitting 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	Body
1	Cellular Band + 2.4 GHz WI-FI	Yes
2	Cellular Band + 5 GHz WI-FI	Yes
3	Cellular Band + 2.4 GHz Bluetooth	Yes
4	Cellular Band+ 2.4 GHz WI-FI MIMO	Yes
5	Cellular Band + 5 GHz WI-FI MIMO	Yes
6	Cellular Band + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
7	Cellular Band + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes
8	2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
9	2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes

1. There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/WI-FI antennas.
2. 2.4 GHz WLAN on Antenna 2a cannot transmit simultaneously with 2.4 GHz WLAN on Antenna 5.
3. 2.4 GHz WLAN and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously on any antenna (2a, 4a, 5).
4. All licensed modes share the same antenna path and cannot transmit simultaneously.
5. This device supports 2x2 MIMO Tx for WLAN. 802.11a/g/n/ac supports CDD/STBC and 802.11n/ac additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
6. This device support VoWiFi.

1.6 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.

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The WLAN/Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.

WLAN/Bluetooth SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN/Bluetooth configurations.

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, channels 1, 6 and 11 were considered for SAR testing per FCC KDB 248227 D01V02r02.

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

(B) Licensed Transmitter(s)

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. DLCA power measurements can be found in Appendix H.

This device supports LTE Carrier Aggregation (CA) in the uplink for LTE Band 7 and LTE Band 41 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Guidance, SAR for downlink 4x4 MIMO was not needed since the maximum average output power in 4x4 downlink MIMO mode was not > 0.25 dB higher than the maximum output power with downlink 4x4 MIMO inactive.

This device supports 64QAM on the uplink and 256QAM on the downlink for LTE Operations. Conducted powers for 64QAM uplink configurations were measured per Section 5.1 of FCC KDB Publication 941225 D05v02r05. SAR was not required for 64QAM since the highest maximum output power for 64 QAM 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.

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

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configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 14.2).

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.

1.7 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02 (2G/3G/4G)
- 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 616217 D04v01r02 (Tablet)
- 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)

1.8 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 10.

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LTE Information					
FCC ID	BCGA2013				
Form Factor	Tablet Device				
Frequency Range of each LTE transmission band	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 26 (Cell) (814.7 - 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 41 (2498.5 - 2687.5 MHz)				
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
Channel Bandwidths	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (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 17: 5 MHz	706.5 (23755)		710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)		710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A		782 (23230)	N/A	
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A		793 (23330)	N/A	
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 26 (Cell): 1.4 MHz	814.7 (26897)		831.5 (26865)	848.3 (27023)	
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 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 (19967)		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 (27685)		2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	N/A		2310 (27710)	N/A	
LTE Band 7: 5 MHz	2502.5 (20775)		2535 (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 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	DL UE Cat 16 (QPSK, 16QAM, 64QAM, 256QAM), UL UE Cat 13 (QPSK, 16QAM, 64QAM)				
Modulations Supported in UL	QPSK, 16QAM, 64QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 13. It supports carrier aggregation and downlink MIMO features as shown in Section 8 and Appendix H. All other uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC unless otherwise specified. The following LTE Release 13 Features are not supported: Relay, HetNet, Enhanced MIMO, eCIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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3 INTRODUCTION

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

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

3.1 SAR Definition

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

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

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

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

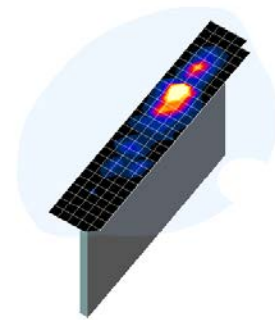


Figure 4-1
Sample SAR Area
Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 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 $\delta = 0.02$.

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

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

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6 RF EXPOSURE LIMITS

6.1 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.

6.2 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 6-1
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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7 FCC MEASUREMENT PROCEDURES

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

7.1 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.

7.2 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.

7.3 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.

7.4 SAR Measurement Conditions for UMTS

7.4.1 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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7.4.2 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.

7.4.3 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.

7.4.4 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.

7.4.5 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.

7.5 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).

7.5.1 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.

7.5.2 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.

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7.5.3 A-MPR

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

7.5.4 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.

According to FCC KDB 447498 D01v06, when the reported (scaled) SAR for LTE Band 41 is ≤ 0.6 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.

7.5.5 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.

7.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. For every supported combination of downlink only carrier aggregation, 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 carrier aggregation configurations when the average output power with downlink only carrier aggregation

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active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

7.6 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.

7.6.1 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.

7.6.2 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.

7.6.3 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.

7.6.4 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.

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- 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 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.

7.6.5 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. 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.

7.6.6 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 7.6.5).

7.6.7 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.

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7.6.8

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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8 RF CONDUCTED POWERS

8.1 GSM Conducted Powers

Table 8-1
Conducted Power Ant 1

Maximum Burst-Averaged Output Power					
Band	Channel	GPRS/EDGE Data (GMSK)		EDGE Data (8-PSK)	
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 850	128	27.50	25.75	22.00	20.98
	190	27.45	25.73	21.99	20.95
	251	27.40	25.72	21.92	20.97

Calculated Maximum Frame-Averaged Output Power					
Band	Channel	GPRS/EDGE Data (GMSK)		EDGE Data (8-PSK)	
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 850	128	18.47	19.73	12.97	14.96
	190	18.42	19.71	12.96	14.93
	251	18.37	19.70	12.89	14.95

GSM 850	Frame Avg.Targets:	18.47	20.48	12.97	14.98
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Table 8-2
Conducted Power Ant 3

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 850	128	29.15	26.90	24.71	23.75
	190	29.00	26.81	24.72	23.70
	251	29.02	26.82	24.75	23.69

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 850	128	20.12	20.88	15.68	17.73
	190	19.97	20.79	15.69	17.68
	251	19.99	20.80	15.72	17.67

GSM 850	Frame Avg.Targets:	21.22	21.68	15.72	17.73
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Table 8-3
Conducted Power Ant 2a

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	22.50	19.48	21.72	19.50
	661	22.39	19.33	21.60	19.42
	810	22.42	19.30	21.62	19.43

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	13.47	13.46	12.69	13.48
	661	13.36	13.31	12.57	13.40
	810	13.39	13.28	12.59	13.41
GSM 1900	Frame Avg.Targets:	14.27	14.28	12.72	14.28

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**Table 8-4
Conducted Power Ant 2b**

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	22.20	19.20	21.75	19.20
	661	22.19	19.16	21.74	19.16
	810	22.09	19.03	21.66	19.10

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	13.17	13.18	12.72	13.18
	661	13.16	13.14	12.71	13.14
	810	13.06	13.01	12.63	13.08

GSM 1900	Frame Avg.Targets:	13.97	13.98	12.72	13.98
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**Table 8-5
Conducted Power Ant 4a**

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	23.80	20.80	23.80	20.80
	661	23.75	20.77	23.78	20.79
	810	23.60	20.59	23.57	20.63

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	14.77	14.78	14.77	14.78
	661	14.72	14.75	14.75	14.77
	810	14.57	14.57	14.54	14.61

GSM 1900	Frame Avg.Targets:	15.27	15.28	15.22	15.28
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Table 8-6
Conducted Power Ant 4b

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	22.68	19.70	22.70	19.69
	661	22.50	19.59	22.56	19.52
	810	22.48	19.60	22.56	19.51

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	13.65	13.68	13.67	13.67
	661	13.47	13.57	13.53	13.50
	810	13.45	13.58	13.53	13.49

GSM 1900	Frame Avg.Targets:	14.47	14.48	14.47	14.48
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Note:

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

GSM Class: C
GPRS Multislot class: 10 (Max 2 Tx uplink slots)
EDGE Multislot class: 10 (Max 2 Tx uplink slots)
DTM Multislot Class: N/A



Figure 8-1
Power Measurement Setup

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8.2 UMTS Conducted Powers

Table 8-7
Conducted Power Ant 1

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	19.64	19.77	19.59	-
6	HSDPA	Subtest 1	19.74	19.88	19.68	0
6		Subtest 2	19.74	19.86	19.65	0
6		Subtest 3	19.76	19.91	19.67	0.5
6		Subtest 4	19.73	19.87	19.68	0.5
6	HSUPA	Subtest 1	19.39	19.48	19.31	0
6		Subtest 2	19.71	19.83	19.61	2
6		Subtest 3	19.41	19.46	19.26	1
6		Subtest 4	19.61	19.71	19.50	2
6		Subtest 5	19.72	19.83	19.65	0
8	DC-HSDPA	Subtest 1	19.70	19.82	19.64	0
8		Subtest 2	19.72	19.83	19.63	0
8		Subtest 3	19.74	19.81	19.65	0.5
8		Subtest 4	19.72	19.83	19.68	0.5

Table 8-8
Conducted Power Ant 3

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.84	20.88	20.83	-
6	HSDPA	Subtest 1	20.71	20.82	20.73	0
6		Subtest 2	20.68	20.78	20.71	0
6		Subtest 3	20.73	20.87	20.68	0.5
6		Subtest 4	20.74	20.85	20.69	0.5
6	HSUPA	Subtest 1	20.58	20.73	20.60	0
6		Subtest 2	20.76	20.88	20.71	2
6		Subtest 3	20.66	20.82	20.67	1
6		Subtest 4	20.75	20.89	20.71	2
6		Subtest 5	20.66	20.80	20.66	0
8	DC-HSDPA	Subtest 1	20.76	20.80	20.78	0
8		Subtest 2	20.74	20.82	20.74	0
8		Subtest 3	20.78	20.82	20.73	0.5
8		Subtest 4	20.77	20.79	20.75	0.5

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Table 8-9
Conducted Power Ant 2a

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	14.15	14.18	14.05	13.48	13.33	13.41	-
6	HSDPA	Subtest 1	14.11	14.06	13.92	13.36	13.29	13.46	0
6		Subtest 2	14.10	14.04	13.91	13.50	13.37	13.48	0
6		Subtest 3	14.08	14.05	13.95	13.47	13.30	13.43	0.5
6		Subtest 4	14.09	14.08	13.94	13.42	13.28	13.46	0.5
6	HSUPA	Subtest 1	13.98	13.95	13.90	13.48	13.38	13.49	0
6		Subtest 2	14.09	14.03	13.96	13.50	13.41	13.47	2
6		Subtest 3	13.98	13.94	13.84	13.45	13.38	13.44	1
6		Subtest 4	13.91	13.85	13.83	13.47	13.35	13.48	2
6		Subtest 5	14.12	14.05	13.96	13.50	13.38	13.49	0
8	DC-HSDPA	Subtest 1	14.15	14.09	13.99	13.49	13.32	13.41	0
8		Subtest 2	14.14	14.05	13.99	13.50	13.33	13.47	0
8		Subtest 3	14.11	14.09	13.93	13.46	13.39	13.45	0.5
8		Subtest 4	14.15	14.04	13.92	13.41	13.28	13.43	0.5

Table 8-10
Conducted Power Ant 2b

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	13.69	13.75	13.63	13.15	13.11	13.20	-
6	HSDPA	Subtest 1	13.69	13.70	13.67	13.22	13.07	13.17	0
6		Subtest 2	13.68	13.67	13.66	13.20	13.08	13.03	0
6		Subtest 3	13.67	13.69	13.65	13.18	13.02	13.06	0.5
6		Subtest 4	13.69	13.71	13.63	13.19	13.06	13.04	0.5
6	HSUPA	Subtest 1	13.67	13.63	13.66	13.17	13.02	13.02	0
6		Subtest 2	13.60	13.67	13.62	13.17	13.02	12.96	2
6		Subtest 3	13.62	13.60	13.59	13.16	13.04	12.92	1
6		Subtest 4	13.66	13.63	13.62	13.12	13.02	12.96	2
6		Subtest 5	13.63	13.65	13.64	13.21	13.04	12.99	0
8	DC-HSDPA	Subtest 1	13.65	13.68	13.61	13.18	13.02	13.09	0
8		Subtest 2	13.69	13.64	13.64	13.17	13.05	13.06	0
8		Subtest 3	13.66	13.63	13.67	13.15	13.06	13.06	0.5
8		Subtest 4	13.64	13.65	13.64	13.16	13.03	13.01	0.5

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Table 8-11
Conducted Power Ant 4a

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	14.49	14.48	14.37	14.80	14.71	14.79	-
6	HSDPA	Subtest 1	14.52	14.40	14.29	14.76	14.43	14.46	0
6		Subtest 2	14.45	14.37	14.33	14.77	14.48	14.44	0
6		Subtest 3	14.41	14.39	14.37	14.80	14.45	14.42	0.5
6		Subtest 4	14.50	14.37	14.34	14.79	14.46	14.54	0.5
6	HSUPA	Subtest 1	14.52	14.46	14.45	14.86	14.63	14.56	0
6		Subtest 2	14.42	14.40	14.42	14.85	14.60	14.47	2
6		Subtest 3	14.41	14.40	14.42	14.85	14.58	14.47	1
6		Subtest 4	14.44	14.40	14.43	14.83	14.55	14.52	2
6		Subtest 5	14.51	14.46	14.44	14.93	14.60	14.56	0
8	DC-HSDPA	Subtest 1	14.49	14.51	14.43	14.87	14.63	14.58	0
8		Subtest 2	14.50	14.49	14.46	14.85	14.62	14.59	0
8		Subtest 3	14.52	14.54	14.49	14.88	14.60	14.51	0.5
8		Subtest 4	14.50	14.48	14.47	14.87	14.56	14.55	0.5

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Table 8-12
Conducted Power Ant 4b

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	13.82	13.96	13.77	13.70	13.60	13.68	-
6	HSDPA	Subtest 1	13.98	14.01	13.96	13.83	13.66	13.89	0
6		Subtest 2	13.96	13.93	13.90	13.82	13.65	13.87	0
6		Subtest 3	14.01	14.03	13.97	13.82	13.67	13.79	0.5
6		Subtest 4	13.96	13.95	13.95	13.82	13.65	13.81	0.5
6	HSUPA	Subtest 1	13.97	13.93	13.91	13.66	13.53	13.77	0
6		Subtest 2	13.93	13.91	13.90	13.79	13.67	13.75	2
6		Subtest 3	13.96	13.94	13.88	13.54	13.40	13.57	1
6		Subtest 4	13.93	13.94	13.87	13.68	13.49	13.67	2
6		Subtest 5	13.93	13.95	13.89	13.88	13.66	13.85	0
8	DC-HSDPA	Subtest 1	14.01	13.97	13.93	13.87	13.62	13.91	0
8		Subtest 2	14.00	13.95	13.91	13.83	13.68	13.89	0
8		Subtest 3	13.99	14.00	13.93	13.84	13.65	13.82	0.5
8		Subtest 4	14.00	13.99	13.92	13.77	13.61	13.85	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



Figure 8-2
Power Measurement Setup

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8.3 LTE Conducted Powers

8.3.1 LTE Band 71

Table 8-13
LTE Band 71 Conducted Powers Ant 1- 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	19.96	0	0
	1	50	20.00		0
	1	99	19.99		0
	50	0	19.88	0-1	0
	50	25	19.98		0
	50	50	19.81		0
	100	0	19.97		0
16QAM	1	0	19.88	0-1	0
	1	50	19.93		0
	1	99	19.87		0
	50	0	19.64	0-2	0
	50	25	19.63		0
	50	50	19.50		0
	100	0	19.69		0
	1	0	19.84	0-2	0
64QAM	1	50	19.85		0
	1	99	19.83		0
	50	0	19.64	0-3	0
	50	25	19.62		0
	50	50	19.49		0
	100	0	19.68		0

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 8-14
LTE Band 71 Conducted Powers Ant 1 - 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	19.89	0	0
	1	36	19.72		0
	1	74	19.75		0
	36	0	19.85	0-1	0
	36	18	19.70		0
	36	37	19.63		0
	75	0	19.73		0
16QAM	1	0	19.99	0-1	0
	1	36	19.78		0
	1	74	19.75		0
	36	0	19.69	0-2	0
	36	18	19.54		0
	36	37	19.49		0
	75	0	19.57		0
64QAM	1	0	19.99	0-2	0
	1	36	19.81		0
	1	74	19.77		0
	36	0	19.69	0-3	0
	36	18	19.55		0
	36	37	19.49		0
	75	0	19.58		0

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 8-15
LTE Band 71 Conducted Powers Ant 1 - 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	19.95	19.95	19.80	0	0
	1	25	19.88	19.75	19.72		0
	1	49	19.73	19.73	19.82		0
	25	0	19.88	19.72	19.69	0-1	0
	25	12	19.83	19.64	19.59		0
	25	25	19.72	19.61	19.64		0
	50	0	19.85	19.67	19.69		0
16QAM	1	0	19.99	20.00	19.87	0-1	0
	1	25	19.81	19.79	19.78		0
	1	49	19.72	19.76	19.79		0
	25	0	19.68	19.61	19.51	0-2	0
	25	12	19.60	19.52	19.46		0
	25	25	19.51	19.50	19.43		0
	50	0	19.60	19.52	19.46		0
64QAM	1	0	19.97	19.99	19.86	0-2	0
	1	25	19.88	19.76	19.77		0
	1	49	19.71	19.79	19.84		0
	25	0	19.68	19.59	19.48	0-3	0
	25	12	19.60	19.51	19.41		0
	25	25	19.51	19.50	19.43		0
	50	0	19.59	19.53	19.46		0

Table 8-16
LTE Band 71 Conducted Powers Ant 1 - 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	19.87	19.72	19.71	0	0
	1	12	19.83	19.63	19.67		0
	1	24	19.82	19.66	19.75		0
	12	0	19.80	19.62	19.61	0-1	0
	12	6	19.80	19.59	19.59		0
	12	13	19.81	19.56	19.66		0
16QAM	25	0	19.80	19.61	19.64	0-1	0
	1	0	19.83	19.75	19.72		0
	1	12	19.86	19.68	19.66		0
	1	24	19.81	19.65	19.70	0-2	0
	12	0	19.62	19.47	19.39		0
	12	6	19.65	19.45	19.40		0
64QAM	12	13	19.64	19.40	19.43	0-2	0
	25	0	19.61	19.44	19.40		0
	1	0	19.88	19.75	19.72	0-2	0
	1	12	19.85	19.65	19.68		0
	1	24	19.84	19.67	19.71		0
	12	0	19.61	19.46	19.39	0-3	0
12	6	19.63	19.44	19.42	0		
12	13	19.62	19.41	19.44	0		
	25	0	19.61	19.42	19.41		0

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Table 8-17
LTE Band 71 Conducted Powers Ant 3- 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	22.11	0	0
	1	50	22.16		0
	1	99	22.20		0
	50	0	22.15	0-1	0
	50	25	22.19		0
	50	50	22.09		0
	100	0	22.18		0
16QAM	1	0	22.17	0-1	0
	1	50	22.20		0
	1	99	22.20		0
	50	0	22.17	0-2	0
	50	25	22.12		0
	50	50	22.00		0
	100	0	22.17		0
64QAM	1	0	22.18	0-2	0
	1	50	22.20		0
	1	99	22.19		0
	50	0	21.97	0-3	0
	50	25	21.94		0
	50	50	21.81		0
	100	0	21.98		0

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 8-18
LTE Band 71 Conducted Powers Ant 3 - 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	22.13	0	0
	1	36	22.00		0
	1	74	22.04		0
	36	0	22.08	0-1	0
	36	18	21.99		0
	36	37	21.95		0
	75	0	22.05		0
16QAM	1	0	22.20	0-1	0
	1	36	22.15		0
	1	74	22.20		0
	36	0	22.10	0-2	0
	36	18	22.01		0
	36	37	21.97		0
	75	0	22.04		0
64QAM	1	0	22.13	0-2	0
	1	36	22.15		0
	1	74	22.14		0
	36	0	21.93	0-3	0
	36	18	21.81		0
	36	37	21.80		0
	75	0	21.87		0

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 8-19
LTE Band 71 Conducted Powers Ant 3 - 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	22.20	22.19	22.12	0	0
	1	25	22.13	22.02	21.95		0
	1	49	22.01	21.98	22.10		0
	25	0	22.13	21.97	22.01	0-1	0
	25	12	22.08	21.96	21.83		0
	25	25	21.95	21.93	21.97		0
16QAM	50	0	22.09	21.98	21.93		0
	1	0	22.20	22.20	22.20	0-1	0
	1	25	22.13	22.19	22.06		0
	1	49	21.98	22.18	22.12		0
	25	0	22.14	22.00	22.03	0-2	0
	25	12	22.09	21.99	21.88		0
25	25	21.97	21.97	21.99	0		
64QAM	50	0	22.09	22.00	21.96		0
	1	0	22.16	22.20	22.10	0-2	0
	1	25	22.19	22.19	22.16		0
	1	49	22.19	22.17	22.15		0
	25	0	21.96	21.81	21.84	0-3	0
	25	12	21.93	21.80	21.70		0
25	25	21.80	21.76	21.78	0		
	50	0	21.93	21.81	21.75		0

Table 8-20
LTE Band 71 Conducted Powers Ant 3 - 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	22.10	21.98	21.96	0	0
	1	12	22.07	21.94	21.96		0
	1	24	22.06	21.93	22.03		0
	12	0	22.02	21.95	21.91	0-1	0
	12	6	22.02	21.92	21.93		0
	12	13	22.04	21.89	21.98		0
16QAM	25	0	22.04	21.93	21.95		0
	1	0	22.20	22.20	22.20	0-1	0
	1	12	22.12	22.14	22.20		0
	1	24	22.18	22.20	22.10		0
	12	0	22.06	22.00	21.95	0-2	0
	12	6	22.07	21.96	21.98		0
12	13	22.09	21.94	22.03	0		
64QAM	25	0	22.09	21.97	21.97		0
	1	0	22.18	22.20	22.13	0-2	0
	1	12	22.10	22.11	22.20		0
	1	24	22.15	22.16	22.18		0
	12	0	21.85	21.78	21.74	0-3	0
	12	6	21.91	21.77	21.78		0
12	13	21.96	21.73	21.85	0		
	25	0	21.86	21.76	21.79		0

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LTE Band 12

Table 8-21
LTE Band 12 Conducted Powers Ant 1- 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.58	0	0
	1	25	19.59		0
	1	49	19.67		0
	25	0	19.62	0-1	0
	25	12	19.56		0
	25	25	19.61		0
	50	0	19.57		0
16QAM	1	0	19.62	0-1	0
	1	25	19.61		0
	1	49	19.58		0
	25	0	19.45	0-2	0
	25	12	19.36		0
	25	25	19.37		0
	50	0	19.37		0
64QAM	1	0	19.65	0-2	0
	1	25	19.61		0
	1	49	19.67		0
	25	0	19.46	0-3	0
	25	12	19.37		0
	25	25	19.38		0
	50	0	19.37		0

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.

Table 8-22
LTE Band 12 Conducted Powers Ant 1- 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	19.53	19.66	19.56	0	0
	1	12	19.51	19.55	19.55		0
	1	24	19.57	19.56	19.52		0
	12	0	19.46	19.55	19.49	0-1	0
	12	6	19.51	19.52	19.51		0
	12	13	19.50	19.56	19.50		0
	25	0	19.52	19.53	19.54		0
16QAM	1	0	19.61	19.63	19.58	0-1	0
	1	12	19.59	19.55	19.56		0
	1	24	19.58	19.59	19.57		0
	12	0	19.32	19.38	19.37	0-2	0
	12	6	19.31	19.34	19.38		0
	12	13	19.30	19.36	19.36		0
	25	0	19.31	19.32	19.39		0
64QAM	1	0	19.60	19.66	19.65	0-2	0
	1	12	19.57	19.61	19.63		0
	1	24	19.56	19.60	19.62		0
	12	0	19.32	19.40	19.38	0-3	0
	12	6	19.34	19.38	19.40		0
	12	13	19.31	19.36	19.37		0
	25	0	19.30	19.32	19.39		0

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Table 8-23
LTE Band 12 Conducted Powers Ant 1- 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	19.47	19.53	19.55	0	0
	1	7	19.48	19.68	19.56		0
	1	14	19.50	19.53	19.51		0
	8	0	19.49	19.56	19.56	0-1	0
	8	4	19.46	19.54	19.53		0
	8	7	19.52	19.59	19.55		0
	15	0	19.46	19.53	19.54		0
16QAM	1	0	19.52	19.56	19.57	0-1	0
	1	7	19.56	19.63	19.65		0
	1	14	19.55	19.59	19.55		0
	8	0	19.37	19.46	19.40	0-2	0
	8	4	19.33	19.41	19.38		0
	8	7	19.35	19.44	19.36		0
	15	0	19.30	19.38	19.37		0
64QAM	1	0	19.59	19.58	19.60	0-2	0
	1	7	19.58	19.65	19.66		0
	1	14	19.52	19.57	19.58		0
	8	0	19.37	19.44	19.42	0-3	0
	8	4	19.33	19.41	19.39		0
	8	7	19.39	19.43	19.40		0
	15	0	19.34	19.39	19.36		0

Table 8-24
LTE Band 12 Conducted Powers Ant 1-1.4 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	19.53	19.58	19.56	0	0
	1	2	19.49	19.56	19.54		0
	1	5	19.50	19.52	19.55		0
	3	0	19.50	19.57	19.55		0
	3	2	19.49	19.56	19.54		0
	3	3	19.48	19.55	19.54		0
	6	0	19.49	19.55	19.55	0-1	0
16QAM	1	0	19.58	19.60	19.59	0-1	0
	1	2	19.53	19.63	19.60		0
	1	5	19.52	19.59	19.57		0
	3	0	19.42	19.51	19.49		0
	3	2	19.41	19.52	19.47		0
	3	3	19.39	19.49	19.45		0
	6	0	19.33	19.45	19.40	0-2	0
64QAM	1	0	19.59	19.62	19.61	0-2	0
	1	2	19.53	19.60	19.60		0
	1	5	19.52	19.59	19.62		0
	3	0	19.46	19.51	19.48		0
	3	2	19.43	19.49	19.47		0
	3	3	19.42	19.50	19.47		0
	6	0	19.39	19.41	19.41	0-3	0

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Table 8-25
LTE Band 12 Conducted Powers Ant 3- 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.96	0	0
	1	25	19.95		0
	1	49	19.90		0
	25	0	19.95	0-1	0
	25	12	19.93		0
	25	25	19.89		0
	50	0	19.94		0
16QAM	1	0	20.00	0-1	0
	1	25	19.95		0
	1	49	19.79		0
	25	0	19.69	0-2	0
	25	12	19.64		0
	25	25	19.54		0
	50	0	19.62		0
64QAM	1	0	20.00	0-2	0
	1	25	19.85		0
	1	49	19.78		0
	25	0	19.69	0-3	0
	25	12	19.64		0
	25	25	19.55		0
	50	0	19.62		0

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.

Table 8-26
LTE Band 12 Conducted Powers Ant 3- 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	19.83	19.98	19.79	0	0
	1	12	19.83	19.94	19.80		0
	1	24	19.92	19.84	19.80		0
	12	0	19.77	19.92	19.72	0-1	0
	12	6	19.80	19.88	19.76		0
	12	13	19.81	19.81	19.76		0
	25	0	19.81	19.82	19.78		0
16QAM	1	0	19.84	19.88	19.76	0-1	0
	1	12	19.90	19.81	19.88		0
	1	24	19.89	19.77	19.78		0
	12	0	19.60	19.69	19.53	0-2	0
	12	6	19.63	19.65	19.57		0
	12	13	19.63	19.58	19.55		0
	25	0	19.62	19.60	19.58		0
64QAM	1	0	19.85	19.98	19.75	0-2	0
	1	12	19.86	19.82	19.80		0
	1	24	19.87	19.70	19.85		0
	12	0	19.60	19.68	19.55	0-3	0
	12	6	19.63	19.65	19.61		0
	12	13	19.63	19.56	19.58		0
	25	0	19.61	19.61	19.60		0

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Table 8-27
LTE Band 12 Conducted Powers Ant 3 - 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	19.78	19.87	19.80	0	0
	1	7	19.82	19.91	19.86		0
	1	14	19.85	19.76	19.80		0
	8	0	19.80	19.89	19.82	0-1	0
	8	4	19.79	19.86	19.82		0
	8	7	19.85	19.82	19.85		0
	15	0	19.79	19.85	19.82		0
16QAM	1	0	19.74	19.83	19.75	0-1	0
	1	7	19.84	19.85	19.87		0
	1	14	19.79	19.75	19.64		0
	8	0	19.61	19.71	19.62	0-2	0
	8	4	19.63	19.67	19.60		0
	8	7	19.64	19.64	19.62		0
	15	0	19.56	19.62	19.55		0
64QAM	1	0	19.73	19.88	19.75	0-2	0
	1	7	19.86	19.88	19.84		0
	1	14	19.85	19.77	19.71		0
	8	0	19.62	19.68	19.63	0-3	0
	8	4	19.62	19.70	19.58		0
	8	7	19.63	19.63	19.61		0
	15	0	19.57	19.62	19.58		0

Table 8-28
LTE Band 12 Conducted Powers Ant 3-1.4 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	19.84	19.91	19.88	0	0
	1	2	19.82	19.88	19.84		0
	1	5	19.83	19.84	19.86		0
	3	0	19.80	19.89	19.83		0
	3	2	19.79	19.86	19.83		0
	3	3	19.80	19.83	19.83		0
	6	0	19.80	19.87	19.83	0-1	0
16QAM	1	0	19.84	19.91	19.87	0-1	0
	1	2	19.80	19.92	19.80		0
	1	5	19.83	19.84	19.83		0
	3	0	19.68	19.75	19.68		0
	3	2	19.62	19.70	19.66		0
	3	3	19.66	19.68	19.68		0
	6	0	19.63	19.67	19.64	0-2	0
64QAM	1	0	19.81	19.95	19.86	0-2	0
	1	2	19.80	19.87	19.85		0
	1	5	19.90	19.81	19.82		0
	3	0	19.64	19.75	19.75		0
	3	2	19.64	19.69	19.66		0
	3	3	19.64	19.69	19.67		0
	6	0	19.60	19.65	19.63	0-3	0

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LTE Band 13

Table 8-29
LTE Band 13 Conducted Powers Ant 1- 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.30	0	0
	1	25	21.09		0
	1	49	21.21		0
	25	0	21.07	0-1	0
	25	12	21.08		0
	25	25	21.17		0
	50	0	21.14		0
16QAM	1	0	21.29	0-1	0
	1	25	20.90		0
	1	49	20.89		0
	25	0	20.60	0-2	0
	25	12	20.63		0
	25	25	20.62		0
	50	0	20.65		0
64QAM	1	0	21.27	0-2	0
	1	25	20.90		0
	1	49	20.88		0
	25	0	20.87	0-3	0
	25	12	20.86		0
	25	25	20.88		0
	50	0	20.81		0

Table 8-30
LTE Band 13 Conducted Powers Ant 1- 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	21.12	0	0
	1	12	21.06		0
	1	24	21.09		0
	12	0	20.98	0-1	0
	12	6	21.01		0
	12	13	21.02		0
	25	0	21.04		0
16QAM	1	0	20.93	0-1	0
	1	12	20.85		0
	1	24	20.94		0
	12	0	20.56	0-2	0
	12	6	20.60		0
	12	13	20.62		0
	25	0	20.60		0
64QAM	1	0	20.91	0-2	0
	1	12	20.88		0
	1	24	20.92		0
	12	0	20.74	0-3	0
	12	6	20.77		0
	12	13	20.78		0
	25	0	20.77		0

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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Table 8-31
LTE Band 13 Conducted Powers Ant 3- 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.23	0	0
	1	25	21.19		0
	1	49	21.30		0
	25	0	21.27	0-1	0
	25	12	21.20		0
	25	25	21.25		0
	50	0	21.26		0
16QAM	1	0	21.29	0-1	0
	1	25	20.98		0
	1	49	21.13		0
	25	0	20.84	0-2	0
	25	12	20.78		0
	25	25	20.80		0
	50	0	20.83		0
64QAM	1	0	21.27	0-2	0
	1	25	21.04		0
	1	49	21.15		0
	25	0	20.83	0-3	0
	25	12	20.77		0
	25	25	20.82		0
	50	0	20.84		0

Table 8-32
LTE Band 13 Conducted Powers Ant 3- 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	21.29	0	0
	1	12	21.20		0
	1	24	21.23		0
	12	0	21.17	0-1	0
	12	6	21.14		0
	12	13	21.23		0
	25	0	21.16		0
16QAM	1	0	21.11	0-1	0
	1	12	21.13		0
	1	24	21.12		0
	12	0	20.86	0-2	0
	12	6	20.80		0
	12	13	20.90		0
	25	0	20.79		0
64QAM	1	0	21.13	0-2	0
	1	12	21.04		0
	1	24	21.11		0
	12	0	20.81	0-3	0
	12	6	20.78		0
	12	13	20.89		0
	25	0	20.80		0

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 8-33
LTE Band 14 Conducted Powers Ant 1- 10 MHz Bandwidth

LTE Band 14 10 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	21.21	0	0
	1	25	21.14		0
	1	49	21.20		0
	25	0	21.16	0-1	0
	25	12	21.14		0
	25	25	21.11		0
	50	0	21.15		0
16QAM	1	0	21.24	0-1	0
	1	25	21.17		0
	1	49	21.10		0
	25	0	20.66	0-2	0
	25	12	20.62		0
	25	25	20.60		0
	50	0	20.60		0
64QAM	1	0	21.04	0-2	0
	1	25	20.97		0
	1	49	20.96		0
	25	0	20.84	0-3	0
	25	12	20.80		0
	25	25	20.74		0
	50	0	20.79		0

Table 8-34
LTE Band 14 Conducted Powers Ant 1- 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	21.12	0	0
	1	12	21.05		0
	1	24	21.07		0
	12	0	21.06	0-1	0
	12	6	21.03		0
	12	13	20.97		0
	25	0	21.03		0
16QAM	1	0	21.23	0-1	0
	1	12	21.18		0
	1	24	21.10		0
	12	0	20.70	0-2	0
	12	6	20.68		0
	12	13	20.65		0
	25	0	20.64		0
64QAM	1	0	21.00	0-2	0
	1	12	20.95		0
	1	24	20.85		0
	12	0	20.82	0-3	0
	12	6	20.78		0
	12	13	20.74		0
	25	0	20.76		0

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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Table 8-35
LTE Band 14 Conducted Powers Ant 3- 10 MHz Bandwidth

LTE Band 14 10 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	21.28	0	0
	1	25	21.22		0
	1	49	21.26		0
	25	0	21.25	0-1	0
	25	12	21.21		0
	25	25	21.19		0
16QAM	50	0	21.22	0-1	0
	1	0	21.20		0
	1	25	21.06		0
	1	49	21.09	0-2	0
	25	0	20.87		0
	25	12	20.84		0
64QAM	25	25	20.76	0-2	0
	50	0	20.83		0
	1	0	21.20	0-2	0
	1	25	21.07		0
	1	49	21.03		0
	25	0	20.86	0-3	0
	25	12	20.84		0
	25	25	20.76		0
	50	0	20.83		0

Table 8-36
LTE Band 14 Conducted Powers Ant 3- 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	21.24	0	0
	1	12	21.18		0
	1	24	21.09		0
	12	0	21.13	0-1	0
	12	6	21.15		0
	12	13	21.10		0
16QAM	25	0	21.16	0-1	0
	1	0	21.16		0
	1	12	21.05		0
	1	24	20.98	0-2	0
	12	0	20.84		0
	12	6	20.88		0
64QAM	12	13	20.82	0-2	0
	25	0	20.87		0
	1	0	21.16	0-2	0
	1	12	21.06		0
	1	24	21.01		0
	12	0	20.81	0-3	0
	12	6	20.86		0
	12	13	20.82		0
	25	0	20.85		0

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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8.3.5 LTE Band 5 (Cell)

Table 8-37
LTE Band 5 (Cell) Conducted Powers Ant 1 - 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	20.15	0	0
	1	25	20.19		0
	1	49	20.30		0
	25	0	20.19	0-1	0
	25	12	20.20		0
	25	25	20.29		0
	50	0	20.23		0
16QAM	1	0	20.18	0-1	0
	1	25	20.17		0
	1	49	20.19		0
	25	0	20.00	0-2	0
	25	12	20.01		0
	25	25	20.04		0
	50	0	20.02		0
64QAM	1	0	20.16	0-2	0
	1	25	20.18		0
	1	49	20.22		0
	25	0	19.93	0-3	0
	25	12	19.88		0
	25	25	19.95		0
	50	0	19.90		0

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.

Table 8-38
LTE Band 5 (Cell) Conducted Powers Ant 1 - 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	20.14	20.18	20.03	0	0
	1	12	20.05	20.11	20.00		0
	1	24	19.92	20.15	20.07		0
	12	0	20.08	20.16	20.01	0-1	0
	12	6	20.05	20.14	19.97		0
	12	13	20.00	20.15	20.01		0
	25	0	20.05	20.15	19.99		0
16QAM	1	0	20.18	20.14	20.00	0-1	0
	1	12	20.13	20.12	20.04		0
	1	24	19.91	20.15	20.08		0
	12	0	19.92	19.94	19.83	0-2	0
	12	6	19.87	19.93	19.81		0
	12	13	19.83	19.98	19.82		0
	25	0	19.88	19.94	19.80		0
64QAM	1	0	20.14	20.17	20.12	0-2	0
	1	12	20.04	20.10	20.09		0
	1	24	19.94	20.19	20.10		0
	12	0	19.86	19.87	19.75	0-3	0
	12	6	19.80	19.87	19.77		0
	12	13	19.85	19.92	19.80		0
	25	0	19.81	19.86	19.74		0

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Table 8-39
LTE Band 5 (Cell) Conducted Powers Ant 1 - 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	20.11	20.12	20.00	0	0
	1	7	20.11	20.13	20.07		0
	1	14	20.00	20.14	20.03		0
	8	0	20.13	20.13	20.00	0-1	0
	8	4	20.09	20.11	20.03		0
	8	7	20.06	20.19	20.04		0
	15	0	20.08	20.11	20.02		0
16QAM	1	0	20.11	20.09	20.01	0-1	0
	1	7	20.12	20.11	20.04		0
	1	14	20.02	20.08	20.00		0
	8	0	19.97	19.96	19.84	0-2	0
	8	4	19.94	19.94	19.85		0
	8	7	19.91	19.99	19.86		0
	15	0	19.93	19.94	19.82		0
64QAM	1	0	20.17	20.10	20.03	0-2	0
	1	7	20.19	20.13	20.09		0
	1	14	20.16	20.19	20.12		0
	8	0	19.91	19.92	19.78	0-3	0
	8	4	19.90	19.91	19.83		0
	8	7	19.87	19.97	19.82		0
	15	0	19.84	19.90	19.80		0

Table 8-40
LTE Band 5 (Cell) 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	20.15	20.14	20.10	0	0
	1	2	20.11	20.14	20.08		0
	1	5	20.13	20.16	20.09		0
	3	0	20.13	20.15	20.07		0
	3	2	20.12	20.13	20.05		0
	3	3	20.11	20.15	20.07		0
	6	0	20.11	20.14	20.05		0
16QAM	1	0	20.15	20.14	20.11	0-1	0
	1	2	20.16	20.11	20.09		0
	1	5	20.10	20.13	20.10		0
	3	0	20.06	20.05	19.97		0
	3	2	20.03	20.01	19.96		0
	3	3	20.04	20.04	19.96		0
	6	0	20.05	20.00	19.90		0
64QAM	1	0	20.17	20.17	20.14	0-2	0
	1	2	20.16	20.13	20.08		0
	1	5	20.14	20.18	20.11		0
	3	0	20.10	20.09	19.98		0
	3	2	20.06	20.04	19.95		0
	3	3	20.09	20.11	19.99		0
	6	0	19.94	20.04	19.90	0-3	0

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Table 8-41
LTE Band 5 (Cell) Conducted Powers Ant 3 - 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	21.32	0	0
	1	25	21.30		0
	1	49	21.40		0
	25	0	21.33	0-1	0
	25	12	21.34		0
	25	25	21.40		0
	50	0	21.37		0
16QAM	1	0	21.34	0-1	0
	1	25	21.25		0
	1	49	21.35		0
	25	0	21.08	0-2	0
	25	12	21.09		0
	25	25	21.14		0
	50	0	21.10		0
64QAM	1	0	21.26	0-2	0
	1	25	21.28		0
	1	49	21.32		0
	25	0	21.07	0-3	0
	25	12	21.09		0
	25	25	21.15		0
	50	0	21.11		0

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.

Table 8-42
LTE Band 5 (Cell) Conducted Powers Ant 3 - 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	21.24	21.26	21.18	0	0
	1	12	21.14	21.24	21.15		0
	1	24	21.10	21.32	21.26		0
	12	0	21.19	21.24	21.17	0-1	0
	12	6	21.14	21.24	21.13		0
	12	13	21.10	21.29	21.18		0
	25	0	21.15	21.27	21.16		0
16QAM	1	0	21.25	21.25	21.17	0-1	0
	1	12	21.24	21.24	21.27		0
	1	24	21.27	21.35	21.25		0
	12	0	21.06	21.05	21.06	0-2	0
	12	6	21.07	21.04	21.06		0
	12	13	21.13	21.12	21.12		0
	25	0	21.08	21.07	21.07		0
64QAM	1	0	21.17	21.26	21.29	0-2	0
	1	12	21.25	21.24	21.24		0
	1	24	21.31	21.25	21.27		0
	12	0	21.05	21.06	21.07	0-3	0
	12	6	21.05	21.05	21.08		0
	12	13	21.11	21.12	21.11		0
	25	0	21.07	21.07	21.06		0

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Table 8-43
LTE Band 5 (Cell) Conducted Powers Ant 3 - 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	21.21	21.24	21.16	0	0
	1	7	21.21	21.29	21.25		0
	1	14	21.11	21.27	21.21		0
	8	0	21.21	21.27	21.16	0-1	0
	8	4	21.18	21.26	21.19		0
	8	7	21.18	21.31	21.20		0
	15	0	21.19	21.27	21.19		0
16QAM	1	0	21.27	21.25	21.20	0-1	0
	1	7	21.26	21.30	21.19		0
	1	14	21.32	21.32	21.20		0
	8	0	21.10	21.11	21.05	0-2	0
	8	4	21.11	21.10	21.05		0
	8	7	21.16	21.17	21.11		0
	15	0	21.08	21.07	21.03		0
64QAM	1	0	21.21	21.21	21.22	0-2	0
	1	7	21.29	21.29	21.25		0
	1	14	21.28	21.30	21.22		0
	8	0	21.12	21.14	21.07	0-3	0
	8	4	21.12	21.13	21.06		0
	8	7	21.18	21.17	21.13		0
	15	0	21.08	21.10	21.05		0

Table 8-44
LTE Band 5 (Cell) Conducted Powers 3 -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	21.22	21.27	21.26	0	0
	1	2	21.20	21.26	21.23		0
	1	5	21.20	21.30	21.26		0
	3	0	21.21	21.28	21.24		0
	3	2	21.20	21.28	21.22		0
	3	3	21.19	21.28	21.23		0
	6	0	21.19	21.27	21.21	0-1	0
16QAM	1	0	21.26	21.36	21.23	0-1	0
	1	2	21.20	21.24	21.17		0
	1	5	21.22	21.33	21.27		0
	3	0	21.08	21.18	21.07		0
	3	2	21.09	21.17	21.10		0
	3	3	21.11	21.23	21.11		0
	6	0	21.04	21.15	21.05	0-2	0
64QAM	1	0	21.24	21.34	21.25	0-2	0
	1	2	21.21	21.27	21.23		0
	1	5	21.26	21.34	21.28		0
	3	0	21.14	21.21	21.09		0
	3	2	21.06	21.18	21.11		0
	3	3	21.07	21.19	21.13		0
	6	0	21.02	21.16	21.05	0-3	0

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LTE Band 26 (Cell)

Table 8-45
LTE Band 26 (Cell) Conducted Powers Ant 1 - 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 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.24	20.11	20.30	0	0
	1	25	20.16	20.09	20.07		0
	1	49	20.00	20.21	20.14		0
	25	0	20.22	20.03	20.12	0-1	0
	25	12	20.13	20.07	20.00		0
	25	25	20.10	20.06	20.01		0
	50	0	20.16	20.11	20.02		0
16QAM	1	0	20.10	20.13	20.17	0-1	0
	1	25	20.14	20.02	20.00		0
	1	49	20.11	20.04	20.01		0
	25	0	19.82	19.89	19.95	0-2	0
	25	12	19.89	19.85	19.80		0
	25	25	19.95	19.84	19.83		0
	50	0	19.95	19.87	19.81		0
64QAM	1	0	20.17	20.15	20.24	0-2	0
	1	25	20.16	20.06	20.05		0
	1	49	20.14	20.18	20.10		0
	25	0	19.79	19.74	19.88	0-3	0
	25	12	19.83	19.79	19.72		0
	25	25	19.91	19.77	19.71		0
	50	0	19.92	19.82	19.76		0

Table 8-46
LTE Band 26 (Cell) Conducted Powers Ant 1 - 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	20.14	20.01	20.00	0	0
	1	12	20.02	20.03	20.01		0
	1	24	20.08	20.04	20.00		0
	12	0	20.06	19.99	20.02	0-1	0
	12	6	19.97	20.03	19.97		0
	12	13	20.04	20.02	20.00		0
	25	0	19.99	20.04	19.98		0
16QAM	1	0	20.11	20.02	20.05	0-1	0
	1	12	20.04	20.03	20.01		0
	1	24	20.08	20.05	20.08		0
	12	0	19.89	19.81	19.85	0-2	0
	12	6	19.80	19.87	19.78		0
	12	13	19.86	19.84	19.79		0
	25	0	19.81	19.86	19.80		0
64QAM	1	0	20.19	20.01	20.05	0-2	0
	1	12	20.03	20.07	20.04		0
	1	24	20.16	20.05	20.09		0
	12	0	19.82	19.77	19.77	0-3	0
	12	6	19.83	19.77	19.72		0
	12	13	19.81	19.75	19.78		0
	25	0	19.75	19.78	19.71		0

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Table 8-47
LTE Band 26 (Cell) Conducted Powers Ant 1 - 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	20.09	19.98	20.00	0	0
	1	7	20.10	20.06	20.06		0
	1	14	19.97	19.97	20.04		0
	8	0	20.09	19.98	19.99	0-1	0
	8	4	20.06	20.03	20.03		0
	8	7	20.00	20.02	20.04		0
16QAM	15	0	20.06	20.01	20.02		0
	1	0	20.09	19.96	20.04	0-1	0
	1	7	20.16	20.06	20.03		0
	1	14	19.92	19.96	19.97		0
	8	0	19.91	19.86	19.82	0-2	0
	8	4	19.90	19.88	19.84		0
8	7	19.83	19.87	19.84	0		
64QAM	15	0	19.87	19.87	19.81		0
	1	0	20.08	19.91	20.01	0-2	0
	1	7	20.13	20.01	20.04		0
	1	14	19.95	19.96	20.03		0
	8	0	19.86	19.82	19.75	0-3	0
	8	4	19.83	19.81	19.82		0
8	7	19.79	19.81	19.78	0		
	15	0	19.82	19.82	19.77		0

Table 8-48
LTE Band 26 (Cell) Conducted Powers Ant 1 -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	20.13	20.07	20.10	0	0
	1	2	20.12	20.03	20.09		0
	1	5	20.11	20.05	20.11		0
	3	0	20.11	20.05	20.07		0
	3	2	20.09	20.04	20.08		0
	3	3	20.10	20.05	20.09		0
	6	0	20.09	20.04	20.04	0	
16QAM	1	0	20.14	20.04	20.07	0-1	0
	1	2	20.12	19.98	20.01		0
	1	5	20.10	20.09	20.10		0
	3	0	19.96	19.98	19.93		0
	3	2	19.94	19.95	19.90		0
	3	3	19.95	19.96	19.92		0
	6	0	19.94	19.91	19.87	0	
64QAM	1	0	20.17	20.03	20.12	0-2	0
	1	2	20.05	20.02	20.09		0
	1	5	20.10	20.11	20.11		0
	3	0	19.96	19.97	19.97		0
	3	2	19.94	19.93	19.93		0
	3	3	19.98	19.91	19.95		0
	6	0	19.84	19.82	19.82	0-3	0

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Table 8-49
LTE Band 26 (Cell) Conducted Powers Ant 3 - 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 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	21.40	21.25	21.38	0	0
	1	25	21.38	21.29	21.28		0
	1	49	21.33	21.36	21.35		0
	25	0	21.33	21.24	21.31	0-1	0
	25	12	21.34	21.31	21.22		0
	25	25	21.37	21.32	21.21		0
	50	0	21.36	21.34	21.26		0
16QAM	1	0	21.40	21.26	21.40	0-1	0
	1	25	21.35	21.26	21.28		0
	1	49	21.24	21.31	21.31		0
	25	0	21.11	21.05	21.16	0-2	0
	25	12	21.10	21.11	21.03		0
	25	25	21.10	21.10	21.00		0
	50	0	21.20	21.14	21.06		0
64QAM	1	0	21.39	21.22	21.40	0-2	0
	1	25	21.38	21.29	21.24		0
	1	49	21.26	21.27	21.29		0
	25	0	21.10	21.06	21.17	0-3	0
	25	12	21.10	21.11	21.04		0
	25	25	21.11	21.10	21.02		0
	50	0	21.20	21.14	21.07		0

Table 8-50
LTE Band 26 (Cell) Conducted Powers Ant 3 - 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	21.38	21.17	21.19	0	0
	1	12	21.18	21.23	21.17		0
	1	24	21.23	21.24	21.24		0
	12	0	21.26	21.18	21.16	0-1	0
	12	6	21.18	21.21	21.12		0
	12	13	21.18	21.22	21.16		0
	25	0	21.19	21.24	21.14		0
16QAM	1	0	21.37	21.26	21.19	0-1	0
	1	12	21.32	21.25	21.21		0
	1	24	21.26	21.26	21.36		0
	12	0	21.19	21.11	21.07	0-2	0
	12	6	21.10	21.13	21.02		0
	12	13	21.11	21.10	21.07		0
	25	0	21.10	21.13	21.04		0
64QAM	1	0	21.40	21.16	21.30	0-2	0
	1	12	21.24	21.24	21.22		0
	1	24	21.32	21.29	21.28		0
	12	0	21.18	21.11	21.05	0-3	0
	12	6	21.08	21.10	21.03		0
	12	13	21.11	21.11	21.09		0
	25	0	21.11	21.14	21.05		0

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Table 8-51
LTE Band 26 (Cell) Conducted Powers Ant 3 - 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	21.31	21.16	21.14	0	0
	1	7	21.36	21.26	21.23		0
	1	14	21.17	21.19	21.19		0
	8	0	21.29	21.19	21.15	0-1	0
	8	4	21.27	21.25	21.17		0
	8	7	21.21	21.25	21.18		0
15	0	21.28	21.24	21.17	0		
16QAM	1	0	21.38	21.21	21.38	0-1	0
	1	7	21.40	21.31	21.34		0
	1	14	21.28	21.26	21.22		0
	8	0	21.24	21.13	21.20	0-2	0
	8	4	21.21	21.16	21.22		0
	8	7	21.15	21.15	21.14		0
15	0	21.17	21.11	21.17	0		
64QAM	1	0	21.40	21.26	21.37	0-2	0
	1	7	21.39	21.29	21.40		0
	1	14	21.25	21.19	21.27		0
	8	0	21.20	21.13	21.21	0-3	0
	8	4	21.19	21.13	21.21		0
	8	7	21.11	21.14	21.11		0
15	0	21.16	21.14	21.16	0		

Table 8-52
LTE Band 26 (Cell) Conducted Powers Ant 3 -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	21.36	21.27	21.22	0	0
	1	2	21.32	21.25	21.21		0
	1	5	21.33	21.25	21.25		0
	3	0	21.33	21.26	21.20		0
	3	2	21.32	21.24	21.20		0
	3	3	21.31	21.24	21.21		0
	6	0	21.30	21.25	21.20	0-1	0
16QAM	1	0	21.38	21.31	21.33		0
	1	2	21.40	21.29	21.27		0
	1	5	21.35	21.32	21.40		0
	3	0	21.27	21.23	21.19		0
	3	2	21.27	21.20	21.15		0
	3	3	21.26	21.19	21.20		0
	6	0	21.22	21.15	21.13	0	
64QAM	1	0	21.39	21.24	21.26	0-2	0
	1	2	21.40	21.30	21.34		0
	1	5	21.33	21.35	21.36		0
	3	0	21.30	21.22	21.17		0
	3	2	21.27	21.25	21.20		0
	3	3	21.24	21.20	21.18		0
	6	0	21.20	21.14	21.15	0-3	0

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LTE Band 66 (AWS)

Table 8-53
LTE Band 66 (AWS) Conducted Powers Ant 2a - 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	14.59	14.69	14.48	0	0
	1	50	14.57	14.61	14.42		0
	1	99	14.54	14.62	14.47		0
	50	0	14.58	14.62	14.39	0-1	0
	50	25	14.59	14.49	14.37		0
	50	50	14.55	14.52	14.40		0
	100	0	14.59	14.49	14.41		0
16QAM	1	0	14.68	14.66	14.57	0-1	0
	1	50	14.64	14.51	14.54		0
	1	99	14.63	14.50	14.61		0
	50	0	14.43	14.31	14.26	0-2	0
	50	25	14.40	14.22	14.23		0
	50	50	14.38	14.25	14.26		0
	100	0	14.46	14.27	14.30		0
64QAM	1	0	14.68	14.68	14.59	0-2	0
	1	50	14.69	14.56	14.54		0
	1	99	14.68	14.54	14.57		0
	50	0	14.43	14.30	14.26	0-3	0
	50	25	14.41	14.23	14.24		0
	50	50	14.38	14.27	14.26		0
	100	0	14.46	14.27	14.31		0

Table 8-54
LTE Band 66 (AWS) Conducted Powers Ant 2a - 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	14.42	14.48	14.31	0	0
	1	36	14.46	14.38	14.34		0
	1	74	14.42	14.36	14.32		0
	36	0	14.38	14.38	14.20	0-1	0
	36	18	14.41	14.30	14.25		0
	36	37	14.42	14.33	14.25		0
	75	0	14.42	14.31	14.27		0
16QAM	1	0	14.68	14.70	14.50	0-1	0
	1	36	14.70	14.66	14.54		0
	1	74	14.68	14.54	14.52		0
	36	0	14.39	14.39	14.21	0-2	0
	36	18	14.41	14.32	14.25		0
	36	37	14.40	14.35	14.23		0
	75	0	14.41	14.32	14.27		0
64QAM	1	0	14.64	14.70	14.53	0-2	0
	1	36	14.70	14.63	14.65		0
	1	74	14.65	14.61	14.61		0
	36	0	14.38	14.40	14.22	0-3	0
	36	18	14.42	14.32	14.27		0
	36	37	14.40	14.37	14.25		0
	75	0	14.42	14.33	14.27		0

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Table 8-55
LTE Band 66 (AWS) Conducted Powers Ant 2a - 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	14.31	14.50	14.57	0	0
	1	25	14.35	14.43	14.53		0
	1	49	14.38	14.44	14.53		0
	25	0	14.29	14.33	14.49	0-1	0
	25	12	14.31	14.33	14.49		0
	25	25	14.33	14.32	14.46		0
	50	0	14.32	14.34	14.48		0
16QAM	1	0	14.54	14.70	14.69	0-1	0
	1	25	14.58	14.67	14.68		0
	1	49	14.66	14.68	14.69		0
	25	0	14.30	14.36	14.49	0-2	0
	25	12	14.29	14.37	14.48		0
	25	25	14.34	14.35	14.48		0
	50	0	14.34	14.33	14.53		0
64QAM	1	0	14.61	14.65	14.69	0-2	0
	1	25	14.48	14.63	14.70		0
	1	49	14.70	14.69	14.68		0
	25	0	14.29	14.35	14.50	0-3	0
	25	12	14.32	14.33	14.49		0
	25	25	14.34	14.33	14.56		0
	50	0	14.31	14.34	14.49		0

Table 8-56
LTE Band 66 (AWS) Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 66 (AWS) Conducted Power Allowed 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	14.38	14.65	14.35	0	0
	1	12	14.41	14.62	14.37		0
	1	24	14.46	14.61	14.36		0
	12	0	14.34	14.55	14.29	0-1	0
	12	6	14.35	14.55	14.30		0
	12	13	14.39	14.56	14.28		0
	25	0	14.36	14.56	14.29		0
16QAM	1	0	14.65	14.70	14.62	0-1	0
	1	12	14.65	14.68	14.62		0
	1	24	14.63	14.64	14.55		0
	12	0	14.42	14.42	14.30	0-2	0
	12	6	14.44	14.40	14.31		0
	12	13	14.40	14.45	14.32		0
	25	0	14.39	14.40	14.30		0
64QAM	1	0	14.65	14.66	14.61	0-2	0
	1	12	14.63	14.65	14.60		0
	1	24	14.69	14.69	14.58		0
	12	0	14.38	14.42	14.34	0-3	0
	12	6	14.37	14.39	14.32		0
	12	13	14.41	14.39	14.38		0
	25	0	14.35	14.40	14.29		0

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Table 8-57
LTE Band 66 (AWS) Conducted Powers Ant 2a - 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	14.31	14.38	14.31	0	0
	1	7	14.40	14.31	14.35		0
	1	14	14.36	14.32	14.26		0
	8	0	14.38	14.27	14.31	0-1	0
	8	4	14.37	14.27	14.29		0
	8	7	14.37	14.26	14.30		0
	15	0	14.37	14.24	14.27		0
16QAM	1	0	14.66	14.55	14.56	0-1	0
	1	7	14.54	14.52	14.65		0
	1	14	14.55	14.56	14.55		0
	8	0	14.39	14.34	14.39	0-2	0
	8	4	14.45	14.35	14.37		0
	8	7	14.39	14.33	14.36		0
	15	0	14.38	14.28	14.31		0
64QAM	1	0	14.48	14.55	14.57	0-2	0
	1	7	14.55	14.51	14.59		0
	1	14	14.61	14.59	14.61		0
	8	0	14.40	14.34	14.40	0-3	0
	8	4	14.42	14.32	14.34		0
	8	7	14.45	14.36	14.64		0
	15	0	14.39	14.26	14.30		0

Table 8-58
LTE Band 66 (AWS) Conducted Powers Ant 2a -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	14.41	14.46	14.37	0	0
	1	2	14.41	14.43	14.33		0
	1	5	14.42	14.45	14.33		0
	3	0	14.40	14.42	14.33		0
	3	2	14.40	14.42	14.30		0
	3	3	14.40	14.42	14.32		0
	6	0	14.40	14.40	14.31	0-1	0
16QAM	1	0	14.62	14.70	14.65		0
	1	2	14.66	14.65	14.55		0
	1	5	14.68	14.68	14.67		0
	3	0	14.55	14.54	14.43		0
	3	2	14.49	14.53	14.42		0
	3	3	14.52	14.54	14.45		0
	6	0	14.44	14.49	14.36	0	
64QAM	1	0	14.65	14.66	14.61	0-2	0
	1	2	14.57	14.65	14.60		0
	1	5	14.57	14.64	14.56		0
	3	0	14.52	14.50	14.39		0
	3	2	14.49	14.56	14.39		0
	3	3	14.51	14.55	14.46		0
	6	0	14.41	14.46	14.35	0-3	0

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Table 8-59
LTE Band 66 (AWS) Conducted Powers Ant 2b - 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	14.22	14.28	14.28	0	0
	1	50	14.17	14.29	14.27		0
	1	99	14.14	14.27	14.30		0
	50	0	14.18	14.17	14.22	0-1	0
	50	25	14.21	14.16	14.28		0
	50	50	14.15	14.18	14.17		0
	100	0	14.24	14.21	14.25		0
16QAM	1	0	14.19	14.20	14.16	0-1	0
	1	50	14.15	14.17	14.15		0
	1	99	14.13	14.16	14.22		0
	50	0	13.81	13.84	13.86	0-2	0
	50	25	13.84	13.81	13.87		0
	50	50	13.80	13.80	13.81		0
	100	0	13.88	13.87	13.94		0
64QAM	1	0	14.22	14.21	14.17	0-2	0
	1	50	14.20	14.16	14.19		0
	1	99	14.19	14.13	14.21		0
	50	0	13.80	13.84	13.86	0-3	0
	50	25	13.82	13.85	13.88		0
	50	50	13.81	13.80	13.83		0
	100	0	13.88	13.88	13.93		0

Table 8-60
LTE Band 66 (AWS) Conducted Powers Ant 2b - 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	14.23	14.23	14.24	0	0
	1	36	14.23	14.22	14.23		0
	1	74	14.21	14.18	14.25		0
	36	0	14.13	14.15	14.21	0-1	0
	36	18	14.15	14.16	14.16		0
	36	37	14.18	14.12	14.13		0
	75	0	14.16	14.17	14.18		0
16QAM	1	0	14.12	14.13	14.14	0-1	0
	1	36	14.09	14.10	14.15		0
	1	74	14.08	14.11	14.12		0
	36	0	13.77	13.84	13.86	0-2	0
	36	18	13.80	13.84	13.80		0
	36	37	13.82	13.80	13.79		0
	75	0	13.80	13.85	13.82		0
64QAM	1	0	14.14	14.16	14.11	0-2	0
	1	36	14.13	14.11	14.12		0
	1	74	14.12	14.10	14.16		0
	36	0	13.77	13.83	13.86	0-3	0
	36	18	13.80	13.84	13.80		0
	36	37	13.82	13.80	13.78		0
	75	0	13.81	13.83	13.83		0

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Table 8-61
LTE Band 66 (AWS) Conducted Powers Ant 2b - 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	14.25	14.20	14.30	0	0	
	1	25	14.23	14.20	14.18		0	
	1	49	14.28	14.18	14.23		0	
	25	0	14.16	14.14	14.14	0-1	0	
	25	12	14.17	14.15	14.12		0	
	25	25	14.18	14.14	14.11		0	
16QAM	50	0	14.17	14.15	14.14	0-1	0	
	1	0	14.14	14.13	14.23		0	
	1	25	14.10	14.11	14.17		0	
	1	49	14.12	14.14	14.16	0-2	0	
	25	0	13.80	13.81	13.83		0	
	25	12	13.82	13.82	13.81		0	
64QAM	25	25	13.83	13.82	13.82	0-2	0	
	50	0	13.81	13.81	13.81		0	
	64QAM	1	0	14.17	14.17	14.21	0-2	0
		1	25	14.11	14.10	14.19		0
		1	49	14.18	14.09	14.15		0
		25	0	13.82	13.82	13.83	0-3	0
25		12	13.80	13.81	13.79	0		
25		25	13.83	13.81	13.78	0		
	50	0	13.79	13.80	13.81		0	

Table 8-62
LTE Band 66 (AWS) Conducted Powers Ant 2b - 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	14.20	14.26	14.22	0	0
	1	12	14.17	14.23	14.19		0
	1	24	14.24	14.25	14.25		0
	12	0	14.13	14.19	14.13	0-1	0
	12	6	14.11	14.19	14.12		0
	12	13	14.18	14.20	14.18		0
16QAM	25	0	14.13	14.19	14.12	0-1	0
	1	0	14.12	14.13	14.17		0
	1	12	14.10	14.15	14.16		0
	1	24	14.16	14.12	14.14	0-2	0
	12	0	13.85	13.85	13.82		0
	12	6	13.80	13.87	13.80		0
64QAM	12	13	13.83	13.84	13.84	0-2	0
	25	0	13.78	13.84	13.80		0
	1	0	14.13	14.15	14.15		0-2
	1	12	14.11	14.11	14.12	0	
	1	24	14.12	14.12	14.16	0	
	64QAM	12	0	13.85	13.88	13.82	0-3
12		6	13.82	13.86	13.80	0	
12		13	13.83	13.81	13.86	0	
25		0	13.78	13.86	13.78		0

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Table 8-63
LTE Band 66 (AWS) Conducted Powers Ant 2b - 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	14.20	14.22	14.18	0	0
	1	7	14.26	14.26	14.29		0
	1	14	14.16	14.23	14.22		0
	8	0	14.22	14.23	14.17	0-1	0
	8	4	14.22	14.21	14.22		0
	8	7	14.17	14.23	14.21		0
	15	0	14.21	14.22	14.20		0
16QAM	1	0	14.13	14.15	14.10	0-1	0
	1	7	14.19	14.20	14.19		0
	1	14	14.07	14.10	14.17		0
	8	0	13.90	13.92	13.84	0-2	0
	8	4	13.91	13.93	13.89		0
	8	7	13.86	13.95	13.91		0
	15	0	13.88	13.90	13.88		0
64QAM	1	0	14.10	14.18	14.11	0-2	0
	1	7	14.14	14.16	14.25		0
	1	14	14.13	14.15	14.17		0
	8	0	13.90	13.95	13.89	0-3	0
	8	4	13.91	13.96	13.93		0
	8	7	13.89	13.94	13.93		0
	15	0	13.90	13.90	13.89		0

Table 8-64
LTE Band 66 (AWS) Conducted Powers Ant 2b -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	14.23	14.28	14.27	0	0
	1	2	14.21	14.26	14.26		0
	1	5	14.24	14.28	14.26		0
	3	0	14.22	14.25	14.25		0
	3	2	14.22	14.23	14.22		0
	3	3	14.21	14.25	14.23		0
	6	0	14.20	14.24	14.22	0	
16QAM	1	0	14.11	14.17	14.16	0-1	0
	1	2	14.10	14.16	14.17		0
	1	5	14.11	14.14	14.15		0
	3	0	13.99	14.04	14.03		0
	3	2	14.01	14.02	14.01		0
	3	3	14.00	14.03	14.05		0
	6	0	13.93	13.95	13.93	0	
64QAM	1	0	14.14	14.17	14.20	0-2	0
	1	2	14.13	14.15	14.19		0
	1	5	14.13	14.19	14.18		0
	3	0	14.07	14.04	14.05		0
	3	2	14.03	14.01	14.03		0
	3	3	14.01	14.00	14.06		0
	6	0	13.92	13.96	13.96	0-3	0

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Table 8-65
LTE Band 66 (AWS) Conducted Powers Ant 4a - 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	14.81	14.98	14.99	0	0
	1	50	14.89	14.97	14.92		0
	1	99	14.90	15.00	14.96		0
	50	0	14.89	14.97	14.83	0-1	0
	50	25	14.92	14.93	14.83		0
	50	50	14.88	14.89	14.77		0
	100	0	14.91	14.95	14.91		0
16QAM	1	0	14.80	14.88	14.88	0-1	0
	1	50	14.89	14.85	14.69		0
	1	99	14.88	14.81	14.79		0
	50	0	14.56	14.61	14.50	0-2	0
	50	25	14.60	14.51	14.43		0
	50	50	14.59	14.49	14.40		0
	100	0	14.65	14.56	14.50		0
64QAM	1	0	14.81	14.91	14.85	0-2	0
	1	50	14.91	14.83	14.77		0
	1	99	14.93	14.86	14.85		0
	50	0	14.59	14.61	14.50	0-3	0
	50	25	14.59	14.53	14.45		0
	50	50	14.58	14.51	14.40		0
	100	0	14.64	14.55	14.49		0

Table 8-66
LTE Band 66 (AWS) Conducted Powers Ant 4a - 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	14.81	14.78	14.79	0	0
	1	36	14.95	14.82	14.67		0
	1	74	14.93	14.79	14.68		0
	36	0	14.82	14.70	14.66	0-1	0
	36	18	14.86	14.76	14.62		0
	36	37	14.85	14.71	14.60		0
	75	0	14.88	14.77	14.63		0
16QAM	1	0	14.70	14.86	14.74	0-1	0
	1	36	14.88	14.80	14.67		0
	1	74	14.93	14.76	14.72		0
	36	0	14.54	14.50	14.40	0-2	0
	36	18	14.61	14.49	14.37		0
	36	37	14.56	14.44	14.64		0
	75	0	14.60	14.49	14.38		0
64QAM	1	0	14.78	14.83	14.78	0-2	0
	1	36	14.94	14.79	14.66		0
	1	74	14.96	14.80	14.72		0
	36	0	14.55	14.55	14.41	0-3	0
	36	18	14.63	14.50	14.38		0
	36	37	14.61	14.46	14.37		0
	75	0	14.62	14.50	14.37		0

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Table 8-67
LTE Band 66 (AWS) Conducted Powers Ant 4a - 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	14.83	14.87	14.80	0	0
	1	25	14.90	14.80	14.75		0
	1	49	14.95	14.76	14.70		0
	25	0	14.80	14.74	14.64	0-1	0
	25	12	14.83	14.73	14.61		0
	25	25	14.85	14.71	14.61		0
16QAM	50	0	14.83	14.72	14.63	0-1	0
	1	0	14.72	14.81	14.72		0
	1	25	14.84	14.77	14.63		0
	1	49	14.95	14.75	14.66	0-2	0
	25	0	14.53	14.50	14.37		0
	25	12	14.58	14.49	14.33		0
64QAM	25	25	14.62	14.48	14.34	0-2	0
	50	0	14.59	14.49	14.34		0
	1	0	14.80	14.93	14.75	0-2	0
	1	25	14.92	14.81	14.62		0
	1	49	14.95	14.78	14.69		0
	25	0	14.58	14.52	14.39	0-3	0
	25	12	14.51	14.51	14.35		0
	25	25	14.64	14.48	14.33		0
	50	0	14.59	14.47	14.35		0

Table 8-68
LTE Band 66 (AWS) Conducted Powers Ant 4a - 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	14.79	14.86	14.67	0	0
	1	12	14.82	14.85	14.68		0
	1	24	14.89	14.84	14.69		0
	12	0	14.75	14.80	14.64	0-1	0
	12	6	14.77	14.79	14.62		0
	12	13	14.82	14.78	14.61		0
16QAM	25	0	14.80	14.80	14.61	0-1	0
	1	0	14.74	14.80	14.69		0
	1	12	14.80	14.79	14.71		0
	1	24	14.90	14.77	14.72	0-2	0
	12	0	14.54	14.54	14.39		0
	12	6	14.56	14.53	14.41		0
	12	13	14.60	14.52	14.38		0
64QAM	25	0	14.55	14.54	14.36	0-2	0
	1	0	14.78	14.81	14.64		0
	1	12	14.85	14.82	14.67		0
	1	24	14.93	14.79	14.68	0-3	0
	12	0	14.57	14.56	14.39		0
	12	6	14.56	14.58	14.41		0
	12	13	14.64	14.57	14.39		0
	25	0	14.57	14.55	14.37		0

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Table 8-69
LTE Band 66 (AWS) Conducted Powers Ant 4a - 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	14.71	14.78	14.66	0	0
	1	7	14.80	14.83	14.70		0
	1	14	14.77	14.79	14.64		0
	8	0	14.77	14.81	14.65	0-1	0
	8	4	14.78	14.80	14.64		0
	8	7	14.79	14.81	14.64		0
	15	0	14.79	14.80	14.63		0
16QAM	1	0	14.76	14.79	14.61	0-1	0
	1	7	14.77	14.87	14.70		0
	1	14	14.71	14.73	14.67		0
	8	0	14.53	14.63	14.44	0-2	0
	8	4	14.52	14.59	14.40		0
	8	7	14.55	14.58	14.42		0
	15	0	14.54	14.56	14.40		0
64QAM	1	0	14.69	14.80	14.65	0-2	0
	1	7	14.78	14.86	14.72		0
	1	14	14.71	14.79	14.68		0
	8	0	14.60	14.62	14.44	0-3	0
	8	4	14.55	14.61	14.46		0
	8	7	14.56	14.61	14.44		0
	15	0	14.54	14.59	14.40		0

Table 8-70
LTE Band 66 (AWS) Conducted Powers Ant 4a -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	14.78	14.86	14.71	0	0
	1	2	14.76	14.84	14.69		0
	1	5	14.79	14.85	14.70		0
	3	0	14.77	14.83	14.67		0
	3	2	14.75	14.81	14.65		0
	3	3	14.76	14.82	14.66		0
	6	0	14.76	14.80	14.62	0-1	0
16QAM	1	0	14.77	14.83	14.73		0
	1	2	14.71	14.86	14.77		0
	1	5	14.72	14.88	14.72		0
	3	0	14.62	14.68	14.55		0
	3	2	14.61	14.68	14.58		0
	3	3	14.63	14.71	14.55		0
	6	0	14.58	14.64	14.49	0-2	0
64QAM	1	0	14.73	14.84	14.79		0
	1	2	14.79	14.85	14.74		0
	1	5	14.75	14.87	14.71		0
	3	0	14.66	14.71	14.60		0
	3	2	14.65	14.74	14.61		0
	3	3	14.67	14.77	14.59		0
	6	0	14.56	14.65	14.53	0-3	0

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Table 8-71
LTE Band 66 (AWS) Conducted Powers Ant 4b - 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	14.41	14.46	14.31	0	0
	1	50	14.34	14.41	14.34		0
	1	99	14.36	14.36	14.24		0
	50	0	14.29	14.41	14.32	0-1	0
	50	25	14.33	14.34	14.37		0
	50	50	14.32	14.29	14.22		0
	100	0	14.39	14.38	14.39		0
16QAM	1	0	14.46	14.43	14.35	0-1	0
	1	50	14.34	14.33	14.38		0
	1	99	14.44	14.27	14.33		0
	50	0	14.13	14.20	14.12	0-2	0
	50	25	14.15	14.12	14.17		0
	50	50	14.14	14.07	14.05		0
	100	0	14.21	14.17	14.21		0
64QAM	1	0	14.44	14.44	14.32	0-2	0
	1	50	14.46	14.33	14.43		0
	1	99	14.43	14.25	14.39		0
	50	0	14.12	14.21	14.11	0-3	0
	50	25	14.14	14.13	14.14		0
	50	50	14.13	14.08	14.06		0
	100	0	14.20	14.16	14.19		0

Table 8-72
LTE Band 66 (AWS) Conducted Powers Ant 4b - 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	14.44	14.43	14.28	0	0
	1	36	14.33	14.33	14.32		0
	1	74	14.36	14.27	14.28		0
	36	0	14.36	14.38	14.36	0-1	0
	36	18	14.33	14.34	14.27		0
	36	37	14.36	14.27	14.22		0
	75	0	14.35	14.35	14.27		0
16QAM	1	0	14.46	14.42	14.31	0-1	0
	1	36	14.27	14.30	14.36		0
	1	74	14.31	14.32	14.44		0
	36	0	14.13	14.17	14.09	0-2	0
	36	18	14.09	14.13	14.13		0
	36	37	14.14	14.10	14.12		0
	75	0	14.11	14.16	14.17		0
64QAM	1	0	14.46	14.37	14.41	0-2	0
	1	36	14.31	14.35	14.37		0
	1	74	14.33	14.25	14.44		0
	36	0	14.13	14.17	14.10	0-3	0
	36	18	14.10	14.15	14.14		0
	36	37	14.13	14.08	14.13		0
	75	0	14.11	14.14	14.16		0

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Table 8-73
LTE Band 66 (AWS) Conducted Powers Ant 4b - 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	14.43	14.41	14.41	0	0
	1	25	14.37	14.31	14.25		0
	1	49	14.38	14.32	14.30		0
	25	0	14.31	14.39	14.26	0-1	0
	25	12	14.32	14.32	14.20		0
	25	25	14.28	14.29	14.19		0
16QAM	50	0	14.32	14.34	14.22	0-1	0
	1	0	14.37	14.37	14.47		0
	1	25	14.33	14.22	14.25		0
	1	49	14.41	14.28	14.36	0-2	0
	25	0	14.12	14.14	14.07		0
	25	12	14.10	14.13	14.03		0
64QAM	25	25	14.04	14.05	14.02	0-2	0
	50	0	14.09	14.10	14.04		0
	1	0	14.47	14.40	14.44		0-2
	1	25	14.43	14.34	14.29	0	
	1	49	14.38	14.28	14.35	0-3	
	25	0	14.11	14.15	14.06		0
25	12	14.08	14.10	14.01	0		
	25	25	14.07	14.05	14.03	0-3	0
	50	0	14.09	14.11	14.04		0

Table 8-74
LTE Band 66 (AWS) Conducted Powers Ant 4b - 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	14.44	14.45	14.39	0	0
	1	12	14.36	14.37	14.24		0
	1	24	14.39	14.35	14.32		0
	12	0	14.37	14.38	14.22	0-1	0
	12	6	14.31	14.34	14.20		0
	12	13	14.32	14.31	14.28		0
16QAM	25	0	14.33	14.36	14.23	0-1	0
	1	0	14.46	14.41	14.29		0
	1	12	14.31	14.35	14.25	0-1	0
	1	24	14.39	14.36	14.31		0
	12	0	14.21	14.21	14.05		0-2
	12	6	14.13	14.18	14.03	0	
12	13	14.15	14.12	14.10	0		
64QAM	25	0	14.15	14.15	14.05	0-2	0
	1	0	14.44	14.43	14.36		0
	1	12	14.31	14.33	14.20	0-2	0
	1	24	14.40	14.42	14.35		0
	12	0	14.19	14.21	14.05		0-3
	12	6	14.16	14.18	14.03	0	
12	13	14.15	14.15	14.09	0		
64QAM	25	0	14.14	14.14	14.04	0-3	0
	1	0	14.44	14.43	14.36		0
	1	12	14.31	14.33	14.20	0-2	0
	1	24	14.40	14.42	14.35		0
	12	0	14.19	14.21	14.05		0
	12	6	14.16	14.18	14.03	0-3	0
12	13	14.15	14.15	14.09	0		
25	0	14.14	14.14	14.04	0		

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Table 8-75
LTE Band 66 (AWS) Conducted Powers Ant 4b - 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	14.34	14.39	14.20	0	0
	1	7	14.42	14.35	14.31		0
	1	14	14.30	14.28	14.27		0
	8	0	14.40	14.40	14.22	0-1	0
	8	4	14.39	14.35	14.28		0
	8	7	14.35	14.34	14.29		0
	15	0	14.40	14.36	14.27		0
16QAM	1	0	14.33	14.42	14.20	0-1	0
	1	7	14.36	14.35	14.29		0
	1	14	14.37	14.30	14.25		0
	8	0	14.22	14.22	14.05	0-2	0
	8	4	14.21	14.17	14.11		0
	8	7	14.17	14.17	14.10		0
	15	0	14.20	14.19	14.08		0
64QAM	1	0	14.34	14.42	14.17	0-2	0
	1	7	14.46	14.41	14.27		0
	1	14	14.31	14.27	14.31		0
	8	0	14.22	14.26	14.04	0-3	0
	8	4	14.22	14.20	14.11		0
	8	7	14.15	14.17	14.10		0
	15	0	14.20	14.17	14.08		0

Table 8-76
LTE Band 66 (AWS) Conducted Powers Ant 4b -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	14.38	14.44	14.33	0	0
	1	2	14.37	14.35	14.30		0
	1	5	14.38	14.37	14.33		0
	3	0	14.36	14.39	14.30		0
	3	2	14.37	14.35	14.31		0
	3	3	14.36	14.36	14.32		0
	6	0	14.36	14.36	14.30	0-1	0
16QAM	1	0	14.37	14.40	14.33		0
	1	2	14.33	14.36	14.25		0
	1	5	14.44	14.42	14.27		0
	3	0	14.29	14.34	14.22		0
	3	2	14.28	14.27	14.18		0
	3	3	14.29	14.28	14.20		0
	6	0	14.22	14.23	14.15	0	
64QAM	1	0	14.41	14.47	14.35	0-2	0
	1	2	14.40	14.43	14.31		0
	1	5	14.43	14.41	14.32		0
	3	0	14.31	14.35	14.26		0
	3	2	14.29	14.30	14.24		0
	3	3	14.30	14.29	14.21		0
	6	0	14.25	14.23	14.15	0-3	0

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LTE Band 25 (PCS)

Table 8-77
LTE Band 25 (PCS) Conducted Powers Ant 2a - 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	13.89	14.00	13.87	0	0
	1	50	13.73	13.84	13.69		0
	1	99	13.76	13.93	13.78		0
	50	0	13.86	13.91	13.76	0-1	0
	50	25	13.83	13.76	13.74		0
	50	50	13.88	13.77	13.73		0
	100	0	13.87	13.83	13.86		0
16QAM	1	0	13.90	13.91	13.89	0-1	0
	1	50	13.87	13.88	13.75		0
	1	99	13.86	13.83	13.73		0
	50	0	13.54	13.55	13.54	0-2	0
	50	25	13.53	13.53	13.47		0
	50	50	13.55	13.54	13.49		0
	100	0	13.60	13.60	13.59		0
64QAM	1	0	13.94	13.90	13.84	0-2	0
	1	50	13.85	13.82	13.75		0
	1	99	13.89	13.83	13.77		0
	50	0	13.60	13.54	13.48	0-3	0
	50	25	13.57	13.53	13.43		0
	50	50	13.62	13.52	13.47		0
	100	0	13.65	13.61	13.57		0

Table 8-78
LTE Band 25 (PCS) Conducted Powers Ant 2a - 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	13.98	13.84	13.99	0	0
	1	36	13.97	13.81	13.88		0
	1	74	13.91	13.82	13.91		0
	36	0	13.88	13.77	13.89	0-1	0
	36	18	13.86	13.78	13.86		0
	36	37	13.83	13.76	13.83		0
	75	0	13.87	13.81	13.87		0
16QAM	1	0	13.96	13.89	13.80	0-1	0
	1	36	13.80	13.77	13.74		0
	1	74	13.89	13.79	13.70		0
	36	0	13.62	13.54	13.53	0-2	0
	36	18	13.57	13.52	13.42		0
	36	37	13.60	13.51	13.44		0
	75	0	13.59	13.57	13.48		0
64QAM	1	0	13.92	13.82	13.79	0-2	0
	1	36	13.87	13.77	13.72		0
	1	74	13.85	13.79	13.75		0
	36	0	13.61	13.51	13.50	0-3	0
	36	18	13.57	13.55	13.42		0
	36	37	13.56	13.53	13.46		0
	75	0	13.58	13.54	13.49		0

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Table 8-79
LTE Band 25 (PCS) Conducted Powers Ant 2a - 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	13.97	13.81	13.74	0	0
	1	25	13.90	13.79	13.77		0
	1	49	13.86	13.77	13.80		0
	25	0	13.87	13.78	13.67	0-1	0
	25	12	13.84	13.74	13.70		0
	25	25	13.81	13.75	13.74		0
	50	0	13.86	13.77	13.76		0
16QAM	1	0	13.93	13.74	13.68	0-1	0
	1	25	13.89	13.67	13.75		0
	1	49	13.86	13.80	13.77		0
	25	0	13.62	13.58	13.47	0-2	0
	25	12	13.59	13.50	13.46		0
	25	25	13.58	13.51	13.48		0
	50	0	13.61	13.52	13.48		0
64QAM	1	0	13.91	13.74	13.68	0-2	0
	1	25	13.88	13.76	13.75		0
	1	49	13.85	13.73	13.70		0
	25	0	13.61	13.54	13.41	0-3	0
	25	12	13.58	13.49	13.43		0
	25	25	13.60	13.47	13.46		0
	50	0	13.49	13.50	13.47		0

Table 8-80
LTE Band 25 (PCS) Conducted Powers Ant 2a - 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	13.92	13.83	13.80	0	0
	1	12	13.88	13.77	13.81		0
	1	24	13.87	13.75	13.76		0
	12	0	13.91	13.74	13.77	0-1	0
	12	6	13.87	13.71	13.78		0
	12	13	13.86	13.72	13.72		0
	25	0	13.85	13.73	13.76		0
16QAM	1	0	13.91	13.82	13.77	0-1	0
	1	12	13.85	13.74	13.81		0
	1	24	13.81	13.71	13.76		0
	12	0	13.67	13.56	13.59	0-2	0
	12	6	13.60	13.52	13.53		0
	12	13	13.61	13.51	13.50		0
	25	0	13.57	13.53	13.54		0
64QAM	1	0	13.92	13.81	13.77	0-2	0
	1	12	13.89	13.77	13.83		0
	1	24	13.83	13.69	13.76		0
	12	0	13.68	13.56	13.60	0-3	0
	12	6	13.66	13.50	13.55		0
	12	13	13.62	13.55	13.51		0
	25	0	13.61	13.49	13.50		0

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Table 8-81
LTE Band 25 (PCS) Conducted Powers Ant 2a - 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	13.85	13.86	13.80	0	0
	1	7	13.95	13.77	13.75		0
	1	14	13.87	13.82	13.77		0
	8	0	13.89	13.76	13.76	0-1	0
	8	4	13.90	13.73	13.70		0
	8	7	13.85	13.74	13.68		0
	15	0	13.88	13.75	13.72		0
16QAM	1	0	13.82	13.77	13.79	0-1	0
	1	7	13.89	13.72	13.75		0
	1	14	13.80	13.69	13.61		0
	8	0	13.72	13.50	13.53	0-2	0
	8	4	13.67	13.49	13.47		0
	8	7	13.64	13.48	13.43		0
	15	0	13.65	13.47	13.42		0
64QAM	1	0	13.87	13.76	13.80	0-2	0
	1	7	13.92	13.71	13.75		0
	1	14	13.86	13.67	13.73		0
	8	0	13.77	13.55	13.55	0-3	0
	8	4	13.69	13.52	13.52		0
	8	7	13.74	13.50	13.47		0
	15	0	13.66	13.49	13.46		0

Table 8-82
LTE Band 25 (PCS) Conducted Powers Ant 2a -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	13.94	13.80	13.79	0	0
	1	2	13.91	13.76	13.71		0
	1	5	13.95	13.77	13.72		0
	3	0	13.90	13.78	13.70		0
	3	2	13.91	13.76	13.68		0
	3	3	13.93	13.74	13.70		0
	6	0	13.89	13.74	13.67	0-1	0
16QAM	1	0	13.92	13.77	13.71		0
	1	2	13.89	13.69	13.67		0
	1	5	13.88	13.67	13.69		0
	3	0	13.75	13.57	13.57		0
	3	2	13.77	13.55	13.52		0
	3	3	13.76	13.59	13.51		0
6	0	13.70	13.52	13.47	0-2		0
64QAM	1	0	13.88	13.77		13.73	0
	1	2	13.84	13.78		13.72	0
	1	5	13.91	13.81		13.74	0
	3	0	13.80	13.77		13.56	0
	3	2	13.74	13.68		13.54	0
	3	3	13.77	13.63		13.57	0
	6	0	13.65	13.52		13.46	0-3

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Table 8-83
LTE Band 25 (PCS) Conducted Powers Ant 2b - 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	13.58	13.69	13.69	0	0
	1	50	13.39	13.59	13.57		0
	1	99	13.46	13.70	13.63		0
	50	0	13.55	13.52	13.61	0-1	0
	50	25	13.43	13.55	13.58		0
	50	50	13.44	13.68	13.52		0
	100	0	13.51	13.63	13.67		0
16QAM	1	0	13.66	13.54	13.65	0-1	0
	1	50	13.47	13.45	13.61		0
	1	99	13.52	13.63	13.62		0
	50	0	13.33	13.24	13.27	0-2	0
	50	25	13.20	13.20	13.23		0
	50	50	13.25	13.27	13.24		0
	100	0	13.28	13.28	13.37		0
64QAM	1	0	13.68	13.61	13.64	0-2	0
	1	50	13.47	13.63	13.58		0
	1	99	13.54	13.64	13.63		0
	50	0	13.33	13.26	13.32	0-3	0
	50	25	13.21	13.20	13.27		0
	50	50	13.25	13.24	13.23		0
	100	0	13.24	13.28	13.36		0

Table 8-84
LTE Band 25 (PCS) Conducted Powers Ant 2b - 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	13.67	13.50	13.62	0	0
	1	36	13.55	13.47	13.55		0
	1	74	13.50	13.60	13.60		0
	36	0	13.53	13.37	13.48	0-1	0
	36	18	13.47	13.40	13.46		0
	36	37	13.39	13.44	13.47		0
	75	0	13.48	13.43	13.53		0
16QAM	1	0	13.58	13.52	13.57	0-1	0
	1	36	13.55	13.47	13.54		0
	1	74	13.49	13.55	13.55		0
	36	0	13.32	13.22	13.28	0-2	0
	36	18	13.26	13.20	13.23		0
	36	37	13.20	13.29	13.20		0
	75	0	13.27	13.24	13.26		0
64QAM	1	0	13.63	13.52	13.52	0-2	0
	1	36	13.50	13.50	13.55		0
	1	74	13.52	13.58	13.56		0
	36	0	13.31	13.23	13.27	0-3	0
	36	18	13.27	13.22	13.20		0
	36	37	13.20	13.28	13.19		0
	75	0	13.22	13.24	13.25		0

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Table 8-85
LTE Band 25 (PCS) Conducted Powers Ant 2b - 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	13.67	13.50	13.57	0	0
	1	25	13.58	13.48	13.58		0
	1	49	13.50	13.59	13.60		0
	25	0	13.55	13.47	13.52	0-1	0
	25	12	13.53	13.45	13.52		0
	25	25	13.49	13.46	13.54		0
	50	0	13.55	13.46	13.56		0
16QAM	1	0	13.64	13.49	13.53	0-1	0
	1	25	13.54	13.44	13.51		0
	1	49	13.52	13.52	13.55		0
	25	0	13.36	13.22	13.25	0-2	0
	25	12	13.31	13.19	13.27		0
	25	25	13.30	13.21	13.31		0
	50	0	13.30	13.19	13.30		0
64QAM	1	0	13.64	13.53	13.55	0-2	0
	1	25	13.58	13.45	13.52		0
	1	49	13.50	13.60	13.59		0
	25	0	13.30	13.21	13.27	0-3	0
	25	12	13.29	13.18	13.26		0
	25	25	13.25	13.20	13.30		0
	50	0	13.30	13.20	13.29		0

Table 8-86
LTE Band 25 (PCS) Conducted Powers Ant 2b - 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	13.64	13.51	13.65	0	0
	1	12	13.58	13.47	13.67		0
	1	24	13.57	13.49	13.61		0
	12	0	13.59	13.45	13.58	0-1	0
	12	6	13.56	13.42	13.57		0
	12	13	13.55	13.44	13.54		0
	25	0	13.56	13.44	13.57		0
16QAM	1	0	13.58	13.47	13.59	0-1	0
	1	12	13.57	13.41	13.59		0
	1	24	13.59	13.44	13.56		0
	12	0	13.40	13.21	13.35	0-2	0
	12	6	13.37	13.20	13.33		0
	12	13	13.35	13.19	13.31		0
	25	0	13.34	13.19	13.32		0
64QAM	1	0	13.59	13.49	13.62	0-2	0
	1	12	13.56	13.45	13.64		0
	1	24	13.58	13.43	13.59		0
	12	0	13.37	13.21	13.38	0-3	0
	12	6	13.37	13.19	13.35		0
	12	13	13.36	13.20	13.32		0
	25	0	13.35	13.18	13.32		0

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Table 8-87
LTE Band 25 (PCS) Conducted Powers Ant 2b - 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	13.60	13.45	13.61	0	0
	1	7	13.66	13.46	13.65		0
	1	14	13.56	13.43	13.58		0
	8	0	13.63	13.44	13.59	0-1	0
	8	4	13.62	13.43	13.57		0
	8	7	13.58	13.43	13.55		0
16QAM	15	0	13.62	13.42	13.57	0	
	1	0	13.52	13.42	13.54	0-1	0
	1	7	13.57	13.44	13.58		0
	1	14	13.50	13.47	13.57		0-2
	8	0	13.36	13.22	13.37	0	
	8	4	13.35	13.21	13.38	0	
64QAM	8	7	13.34	13.21	13.34	0	
	15	0	13.35	13.20	13.36	0	
	1	0	13.55	13.42	13.53	0-2	0
	1	7	13.57	13.44	13.63		0
	1	14	13.51	13.43	13.58		0
	8	0	13.37	13.23	13.39	0-3	0
	8	4	13.39	13.25	13.38		0
8	7	13.35	13.21	13.36	0		
	15	0	13.36	13.20	13.35		

Table 8-88
LTE Band 25 (PCS) Conducted Powers Ant 2b -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	13.65	13.50	13.64	0	0
	1	2	13.63	13.47	13.59		0
	1	5	13.64	13.48	13.61		0
	3	0	13.62	13.46	13.58		0
	3	2	13.60	13.45	13.56		0
	3	3	13.61	13.45	13.56		0
	6	0	13.60	13.44	13.55		0
16QAM	1	0	13.57	13.43	13.53	0-1	0
	1	2	13.62	13.44	13.50		0
	1	5	13.60	13.44	13.52		0
	3	0	13.47	13.30	13.46		0
	3	2	13.47	13.29	13.45		0
	3	3	13.48	13.28	13.41		0
	6	0	13.40	13.24	13.35		0
64QAM	1	0	13.60	13.45	13.61	0-2	0
	1	2	13.61	13.43	13.54		0
	1	5	13.65	13.47	13.56		0
	3	0	13.46	13.31	13.47		0
	3	2	13.47	13.32	13.44		0
	3	3	13.48	13.30	13.42		0
	6	0	13.38	13.22	13.32		0-3

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Table 8-89
LTE Band 25 (PCS) Conducted Powers Ant 4a - 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	15.28	15.02	15.14	0	0
	1	50	15.01	14.84	14.89		0
	1	99	15.11	14.96	14.99		0
	50	0	15.10	14.94	14.95	0-1	0
	50	25	14.94	14.96	14.87		0
	50	50	14.98	14.94	14.88		0
	100	0	15.05	15.05	15.01		0
16QAM	1	0	15.22	15.17	15.17	0-1	0
	1	50	15.06	14.97	14.93		0
	1	99	15.13	15.10	15.01		0
	50	0	14.81	14.77	14.76	0-2	0
	50	25	14.72	14.78	14.67		0
	50	50	14.82	14.78	14.70		0
	100	0	14.81	14.85	14.80		0
64QAM	1	0	15.21	15.15	15.17	0-2	0
	1	50	14.96	14.97	14.93		0
	1	99	15.11	15.13	15.05		0
	50	0	14.80	14.78	14.76	0-3	0
	50	25	14.73	14.77	14.66		0
	50	50	14.79	14.78	14.69		0
	100	0	14.80	14.86	14.81		0

Table 8-90
LTE Band 25 (PCS) Conducted Powers Ant 4a - 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	15.21	15.08	15.20	0	0
	1	36	15.13	15.00	15.07		0
	1	74	15.08	15.05	15.06		0
	36	0	15.08	14.97	15.08	0-1	0
	36	18	15.04	14.98	15.05		0
	36	37	14.98	14.94	14.97		0
	75	0	15.06	15.03	15.07		0
16QAM	1	0	15.22	15.01	15.01	0-1	0
	1	36	14.93	14.93	14.87		0
	1	74	15.11	14.99	14.90		0
	36	0	14.81	14.71	14.66	0-2	0
	36	18	14.76	14.77	14.63		0
	36	37	14.69	14.72	14.67		0
	75	0	14.79	14.77	14.71		0
64QAM	1	0	15.24	15.00	15.01	0-2	0
	1	36	14.99	14.92	14.91		0
	1	74	15.04	15.02	14.99		0
	36	0	14.81	14.70	14.67	0-3	0
	36	18	14.77	14.73	14.65		0
	36	37	14.70	14.71	14.66		0
	75	0	14.79	14.78	14.72		0

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Table 8-91
LTE Band 25 (PCS) Conducted Powers Ant 4a - 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	15.21	15.06	15.22	0	0
	1	25	15.11	14.99	15.11		0
	1	49	15.05	15.01	15.03		0
	25	0	15.08	15.00	15.09	0-1	0
	25	12	15.06	14.96	15.06		0
	25	25	15.03	14.95	15.03		0
	50	0	15.09	14.98	15.09		0
16QAM	1	0	15.19	15.00	15.05	0-1	0
	1	25	15.12	14.92	14.93		0
	1	49	15.01	14.91	14.98		0
	25	0	14.85	14.77	14.63	0-2	0
	25	12	14.81	14.74	14.66		0
	25	25	14.78	14.73	14.68		0
	50	0	14.81	14.75	14.66		0
64QAM	1	0	15.17	15.01	14.90	0-2	0
	1	25	15.08	14.99	14.92		0
	1	49	15.02	14.93	15.05		0
	25	0	14.82	14.78	14.62	0-3	0
	25	12	14.80	14.72	14.64		0
	25	25	14.78	14.73	14.66		0
	50	0	14.80	14.74	14.66		0

Table 8-92
LTE Band 25 (PCS) Conducted Powers Ant 4a - 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	15.17	15.06	15.02	0	0
	1	12	15.09	15.01	15.03		0
	1	24	15.10	15.00	15.01		0
	12	0	15.11	14.99	15.00	0-1	0
	12	6	15.05	14.97	14.99		0
	12	13	15.04	14.96	14.96		0
	25	0	15.03	14.98	14.98		0
16QAM	1	0	15.15	15.05	15.03	0-1	0
	1	12	15.08	14.94	14.97		0
	1	24	15.11	14.95	14.95		0
	12	0	14.93	14.77	14.74	0-2	0
	12	6	14.82	14.74	14.79		0
	12	13	14.83	14.72	14.71		0
	25	0	14.84	14.71	14.72		0
64QAM	1	0	15.16	15.06	15.00	0-2	0
	1	12	15.06	15.02	15.03		0
	1	24	15.08	14.99	15.01		0
	12	0	14.90	14.76	14.76	0-3	0
	12	6	14.85	14.74	14.74		0
	12	13	14.83	14.73	14.71		0
	25	0	14.82	14.72	14.72		0

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Table 8-93
LTE Band 25 (PCS) Conducted Powers Ant 4a - 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	15.11	15.01	14.98	0	0
	1	7	15.16	15.02	15.03		0
	1	14	15.07	14.97	14.92		0
	8	0	15.12	15.00	14.97	0-1	0
	8	4	15.12	14.98	14.95		0
	8	7	15.08	14.97	14.93		0
	15	0	15.11	14.80	14.94		0
16QAM	1	0	15.02	14.97	14.92	0-1	0
	1	7	15.14	14.90	14.98		0
	1	14	15.06	14.88	14.93		0
	8	0	14.91	14.73	14.74	0-2	0
	8	4	14.90	14.72	14.72		0
	8	7	14.84	14.71	14.70		0
	15	0	14.88	14.72	14.68		0
64QAM	1	0	15.05	14.95	14.98	0-2	0
	1	7	15.19	14.94	14.99		0
	1	14	15.08	14.91	14.94		0
	8	0	14.94	14.77	14.77	0-3	0
	8	4	14.91	14.73	14.71		0
	8	7	14.82	14.72	14.70		0
	15	0	14.89	14.75	14.71		0

Table 8-94
LTE Band 25 (PCS) Conducted Powers Ant 4a -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	15.18	15.02	15.02	0	0
	1	2	15.13	15.03	14.97		0
	1	5	15.16	15.01	14.97		0
	3	0	15.11	14.99	14.96		0
	3	2	15.11	14.98	14.95		0
	3	3	15.12	14.97	14.94		0
	6	0	15.10	14.97	14.92	0-1	0
16QAM	1	0	15.12	14.97	14.92		0
	1	2	15.04	14.94	14.91		0
	1	5	15.13	14.95	14.84		0
	3	0	14.98	14.84	14.77		0
	3	2	15.00	14.80	14.78		0
	3	3	15.03	14.83	14.81		0
6	0	14.96	14.79	14.70	0-2		0
64QAM	1	0	15.15	14.98		14.99	0
	1	2	15.14	14.95		14.93	0
	1	5	15.17	14.96		14.95	0
	3	0	15.01	14.87		14.80	0
	3	2	15.02	14.88		14.81	0
	3	3	15.00	14.85		14.79	0
	6	0	14.92	14.74		14.69	0-3

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Table 8-95
LTE Band 25 (PCS) Conducted Powers Ant 4b - 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	14.12	14.16	14.09	0	0
	1	50	13.96	14.00	14.07		0
	1	99	13.95	14.15	14.07		0
	50	0	14.03	13.99	14.06	0-1	0
	50	25	14.03	13.98	14.08		0
	50	50	13.99	14.10	14.04		0
	100	0	14.06	14.08	14.09		0
16QAM	1	0	13.94	14.17	14.07	0-1	0
	1	50	13.92	13.99	13.96		0
	1	99	13.93	14.12	13.97		0
	50	0	13.67	13.77	13.78	0-2	0
	50	25	13.71	13.78	13.75		0
	50	50	13.75	13.80	13.74		0
	100	0	13.76	13.86	13.89		0
64QAM	1	0	14.01	14.14	14.11	0-2	0
	1	50	13.93	14.00	14.05		0
	1	99	14.08	14.12	14.02		0
	50	0	13.66	13.79	13.79	0-3	0
	50	25	13.69	13.78	13.76		0
	50	50	13.78	13.82	13.77		0
	100	0	13.77	13.87	13.88		0

Table 8-96
LTE Band 25 (PCS) Conducted Powers Ant 4b - 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	14.07	14.15	14.12	0	0
	1	36	14.05	14.02	14.11		0
	1	74	14.11	14.19	14.05		0
	36	0	13.91	14.06	14.10	0-1	0
	36	18	13.97	14.00	14.02		0
	36	37	13.94	14.04	14.00		0
	75	0	14.00	14.08	14.04		0
16QAM	1	0	13.91	13.99	14.00	0-1	0
	1	36	13.88	13.96	14.05		0
	1	74	13.97	14.06	13.94		0
	36	0	13.62	13.75	13.76	0-2	0
	36	18	13.70	13.77	13.77		0
	36	37	13.68	13.75	13.73		0
	75	0	13.74	13.83	13.84		0
64QAM	1	0	13.98	14.02	14.10	0-2	0
	1	36	13.94	13.98	14.11		0
	1	74	14.04	14.05	13.99		0
	36	0	13.62	13.75	13.79	0-3	0
	36	18	13.70	13.73	13.78		0
	36	37	13.68	13.79	13.75		0
	75	0	13.71	13.81	13.83		0

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Table 8-97
LTE Band 25 (PCS) Conducted Powers Ant 4b - 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	14.10	14.13	14.13	0	0
	1	25	14.01	14.07	14.09		0
	1	49	14.05	14.18	14.06		0
	25	0	13.99	14.08	14.09	0-1	0
	25	12	13.97	14.01	14.03		0
	25	25	14.02	14.04	14.02		0
	50	0	13.92	14.05	14.03		0
16QAM	1	0	13.91	14.07	13.93	0-1	0
	1	25	13.83	13.92	13.94		0
	1	49	13.93	13.97	13.97		0
	25	0	13.65	13.81	13.72	0-2	0
	25	12	13.63	13.75	13.70		0
	25	25	13.69	13.72	13.71		0
	50	0	13.63	13.78	13.72		0
64QAM	1	0	13.97	14.05	13.98	0-2	0
	1	25	13.85	13.97	13.90		0
	1	49	13.96	14.02	13.96		0
	25	0	13.63	13.80	13.73	0-3	0
	25	12	13.63	13.74	13.68		0
	25	25	13.68	13.73	13.71		0
	50	0	13.63	13.78	13.74		0

Table 8-98
LTE Band 25 (PCS) Conducted Powers Ant 4b - 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	14.06	14.11	14.13	0	0
	1	12	13.98	14.07	14.10		0
	1	24	14.00	14.04	14.06		0
	12	0	14.01	14.03	14.08	0-1	0
	12	6	13.96	14.00	14.06		0
	12	13	13.97	14.04	14.02		0
	25	0	13.96	14.08	14.06		0
16QAM	1	0	13.94	14.04	14.03	0-1	0
	1	12	13.90	13.99	13.99		0
	1	24	13.84	14.01	13.95		0
	12	0	13.73	13.81	13.78	0-2	0
	12	6	13.61	13.75	13.76		0
	12	13	13.59	13.79	13.71		0
	25	0	13.60	13.77	13.76		0
64QAM	1	0	14.09	14.08	14.09	0-2	0
	1	12	14.04	14.04	14.07		0
	1	24	13.94	14.00	14.02		0
	12	0	13.77	13.79	13.80	0-3	0
	12	6	13.72	13.75	13.77		0
	12	13	13.71	13.82	13.71		0
	25	0	13.74	13.80	13.75		0

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Table 8-99
LTE Band 25 (PCS) Conducted Powers Ant 4b - 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	13.94	14.01	14.07	0	0
	1	7	14.03	14.10	14.07		0
	1	14	13.93	14.01	13.97		0
	8	0	13.97	14.02	14.04	0-1	0
	8	4	13.98	14.06	14.02		0
	8	7	13.90	14.05	14.00		0
	15	0	13.99	14.07	14.03		0
16QAM	1	0	13.86	13.82	14.00	0-1	0
	1	7	13.92	13.89	13.99		0
	1	14	13.80	13.91	13.94		0
	8	0	13.70	13.75	13.77	0-2	0
	8	4	13.66	13.74	13.76		0
	8	7	13.67	13.73	13.73		0
	15	0	13.68	13.77	13.75		0
64QAM	1	0	13.90	13.94	14.01	0-2	0
	1	7	13.97	14.00	14.02		0
	1	14	13.85	13.96	13.94		0
	8	0	13.71	13.76	13.87	0-3	0
	8	4	13.72	13.77	13.78		0
	8	7	13.70	13.75	13.75		0
	15	0	13.68	13.77	13.77		0

Table 8-100
LTE Band 25 (PCS) Conducted Powers Ant 4b -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	14.02	14.03	14.08	0	0
	1	2	14.00		14.03		0
	1	5	14.03	14.09	14.05		0
	3	0	13.99	14.00	14.02		0
	3	2	13.98	14.05	14.00		0
	3	3	14.00	14.06	13.99		0
	6	0	13.98	14.06	13.98	0	
16QAM	1	0	13.92	14.02	13.97	0-1	0
	1	2	13.88	13.99	13.84		0
	1	5	13.89	13.97	13.91		0
	3	0	13.78	13.86	13.82		0
	3	2	13.76	13.89	13.79		0
	3	3	13.74	13.93	13.77		0
	6	0	13.71	13.88	13.75	0	
64QAM	1	0	13.95	14.00	13.99	0-2	0
	1	2	13.91	14.03	13.96		0
	1	5	13.96	14.05	13.91		0
	3	0	13.78	13.90	13.83		0
	3	2	13.78	13.86	13.84		0
	3	3	13.80	13.90	13.82		0
	6	0	13.76	13.81	13.73	0-3	0

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LTE Band 30

Table 8-101
LTE Band 30 Conducted Powers Ant 2a - 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	12.54	0	0
	1	25	12.46		0
	1	49	12.57		0
	25	0	12.55	0-1	0
	25	12	12.49		0
	25	25	12.48		0
	50	0	12.53		0
16QAM	1	0	12.55	0-1	0
	1	25	12.57		0
	1	49	12.58		0
	25	0	12.36	0-2	0
	25	12	12.37		0
	25	25	12.41		0
	50	0	12.39		0
64QAM	1	0	12.56	0-2	0
	1	25	12.56		0
	1	49	12.53		0
	25	0	12.40	0-3	0
	25	12	12.39		0
	25	25	12.40		0
	50	0	12.38		0

Table 8-102
LTE Band 30 Conducted Powers Ant 2a - 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	12.41	0	0
	1	12	12.40		0
	1	24	12.47		0
	12	0	12.38	0-1	0
	12	6	12.39		0
	12	13	12.40		0
	25	0	12.40		0
16QAM	1	0	12.56	0-1	0
	1	12	12.57		0
	1	24	12.60		0
	12	0	12.40	0-2	0
	12	6	12.39		0
	12	13	12.40		0
	25	0	12.39		0
64QAM	1	0	12.54	0-2	0
	1	12	12.56		0
	1	24	12.59		0
	12	0	12.42	0-3	0
	12	6	12.35		0
	12	13	12.41		0
	25	0	12.35		0

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 8-103
LTE Band 30 Conducted Powers Ant 2b - 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	12.86	0	0
	1	25	12.73		0
	1	49	12.77		0
	25	0	12.83	0-1	0
	25	12	12.75		0
	25	25	12.77		0
	50	0	12.79		0
16QAM	1	0	12.80	0-1	0
	1	25	12.78		0
	1	49	12.79		0
	25	0	12.59	0-2	0
	25	12	12.55		0
	25	25	12.54		0
	50	0	12.56		0
64QAM	1	0	12.85	0-2	0
	1	25	12.75		0
	1	49	12.79		0
	25	0	12.59	0-3	0
	25	12	12.56		0
	25	25	12.54		0
	50	0	12.55		0

Table 8-104
LTE Band 30 Conducted Powers Ant 2b - 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	12.75	0	0
	1	12	12.70		0
	1	24	12.71		0
	12	0	12.69	0-1	0
	12	6	12.68		0
	12	13	12.66		0
	25	0	12.69		0
16QAM	1	0	12.71	0-1	0
	1	12	12.76		0
	1	24	12.70		0
	12	0	12.52	0-2	0
	12	6	12.50		0
	12	13	12.49		0
	25	0	12.50		0
64QAM	1	0	12.83	0-2	0
	1	12	12.77		0
	1	24	12.74		0
	12	0	12.54	0-3	0
	12	6	12.55		0
	12	13	12.53		0
	25	0	12.52		0

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 8-105
LTE Band 30 Conducted Powers Ant 4a - 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	13.38	0	0
	1	25	13.37		0
	1	49	13.45		0
	25	0	13.37	0-1	0
	25	12	13.41		0
	25	25	13.44		0
16QAM	50	0	13.40	0-1	0
	1	0	13.27		0
	1	25	13.33		0
	1	49	13.38	0-2	0
	25	0	13.07		0
	25	12	13.13		0
64QAM	25	25	13.14	0-2	0
	50	0	13.12		0
	1	0	13.34	0-2	0
	1	25	13.38		0
	1	49	13.39		0
	25	0	13.11	0-3	0
64QAM	25	12	13.10		0
	25	25	13.09		0
	50	0	13.13		0

Table 8-106
LTE Band 30 Conducted Powers Ant 4a - 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	13.34	0	0
	1	12	13.37		0
	1	24	13.41		0
	12	0	13.35	0-1	0
	12	6	13.34		0
	12	13	13.37		0
16QAM	25	0	13.36	0-1	0
	1	0	13.30		0
	1	12	13.34		0
	1	24	13.37	0-2	0
	12	0	13.16		0
	12	6	13.14		0
64QAM	12	13	13.12	0-2	0
	25	0	13.11		0
	1	0	13.32	0-2	0
	1	12	13.37		0
	1	24	13.33		0
	12	0	13.15	0-3	0
64QAM	12	6	13.12		0
	12	13	13.14		0
	25	0	13.11		0

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 8-107
LTE Band 30 Conducted Powers Ant 4b - 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	13.06	0	0
	1	25	13.03		0
	1	49	13.18		0
	25	0	13.04	0-1	0
	25	12	13.06		0
	25	25	13.11		0
16QAM	50	0	13.10	0-1	0
	1	0	13.16		0
	1	25	13.06		0
	1	49	13.17	0-2	0
	25	0	12.93		0
	25	12	12.89		0
64QAM	25	25	12.90	0-2	0
	50	0	12.91		0
	1	0	13.12	0-2	0
	1	25	13.16		0
	1	49	13.18		0
	25	0	13.00	0-3	0
	25	12	12.87		0
	25	25	12.86		0
	50	0	12.88		0

Table 8-108
LTE Band 30 Conducted Powers Ant 4b - 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	13.12	0	0
	1	12	13.09		0
	1	24	13.11		0
	12	0	13.03	0-1	0
	12	6	13.02		0
	12	13	13.06		0
16QAM	25	0	13.05	0-1	0
	1	0	13.08		0
	1	12	13.11		0
	1	24	13.19	0-2	0
	12	0	12.90		0
	12	6	12.88		0
64QAM	12	13	12.91	0-2	0
	25	0	12.90		0
	1	0	13.16	0-2	0
	1	12	13.15		0
	1	24	13.17		0
	12	0	12.95	0-3	0
	12	6	12.90		0
	12	13	12.94		0
	25	0	12.92		0

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 8-109
LTE Band 7 Conducted Powers Ant 2a - 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	12.00	11.99	11.79	0	0
	1	50	11.89	11.83	11.71		0
	1	99	11.98	11.91	11.99		0
	50	0	11.84	11.84	11.83	0-1	0
	50	25	11.91	11.74	11.82		0
	50	50	12.00	11.81	11.99		0
	100	0	11.92	11.82	11.92		0
16QAM	1	0	11.92	11.89	11.87	0-1	0
	1	50	11.76	11.70	11.78		0
	1	99	11.94	11.78	11.88		0
	50	0	11.47	11.59	11.68	0-2	0
	50	25	11.56	11.51	11.63		0
	50	50	11.70	11.54	11.69		0
	100	0	11.59	11.58	11.69		0
64QAM	1	0	11.90	11.88	11.91	0-2	0
	1	50	11.88	11.72	11.83		0
	1	99	11.95	11.81	11.96		0
	50	0	11.46	11.61	11.68	0-3	0
	50	25	11.55	11.52	11.61		0
	50	50	11.74	11.55	11.69		0
	100	0	11.58	11.58	11.69		0

Table 8-110
LTE Band 7 Conducted Powers Ant 2a - 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	11.97	11.87	11.92	0	0
	1	36	11.85	11.75	11.88		0
	1	74	11.96	11.78	11.97		0
	36	0	11.75	11.80	11.87	0-1	0
	36	18	11.74	11.74	11.91		0
	36	37	11.82	11.78	11.93		0
	75	0	11.72	11.77	11.94		0
16QAM	1	0	11.94	11.82	11.90	0-1	0
	1	36	11.70	11.63	11.77		0
	1	74	11.83	11.72	11.86		0
	36	0	11.48	11.55	11.64	0-2	0
	36	18	11.41	11.48	11.62		0
	36	37	11.46	11.50	11.66		0
	75	0	11.41	11.49	11.69		0
64QAM	1	0	11.90	11.80	11.86	0-2	0
	1	36	11.64	11.73	11.81		0
	1	74	11.85	11.74	11.93		0
	36	0	11.48	11.54	11.66	0-3	0
	36	18	11.52	11.48	11.67		0
	36	37	11.48	11.51	11.69		0
	75	0	11.41	11.51	11.70		0

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Table 8-111
LTE Band 7 Conducted Powers Ant 2a - 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	12.00	11.84	11.94	0	0
	1	25	11.75	11.74	11.97		0
	1	49	11.77	11.79	11.99		0
	25	0	11.68	11.77	11.94	0-1	0
	25	12	11.70	11.71	11.96		0
	25	25	11.71	11.70	11.97		0
	50	0	11.70	11.73	11.98		0
16QAM	1	0	12.00	11.85	11.91	0-1	0
	1	25	11.70	11.70	11.85		0
	1	49	11.69	11.65	11.90		0
	25	0	11.47	11.56	11.70	0-2	0
	25	12	11.42	11.51	11.69		0
	25	25	11.41	11.47	11.71		0
	50	0	11.41	11.49	11.72		0
64QAM	1	0	11.99	11.83	11.89	0-2	0
	1	25	11.72	11.71	11.86		0
	1	49	11.67	11.72	11.92		0
	25	0	11.44	11.55	11.69	0-3	0
	25	12	11.42	11.50	11.70		0
	25	25	11.40	11.51	11.72		0
	50	0	11.39	11.54	11.73		0

Table 8-112
LTE Band 7 Conducted Powers Ant 2a - 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	12.00	11.77	11.97	0	0
	1	12	11.84	11.75	11.95		0
	1	24	11.83	11.70	11.96		0
	12	0	11.90	11.69	11.95	0-1	0
	12	6	11.76	11.68	11.94		0
	12	13	11.78	11.66	11.98		0
	25	0	11.77	11.68	11.97		0
16QAM	1	0	12.00	11.75	11.91	0-1	0
	1	12	11.74	11.66	11.84		0
	1	24	11.69	11.69	11.80		0
	12	0	11.64	11.53	11.71	0-2	0
	12	6	11.53	11.51	11.67		0
	12	13	11.49	11.49	11.70		0
	25	0	11.50	11.51	11.68		0
64QAM	1	0	11.99	11.76	11.93	0-2	0
	1	12	11.74	11.68	11.84		0
	1	24	11.70	11.72	11.88		0
	12	0	11.65	11.55	11.68	0-3	0
	12	6	11.50	11.51	11.72		0
	12	13	11.48	11.50	11.73		0
	25	0	11.52	11.51	11.70		0

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Table 8-113
LTE Band 7 Conducted Powers Ant 2b - 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	12.19	12.30	12.13	0	0
	1	50	12.09	12.19	12.00		0
	1	99	12.29	12.22	12.17		0
	50	0	12.16	12.28	12.08	0-1	0
	50	25	12.17	12.16	12.07		0
	50	50	12.27	12.16	12.15		0
	100	0	12.26	12.21	12.16		0
16QAM	1	0	11.92	12.23	11.95	0-1	0
	1	50	11.93	11.97	11.89		0
	1	99	12.13	12.04	11.93		0
	50	0	11.74	11.96	11.67	0-2	0
	50	25	11.79	11.76	11.64		0
	50	50	11.85	11.78	11.70		0
	100	0	11.84	11.82	11.71		0
64QAM	1	0	11.94	12.28	11.99	0-2	0
	1	50	11.98	11.99	11.80		0
	1	99	12.16	11.98	11.85		0
	50	0	11.75	11.96	11.68	0-3	0
	50	25	11.77	11.77	11.65		0
	50	50	11.86	11.78	11.72		0
	100	0	11.85	11.83	11.73		0

Table 8-114
LTE Band 7 Conducted Powers Ant 2b - 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	11.93	12.30	12.06	0	0
	1	36	12.03	12.10	12.00		0
	1	74	12.12	12.06	12.03		0
	36	0	11.91	12.23	11.99	0-1	0
	36	18	11.97	12.12	11.98		0
	36	37	11.98	12.11	12.01		0
	75	0	11.99	12.13	11.98		0
16QAM	1	0	11.90	12.22	11.95	0-1	0
	1	36	12.01	12.01	11.91		0
	1	74	12.00	11.97	11.92		0
	36	0	11.71	11.95	11.70	0-2	0
	36	18	11.75	11.80	11.73		0
	36	37	11.74	11.82	11.72		0
	75	0	11.77	11.81	11.76		0
64QAM	1	0	11.96	12.24	11.93	0-2	0
	1	36	11.95	12.00	11.89		0
	1	74	11.98	11.99	11.98		0
	36	0	11.72	12.00	11.70	0-3	0
	36	18	11.76	11.97	11.72		0
	36	37	11.75	11.83	11.71		0
	75	0	11.76	11.82	11.75		0

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Table 8-115
LTE Band 7 Conducted Powers Ant 2b - 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	11.98	12.24	12.02	0	0
	1	25	12.01	12.06	12.04		0
	1	49	12.02	12.06	12.09		0
	25	0	11.91	12.13	12.00	0-1	0
	25	12	11.97	12.06	12.03		0
	25	25	12.00	12.03	12.05		0
	50	0	11.99	12.07	12.06		0
16QAM	1	0	11.92	12.16	11.96	0-1	0
	1	25	11.94	12.00	11.86		0
	1	49	11.96	12.01	11.93		0
	25	0	11.66	11.85	11.72	0-2	0
	25	12	11.70	11.75	11.72		0
	25	25	11.74	11.72	11.71		0
	50	0	11.71	11.76	11.76		0
64QAM	1	0	11.96	12.21	11.97	0-2	0
	1	25	11.94	11.94	11.90		0
	1	49	11.93	11.99	11.94		0
	25	0	11.66	11.83	11.71	0-3	0
	25	12	11.69	11.78	11.72		0
	25	25	11.74	11.71	11.72		0
	50	0	11.71	11.76	11.74		0

Table 8-116
LTE Band 7 Conducted Powers Ant 2b- 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	12.01	12.17	12.04	0	0
	1	12	12.00	12.05	12.01		0
	1	24	12.06	12.04	12.06		0
	12	0	11.99	12.08	12.03	0-1	0
	12	6	11.97	12.05	12.02		0
	12	13	11.96	12.04	12.03		0
	25	0	11.98	12.06	12.05		0
16QAM	1	0	11.85	12.08	11.90	0-1	0
	1	12	11.89	11.96	11.88		0
	1	24	11.98	11.92	11.92		0
	12	0	11.69	11.80	11.74	0-2	0
	12	6	11.67	11.77	11.72		0
	12	13	11.72	11.73	11.73		0
	25	0	11.67	11.75	11.73		0
64QAM	1	0	11.87	12.00	11.92	0-2	0
	1	12	11.92	11.95	11.86		0
	1	24	11.89	11.93	11.99		0
	12	0	11.66	11.80	11.73	0-3	0
	12	6	11.67	11.76	11.74		0
	12	13	11.73	11.73	11.75		0
	25	0	11.68	11.74	11.73		0

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Table 8-117
LTE Band 7 Conducted Powers Ant 4a - 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	11.97	11.97	11.81	0	0
	1	50	11.58	11.83	11.69		0
	1	99	11.55	12.00	11.77		0
	50	0	11.65	11.92	11.85	0-1	0
	50	25	11.56	11.83	11.81		0
	50	50	11.44	11.89	11.80		0
	100	0	11.61	11.88	11.87		0
16QAM	1	0	11.91	11.83	11.71	0-1	0
	1	50	11.56	11.67	11.46		0
	1	99	11.53	11.87	11.58		0
	50	0	11.23	11.59	11.46	0-2	0
	50	25	11.12	11.53	11.37		0
	50	50	11.03	11.57	11.42		0
	100	0	11.21	11.58	11.44		0
64QAM	1	0	11.83	11.83	11.76	0-2	0
	1	50	11.42	11.69	11.50		0
	1	99	11.44	11.84	11.62		0
	50	0	11.24	11.61	11.46	0-3	0
	50	25	11.11	11.54	11.36		0
	50	50	11.01	11.58	11.39		0
	100	0	11.21	11.57	11.44		0

Table 8-118
LTE Band 7 Conducted Powers Ant 4a - 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	11.90	11.90	11.70	0	0
	1	36	11.59	11.76	11.57		0
	1	74	11.52	11.84	11.71		0
	36	0	11.67	11.86	11.62	0-1	0
	36	18	11.63	11.79	11.59		0
	36	37	11.51	11.80	11.67		0
	75	0	11.67	11.81	11.63		0
16QAM	1	0	11.86	11.80	11.69	0-1	0
	1	36	11.54	11.65	11.47		0
	1	74	11.15	11.74	11.60		0
	36	0	11.34	11.61	11.37	0-2	0
	36	18	11.23	11.52	11.33		0
	36	37	11.03	11.51	11.35		0
	75	0	11.16	11.54	11.37		0
64QAM	1	0	11.91	11.85	11.66	0-2	0
	1	36	11.42	11.69	11.45		0
	1	74	11.37	11.77	11.61		0
	36	0	11.35	11.60	11.39	0-3	0
	36	18	11.23	11.53	11.34		0
	36	37	11.04	11.52	11.37		0
	75	0	11.16	11.53	11.36		0

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Table 8-119
LTE Band 7 Conducted Powers Ant 4a - 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	11.92	11.90	11.57	0	0
	1	25	11.45	11.77	11.63		0
	1	49	11.27	11.81	11.71		0
	25	0	11.62	11.78	11.58	0-1	0
	25	12	11.43	11.77	11.65		0
	25	25	11.38	11.79	11.67		0
	50	0	11.41	11.78	11.68		0
16QAM	1	0	11.86	11.86	11.54	0-1	0
	1	25	11.51	11.69	11.57		0
	1	49	11.36	11.73	11.64		0
	25	0	11.49	11.53	11.32	0-2	0
	25	12	11.33	11.49	11.34		0
	25	25	11.24	11.51	11.36		0
	50	0	11.29	11.50	11.37		0
64QAM	1	0	11.92	11.86	11.56	0-2	0
	1	25	11.64	11.71	11.53		0
	1	49	11.42	11.77	11.61		0
	25	0	11.49	11.53	11.31	0-3	0
	25	12	11.30	11.50	11.34		0
	25	25	11.24	11.51	11.37		0
	50	0	11.31	11.52	11.37		0

Table 8-120
LTE Band 7 Conducted Powers Ant 4a- 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	11.95	11.76	11.67	0	0
	1	12	11.74	11.71	11.64		0
	1	24	11.61	11.79	11.65		0
	12	0	11.80	11.73	11.61	0-1	0
	12	6	11.71	11.74	11.62		0
	12	13	11.65	11.75	11.63		0
	25	0	11.74	11.74	11.64		0
16QAM	1	0	11.93	11.75	11.59	0-1	0
	1	12	11.65	11.65	11.60		0
	1	24	11.63	11.78	11.69		0
	12	0	11.71	11.52	11.48	0-2	0
	12	6	11.59	11.56	11.47		0
	12	13	11.54	11.59	11.48		0
	25	0	11.56	11.55	11.46		0
64QAM	1	0	11.96	11.84	11.69	0-2	0
	1	12	11.72	11.75	11.67		0
	1	24	11.68	11.86	11.73		0
	12	0	11.66	11.60	11.49	0-3	0
	12	6	11.54	11.59	11.46		0
	12	13	11.47	11.61	11.50		0
	25	0	11.52	11.60	11.47		0

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Table 8-121
LTE Band 7 Conducted Powers Ant 4b - 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	11.89	12.00	11.92	0	0
	1	50	11.67	11.81	11.80		0
	1	99	11.87	11.92	11.88		0
	50	0	11.87	11.98	11.90	0-1	0
	50	25	11.81	11.84	11.84		0
	50	50	11.89	11.82	11.85		0
	100	0	11.86	11.89	11.91		0
16QAM	1	0	11.95	11.94	11.91	0-1	0
	1	50	11.89	11.77	11.86		0
	1	99	11.91	11.85	11.75		0
	50	0	11.78	11.75	11.62	0-2	0
	50	25	11.62	11.67	11.50		0
	50	50	11.60	11.61	11.51		0
	100	0	11.66	11.67	11.59		0
64QAM	1	0	11.94	11.93	11.86	0-2	0
	1	50	11.81	11.84	11.75		0
	1	99	11.89	11.87	11.78		0
	50	0	11.79	11.78	11.68	0-3	0
	50	25	11.61	11.63	11.54		0
	50	50	11.62	11.61	11.53		0
	100	0	11.67	11.67	11.59		0

Table 8-122
LTE Band 7 Conducted Powers Ant 4b - 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	11.87	11.95	11.88	0	0
	1	36	11.70	11.81	11.71		0
	1	74	11.77	11.85	11.76		0
	36	0	11.76	11.93	11.81	0-1	0
	36	18	11.77	11.84	11.74		0
	36	37	11.70	11.82	11.78		0
	75	0	11.73	11.88	11.80		0
16QAM	1	0	11.79	11.90	11.80	0-1	0
	1	36	11.61	11.85	11.59		0
	1	74	11.68	11.79	11.67		0
	36	0	11.51	11.78	11.55	0-2	0
	36	18	11.40	11.64	11.47		0
	36	37	11.42	11.61	11.53		0
	75	0	11.41	11.66	11.54		0
64QAM	1	0	11.77	11.97	11.83	0-2	0
	1	36	11.71	11.81	11.71		0
	1	74	11.69	11.85	11.73		0
	36	0	11.56	11.78	11.63	0-3	0
	36	18	11.41	11.65	11.50		0
	36	37	11.43	11.61	11.54		0
	75	0	11.42	11.66	11.53		0

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Table 8-123
LTE Band 7 Conducted Powers Ant 4b - 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	11.83	11.97	11.77	0	0
	1	25	11.80	11.96	11.76		0
	1	49	11.62	11.87	11.82		0
	25	0	11.75	11.86	11.74	0-1	0
	25	12	11.74	11.80	11.78		0
	25	25	11.63	11.81	11.79		0
	50	0	11.72	11.84	11.80		0
16QAM	1	0	11.79	11.98	11.71	0-1	0
	1	25	11.78	11.81	11.73		0
	1	49	11.76	11.82	11.77		0
	25	0	11.53	11.71	11.47	0-2	0
	25	12	11.52	11.61	11.51		0
	25	25	11.43	11.60	11.55		0
	50	0	11.51	11.62	11.54		0
64QAM	1	0	11.80	11.99	11.67	0-2	0
	1	25	11.79	11.86	11.70		0
	1	49	11.67	11.85	11.71		0
	25	0	11.54	11.68	11.46	0-3	0
	25	12	11.53	11.62	11.49		0
	25	25	11.44	11.61	11.54		0
	50	0	11.56	11.62	11.55		0

Table 8-124
LTE Band 7 Conducted Powers Ant 4b- 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	11.82	11.89	11.79	0	0
	1	12	11.78	11.78	11.75		0
	1	24	11.81	11.80	11.76		0
	12	0	11.79	11.81	11.78	0-1	0
	12	6	11.77	11.79	11.76		0
	12	13	11.78	11.80	11.74		0
	25	0	11.77	11.82	11.79		0
16QAM	1	0	11.78	11.78	11.78	0-1	0
	1	12	11.82	11.71	11.74		0
	1	24	11.80	11.78	11.72		0
	12	0	11.59	11.58	11.58	0-2	0
	12	6	11.56	11.53	11.60		0
	12	13	11.57	11.54	11.55		0
	25	0	11.56	11.56	11.57		0
64QAM	1	0	11.77	11.77	11.76	0-2	0
	1	12	11.79	11.73	11.70		0
	1	24	11.76	11.70	11.77		0
	12	0	11.56	11.57	11.57	0-3	0
	12	6	11.54	11.54	11.56		0
	12	13	11.57	11.54	11.55		0
	25	0	11.55	11.55	11.57		0

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LTE Band 41 PC3

Table 8-125
LTE Band 41 PC3 Conducted Powers Ant 2a - 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	14.69	14.56	14.71	14.59	14.49	0	0
	1	50	14.53	14.52	14.67	14.45	14.46		0
	1	99	14.74	14.60	14.64	14.53	14.50		0
	50	0	14.56	14.49	14.63	14.54	14.41	0-1	0
	50	25	14.44	14.48	14.62	14.42	14.39		0
	50	50	14.65	14.50	14.59	14.41	14.39		0
	100	0	14.41	14.53	14.61	14.45	14.46		0
16QAM	1	0	14.72	14.67	14.67	14.58	14.54	0-1	0
	1	50	14.53	14.66	14.52	14.49	14.49		0
	1	99	14.62	14.64	14.50	14.44	14.47		0
	50	0	14.10	14.29	14.27	14.25	14.20	0-2	0
	50	25	14.03	14.26	14.24	14.12	14.15		0
	50	50	14.19	14.30	14.21	14.09	14.14		0
	100	0	13.96	14.32	14.23	14.13	14.18		0
64QAM	1	0	14.53	14.44	14.43	14.45	14.44	0-2	0
	1	50	14.16	14.39	14.36	14.32	14.34		0
	1	99	14.40	14.59	14.30	14.26	14.23		0
	50	0	14.15	14.30	14.26	14.22	14.18	0-3	0
	50	25	14.03	14.29	14.22	14.15	14.15		0
	50	50	14.21	14.33	14.21	14.11	14.17		0
	100	0	13.97	14.30	14.25	14.14	14.16		0

Table 8-126
LTE Band 41 PC3 Conducted Powers Ant 2a - 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	14.73	14.67	14.63	14.63	14.62	0	0	
	1	36	14.49	14.70	14.61	14.56	14.59		0-1	0
	1	74	14.61	14.69	14.57	14.54	14.56			0
	36	0	14.43	14.63	14.58	14.56	14.52	0		
	36	18	14.37	14.64	14.56	14.46	14.50	0		
	36	37	14.45	14.63	14.53	14.42	14.48		0	
	75	0	14.31	14.65	14.57	14.45	14.52		0	
16QAM	1	0	14.71	14.61	14.60	14.54	14.55	0-1	0	
	1	36	14.47	14.57	14.56	14.44	14.53		0-2	0
	1	74	14.58	14.71	14.50	14.39	14.46			0
	36	0	14.14	14.26	14.24	14.19	14.16	0		
	36	18	14.08	14.27	14.22	14.15	14.15	0		
	36	37	14.16	14.29	14.19	14.08	14.14		0	
	75	0	13.99	14.28	14.23	14.11	14.18		0	
64QAM	1	0	14.55	14.40	14.42	14.39	14.52	0-2	0	
	1	36	14.29	14.36	14.34	14.24	14.40		0-3	0
	1	74	14.37	14.44	14.24	14.19	14.37			0
	36	0	14.12	14.28	14.28	14.20	14.20	0		
	36	18	14.09	14.29	14.24	14.13	14.17	0		
	36	37	14.15	14.27	14.20	14.09	14.14		0	
	75	0	14.00	14.28	14.24	14.12	14.17		0	

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Table 8-127
LTE Band 41 PC3 Conducted Powers Ant 2a - 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	14.62	14.76	14.69	14.66	14.64	0	0
	1	25	14.44	14.73	14.64	14.55	14.57		0
	1	49	14.63	14.74	14.63	14.55	14.59		0
	25	0	14.46	14.66	14.63	14.59	14.55	0-1	0
	25	12	14.40	14.68	14.61	14.52	14.52		0
	25	25	14.48	14.67	14.60	14.50	14.51		0
	50	0	14.37	14.69	14.62	14.54	14.54		0
16QAM	1	0	14.57	14.68	14.58	14.57	14.57	0-1	0
	1	25	14.41	14.67	14.60	14.44	14.59		0
	1	49	14.60	14.73	14.59	14.37	14.56		0
	25	0	14.12	14.33	14.30	14.27	14.21	0-2	0
	25	12	14.06	14.27	14.27	14.16	14.18		0
	25	25	14.10	14.26	14.29	14.12	14.19		0
	50	0	14.00	14.29	14.29	14.14	14.23		0
64QAM	1	0	14.49	14.54	14.42	14.43	14.46	0-2	0
	1	25	14.18	14.47	14.38	14.27	14.37		0
	1	49	14.40	14.42	14.31	14.20	14.32		0
	25	0	14.13	14.28	14.28	14.19	14.20	0-3	0
	25	12	14.05	14.25	14.22	14.10	14.17		0
	25	25	14.11	14.27	14.20	14.07	14.12		0
	50	0	13.99	14.26	14.23	14.12	14.15		0

Table 8-128
LTE Band 41 PC3 Conducted Powers Ant 2a - 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	14.57	14.73	14.64	14.63	14.63	0	0
	1	12	14.48	14.72	14.62	14.56	14.59		0
	1	24	14.59	14.74	14.63	14.57	14.61		0
	12	0	14.47	14.67	14.60	14.59	14.56	0-1	0
	12	6	14.45	14.66	14.59	14.52	14.55		0
	12	13	14.48	14.68	14.61	14.54	14.54		0
	25	0	14.41	14.67	14.59	14.53	14.55		0
16QAM	1	0	14.58	14.64	14.59	14.60	14.59	0-1	0
	1	12	14.45	14.63	14.55	14.42	14.55		0
	1	24	14.49	14.59	14.58	14.45	14.56		0
	12	0	14.15	14.31	14.31	14.30	14.31	0-2	0
	12	6	14.13	14.35	14.28	14.17	14.28		0
	12	13	14.14	14.28	14.30	14.14	14.26		0
	25	0	14.08	14.27	14.29	14.18	14.25		0
64QAM	1	0	14.49	14.56	14.45	14.48	14.47	0-2	0
	1	12	14.36	14.53	14.49	14.46	14.39		0
	1	24	14.33	14.48	14.40	14.31	14.35		0
	12	0	14.18	14.41	14.42	14.25	14.31	0-3	0
	12	6	14.17	14.40	14.31	14.16	14.27		0
	12	13	14.19	14.41	14.29	14.19	14.30		0
	25	0	14.11	14.37	14.34	14.15	14.24		0

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Table 8-129
LTE Band 41 PC3 Conducted Powers Ant 2b - 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	14.38	14.50	14.22	14.28	14.19	0	0
	1	50	14.41	14.48	14.18	14.24	14.08		0
	1	99	14.46	14.49	14.22	14.31	14.11		0
	50	0	14.34	14.45	14.16	14.23	14.09	0-1	0
	50	25	14.35	14.43	14.13	14.23	14.06		0
	50	50	14.37	14.41	14.13	14.24	14.04		0
	100	0	14.38	14.44	14.16	14.27	14.12		0
16QAM	1	0	14.45	14.46	14.34	14.17	14.11	0-1	0
	1	50	14.36	14.40	14.26	14.07	14.04		0
	1	99	14.41	14.42	14.12	14.04	14.13		0
	50	0	14.10	14.11	14.03	13.87	13.78	0-2	0
	50	25	14.07	14.07	14.00	13.76	13.78		0
	50	50	14.08	14.08	13.99	13.72	13.76		0
	100	0	14.14	14.09	14.04	13.79	13.81		0
64QAM	1	0	14.24	14.23	14.15	13.98	13.87	0-2	0
	1	50	14.17	14.17	14.11	13.85	13.83		0
	1	99	14.11	14.16	14.03	13.88	13.89		0
	50	0	14.10	14.09	14.05	13.84	13.77	0-3	0
	50	25	14.08	14.07	14.00	13.75	13.80		0
	50	50	14.11	14.08	13.99	13.73	13.79		0
	100	0	14.15	14.10	14.04	13.78	13.82		0

Table 8-130
LTE Band 41 PC3 Conducted Powers Ant 2b - 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	14.41	14.39	14.35	14.15	14.10	0	0
	1	36	14.44	14.38	14.32	14.06	14.13		0
	1	74	14.43	14.37	14.27	14.07	14.15		0
	36	0	14.42	14.37	14.33	14.13	14.09	0-1	0
	36	18	14.44	14.36	14.31	14.07	14.10		0
	36	37	14.42	14.34	14.29	14.04	14.09		0
	75	0	14.45	14.36	14.33	14.08	14.11		0
16QAM	1	0	14.38	14.36	14.31	14.05	14.13	0-1	0
	1	36	14.34	14.35	14.22	13.97	14.11		0
	1	74	14.37	14.34	14.15	13.92	14.11		0
	36	0	14.06	14.08	14.03	13.81	13.78	0-2	0
	36	18	14.07	14.06	14.01	13.74	13.77		0
	36	37	14.06	14.07	13.98	13.71	13.76		0
	75	0	14.08	14.09	14.02	13.74	13.78		0
64QAM	1	0	14.15	14.16	14.12	13.89	13.90	0-2	0
	1	36	14.13	14.14	14.08	13.77	13.88		0
	1	74	14.18	14.12	14.01	13.72	13.74		0
	36	0	14.08	14.08	14.03	13.81	13.75	0-3	0
	36	18	14.07	14.07	14.05	13.75	13.77		0
	36	37	14.06	14.05	14.00	13.70	13.78		0
	75	0	14.09	14.09	14.04	13.77	13.78		0

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Table 8-131
LTE Band 41 PC3 Conducted Powers Ant 2b - 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	14.46	14.41	14.37	14.14	14.12	0	0	
	1	25	14.44	14.36	14.33	14.02	14.11		0-1	0
	1	49	14.45	14.37	14.30	14.05	14.16			0
	25	0	14.41	14.34	14.31	14.10	14.07	0		
	25	12	14.40	14.32	14.30	14.02	14.06	0		0
	25	25	14.40	14.32	14.29	14.03	14.08		0	
	50	0	14.42	14.36	14.31	14.05	14.10		0	
16QAM	1	0	14.34	14.37	14.29	14.07	14.06	0-1	0	
	1	25	14.41	14.33	14.22	13.98	14.01		0-2	0
	1	49	14.38	14.38	14.16	13.94	14.09			0
	25	0	14.05	14.04	14.00	13.87	13.74	0		0
	25	12	14.03	14.06	13.98	13.74	13.72			0
	25	25	14.08	14.05	13.97	13.71	13.75		0	
	50	0	14.06	14.06	13.99	13.74	13.75	0		
64QAM	1	0	14.22	14.21	14.10	13.85	13.90	0-2	0	
	1	25	14.14	14.17	14.09	13.73	13.82		0-3	0
	1	49	14.16	14.10	14.04	13.77	13.92			0
	25	0	14.05	14.05	14.01	13.78	13.74	0		
	25	12	14.03	14.02	13.99	13.71	13.73	0		0
	25	25	14.04	14.04	13.98	13.70	13.74		0	
	50	0	14.09	14.05	14.01	13.74	13.77		0	

Table 8-132
LTE Band 41 PC3 Conducted Powers Ant 2b - 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	14.46	14.40	14.31	14.13	14.15	0	0
	1	12	14.47	14.36	14.29	14.02	14.13		0
	1	24	14.48	14.39	14.31	14.06	14.16		0
	12	0	14.45	14.35	14.30	14.10	14.10	0-1	0
	12	6	14.44	14.35	14.29	14.03	14.07		0
	12	13	14.44	14.34	14.28	14.04	14.11		0
	25	0	14.45	14.34	14.29	14.05	14.11		0
16QAM	1	0	14.40	14.41	14.32	14.16	14.11	0-1	0
	1	12	14.37	14.37	14.24	14.05	14.06		0
	1	24	14.34	14.33	14.18	13.98	14.09		0
	12	0	14.09	14.09	14.01	13.78	13.77	0-2	0
	12	6	14.11	14.06	13.98	13.71	13.76		0
	12	13	14.11	14.07	13.99	13.72	13.80		0
	25	0	14.08	14.04	14.00	13.74	13.75		0
64QAM	1	0	14.25	14.18	14.03	13.89	13.85	0-2	0
	1	12	14.15	14.09	14.01	13.75	13.93		0
	1	24	14.09	14.13	14.04	13.74	13.91		0
	12	0	14.13	14.08	14.00	13.80	13.80	0-3	0
	12	6	14.09	14.06	13.98	13.75	13.78		0
	12	13	14.11	14.07	13.97	13.74	13.84		0
	25	0	14.09	14.05	13.98	13.73	13.77		0

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Table 8-133
LTE Band 41 PC3 Conducted Powers Ant 4a - 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	14.45	14.40	14.08	14.02	14.03	0	0
	1	50	14.49	14.39	13.99	14.02	14.22		0
	1	99	14.50	14.37	13.96	14.06	14.11		0
	50	0	14.47	14.28	13.96	14.05	14.04	0-1	0
	50	25	14.48	14.30	14.16	14.04	14.05		0
	50	50	14.49	14.25	13.95	14.06	14.01		0
	100	0	14.48	14.29	13.95	14.08	14.00		0
16QAM	1	0	14.46	14.34	13.90	13.91	13.94	0-1	0
	1	50	14.45	14.26	13.89	13.86	13.95		0
	1	99	14.39	14.14	13.88	13.90	13.84		0
	50	0	14.09	13.94	13.70	13.58	13.61	0-2	0
	50	25	14.06	13.86	13.64	13.57	13.58		0
	50	50	14.05	13.81	13.61	13.62	13.56		0
	100	0	14.05	13.88	13.65	13.63	13.57		0
64QAM	1	0	14.36	14.24	13.79	13.76	13.82	0-2	0
	1	50	14.28	14.07	13.80	13.73	13.74		0
	1	99	14.11	13.98	13.85	13.72	13.69		0
	50	0	14.12	13.97	13.74	13.64	13.64	0-3	0
	50	25	14.13	13.89	13.72	13.63	13.60		0
	50	50	14.07	13.81	13.68	13.66	13.58		0
	100	0	14.06	13.87	13.72	13.65	13.61		0

Table 8-134
LTE Band 41 PC3 Conducted Powers Ant 4a - 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	14.47	14.22	13.92	13.80	13.89	0	0
	1	36	14.40	14.14	13.90	13.87	13.87		0
	1	74	14.27	14.07	13.86	13.90	13.83		0
	36	0	14.36	14.18	13.93	13.83	13.84	0-1	0
	36	18	14.39	14.09	13.91	13.84	13.82		0
	36	37	14.32	14.08	13.89	13.85	13.79		0
	75	0	14.30	14.10	13.91	13.88	13.82		0
16QAM	1	0	14.44	14.22	13.91	13.83	13.93	0-1	0
	1	36	14.37	14.19	13.88	13.85	13.88		0
	1	74	14.29	14.14	13.86	13.88	13.86		0
	36	0	14.10	13.95	13.70	13.56	13.57	0-2	0
	36	18	14.11	13.87	13.67	13.60	13.55		0
	36	37	14.02	13.82	13.63	13.61	13.54		0
	75	0	14.04	13.85	13.65	13.63	13.59		0
64QAM	1	0	14.32	14.08	13.76	13.65	13.81	0-2	0
	1	36	14.21	13.93	13.67	13.74	13.76		0
	1	74	14.14	13.86	13.63	13.75	13.63		0
	36	0	14.11	13.88	13.66	13.57	13.62	0-3	0
	36	18	14.12	13.81	13.64	13.61	13.57		0
	36	37	14.03	13.84	13.62	13.64	13.54		0
	75	0	14.05	13.83	13.67	13.62	13.59		0

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Table 8-135
LTE Band 41 PC3 Conducted Powers Ant 4a - 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	14.41	14.24	13.96	13.84	13.90	0	0
	1	25	14.35	14.12	13.92	13.85	13.85		0
	1	49	14.30	14.08	13.88	13.90	13.87		0
	25	0	14.37	14.20	13.92	13.84	13.83	0-1	0
	25	12	14.38	14.11	13.90	13.84	13.81		0
	25	25	14.32	14.08	13.88	13.87	13.82		0
	50	0	14.31	14.10	13.90	13.86	13.81		0
16QAM	1	0	14.46	14.24	13.92	13.73	13.87	0-1	0
	1	25	14.40	14.14	13.87	13.87	13.85		0
	1	49	14.38	14.08	13.86	13.85	13.86		0
	25	0	14.10	13.90	13.62	13.56	13.55	0-2	0
	25	12	14.13	13.81	13.59	13.57	13.57		0
	25	25	14.06	13.84	13.56	13.61	13.53		0
	50	0	14.04	13.80	13.60	13.58	13.50		0
64QAM	1	0	14.21	13.97	13.72	13.65	13.67	0-2	0
	1	25	14.18	13.94	13.68	13.61	13.62		0
	1	49	14.13	13.84	13.65	13.70	13.66		0
	25	0	14.11	13.87	13.60	13.52	13.53	0-3	0
	25	12	14.15	13.84	13.63	13.58	13.56		0
	25	25	14.03	13.80	13.57	13.56	13.51		0
	50	0	14.04	13.82	13.61	13.55	13.53		0

Table 8-136
LTE Band 41 PC3 Conducted Powers Ant 4a - 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	14.43	14.21	13.90	13.85	13.92	0	0
	1	12	14.39	14.12	13.89	13.84	13.89		0
	1	24	14.38	14.14	13.88	13.90	13.90		0
	12	0	14.37	14.10	13.87	13.84	13.85	0-1	0
	12	6	14.39	14.09	13.86	13.85	13.84		0
	12	13	14.37	14.08	13.85	13.86	13.80		0
	25	0	14.35	14.08	13.86	13.85	13.86		0
16QAM	1	0	14.46	14.27	13.93	13.87	13.96	0-1	0
	1	12	14.48	14.19	13.87	13.80	13.88		0
	1	24	14.40	14.11	13.80	13.88	13.92		0
	12	0	14.14	13.88	13.63	13.56	13.57	0-2	0
	12	6	14.18	13.83	13.55	13.58	13.60		0
	12	13	14.15	13.84	13.57	13.58	13.57		0
	25	0	14.12	13.82	13.60	13.55	13.58		0
64QAM	1	0	14.36	14.00	13.75	13.59	13.71	0-2	0
	1	12	14.21	13.97	13.66	13.66	13.64		0
	1	24	14.17	13.86	13.67	13.71	13.66		0
	12	0	14.16	13.85	13.60	13.58	13.63	0-3	0
	12	6	14.19	13.87	13.61	13.60	13.61		0
	12	13	14.17	13.84	13.59	13.61	13.59		0
	25	0	14.12	13.86	13.58	13.59	13.58		0

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Table 8-137
LTE Band 41 PC3 Conducted Powers Ant 4b - 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	14.88	14.99	14.79	14.83	14.87	0	0
	1	50	14.89	15.00	14.75	14.81	14.83		0
	1	99	14.92	14.99	14.71	14.77	14.75		0
	50	0	14.88	14.98	14.72	14.82	14.69	0-1	0
	50	25	14.87	14.96	14.73	14.83	14.69		0
	50	50	14.86	14.95	14.71	14.77	14.66		0
	100	0	14.89	14.95	14.71	14.80	14.65		0
16QAM	1	0	14.72	14.94	14.77	14.59	14.75	0-1	0
	1	50	14.81	14.84	14.60	14.55	14.63		0
	1	99	14.82	14.83	14.54	14.54	14.60		0
	50	0	14.32	14.55	14.36	14.23	14.33	0-2	0
	50	25	14.33	14.49	14.30	14.20	14.28		0
	50	50	14.38	14.56	14.26	14.26	14.25		0
	100	0	14.39	14.55	14.35	14.24	14.34		0
64QAM	1	0	14.38	14.75	14.58	14.36	14.51	0-2	0
	1	50	14.34	14.60	14.44	14.27	14.43		0
	1	99	14.52	14.57	14.33	14.38	14.46		0
	50	0	14.30	14.56	14.42	14.25	14.35	0-3	0
	50	25	14.34	14.47	14.34	14.23	14.29		0
	50	50	14.35	14.44	14.27	14.27	14.28		0
	100	0	14.39	14.50	14.35	14.27	14.32		0

Table 8-138
LTE Band 41 PC3 Conducted Powers Ant 4b - 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	14.66	14.90	14.75	14.61	14.65	0	0
	1	36	14.68	14.84	14.69	14.56	14.62		0
	1	74	14.75	14.78	14.59	14.59	14.57		0
	36	0	14.61	14.81	14.68	14.60	14.56	0-1	0
	36	18	14.64	14.79	14.65	14.54	14.55		0
	36	37	14.65	14.75	14.60	14.56	14.52		0
	75	0	14.66	14.77	14.65	14.55	14.55		0
16QAM	1	0	14.64	14.84	14.70	14.53	14.62	0-1	0
	1	36	14.68	14.85	14.62	14.50	14.58		0
	1	74	14.70	14.77	14.51	14.46	14.55		0
	36	0	14.30	14.54	14.35	14.23	14.31	0-2	0
	36	18	14.33	14.48	14.30	14.22	14.27		0
	36	37	14.32	14.45	14.26	14.25	14.26		0
	75	0	14.34	14.50	14.32	14.24	14.29		0
64QAM	1	0	14.60	14.75	14.54	14.27	14.57	0-2	0
	1	36	14.52	14.63	14.45	14.31	14.47		0
	1	74	14.50	14.56	14.31	14.30	14.34		0
	36	0	14.32	14.53	14.34	14.28	14.30	0-3	0
	36	18	14.33	14.52	14.32	14.23	14.29		0
	36	37	14.34	14.46	14.25	14.26	14.25		0
	75	0	14.35	14.50	14.31	14.24	14.30		0

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Table 8-139
LTE Band 41 PC3 Conducted Powers Ant 4b - 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	14.66	14.91	14.78	14.63	14.67	0	0	
	1	25	14.67	14.83	14.71	14.55	14.61		0-1	0
	1	49	14.74	14.84	14.64	14.60	14.60			0
	25	0	14.61	14.81	14.69	14.60	14.55	0		
	25	12	14.62	14.77	14.66	14.53	14.54	0		0
	25	25	14.65	14.76	14.64	14.55	14.53		0	
	50	0	14.63	14.79	14.67	14.54	14.55		0	
16QAM	1	0	14.61	14.87	14.75	14.52	14.65	0-1	0	
	1	25	14.67	14.83	14.65	14.53	14.61		0-2	0
	1	49	14.70	14.82	14.53	14.57	14.58			0
	25	0	14.34	14.55	14.39	14.25	14.27	0		
	25	12	14.32	14.52	14.32	14.21	14.25	0		0
	25	25	14.38	14.50	14.30	14.22	14.29		0	
	50	0	14.34	14.52	14.34	14.23	14.27		0	
64QAM	1	0	14.51	14.71	14.63	14.43	14.51	0-2	0	
	1	25	14.46	14.64	14.40	14.33	14.40		0-3	0
	1	49	14.44	14.55	14.33	14.34	14.37			0
	25	0	14.34	14.52	14.32	14.27	14.28	0		
	25	12	14.32	14.51	14.30	14.20	14.24	0		0
	25	25	14.33	14.48	14.29	14.23	14.26		0	
	50	0	14.34	14.52	14.31	14.20	14.28		0	

Table 8-140
LTE Band 41 PC3 Conducted Powers Ant 4b - 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	14.71	14.87	14.71	14.62	14.69	0	0
	1	12	14.68	14.82	14.67	14.56	14.68		0
	1	24	14.75	14.81	14.65	14.61	14.68		0
	12	0	14.67	14.79	14.63	14.61	14.63	0-1	0
	12	6	14.69	14.77	14.62	14.53	14.62		0
	12	13	14.68	14.76	14.61	14.57	14.63		0
	25	0	14.67	14.77	14.62	14.54	14.62		0
16QAM	1	0	14.67	14.86	14.55	14.51	14.63	0-1	0
	1	12	14.65	14.79	14.54	14.49	14.67		0
	1	24	14.71	14.74	14.52	14.48	14.70		0
	12	0	14.42	14.48	14.33	14.30	14.34	0-2	0
	12	6	14.41	14.51	14.26	14.28	14.35		0
	12	13	14.39	14.49	14.25	14.27	14.34		0
	25	0	14.40	14.46	14.24	14.25	14.37		0
64QAM	1	0	14.53	14.73	14.48	14.42	14.56	0-2	0
	1	12	14.51	14.60	14.44	14.37	14.51		0
	1	24	14.55	14.58	14.35	14.30	14.46		0
	12	0	14.41	14.54	14.33	14.28	14.26	0-3	0
	12	6	14.40	14.51	14.28	14.25	14.38		0
	12	13	14.42	14.48	14.24	14.26	14.37		0
	25	0	14.36	14.47	14.23	14.25	14.35		0

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LTE Band 41 PC2

Table 8-141
LTE Band 41 PC2 Conducted Powers Ant 2a - 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	14.62	14.69	14.74	14.71	14.50	0	0
	1	50	14.49	14.60	14.64	14.60	14.46		0
	1	99	14.68	14.63	14.58	14.65	14.49		0
	50	0	14.50	14.67	14.65	14.50	14.47	0-1	0
	50	25	14.47	14.63	14.68	14.44	14.46		0
	50	50	14.65	14.64	14.60	14.44	14.47		0
	100	0	14.43	14.66	14.64	14.48	14.50		0
16QAM	1	0	14.68	14.67	14.69	14.66	14.62	0-1	0
	1	50	14.34	14.64	14.53	14.50	14.49		0
	1	99	14.60	14.63	14.47	14.54	14.52		0
	50	0	13.89	14.13	14.12	14.07	14.04	0-2	0
	50	25	13.80	14.11	14.07	13.98	14.01		0
	50	50	13.98	14.14	14.06	13.96	14.02		0
	100	0	13.80	14.15	14.12	14.01	14.03		0
64QAM	1	0	14.61	14.56	14.58	14.51	14.46	0-2	0
	1	50	14.30	14.44	14.48	14.37	14.38		0
	1	99	14.54	14.55	14.36	14.31	14.37		0
	50	0	13.94	14.14	14.13	14.07	14.06	0-3	0
	50	25	13.83	14.13	14.09	13.99	14.01		0
	50	50	14.04	14.15	14.06	13.97	13.99		0
	100	0	13.81	14.16	14.10	14.00	14.04		0

Table 8-142
LTE Band 41 PC2 Conducted Powers Ant 2a - 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	14.72	14.63	14.62	14.56	14.52	0	0	
	1	36	14.44	14.54	14.60	14.45	14.51		0-1	0
	1	74	14.56	14.66	14.52	14.44	14.48			0
	36	0	14.37	14.47	14.52	14.45	14.41	0		
	36	18	14.34	14.44	14.49	14.38	14.40	0-1		0
	36	37	14.40	14.50	14.47	14.36	14.37		0	
	75	0	14.23	14.33	14.51	14.40	14.40		0	
16QAM	1	0	14.74	14.63	14.57	14.50	14.59	0-1	0	
	1	36	14.49	14.57	14.52	14.43	14.54		0-2	0
	1	74	14.56	14.54	14.48	14.45	14.49			0
	36	0	13.95	14.11	14.11	14.05	14.03	0		
	36	18	13.89	14.13	14.09	13.97	14.02	0-2		0
	36	37	13.97	14.12	14.04	13.95	14.00		0	
	75	0	13.82	14.13	14.10	13.99	14.02		0	
64QAM	1	0	14.60	14.50	14.43	14.41	14.39	0-2	0	
	1	36	14.32	14.46	14.36	14.34	14.33		0-3	0
	1	74	14.40	14.48	14.31	14.35	14.34			0
	36	0	13.96	14.14	14.11	14.07	14.03	0		
	36	18	13.89	14.13	14.13	13.99	14.02	0-3		0
	36	37	14.00	14.14	14.07	13.97	14.01		0	
	75	0	13.81	14.15	14.10	13.99	14.04		0	

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Table 8-143
LTE Band 41 PC2 Conducted Powers Ant 2a - 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	14.72	14.79	14.78	14.73	14.71	0	0
	1	25	14.47	14.78	14.73	14.57	14.64		0
	1	49	14.68	14.79	14.72	14.60	14.65		0
	25	0	14.49	14.66	14.66	14.61	14.55	0-1	0
	25	12	14.44	14.65	14.63	14.51	14.54		0
	25	25	14.48	14.68	14.64	14.50	14.53		0
	50	0	14.37	14.69	14.66	14.53	14.56		0
16QAM	1	0	14.72	14.77	14.75	14.69	14.66	0-1	0
	1	25	14.49	14.71	14.59	14.55	14.65		0
	1	49	14.71	14.78	14.64	14.50	14.61		0
	25	0	14.09	14.24	14.22	14.20	14.12	0-2	0
	25	12	14.02	14.23	14.21	14.09	14.11		0
	25	25	14.05	14.27	14.19	14.06	14.10		0
	50	0	13.96	14.25	14.19	14.08	14.15		0
64QAM	1	0	14.59	14.62	14.53	14.51	14.52	0-2	0
	1	25	14.35	14.59	14.50	14.38	14.44		0
	1	49	14.50	14.62	14.51	14.41	14.48		0
	25	0	14.10	14.22	14.21	14.15	14.13	0-3	0
	25	12	14.03	14.23	14.18	14.07	14.11		0
	25	25	14.09	14.25	14.20	14.06	14.12		0
	50	0	13.98	14.27	14.20	14.10	14.15		0

Table 8-144
LTE Band 41 PC2 Conducted Powers Ant 2a - 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	14.65	14.70	14.72	14.70	14.71	0	0
	1	12	14.51	14.59	14.71	14.59	14.70		0
	1	24	14.63	14.62	14.73	14.61	14.71		0
	12	0	14.47	14.59	14.64	14.60	14.60	0-1	0
	12	6	14.48	14.51	14.63	14.51	14.59		0
	12	13	14.46	14.50	14.61	14.50	14.58		0
	25	0	14.39	14.52	14.63	14.51	14.59		0
16QAM	1	0	14.70	14.73	14.69	14.67	14.66	0-1	0
	1	12	14.56	14.72	14.60	14.52	14.65		0
	1	24	14.60	14.75	14.54	14.59	14.67		0
	12	0	14.13	14.26	14.19	14.22	14.24	0-2	0
	12	6	14.12	14.29	14.22	14.07	14.20		0
	12	13	14.12	14.27	14.20	14.15	14.19		0
	25	0	14.02	14.22	14.16	14.11	14.17		0
64QAM	1	0	14.47	14.62	14.54	14.51	14.55	0-2	0
	1	12	14.35	14.57	14.48	14.36	14.49		0
	1	24	14.48	14.64	14.52	14.42	14.50		0
	12	0	14.12	14.29	14.22	14.18	14.23	0-3	0
	12	6	14.11	14.28	14.25	14.12	14.22		0
	12	13	14.40	14.28	14.20	14.14	14.21		0
	25	0	14.02	14.24	14.18	14.09	14.17		0

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Table 8-145
LTE Band 41 PC2 Conducted Powers Ant 2b - 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	14.30	14.48	14.20	14.32	14.26	0	0
	1	50	14.37	14.46	14.19	14.26	14.18		0
	1	99	14.38	14.50	14.21	14.31	14.22		0
	50	0	14.30	14.47	14.13	14.29	14.18	0-1	0
	50	25	14.32	14.45	14.10	14.24	14.19		0
	50	50	14.35	14.44	14.08	14.26	14.14		0
	100	0	14.39	14.46	14.12	14.28	14.20		0
16QAM	1	0	14.29	14.47	14.39	14.36	14.25	0-1	0
	1	50	14.35	14.42	14.27	14.29	14.19		0
	1	99	14.42	14.45	14.25	14.19	14.15		0
	50	0	13.77	14.01	13.93	13.97	13.80	0-2	0
	50	25	13.84	13.94	13.88	13.88	13.74		0
	50	50	13.91	13.94	13.84	13.82	13.73		0
	100	0	13.88	13.97	13.90	13.87	13.79		0
64QAM	1	0	14.11	14.35	14.36	14.30	14.17	0-2	0
	1	50	14.15	14.32	14.23	14.22	14.09		0
	1	99	14.34	14.27	14.12	14.11	14.03		0
	50	0	13.78	14.00	13.94	13.94	13.77	0-3	0
	50	25	13.87	13.96	13.88	13.84	13.74		0
	50	50	13.93	13.94	13.86	13.82	13.72		0
	100	0	13.91	13.98	13.89	13.87	13.75		0

Table 8-146
LTE Band 41 PC2 Conducted Powers Ant 2b - 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	14.17	14.45	14.38	14.43	14.21	0	0	
	1	36	14.28	14.41	14.36	14.31	14.18		0-1	0
	1	74	14.37	14.40	14.26	14.27	14.17			0
	36	0	14.18	14.37	14.30	14.33	14.13	0		
	36	18	14.20	14.38	14.27	14.25	14.11	0		0
	36	37	14.24	14.34	14.24	14.21	14.09		0	
	75	0	14.23	14.37	14.29	14.26	14.15		0	
16QAM	1	0	14.17	14.45	14.33	14.35	14.21	0-1	0	
	1	36	14.28	14.27	14.31	14.23	14.19		0-2	0
	1	74	14.43	14.33	14.22	14.27	14.20			0
	36	0	13.75	13.97	13.93	13.93	13.91	0		
	36	18	13.83	13.96	13.89	13.86	13.82	0		0
	36	37	13.89	13.93	13.84	13.81	13.79		0	
	75	0	13.85	13.95	13.87	13.85	13.85		0	
64QAM	1	0	14.07	14.36	14.20	14.21	14.07	0-2	0	
	1	36	14.11	14.27	14.15	14.13	14.11		0-3	0
	1	74	14.26	14.16	14.09	14.11	14.07			0
	36	0	13.77	13.97	13.91	13.93	13.74	0		
	36	18	13.83	13.94	13.89	13.85	13.73	0		0
	36	37	13.84	13.93	13.84	13.80	13.71		0	
	75	0	13.85	13.98	13.87	13.83	13.74		0	

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Table 8-147
LTE Band 41 PC2 Conducted Powers Ant 2b - 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	14.21	14.45	14.38	14.39	14.23	0	0	
	1	25	14.26	14.39	14.32	14.28	14.17		0-1	0
	1	49	14.36	14.39	14.28	14.29	14.19			0
	25	0	14.15	14.33	14.26	14.30	14.11	0		
	25	12	14.17	14.31	14.25	14.22	14.10	0		
	25	25	14.21	14.30	14.23	14.20	14.08	0		
	50	0	14.20	14.35	14.27	14.24	14.12	0		
16QAM	1	0	14.23	14.40	14.37	14.34	14.20	0-1	0	
	1	25	14.33	14.35	14.25	14.17	14.16		0-2	0
	1	49	14.37	14.38	14.29	14.26	14.21			0
	25	0	13.79	13.93	13.87	13.93	13.75	0		
	25	12	13.80	13.90	13.84	13.80	13.72	0		
	25	25	13.85	13.89	13.85	13.81	13.70	0		
	50	0	13.82	13.92	13.85	13.82	13.73	0		
64QAM	1	0	14.12	14.33	14.29	14.25	14.13	0-2	0	
	1	25	14.13	14.26	14.19	14.15	14.08		0-3	0
	1	49	14.25	14.16	14.12	14.07	14.01			0
	25	0	13.76	13.94	13.88	13.88	13.73	0		
	25	12	13.80	13.92	13.85	13.81	13.72	0		
	25	25	13.84	13.90	13.83	13.78	13.74	0		
	50	0	13.85	13.93	13.87	13.82	13.76	0		

Table 8-148
LTE Band 41 PC2 Conducted Powers Ant 2b - 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	14.27	14.44	14.31	14.36	14.21	0	0
	1	12	14.29	14.40	14.29	14.25	14.18		0
	1	24	14.34	14.41	14.28	14.27	14.22		0
	12	0	14.20	14.34	14.23	14.27	14.13	0-1	0
	12	6	14.22	14.32	14.22	14.20	14.10		0
	12	13	14.23	14.31	14.20	14.19	14.10		0
	25	0	14.20	14.33	14.23	14.20	14.11		0
16QAM	1	0	14.25	14.41	14.27	14.36	14.22	0-1	0
	1	12	14.24	14.44	14.20	14.23	14.19		0
	1	24	14.35	14.40	14.24	14.19	14.26		0
	12	0	13.86	13.96	13.87	13.90	13.80	0-2	0
	12	6	13.85	13.95	13.85	13.84	13.78		0
	12	13	13.88	13.94	13.86	13.85	13.75		0
	25	0	13.84	13.91	13.83	13.79	13.76		0
64QAM	1	0	14.14	14.32	14.16	14.25	14.18	0-2	0
	1	12	14.07	14.25	14.17	14.13	14.07		0
	1	24	14.21	14.14	14.11	14.09	14.04		0
	12	0	13.88	13.96	13.90	13.90	13.82	0-3	0
	12	6	13.91	13.98	13.86	13.82	13.85		0
	12	13	13.90	13.95	13.88	13.81	13.81		0
	25	0	13.87	13.92	13.84	13.80	13.77		0

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Table 8-149
LTE Band 41 PC2 Conducted Powers Ant 4a - 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	14.49	14.49	14.09	14.04	14.35	0	0
	1	50	14.48	14.48	14.02	14.03	14.30		0
	1	99	14.50	14.46	13.95	14.07	14.25		0
	50	0	14.48	14.29	14.00	14.08	14.09	0-1	0
	50	25	14.48	14.26	14.01	14.05	14.07		0
	50	50	14.49	14.24	13.96	14.07	13.98		0
	100	0	14.48	14.28	13.96	14.09	14.03		0
16QAM	1	0	14.46	14.45	14.08	13.81	14.20	0-1	0
	1	50	14.31	14.31	13.93	13.92	14.12		0
	1	99	14.26	14.26	13.95	14.01	14.03		0
	50	0	13.77	13.84	13.59	13.58	13.63	0-2	0
	50	25	13.76	13.75	13.52	13.57	13.55		0
	50	50	13.70	13.73	13.50	13.51	13.56		0
	100	0	13.74	13.75	13.55	13.51	13.51		0
64QAM	1	0	14.32	14.33	14.00	13.81	14.03	0-2	0
	1	50	14.16	14.29	13.86	13.82	14.01		0
	1	99	14.05	14.11	13.88	13.97	13.96		0
	50	0	13.79	13.86	13.59	13.50	13.51	0-3	0
	50	25	13.77	13.74	13.52	13.50	13.52		0
	50	50	13.73	13.70	13.50	13.51	13.52		0
	100	0	13.72	13.76	13.51	13.50	13.51		0

Table 8-150
LTE Band 41 PC2 Conducted Powers Ant 4a - 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	14.44	14.11	13.87	13.74	13.86	0	0	
	1	36	14.36	14.09	13.84	13.78	13.82		0-1	0
	1	74	14.20	14.01	13.76	13.77	13.75			0
	36	0	14.23	14.03	13.76	13.68	13.68	0		
	36	18	14.24	13.96	13.77	13.72	13.67	0-1		0
	36	37	14.16	13.93	13.72	13.74	13.65		0	
	75	0	14.18	13.97	13.76	13.73	13.70		0	
16QAM	1	0	14.40	14.21	13.94	13.93	14.01	0-1	0	
	1	36	14.35	14.20	14.00	13.90	13.97		0-2	0
	1	74	14.24	14.15	14.03	13.99	13.95			0
	36	0	13.83	13.81	13.55	13.50	13.52	0		
	36	18	13.81	13.75	13.51	13.50	13.51	0-2		0
	36	37	13.77	13.74	13.50	13.51	13.50		0	
	75	0	13.78	13.72	13.52	13.50	13.51		0	
64QAM	1	0	14.22	14.12	13.95	13.84	13.89	0-2	0	
	1	36	14.18	14.11	13.88	13.86	13.93		0-3	0
	1	74	14.05	14.04	13.81	13.89	13.83			0
	36	0	13.86	13.86	13.56	13.50	13.50	0		
	36	18	13.84	13.77	13.55	13.52	13.51	0-3		0
	36	37	13.76	13.74	13.50	13.50	13.52		0	
	75	0	13.75	13.73	13.55	13.52	13.75		0	

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Table 8-151
LTE Band 41 PC2 Conducted Powers Ant 4a - 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	14.39	14.18	13.82	13.84	13.93	0	0
	1	25	14.28	14.14	13.91	13.86	13.90		0
	1	49	14.26	14.09	13.90	13.91	13.86		0
	25	0	14.24	14.04	13.86	13.78	13.75	0-1	0
	25	12	14.26	13.98	13.81	13.80	13.75		0
	25	25	14.17	13.97	13.81	13.82	13.73		0
	50	0	14.18	13.96	13.85	13.83	13.74		0
16QAM	1	0	14.32	14.25	14.13	13.96	14.03	0-1	0
	1	25	14.29	14.19	14.04	13.90	13.98		0
	1	49	14.22	14.09	13.97	13.95	13.96		0
	25	0	13.84	13.88	13.61	13.59	13.54	0-2	0
	25	12	13.85	13.84	13.59	13.52	13.50		0
	25	25	13.77	13.80	13.57	13.56	13.51		0
	50	0	13.79	13.81	13.60	13.54	13.51		0
64QAM	1	0	14.16	14.17	13.94	13.74	13.91	0-2	0
	1	25	14.12	14.14	13.88	13.82	13.82		0
	1	49	14.07	14.08	13.85	13.80	13.84		0
	25	0	13.83	13.90	13.65	13.50	13.51	0-3	0
	25	12	13.81	13.82	13.59	13.51	13.50		0
	25	25	13.78	13.81	13.57	13.55	13.52		0
	50	0	13.77	13.84	13.60	13.53	13.51		0

Table 8-152
LTE Band 41 PC2 Conducted Powers Ant 4a - 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	14.44	14.24	13.92	13.83	13.94	0	0
	1	12	14.41	14.17	13.86	13.86	13.93		0
	1	24	14.40	14.15	13.86	13.92	13.92		0
	12	0	14.33	14.02	13.82	13.79	13.79	0-1	0
	12	6	14.35	14.03	13.79	13.82	13.78		0
	12	13	14.32	14.01	13.78	13.83	13.77		0
	25	0	14.30	14.03	13.76	13.80	13.82		0
16QAM	1	0	14.37	14.33	14.03	13.93	14.04	0-1	0
	1	12	14.31	14.30	13.89	13.88	13.99		0
	1	24	14.28	14.22	13.94	13.97	13.97		0
	12	0	13.87	13.88	13.63	13.56	13.56	0-2	0
	12	6	13.90	13.81	13.57	13.53	13.54		0
	12	13	13.88	13.82	13.55	13.55	13.51		0
	25	0	13.85	13.77	13.56	13.53	13.53		0
64QAM	1	0	14.26	14.25	13.92	13.81	13.95	0-2	0
	1	12	14.18	14.12	13.84	13.80	13.89		0
	1	24	14.11	14.07	13.87	13.80	13.88		0
	12	0	13.89	13.80	13.60	13.56	13.57	0-3	0
	12	6	13.92	13.83	13.56	13.54	13.56		0
	12	13	13.90	13.83	13.59	13.57	13.55		0
	25	0	13.84	13.79	13.54	13.55	13.52		0

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Table 8-153
LTE Band 41 PC2 Conducted Powers Ant 4b - 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	14.95	15.00	14.96	14.84	14.82	0	0
	1	50	14.97	14.94	14.88	14.78	14.71		0
	1	99	14.98	14.96	14.87	14.83	14.67		0
	50	0	14.85	14.99	14.72	14.83	14.72	0-1	0
	50	25	14.85	14.98	14.69	14.80	14.68		0
	50	50	14.91	14.92	14.73	14.83	14.67		0
	100	0	14.90	14.92	14.72	14.84	14.72		0
16QAM	1	0	14.98	14.88	14.62	14.57	14.51	0-1	0
	1	50	14.93	14.81	14.55	14.53	14.48		0
	1	99	14.99	14.70	14.60	14.41	14.50		0
	50	0	14.48	14.22	14.03	14.06	14.02	0-2	0
	50	25	14.47	14.18	14.06	14.05	14.01		0
	50	50	14.46	14.17	14.09	14.07	14.00		0
	100	0	14.50	14.24	14.07	14.05	14.01		0
64QAM	1	0	14.88	14.69	14.50	14.46	14.43	0-2	0
	1	50	14.85	14.58	14.47	14.32	14.37		0
	1	99	14.91	14.54	14.46	14.38	14.35		0
	50	0	14.51	14.22	14.09	14.05	14.04	0-3	0
	50	25	14.48	14.17	14.08	14.04	14.02		0
	50	50	14.47	14.16	14.07	14.06	14.01		0
	100	0	14.53	14.19	14.12	14.05	14.02		0

Table 8-154
LTE Band 41 PC2 Conducted Powers Ant 4b - 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	14.93	14.86	14.52	14.51	14.40	0	0
	1	36	14.95	14.81	14.63	14.38	14.41		0
	1	74	14.92	14.77	14.59	14.33	14.41		0
	36	0	14.88	14.70	14.53	14.39	14.26	0-1	0
	36	18	14.89	14.69	14.55	14.29	14.28		0
	36	37	14.89	14.66	14.53	14.26	14.28		0
	75	0	14.91	14.69	14.56	14.31	14.27		0
16QAM	1	0	14.99	14.75	14.49	14.46	14.46	0-1	0
	1	36	14.94	14.67	14.53	14.36	14.43		0
	1	74	14.95	14.65	14.51	14.39	14.42		0
	36	0	14.44	14.20	14.11	14.06	14.04	0-2	0
	36	18	14.47	14.17	14.07	14.08	14.04		0
	36	37	14.48	14.16	14.06	14.06	14.06		0
	75	0	14.49	14.19	14.07	14.05	14.03		0
64QAM	1	0	14.82	14.64	14.40	14.33	14.34	0-2	0
	1	36	14.84	14.58	14.45	14.29	14.33		0
	1	74	14.90	14.52	14.38	14.25	14.31		0
	36	0	14.48	14.24	14.08	14.07	14.04	0-3	0
	36	18	14.47	14.19	14.07	14.05	14.03		0
	36	37	14.46	14.18	14.06	14.06	14.06		0
	75	0	14.50	14.20	14.09	14.04	14.05		0

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Table 8-155
LTE Band 41 PC2 Conducted Powers Ant 4b - 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	14.80	14.79	14.59	14.44	14.44	0	0
	1	25	14.77	14.73	14.55	14.39	14.42		0
	1	49	14.81	14.71	14.58	14.38	14.46		0
	25	0	14.72	14.63	14.49	14.37	14.30	0-1	0
	25	12	14.73	14.60	14.47	14.32	14.31		0
	25	25	14.74	14.59	14.48	14.34	14.31		0
	50	0	14.76	14.60	14.49	14.33	14.30		0
16QAM	1	0	14.96	14.70	14.55	14.35	14.44	0-1	0
	1	25	14.91	14.67	14.53	14.30	14.41		0
	1	49	14.94	14.66	14.54	14.54	14.43		0
	25	0	14.43	14.19	14.10	14.08	14.05	0-2	0
	25	12	14.45	14.18	14.06	14.06	14.05		0
	25	25	14.46	14.17	14.08	14.06	14.03		0
	50	0	14.44	14.15	14.10	14.04	14.04		0
64QAM	1	0	14.80	14.67	14.45	14.33	14.34	0-2	0
	1	25	14.78	14.61	14.32	14.22	14.30		0
	1	49	14.84	14.57	14.41	14.18	14.36		0
	25	0	14.43	14.20	14.17	14.06	14.05	0-3	0
	25	12	14.44	14.19	14.13	14.07	14.04		0
	25	25	14.45	14.18	14.15	14.05	14.04		0
	50	0	14.43	14.18	14.11	14.04	14.01		0

Table 8-156
LTE Band 41 PC2 Conducted Powers Ant 4b - 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	14.92	14.67	14.47	14.42	14.52	0	0
	1	12	14.93	14.64	14.46	14.37	14.51		0
	1	24	14.96	14.65	14.46	14.37	14.54		0
	12	0	14.82	14.54	14.35	14.34	14.35	0-1	0
	12	6	14.81	14.51	14.33	14.31	14.34		0
	12	13	14.83	14.52	14.34	14.32	14.35		0
	25	0	14.83	14.52	14.37	14.31	14.37		0
16QAM	1	0	14.96	14.77	14.51	14.40	14.48	0-1	0
	1	12	14.98	14.66	14.48	14.32	14.47		0
	1	24	14.97	14.64	14.39	14.36	14.52		0
	12	0	14.52	14.24	14.06	14.06	14.03	0-2	0
	12	6	14.55	14.22	14.05	14.05	14.01		0
	12	13	14.57	14.21	14.08	14.04	14.02		0
	25	0	14.54	14.20	14.07	14.05	14.00		0
64QAM	1	0	14.88	14.61	14.44	14.32	14.43	0-2	0
	1	12	14.86	14.53	14.37	14.24	14.39		0
	1	24	14.85	14.56	14.42	14.27	14.41		0
	12	0	14.53	14.21	14.09	14.07	14.04	0-3	0
	12	6	14.58	14.20	14.05	14.06	14.05		0
	12	13	14.56	14.18	14.07	14.05	14.02		0
	25	0	14.54	14.19	14.10	14.06	14.01		0

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8.3.13 LTE Uplink Carrier Aggregation Conducted Powers

Table 8-157
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 2a

	PCC								SCC								Power			
Combination	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_7C(1)	LTE B7	20		2535.0	3100	2655.0	QPSK	50	0	LTE B7	20	20902	2515.2	2902	2635.2	QPSK	50	50	11.99	11.84
	PCC								SCC								Power			
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/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_41C (1)	LTE B41	20		39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	14.27	14.74			

Table 8-158
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 2b

	PCC									SCC								Power		LTE Single Carrier Tx Power (dBm)
Combination	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_7C (1)	LTE B7	20	21100	2535.0	3100	2655.0	QPSK	1	0	LTE B7	20	20902	2515.2	2902	2635.2	QPSK	1	99	12.26	12.30
	PCC									SCC								Power		LTE Single Carrier Tx Power (dBm)
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/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_41C (1)	LTE B41	20	40620	2593.0	QPSK	1	0	LTE B41	20	40422	2573.2	QPSK	1	99	13.95	14.22				

Table 8-159
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 4a

	PCC									SCC								Power		
Combination	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_7C (1)	LTE B7	20	21100	2535.0	3100	2655.0	QPSK	100	0	LTE B7	20	20902	2515.2	2902	2635.2	QPSK	100	0	11.59	11.88
	PCC									SCC								Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/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_41C (1)	LTE B41	20	40620	2593.0	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	13.57	13.96				

Table 8-160
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 4b

	PCC									SCC								Power		LTE Single Carrier Tx Power (dBm)
Combination	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_7C(1)	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	11.62	11.92
	PCC									SCC								Power		LTE Single Carrier Tx Power (dBm)
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/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_41C(1)	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	14.35	14.99				

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Notes:

1. 1. This device supports uplink carrier aggregation for LTE CA_7C(1) and LTE CA_41C(1) with a maximum of two 20 MHz component carriers. 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.
3. Uplink carrier aggregation is only possible when the device is operating with Power Class 3 for LTE Band 41.

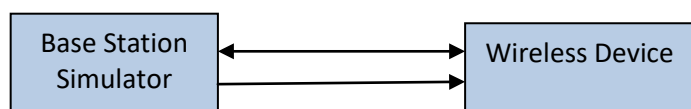


Figure 8-3
Power Measurement Setup

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8.4 WLAN Maximum Conducted Powers

8.4.1 Variant 1

Table 8-161
2.4 GHz WLAN Average RF Power – Ant 4a

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	13.61	13.73	13.75
2437	6	13.73	13.75	13.74
2462	11	13.75	13.63	13.72

Table 8-162
2.4 GHz WLAN Average RF Power – Ant 2a

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	13.74	11.98	11.99
2417	2	N/A	13.74	13.74
2437	6	13.75	13.75	13.75
2457	10	N/A	13.75	13.73
2462	11	13.68	12.00	12.00

Table 8-163
2.4 GHz WLAN Average RF Power – Ant 5

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	18.00	17.48	17.46
2417	2	N/A	18.98	18.94
2437	6	17.90	18.95	18.99
2462	11	18.00	19.00	19.00

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Table 8-164
5 GHz WLAN Average RF Power – Ant 5

5GHz (40MHz) Conducted Power [dBm]			5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode	Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n			802.11ac
		Average			Average
5190	38	13.95	5530	106	13.38
5230	46	15.47	5610	122	15.50
5270	54	17.00	5690	138	15.47
5310	62	13.88	5775	155	15.92

Table 8-165
5 GHz WLAN Average RF Power – Ant 6

5GHz (40MHz) Conducted Power [dBm]			5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode	Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n			802.11ac
		Average			Average
5190	38	14.00	5530	106	13.46
5230	46	17.00	5610	122	15.50
5270	54	16.99	5690	138	15.50
5310	62	13.92	5775	155	14.84

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8.4.2 Variant 2

Table 8-166
2.4 GHz WLAN Average RF Power – Ant 4a

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	13.75	13.55	13.60
2437	6	13.73	13.75	13.75
2462	11	13.75	13.75	13.70

Table 8-167
2.4 GHz WLAN Average RF Power – Ant 2a

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	13.75	11.90	11.75
2417	2	N/A	13.70	13.75
2437	6	13.54	13.70	13.60
2457	10	N/A	13.60	13.75
2462	11	13.55	12.00	12.00

Table 8-168
2.4 GHz WLAN Average RF Power – Ant 5

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	17.88	17.50	17.40
2417	2	N/A	18.90	19.00
2437	6	17.89	18.90	19.00
2462	11	17.87	19.00	18.90

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Table 8-169
5 GHz WLAN Average RF Power – Ant 5

5GHz (40MHz) Conducted Power [dBm]			5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode	Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n			802.11ac
		Average			Average
5190	38	14.00	5530	106	13.44
5230	46	15.50	5610	122	15.42
5270	54	16.90	5690	138	15.31
5310	62	13.80	5775	155	15.87

Table 8-170
5 GHz WLAN Average RF Power – Ant 6

5GHz (40MHz) Conducted Power [dBm]			5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode	Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n			802.11ac
		Average			Average
5190	38	14.00	5530	106	13.38
5230	46	17.00	5610	122	15.49
5270	54	16.86	5690	138	15.37
5310	62	13.75	5775	155	14.94

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8.5 WLAN Reduced Conducted Powers

8.5.1 Variant 1

Table 8-171
2.4 GHz WLAN Average RF Power – Ant 4a

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	6.73	6.65	6.55
2437	6	6.69	6.72	6.69
2462	11	6.72	6.75	6.65

Table 8-172
2.4 GHz WLAN Average RF Power – Ant 2a

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	6.75	6.64	6.68
2437	6	6.65	6.58	6.57
2462	11	6.60	6.63	6.62

Table 8-173
2.4 GHz WLAN Average RF Power – Ant 5

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	14.50	15.50	15.49
2437	6	14.44	15.48	15.50
2462	11	14.40	15.45	15.49

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Table 8-174
5 GHz WLAN Average RF Power – Ant 5

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	8.50
5290	58	10.00
5530	106	8.46
5610	122	8.44
5690	138	8.49
5775	155	8.95

Table 8-175
5 GHz WLAN Average RF Power – Ant 6

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	11.88
5290	58	11.96
5530	106	10.48
5610	122	10.45
5690	138	10.50
5775	155	10.00

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8.5.2 Variant 2

Table 8-176
2.4 GHz WLAN Average RF Power – Ant 4a

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	6.60	6.66	6.63
2437	6	6.75	6.75	6.70
2462	11	6.66	6.75	6.65

Table 8-177
2.4 GHz WLAN Average RF Power – Ant 2a

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	6.61	6.75	6.62
2437	6	6.75	6.70	6.75
2462	11	6.67	6.67	6.68

Table 8-178
2.4 GHz WLAN Average RF Power – Ant 5

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	14.33	15.43	15.42
2437	6	14.50	15.46	15.49
2462	11	14.47	15.48	15.50

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Table 8-179
5 GHz WLAN Average RF Power – Ant 5

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	8.49
5290	58	10.00
5530	106	8.45
5610	122	8.47
5690	138	8.50
5775	155	8.99

Table 8-180
5 GHz WLAN Average RF Power – Ant 6

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	11.98
5290	58	12.00
5530	106	10.49
5610	122	10.50
5690	138	10.48
5775	155	10.00

8.5.3 WLAN Power Reduction Verification Summary

Table 8-181
WLAN Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Target Power [dBm]	Reduced Target Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
			(Tolerance [dB])	(Tolerance [dB])	[dBm]	[dBm]	
ANT2A	2.4 GHz WLAN	Main Band 2a/2b ON	12.25 (±1.5)	5.25 (±1.5)	13.46	6.53	PASS
ANT4A		Main Band 4a/4b ON	12.25 (±1.5)	5.25 (±1.5)	13.38	6.56	PASS
ANT5		Main Band 2a ON	17.5 (±1.5)	14.0 (±1.5)	17.81	13.44	PASS
ANT5	5 GHz WLAN	Main Band 2a ON	15.5 (±1.5)	8.5 (±1.5)	15.12	9.84	PASS
ANT6		Main Band 3 ON	15.5 (±1.5)	10.5 (±1.5)	15.38	11.02	PASS

Conducted powers were measured for each Mode/Band and applied condition. All conducted power measurements were verified to be within tolerance.

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8.5.4 Notes for WLAN

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

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- WLAN SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN configurations.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.
- The bolded data rate and channel above were used for determining testing configuration for SAR.

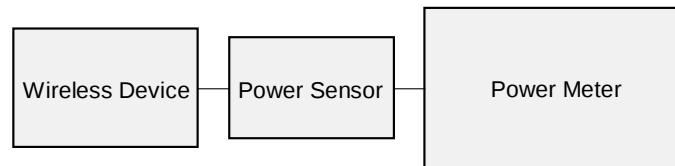


Figure 8-4
Power Measurement Setup

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8.6 Bluetooth Conducted Powers

Table 8-182
Maximum Bluetooth Average RF Power – Ant 4a - Variant 1

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	15.68	36.983
2441	1.0	GFSK	39	15.66	36.813
2480	1.0	GFSK	78	14.51	28.249

Table 8-183
Maximum Bluetooth Average RF Power – Ant 2a - Variant 1

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	14.84	30.479
2441	1.0	GFSK	39	14.26	26.669
2480	1.0	GFSK	78	13.90	24.547

Table 8-184
Maximum Bluetooth Average RF Power – Ant 5 - Variant 1

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	18.50	70.795
2441	1.0	GFSK	39	17.79	60.117
2480	1.0	GFSK	78	17.98	62.806

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Table 8-185
Maximum Bluetooth Average RF Power – Ant 4a - Variant 2

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	16.00	39.811
2441	1.0	GFSK	39	15.67	36.898
2480	1.0	GFSK	78	14.51	28.249

Table 8-186
Maximum Bluetooth Average RF Power – Ant 2a - Variant 2

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	14.85	30.549
2441	1.0	GFSK	39	14.71	29.580
2480	1.0	GFSK	0	14.68	29.376

Table 8-187
Maximum Bluetooth Average RF Power – Ant 5 - Variant 2

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1	GFSK	0	18.50	70.795
2441	1	GFSK	39	17.91	61.802
2480	1	GFSK	78	17.85	60.954

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Table 8-188
Reduced Bluetooth Average RF Power – Ant 4a - Variant 1

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	8.88	7.727
2441	1.0	GFSK	39	8.70	7.413
2480	1.0	GFSK	78	7.58	5.728

Table 8-189
Reduced Power Level 1 Bluetooth Average RF Power – Ant 2a - Variant 1

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	12.50	17.783
2441	1.0	GFSK	39	12.28	16.904
2480	1.0	GFSK	78	12.00	15.849

Table 8-190
Reduced Power Level 2 Bluetooth Average RF Power – Ant 2a - Variant 1

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	7.71	5.902
2441	1.0	GFSK	39	7.65	5.821
2480	1.0	GFSK	78	7.43	5.534

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Table 8-191
Reduced Power Level 1 Bluetooth Average RF Power – Ant 5 - Variant 1

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	16.04	40.179
2441	1.0	GFSK	39	15.56	35.975
2480	1.0	GFSK	78	15.30	33.884

Table 8-192
Reduced Power Level 2 Bluetooth Average RF Power – Ant 5 - Variant 1

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	14.09	25.645
2441	1.0	GFSK	39	14.33	27.102
2480	1.0	GFSK	78	13.91	24.604

Table 8-193
Reduced Power Level 3 Bluetooth Average RF Power – Ant 5 - Variant 1

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	12.34	17.140
2441	1.0	GFSK	39	12.50	17.783
2480	1.0	GFSK	78	12.24	16.749

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Table 8-194
Reduced Bluetooth Average RF Power – Ant 4a - Variant 2

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	8.69	7.396
2441	1.0	GFSK	39	8.37	6.871
2480	1.0	GFSK	78	6.68	4.656

Table 8-195
Reduced Power Level 1 Bluetooth Average RF Power – Ant 2a - Variant 2

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	12.11	16.255
2441	1.0	GFSK	39	12.08	16.144
2480	1.0	GFSK	78	12.50	17.783

Table 8-196
Reduced Power Level 2 Bluetooth Average RF Power – Ant 2a - Variant 2

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	7.59	5.741
2441	1.0	GFSK	39	7.50	5.623
2480	1.0	GFSK	78	7.43	5.534

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Table 8-197
Reduced Power Level 1 Bluetooth Average RF Power – Ant 5 - Variant 2

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	15.83	38.282
2441	1.0	GFSK	39	15.73	37.411
2480	1.0	GFSK	78	15.37	34.435

Table 8-198
Reduced Power Level 2 Bluetooth Average RF Power – Ant 5 - Variant 2

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	14.25	26.607
2441	1.0	GFSK	39	14.09	25.645
2480	1.0	GFSK	78	13.87	24.378

Table 8-199
Reduced Power Level 3 Bluetooth Average RF Power – Ant 5 - Variant 2

Frequency [MHz]	Data Rate [Mbps]	Modulation	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	12.30	16.982
2441	1.0	GFSK	39	12.00	15.849
2480	1.0	GFSK	78	11.90	15.488

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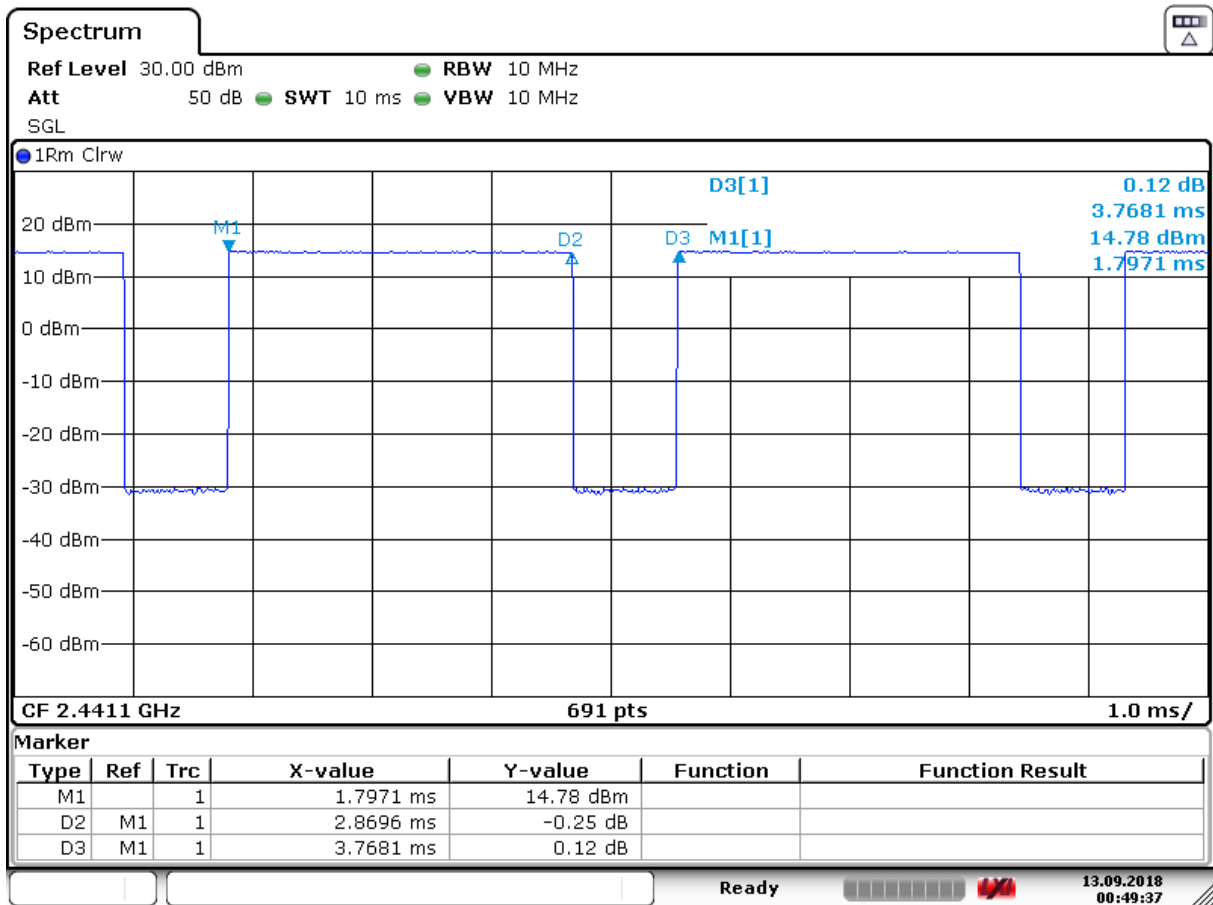


Figure 8-5
Bluetooth Transmission Plot & Duty Cycle Calculation – Ant 4a Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8696\text{ms}}{3.7681\text{ms}} * 100\% = 76.2\%$$

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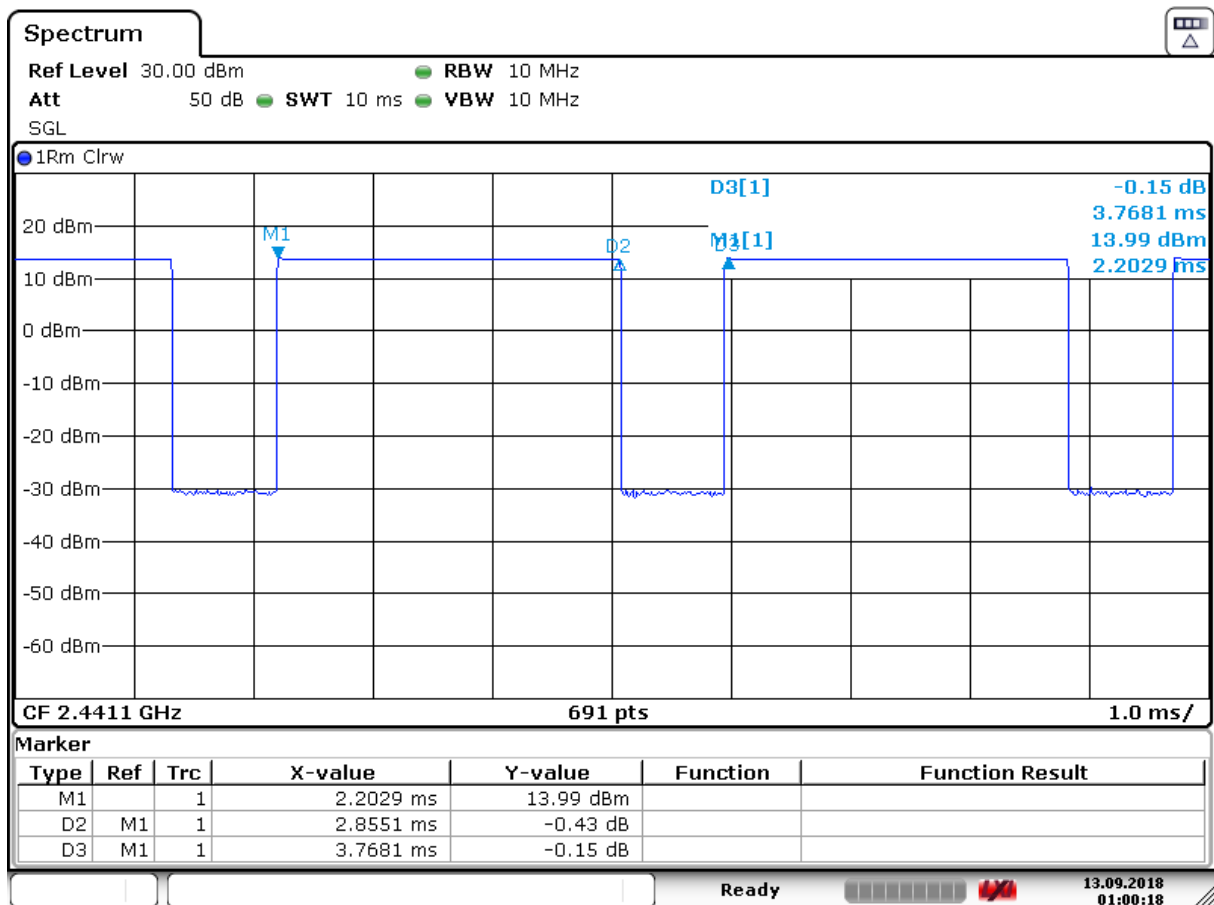


Figure 8-6
Bluetooth Transmission Plot & Duty Cycle Calculation – Ant 2a Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8551\text{ms}}{3.7681\text{ms}} * 100\% = 75.8\%$$

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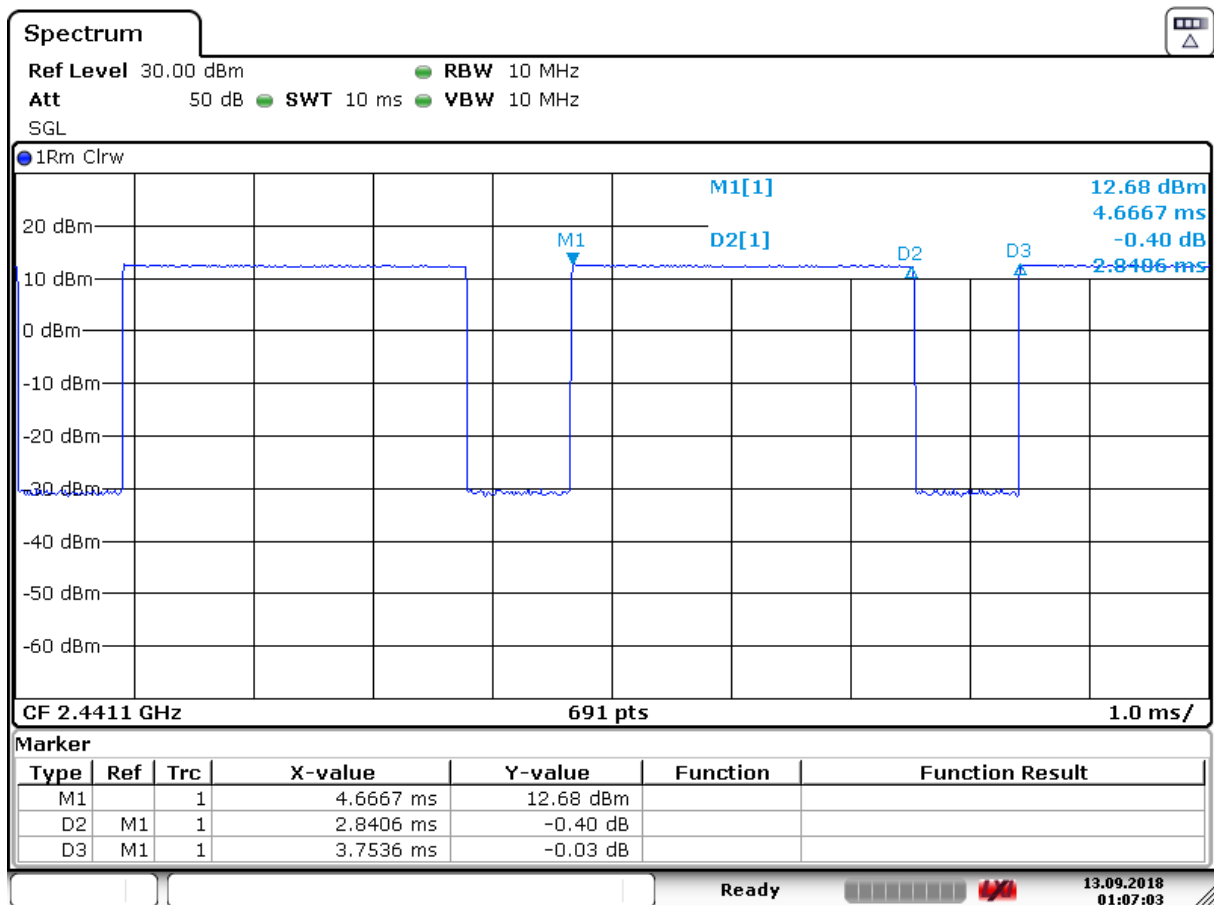


Figure 8-7
Bluetooth Transmission Plot & Duty Cycle Calculation – Ant 5 Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8406\text{ms}}{3.7536\text{ms}} * 100\% = 75.7\%$$

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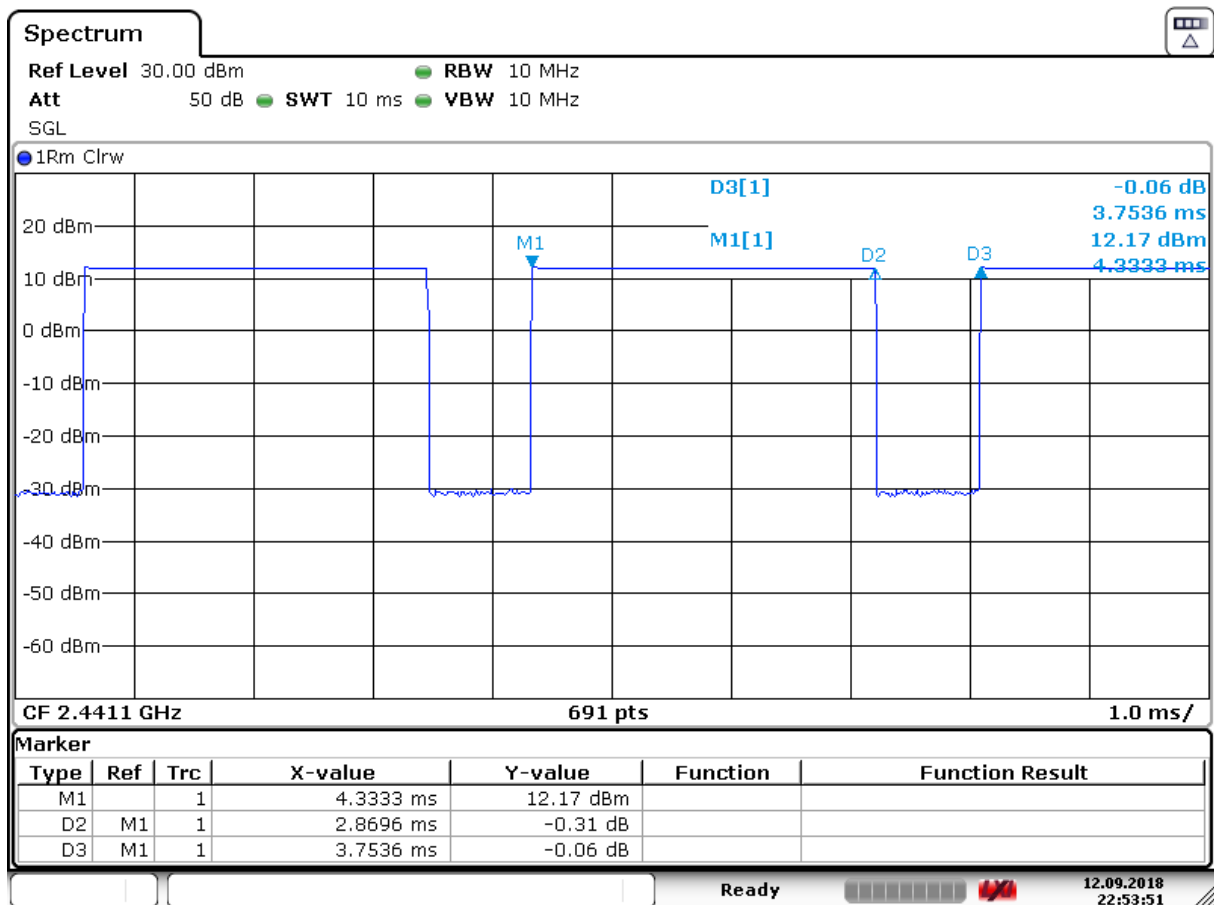


Figure 8-8
Bluetooth Transmission Plot & Duty Cycle Calculation – Ant 4a Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8696\text{ms}}{3.7536\text{ms}} * 100\% = 76.5\%$$

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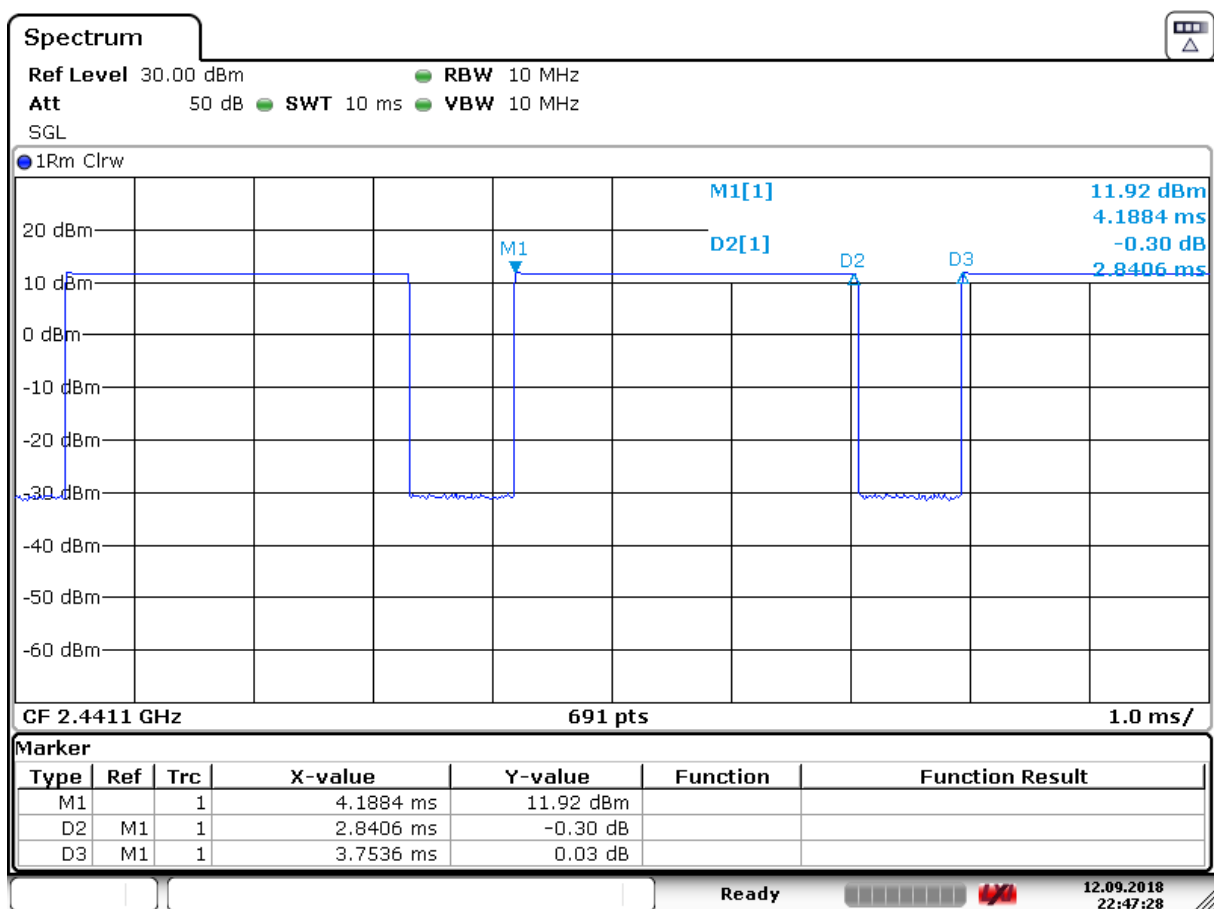


Figure 8-9
Bluetooth Transmission Plot & Duty Cycle Calculation – Ant 2a Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8406\text{ms}}{3.7536\text{ms}} * 100\% = 75.7\%$$

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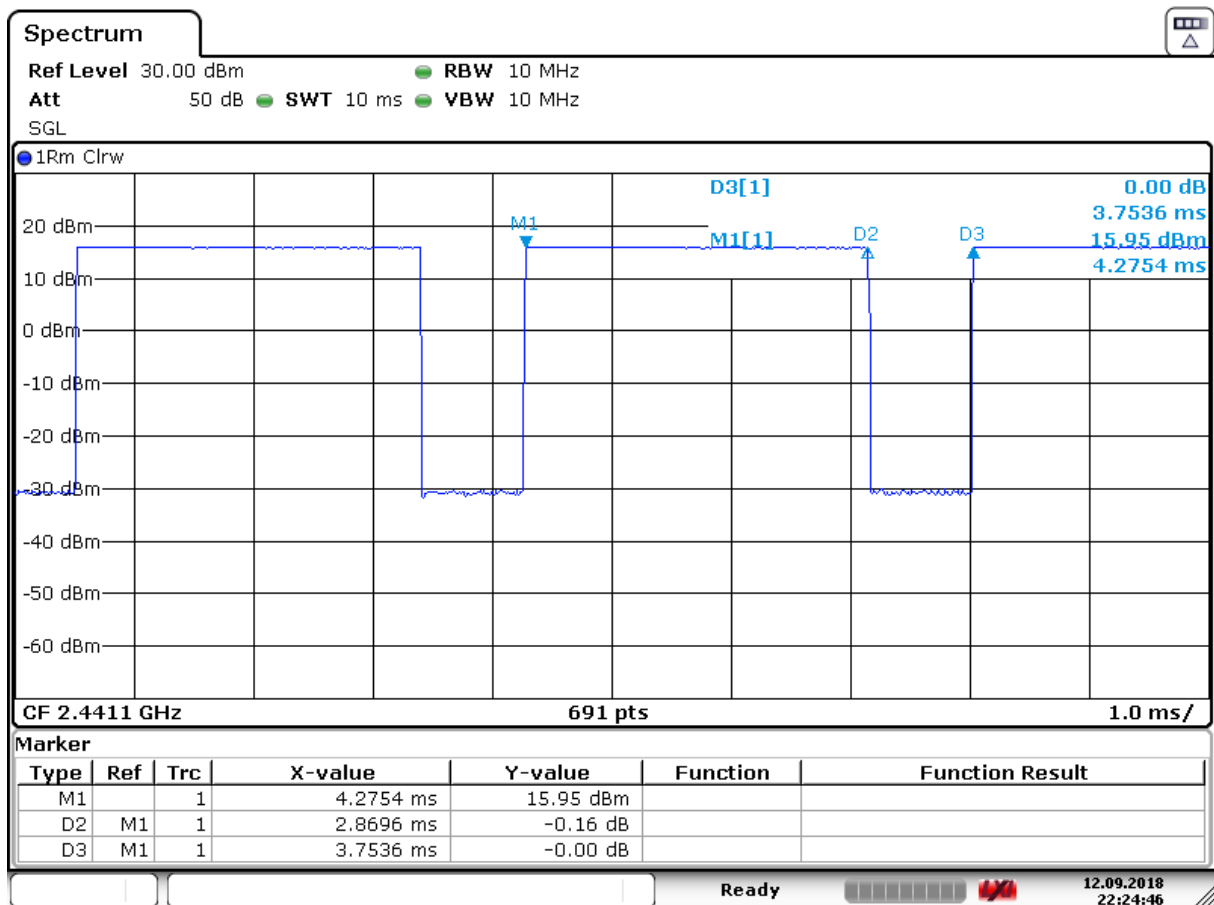


Figure 8-10
Bluetooth Transmission Plot & Duty Cycle Calculation – Ant 5 Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.8696ms}{3.7536ms} * 100\% = 76.5\%$$

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8.6.1 Bluetooth Power Reduction Verification Summary

Table 8-200
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Target Power [dBm]	Reduced Target Power [dBm]	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
			(Tolerance [dB])	(Tolerance [dB])			
ANT4A	2.4 GHz Bluetooth	Main Band ANT3/4a/4b ON	14.5 (+1.5/-2.0)	7.5 (+1.5/-2.0)	15.11	8.61	PASS
	2.4 GHz Bluetooth	5 GHz WLAN ON	13.5 (+1.5/-2.0)	11.0 (+1.5/-2.0)	14.38	11.75	PASS
ANT2A	2.4 GHz Bluetooth	Main Band ANT1/2a/2b ON	13.5 (+1.5/-2.0)	6.5 (+1.5/-2.0)	14.36	7.69	PASS
	2.4 GHz Bluetooth	5 GHz WLAN ON, Main Band ANT1/2a/2b ON	13.5 (+1.5/-2.0)	6.5 (+1.5/-2.0)	14.56	7.72	PASS
ANT5	2.4 GHz Bluetooth	Main Band ANT1/2a/2b ON	17.0 (+1.5/-2.0)	15.5 (+1.5/-2.0)	17.68	15.93	PASS
	2.4 GHz Bluetooth	5 GHz WLAN ON	17.0 (+1.5/-2.0)	13.0 (+1.5/-2.0)	17.82	13.73	PASS
	2.4 GHz Bluetooth	5 GHz WLAN ON, Main Band ANT1/2a/2b ON	17.0 (+1.5/-2.0)	11.0 (+1.5/-2.0)	17.64	11.05	PASS
	2.4 GHz Bluetooth	5 GHz WLAN ON, Main Band ANT1/2a/2b ON	17.0 (+1.5/-2.0)	11.0 (+1.5/-2.0)	17.64	11.05	PASS

Conducted powers were measured for each Mode/Band and applied condition. All conducted power measurements were verified to be within tolerance.

8.6.2 Notes for Bluetooth

- The Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- Bluetooth SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining Bluetooth configurations.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

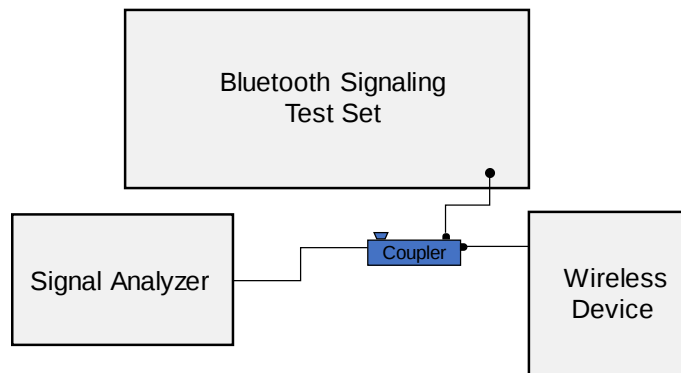


Figure 8-11
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
8/29/2018	750B	20.8	700	0.912	55.586	0.959	55.726	-4.90%	-0.25%
			710	0.922	55.481	0.960	55.687	-3.96%	-0.37%
			725	0.936	55.312	0.961	55.629	-2.60%	-0.57%
			740	0.951	55.134	0.963	55.570	-1.25%	-0.78%
			755	0.965	54.947	0.964	55.512	0.10%	-1.02%
			770	0.980	54.775	0.965	55.453	1.55%	-1.22%
			785	0.995	54.621	0.966	55.395	3.00%	-1.40%
			800	1.010	54.484	0.967	55.336	4.45%	-1.54%
9/3/2018	750B	24.5	680	0.911	55.376	0.958	55.804	-4.91%	-0.77%
			695	0.924	55.238	0.959	55.745	-3.65%	-0.91%
			710	0.938	55.096	0.960	55.687	-2.29%	-1.06%
			740	0.963	54.809	0.963	55.570	0.00%	-1.37%
			755	0.976	54.661	0.964	55.512	1.24%	-1.53%
			800	0.950	53.478	0.967	55.336	-1.76%	-3.36%
			820	0.970	53.275	0.969	55.258	0.10%	-3.59%
			835	0.984	53.125	0.970	55.200	1.44%	-3.76%
8/27/2018	835B	21.0	850	0.998	52.987	0.988	55.154	1.01%	-3.93%
			820	0.983	54.301	0.969	55.258	1.44%	-1.73%
			835	0.998	54.145	0.970	55.200	2.89%	-1.91%
			850	1.013	53.995	0.988	55.154	2.53%	-2.10%
			1710	1.511	52.270	1.463	53.537	3.28%	-2.37%
			1750	1.550	52.130	1.488	53.432	4.17%	-2.44%
			1790	1.586	51.991	1.514	53.326	4.76%	-2.50%
			1710	1.467	53.014	1.463	53.537	0.27%	-0.98%
9/3/2018	1750B	21.0	1750	1.494	52.974	1.488	53.432	0.40%	-0.86%
			1790	1.524	52.921	1.514	53.326	0.66%	-0.76%
			1850	1.463	51.258	1.520	53.300	-3.75%	-3.83%
			1880	1.492	51.186	1.520	53.300	-1.84%	-3.97%
			1910	1.520	51.116	1.520	53.300	0.00%	-4.10%
			1850	1.529	51.045	1.520	53.300	0.59%	-4.23%
			1880	1.557	50.951	1.520	53.300	2.43%	-4.41%
			1910	1.584	50.858	1.520	53.300	4.21%	-4.58%
8/30/2018	2300B	23.0	2300	1.847	51.183	1.809	52.900	2.10%	-3.25%
			2310	1.864	51.179	1.816	52.887	2.64%	-3.23%
			2320	1.876	51.133	1.826	52.873	2.74%	-3.29%
			2400	1.974	50.782	1.902	52.767	3.79%	-3.76%
			2450	2.032	50.644	1.950	52.700	4.21%	-3.90%
			2500	2.092	50.503	2.021	52.636	3.51%	-4.05%
			2400	1.940	51.166	1.902	52.767	2.00%	-3.03%
			2450	2.010	51.004	1.950	52.700	3.08%	-3.22%
9/3/2018	2450B	22.6	2500	2.081	50.799	2.021	52.636	2.97%	-3.49%
			2500	2.073	50.860	2.021	52.636	2.57%	-3.37%
			2550	2.134	50.695	2.092	52.573	2.01%	-3.57%
			2600	2.190	50.475	2.163	52.509	1.25%	-3.87%
			2500	2.085	50.655	2.021	52.636	3.17%	-3.76%
			2550	2.138	50.506	2.092	52.573	2.20%	-3.93%
			2600	2.198	50.326	2.163	52.509	1.62%	-4.16%
			5180	5.432	48.326	5.276	49.041	2.96%	-1.46%
08/13/2018	5200B-5800B	22.1	5200	5.452	48.229	5.299	49.014	2.89%	-1.60%
			5220	5.491	48.212	5.323	48.987	3.16%	-1.58%
			5240	5.528	48.186	5.346	48.960	3.40%	-1.58%
			5260	5.542	48.182	5.369	48.933	3.22%	-1.53%
			5280	5.577	48.138	5.393	48.906	3.41%	-1.57%
			5300	5.591	48.062	5.416	48.879	3.23%	-1.67%
			5320	5.615	48.032	5.439	48.851	3.24%	-1.68%
			5500	5.871	47.771	5.650	48.607	3.91%	-1.72%
			5520	5.891	47.724	5.673	48.580	3.84%	-1.76%
			5540	5.913	47.706	5.696	48.553	3.81%	-1.74%
			5560	5.951	47.655	5.720	48.526	4.04%	-1.79%
			5580	5.985	47.602	5.743	48.499	4.21%	-1.85%
			5600	6.001	47.597	5.766	48.471	4.08%	-1.80%
			5620	6.026	47.554	5.790	48.444	4.08%	-1.84%
			5640	6.061	47.531	5.813	48.417	4.27%	-1.83%
			5660	6.096	47.510	5.837	48.390	4.44%	-1.82%
			5680	6.115	47.447	5.860	48.363	4.35%	-1.89%
			5700	6.142	47.441	5.883	48.336	4.40%	-1.85%
			5745	6.205	47.376	5.936	48.275	4.53%	-1.88%
			5765	6.242	47.373	5.959	48.248	4.75%	-1.81%
			5785	6.273	47.318	5.982	48.220	4.86%	-1.87%
			5800	6.290	47.294	6.000	48.200	4.83%	-1.88%
			5805	6.295	47.288	6.006	48.193	4.81%	-1.88%
			5825	6.316	47.206	6.029	48.166	4.76%	-1.99%

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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9.2 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 E.

Table 9-2
System Verification Results

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} (%)
AM3	750	BODY	08/29/2018	21.9	20.8	0.200	1057	7416	1.800	8.790	9.000	2.39%
AM3	750	BODY	09/03/2018	22.7	23.0	0.200	1097	7416	1.780	8.560	8.900	3.97%
AM5	835	BODY	08/27/2018	21.9	21.4	0.200	4d180	7490	2.060	9.590	10.300	7.40%
AM5	835	BODY	09/02/2018	23.1	21.6	0.200	4d180	7490	1.910	9.590	9.550	-0.42%
AM7	1750	BODY	08/27/2018	23.0	21.0	0.100	1104	3329	3.730	36.600	37.300	1.91%
AM8	1750	BODY	09/03/2018	21.7	21.0	0.100	1104	3287	3.840	36.600	38.400	4.92%
AM6	1900	BODY	08/29/2018	24.0	21.9	0.100	5d180	3131	3.910	39.500	39.100	-1.01%
AM6	1900	BODY	09/03/2018	23.0	21.0	0.100	5d181	3131	4.170	39.500	41.700	5.57%
AM2	2300	BODY	08/30/2018	23.5	22.9	0.100	1038	3022	4.530	46.700	45.300	-3.00%
AM1	2450	BODY	08/08/2018	21.0	21.5	0.100	945	3275	5.110	49.400	51.100	3.44%
AM1	2450	BODY	09/03/2018	21.9	22.6	0.100	945	3275	5.110	49.400	51.100	3.44%
AM2	2600	BODY	08/27/2018	23.5	22.3	0.100	1042	3022	5.740	55.100	57.400	4.17%
AM2	2600	BODY	08/30/2018	23.5	22.9	0.100	1069	3022	5.950	55.300	59.500	7.59%
AM6	5250	BODY	08/13/2018	23.3	22.1	0.050	1163	3837	3.570	77.400	71.400	-7.75%
AM6	5600	BODY	08/13/2018	23.3	22.1	0.050	1163	3837	3.850	79.700	77.000	-3.39%
AM6	5750	BODY	08/13/2018	23.3	22.1	0.050	1163	3837	3.610	77.400	72.200	-6.72%

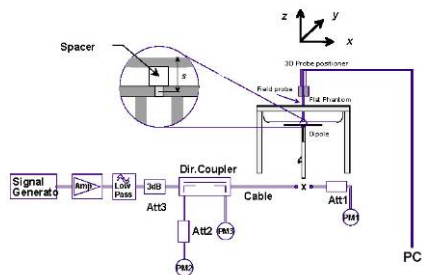


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 Standalone Body SAR Data

Table 10-1
GPRS 850 MHz Ant 1 Body SAR Data

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of GPRS Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
836.60	190	GSM 850	GPRS	26.5	25.73	-0.10	0 mm	Ant 1	DLXX402ZKR54	2	1:4.15	back	0.461	1.194	0.550	0.241	0.288	
836.60	190	GSM 850	GPRS	26.5	25.73	0.13	0 mm	Ant 1	DLXX402ZKR54	2	1:4.15	bottom	0.347	1.194	0.414	0.138	0.165	
836.60	190	GSM 850	GPRS	26.5	25.73	0.07	0 mm	Ant 1	DLXX402ZKR54	2	1:4.15	right	0.008	1.194	0.010	0.004	0.005	
824.20	128	GSM 850	GPRS	26.5	25.75	0.01	0 mm	Ant 1	DLXX402ZKR54	2	1:4.15	left	0.792	1.189	0.942	0.296	0.352	
836.60	190	GSM 850	GPRS	26.5	25.73	0.07	0 mm	Ant 1	DLXX402ZKR54	2	1:4.15	left	0.741	1.194	0.885	0.269	0.321	
848.80	251	GSM 850	GPRS	26.5	25.72	0.18	0 mm	Ant 1	DLXX402ZKR54	2	1:4.15	left	0.640	1.197	0.766	0.231	0.277	
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 10-2
GPRS 850 MHz Ant 3 Body SAR Data

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of GPRS Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
824.20	128	GSM 850	GPRS	27.7	26.90	-0.08	0 mm	Ant 3	DLXX7029L3TQ	2	1:4.15	back	0.942	1.202	1.132	0.492	0.591	A1
836.60	190	GSM 850	GPRS	27.7	26.81	-0.08	0 mm	Ant 3	DLXX7029L3TQ	2	1:4.15	back	0.811	1.227	0.995	0.422	0.518	
848.80	251	GSM 850	GPRS	27.7	26.82	-0.12	0 mm	Ant 3	DLXX7029L3TQ	2	1:4.15	back	0.696	1.225	0.853	0.356	0.436	
836.60	190	GSM 850	GPRS	27.7	26.81	-0.07	0 mm	Ant 3	DLXX7029L3TQ	2	1:4.15	top	0.431	1.227	0.529	0.162	0.199	
824.20	128	GSM 850	GPRS	27.7	26.90	0.04	0 mm	Ant 3	DLXX7029L3TQ	2	1:4.15	right	0.889	1.202	1.069	0.322	0.387	
836.60	190	GSM 850	GPRS	27.7	26.81	0.00	0 mm	Ant 3	DLXX7029L3TQ	2	1:4.15	right	0.795	1.227	0.975	0.294	0.361	
848.80	251	GSM 850	GPRS	27.7	26.82	0.00	0 mm	Ant 3	DLXX7029L3TQ	2	1:4.15	right	0.741	1.225	0.908	0.263	0.322	
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 10-3
GPRS 1900 MHz Ant 2a Body SAR Data

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of GPRS Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
1850.20	512	GSM 1900	GSM	20.3	19.48	-0.17	0 mm	Ant 2a	DLXX402ZKR54	2	1:4.15	back	0.707	1.208	0.854	0.347	0.419	
1880.00	661	GSM 1900	GSM	20.3	19.33	-0.09	0 mm	Ant 2a	DLXX402ZKR54	2	1:4.15	back	0.689	1.250	0.861	0.337	0.421	
1909.80	810	GSM 1900	GSM	20.3	19.30	-0.11	0 mm	Ant 2a	DLXX402ZKR54	2	1:4.15	back	0.659	1.259	0.830	0.318	0.400	
1880.00	661	GSM 1900	GSM	20.3	19.33	0.05	0 mm	Ant 2a	DLXX402ZKR54	2	1:4.15	bottom	0.253	1.250	0.316	0.091	0.114	
1850.20	512	GSM 1900	GSM	20.3	19.48	0.01	0 mm	Ant 2a	DLXX402ZKR54	2	1:4.15	right	0.645	1.208	0.779	0.257	0.310	
1880.00	661	GSM 1900	GSM	20.3	19.33	-0.03	0 mm	Ant 2a	DLXX402ZKR54	2	1:4.15	right	0.647	1.250	0.809	0.258	0.323	
1909.80	810	GSM 1900	GSM	20.3	19.30	-0.02	0 mm	Ant 2a	DLXX402ZKR54	2	1:4.15	right	0.604	1.259	0.760	0.239	0.301	
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 10-4
GPRS 1900 MHz Ant 2b Body SAR Data

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of GPRS Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
1850.20	512	GSM 1900	GPRS	20.0	19.20	0.00	0 mm	Ant 2b	DLXX7029L3TQ	2	1:4.15	back	0.665	1.202	0.799	0.290	0.349	
1880.00	661	GSM 1900	GPRS	20.0	19.16	-0.03	0 mm	Ant 2b	DLXX7029L3TQ	2	1:4.15	back	0.682	1.213	0.827	0.295	0.358	
1909.80	810	GSM 1900	GPRS	20.0	19.03	0.01	0 mm	Ant 2b	DLXX7029L3TQ	2	1:4.15	back	0.699	1.250	0.874	0.302	0.378	
1880.00	661	GSM 1900	GPRS	20.0	19.16	-0.03	0 mm	Ant 2b	DLXX7029L3TQ	2	1:4.15	bottom	0.537	1.213	0.651	0.209	0.254	
1880.00	661	GSM 1900	GPRS	20.0	19.16	-0.21	0 mm	Ant 2b	DLXX7029L3TQ	2	1:4.15	right	0.041	1.213	0.050	0.017	0.021	
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 10-5
GPRS 1900 MHz Ant 4a Body SAR Data

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of GPRS Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
1850.20	512	GSM 1900	GSM	21.3	20.80	-0.03	0 mm	Ant 4a	DLXX7029L3TQ	2	1:4.15	back	0.811	1.122	0.910	0.393	0.441	
1880.00	661	GSM 1900	GSM	21.3	20.77	-0.03	0 mm	Ant 4a	DLXX7029L3TQ	2	1:4.15	back	0.808	1.130	0.913	0.391	0.442	
1909.80	810	GSM 1900	GSM	21.3	20.59	-0.03	0 mm	Ant 4a	DLXX7029L3TQ	2	1:4.15	back	0.800	1.178	0.942	0.387	0.456	
1880.00	661	GSM 1900	GSM	21.3	20.77	-0.05	0 mm	Ant 4a	DLXX7029L3TQ	2	1:4.15	top	0.344	1.130	0.389	0.123	0.139	
1880.00	661	GSM 1900	GSM	21.3	20.77	0.16	0 mm	Ant 4a	DLXX7029L3TQ	2	1:4.15	right	0.000	1.130	0.000	0.000	0.000	
1850.20	512	GSM 1900	GSM	21.3	20.80	-0.02	0 mm	Ant 4a	DLXX7029L3TQ	2	1:4.15	left	0.863	1.122	0.968	0.344	0.386	
1880.00	661	GSM 1900	GSM	21.3	20.77	-0.06	0 mm	Ant 4a	DLXX7029L3TQ	2	1:4.15	left	0.900	1.130	1.017	0.355	0.401	
1909.80	810	GSM 1900	GSM	21.3	20.59	-0.02	0 mm	Ant 4a	DLXX7029L3TQ	2	1:4.15	left	0.940	1.178	1.107	0.369	0.435	A2
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 10-6
GPRS 1900 MHz Ant 4b Body SAR Data

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of GPRS Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
1850.20	512	GSM 1900	GPRS	20.5	19.70	-0.01	0 mm	Ant 4b	2DLXX402ZKR54	2	1:4.15	back	0.883	1.202	1.061	0.384	0.462	
1880.00	661	GSM 1900	GPRS	20.5	19.59	-0.10	0 mm	Ant 4b	2DLXX402ZKR54	2	1:4.15	back	0.784	1.233	0.967	0.331	0.408	
1909.80	810	GSM 1900	GPRS	20.5	19.60	-0.02	0 mm	Ant 4b	2DLXX402ZKR54	2	1:4.15	back	0.746	1.230	0.918	0.317	0.390	
1850.20	512	GSM 1900	GPRS	20.5	19.70	0.02	0 mm	Ant 4b	2DLXX402ZKR54	2	1:4.15	top	0.594	1.202	0.714	0.241	0.290	
1880.00	661	GSM 1900	GPRS	20.5	19.59	-0.05	0 mm	Ant 4b	2DLXX402ZKR54	2	1:4.15	top	0.663	1.233	0.817	0.260	0.321	
1909.80	810	GSM 1900	GPRS	20.5	19.60	-0.05	0 mm	Ant 4b	2DLXX402ZKR54	2	1:4.15	top	0.628	1.230	0.772	0.252	0.310	
1880.00	661	GSM 1900	GPRS	20.5	19.59	0.03	0 mm	Ant 4b	2DLXX402ZKR54	2	1:4.15	right	0.009	1.233	0.011	0.004	0.005	
1880.00	661	GSM 1900	GPRS	20.5	19.59	0.03	0 mm	Ant 4b	2DLXX402ZKR54	2	1:4.15	left	0.056	1.233	0.069	0.023	0.028	
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 10-7
UMTS 850 MHz Ant 1 Body SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	(W/kg)	(W/kg)	
836.60	4183	UMTS 850	RMC	20.0	19.77	0.00	0 mm	Ant 1	DLXX7029L3TQ	1:1	back	0.623	1.054	0.657	0.338	0.356	
836.60	4183	UMTS 850	RMC	20.0	19.77	0.02	0 mm	Ant 1	DLXX7029L3TQ	1:1	bottom	0.364	1.054	0.384	0.144	0.152	
836.60	4183	UMTS 850	RMC	20.0	19.77	0.03	0 mm	Ant 1	DLXX7029L3TQ	1:1	right	0.016	1.054	0.017	0.009	0.009	
826.40	4132	UMTS 850	RMC	20.0	19.64	0.00	0 mm	Ant 1	DLXX7029L3TQ	1:1	left	0.928	1.086	1.008	0.343	0.372	
836.60	4183	UMTS 850	RMC	20.0	19.77	-0.05	0 mm	Ant 1	DLXX7029L3TQ	1:1	left	0.868	1.054	0.915	0.324	0.341	
846.60	4233	UMTS 850	RMC	20.0	19.59	-0.02	0 mm	Ant 1	DLXX7029L3TQ	1:1	left	0.740	1.099	0.813	0.277	0.304	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak							Body 1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population							averaged over 1 gram										

Table 10-8
UMTS 850 MHz Ant 3 Body SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	(W/kg)	(W/kg)	
826.40	4132	UMTS 850	RMC	21.2	20.84	0.01	0 mm	Ant 3	DLXX7029L3TQ	1:1	back	0.930	1.086	1.010	0.488	0.530	
836.60	4183	UMTS 850	RMC	21.2	20.88	0.00	0 mm	Ant 3	DLXX7029L3TQ	1:1	back	1.010	1.076	1.087	0.532	0.572	A3
846.60	4233	UMTS 850	RMC	21.2	20.83	0.01	0 mm	Ant 3	DLXX7029L3TQ	1:1	back	0.968	1.089	1.054	0.508	0.553	
836.60	4183	UMTS 850	RMC	21.2	20.88	0.05	0 mm	Ant 3	DLXX7029L3TQ	1:1	top	0.492	1.076	0.529	0.190	0.204	
826.40	4132	UMTS 850	RMC	21.2	20.84	-0.07	0 mm	Ant 3	DLXX7029L3TQ	1:1	right	0.851	1.086	0.924	0.316	0.343	
836.60	4183	UMTS 850	RMC	21.2	20.88	0.03	0 mm	Ant 3	DLXX7029L3TQ	1:1	right	0.750	1.076	0.807	0.311	0.335	
846.60	4233	UMTS 850	RMC	21.2	20.83	-0.01	0 mm	Ant 3	DLXX7029L3TQ	1:1	right	0.808	1.089	0.880	0.297	0.323	
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 10-9
UMTS 1750 MHz Ant 2a Body SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	14.7	14.15	0.00	0 mm	Ant 2a	DLXX702ML3TQ	1:1	back	0.918	1.135	1.042	0.449	0.510	
1732.40	1412	UMTS 1750	RMC	14.7	14.18	0.00	0 mm	Ant 2a	DLXX702ML3TQ	1:1	back	0.936	1.127	1.055	0.458	0.516	
1752.60	1513	UMTS 1750	RMC	14.7	14.05	-0.04	0 mm	Ant 2a	DLXX702ML3TQ	1:1	back	0.959	1.161	1.113	0.470	0.546	A4
1732.40	1412	UMTS 1750	RMC	14.7	14.18	-0.01	0 mm	Ant 2a	DLXX702ML3TQ	1:1	bottom	0.238	1.127	0.268	0.096	0.108	
1712.40	1312	UMTS 1750	RMC	14.7	14.15	0.04	0 mm	Ant 2a	DLXX702ML3TQ	1:1	right	0.810	1.135	0.919	0.340	0.386	
1732.40	1412	UMTS 1750	RMC	14.7	14.18	0.00	0 mm	Ant 2a	DLXX702ML3TQ	1:1	right	0.821	1.127	0.925	0.344	0.388	
1752.60	1513	UMTS 1750	RMC	14.7	14.05	0.01	0 mm	Ant 2a	DLXX702ML3TQ	1:1	right	0.802	1.161	0.931	0.334	0.388	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak							Body 1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population							averaged over 1 gram										

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Table 10-10
UMTS 1750 MHz Ant 2b Body SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	(W/kg)		
1712.40	1312	UMTS 1750	RMC	14.3	13.69	-0.01	0 mm	Ant 2b	DLXX702ML3TQ	1:1	back	0.823	1.151	0.947	0.355	0.409	
1732.40	1412	UMTS 1750	RMC	14.3	13.75	0.01	0 mm	Ant 2b	DLXX702ML3TQ	1:1	back	0.841	1.135	0.955	0.362	0.411	
1752.60	1513	UMTS 1750	RMC	14.3	13.63	0.02	0 mm	Ant 2b	DLXX702ML3TQ	1:1	back	0.840	1.167	0.980	0.362	0.422	
1732.40	1412	UMTS 1750	RMC	14.3	13.75	0.00	0 mm	Ant 2b	DLXX702ML3TQ	1:1	bottom	0.518	1.135	0.588	0.211	0.239	
1732.40	1412	UMTS 1750	RMC	14.3	13.75	0.00	0 mm	Ant 2b	DLXX702ML3TQ	1:1	right	0.040	1.135	0.045	0.019	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 10-11
UMTS 1750 MHz Ant 4a Body SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	(W/kg)		
1712.40	1312	UMTS 1750	RMC	15.0	14.49	-0.03	0 mm	Ant 4a	DLXX702ML3TQ	1:1	back	0.852	1.125	0.959	0.415	0.467	
1732.40	1412	UMTS 1750	RMC	15.0	14.48	-0.03	0 mm	Ant 4a	DLXX702ML3TQ	1:1	back	0.883	1.127	0.995	0.429	0.483	
1752.60	1513	UMTS 1750	RMC	15.0	14.37	-0.04	0 mm	Ant 4a	DLXX702ML3TQ	1:1	back	0.863	1.156	0.998	0.420	0.486	
1732.40	1412	UMTS 1750	RMC	15.0	14.48	0.04	0 mm	Ant 4a	DLXX702ML3TQ	1:1	top	0.264	1.127	0.298	0.107	0.121	
1732.40	1412	UMTS 1750	RMC	15.0	14.48	0.03	0 mm	Ant 4a	DLXX702ML3TQ	1:1	right	0.001	1.127	0.001	0.000	0.000	
1712.40	1312	UMTS 1750	RMC	15.0	14.49	-0.03	0 mm	Ant 4a	DLXX702ML3TQ	1:1	left	0.837	1.125	0.942	0.342	0.385	
1732.40	1412	UMTS 1750	RMC	15.0	14.48	0.01	0 mm	Ant 4a	DLXX702ML3TQ	1:1	left	0.782	1.127	0.881	0.336	0.379	
1752.60	1513	UMTS 1750	RMC	15.0	14.37	0.10	0 mm	Ant 4a	DLXX702ML3TQ	1:1	left	0.847	1.156	0.979	0.350	0.405	
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 10-12
UMTS 1750 MHz Ant 4b Body SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	(W/kg)		
1712.40	1312	UMTS 1750	RMC	14.75	13.82	0.00	0 mm	Ant 4b	DLXX7021L3TQ	1:1	back	0.814	1.239	1.009	0.344	0.426	
1732.40	1412	UMTS 1750	RMC	14.75	13.96	0.02	0 mm	Ant 4b	DLXX7021L3TQ	1:1	back	0.827	1.199	0.992	0.349	0.418	
1752.60	1513	UMTS 1750	RMC	14.75	13.77	0.01	0 mm	Ant 4b	DLXX7021L3TQ	1:1	back	0.834	1.253	1.045	0.353	0.442	
1732.40	1412	UMTS 1750	RMC	14.75	13.96	0.01	0 mm	Ant 4b	DLXX7021L3TQ	1:1	top	0.630	1.199	0.755	0.262	0.314	
1732.40	1412	UMTS 1750	RMC	14.75	13.96	0.09	0 mm	Ant 4b	DLXX7021L3TQ	1:1	right	0.009	1.199	0.011	0.005	0.006	
1732.40	1412	UMTS 1750	RMC	14.75	13.96	0.01	0 mm	Ant 4b	DLXX7021L3TQ	1:1	left	0.056	1.199	0.067	0.025	0.030	
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 10-13
UMTS 1900 MHz Ant 2a Body SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	14.0	13.48	-0.01	0 mm	Ant 2a	DLXX402ZKR54	1:1	back	0.918	1.127	1.035	0.425	0.479	
1880.00	9400	UMTS 1900	RMC	14.0	13.33	-0.05	0 mm	Ant 2a	DLXX402ZKR54	1:1	back	0.949	1.167	1.107	0.436	0.509	
1907.60	9538	UMTS 1900	RMC	14.0	13.41	-0.02	0 mm	Ant 2a	DLXX402ZKR54	1:1	back	1.000	1.146	1.146	0.457	0.524	A5
1880.00	9400	UMTS 1900	RMC	14.0	13.33	-0.09	0 mm	Ant 2a	DLXX402ZKR54	1:1	bottom	0.258	1.167	0.301	0.093	0.109	
1852.40	9262	UMTS 1900	RMC	14.0	13.48	-0.01	0 mm	Ant 2a	DLXX402ZKR54	1:1	right	0.764	1.127	0.861	0.304	0.343	
1880.00	9400	UMTS 1900	RMC	14.0	13.33	-0.03	0 mm	Ant 2a	DLXX402ZKR54	1:1	right	0.747	1.167	0.872	0.307	0.358	
1907.60	9538	UMTS 1900	RMC	14.0	13.41	0.06	0 mm	Ant 2a	DLXX402ZKR54	1:1	right	0.778	1.146	0.892	0.312	0.358	
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 10-14
UMTS 1900 MHz Ant 2b Body SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)		(W/kg)	
1852.40	9262	UMTS 1900	RMC	13.7	13.15	-0.01	0 mm	Ant 2b	DLXX402ZKR54	1:1	back	0.740	1.135	0.840	0.322	0.365	
1880.00	9400	UMTS 1900	RMC	13.7	13.11	0.00	0 mm	Ant 2b	DLXX402ZKR54	1:1	back	0.773	1.146	0.886	0.333	0.382	
1907.60	9538	UMTS 1900	RMC	13.7	13.20	0.01	0 mm	Ant 2b	DLXX402ZKR54	1:1	back	0.705	1.122	0.791	0.302	0.339	
1880.00	9400	UMTS 1900	RMC	13.7	13.11	-0.04	0 mm	Ant 2b	DLXX402ZKR54	1:1	bottom	0.624	1.146	0.715	0.248	0.284	
1880.00	9400	UMTS 1900	RMC	13.7	13.11	0.04	0 mm	Ant 2b	DLXX402ZKR54	1:1	right	0.052	1.146	0.060	0.020	0.023	
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 10-15
UMTS 1900 MHz Ant 4a Body SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	(W/kg)		
1852.40	9262	UMTS 1900	RMC	15.3	14.80	0.00	0 mm	Ant 4a	DLXX402ZKR54	1:1	back	0.896	1.122	1.005	0.421	0.472	
1880.00	9400	UMTS 1900	RMC	15.3	14.71	-0.01	0 mm	Ant 4a	DLXX402ZKR54	1:1	back	0.852	1.146	0.976	0.399	0.457	
1907.60	9538	UMTS 1900	RMC	15.3	14.79	0.00	0 mm	Ant 4a	DLXX402ZKR54	1:1	back	0.841	1.125	0.946	0.391	0.440	
1880.00	9400	UMTS 1900	RMC	15.3	14.71	-0.05	0 mm	Ant 4a	DLXX402ZKR54	1:1	top	0.336	1.146	0.385	0.120	0.138	
1880.00	9400	UMTS 1900	RMC	15.3	14.71	0.20	0 mm	Ant 4a	DLXX402ZKR54	1:1	right	0.000	1.146	0.000	0.000	0.000	
1852.40	9262	UMTS 1900	RMC	15.3	14.80	0.05	0 mm	Ant 4a	DLXX402ZKR54	1:1	left	0.830	1.122	0.931	0.329	0.369	
1880.00	9400	UMTS 1900	RMC	15.3	14.71	-0.01	0 mm	Ant 4a	DLXX402ZKR54	1:1	left	0.818	1.146	0.937	0.324	0.371	
1907.60	9538	UMTS 1900	RMC	15.3	14.79	0.05	0 mm	Ant 4a	DLXX402ZKR54	1:1	left	0.829	1.125	0.933	0.329	0.370	
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 10-16
UMTS 1900 MHz Ant 4b Body SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	(W/kg)		
1852.40	9262	UMTS 1900	RMC	14.2	13.70	0.01	0 mm	Ant 4b	DLXX402ZKR54	1:1	back	0.905	1.122	1.015	0.389	0.436	
1880.00	9400	UMTS 1900	RMC	14.2	13.60	0.00	0 mm	Ant 4b	DLXX402ZKR54	1:1	back	0.903	1.148	1.037	0.388	0.445	
1907.60	9538	UMTS 1900	RMC	14.2	13.68	0.01	0 mm	Ant 4b	DLXX402ZKR54	1:1	back	0.930	1.127	1.048	0.400	0.451	
1880.00	9400	UMTS 1900	RMC	14.2	13.60	-0.06	0 mm	Ant 4b	DLXX402ZKR54	1:1	top	0.673	1.148	0.773	0.264	0.303	
1880.00	9400	UMTS 1900	RMC	14.2	13.60	0.20	0 mm	Ant 4b	DLXX402ZKR54	1:1	right	0.015	1.148	0.017	0.001	0.001	
1880.00	9400	UMTS 1900	RMC	14.2	13.60	0.05	0 mm	Ant 4b	DLXX402ZKR54	1:1	left	0.068	1.148	0.078	0.028	0.032	
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 10-17
LTE Band 71 Ant 1 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		(W/kg)		
680.50	133297	Mid	LTE Band 71	20	20.0	20.00	0.06	0	Ant 1	DLX0702ML3TQ	QPSK	1	50	0 mm	back	1:1	0.406	1.000	0.406	0.198	0.198	
680.50	133297	Mid	LTE Band 71	20	20.0	19.98	0.03	0	Ant 1	DLX0702ML3TQ	QPSK	50	25	0 mm	back	1:1	0.406	1.005	0.408	0.196	0.197	
680.50	133297	Mid	LTE Band 71	20	20.0	20.00	-0.01	0	Ant 1	DLX0702ML3TQ	QPSK	1	50	0 mm	bottom	1:1	0.446	1.000	0.446	0.159	0.159	
680.50	133297	Mid	LTE Band 71	20	20.0	19.98	-0.02	0	Ant 1	DLX0702ML3TQ	QPSK	50	25	0 mm	bottom	1:1	0.441	1.005	0.443	0.157	0.158	
680.50	133297	Mid	LTE Band 71	20	20.0	20.00	0.04	0	Ant 1	DLX0702ML3TQ	QPSK	1	50	0 mm	right	1:1	0.006	1.000	0.006	0.003	0.003	
680.50	133297	Mid	LTE Band 71	20	20.0	19.98	-0.07	0	Ant 1	DLX0702ML3TQ	QPSK	50	25	0 mm	right	1:1	0.005	1.005	0.005	0.003	0.003	
680.50	133297	Mid	LTE Band 71	20	20.0	20.00	0.01	0	Ant 1	DLX0702ML3TQ	QPSK	1	50	0 mm	left	1:1	0.949	1.000	0.949	0.274	0.274	
680.50	133297	Mid	LTE Band 71	20	20.0	19.98	0.04	0	Ant 1	DLX0702ML3TQ	QPSK	50	25	0 mm	left	1:1	0.985	1.005	0.990	0.277	0.278	
680.50	133297	Mid	LTE Band 71	20	20.0	19.97	0.01	0	Ant 1	DLX0702ML3TQ	QPSK	100	0	0 mm	left	1:1	1.000	1.007	1.007	0.283	0.285	
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 10-18
LTE Band 71 Ant 3 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
680.50	133297	Mid	LTE Band 71	20	22.2	22.20	-0.01	0	Ant 3	DLXX7021L3TQ	QPSK	1	99	0 mm	back	1:1	0.908	1.000	0.908	0.465	0.465	
680.50	133297	Mid	LTE Band 71	20	22.2	22.19	-0.01	0	Ant 3	DLXX7021L3TQ	QPSK	50	25	0 mm	back	1:1	1.110	1.002	1.112	0.562	0.563	
680.50	133297	Mid	LTE Band 71	20	22.2	22.18	-0.02	0	Ant 3	DLXX7021L3TQ	QPSK	100	0	0 mm	back	1:1	1.130	1.005	1.136	0.572	0.575	A6
680.50	133297	Mid	LTE Band 71	20	22.2	22.20	0.00	0	Ant 3	DLXX7021L3TQ	QPSK	1	99	0 mm	top	1:1	0.651	1.000	0.651	0.246	0.246	
680.50	133297	Mid	LTE Band 71	20	22.2	22.19	-0.02	0	Ant 3	DLXX7021L3TQ	QPSK	50	25	0 mm	top	1:1	0.744	1.002	0.745	0.277	0.278	
680.50	133297	Mid	LTE Band 71	20	22.2	22.20	-0.03	0	Ant 3	DLXX7021L3TQ	QPSK	1	99	0 mm	right	1:1	0.660	1.000	0.660	0.221	0.221	
680.50	133297	Mid	LTE Band 71	20	22.2	22.19	0.00	0	Ant 3	DLXX7021L3TQ	QPSK	50	25	0 mm	right	1:1	0.797	1.002	0.799	0.265	0.266	
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 10-19
LTE Band 12 Ant 1 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
707.50	23095	Mid	LTE Band 12	10	19.7	19.67	-0.01	0	Ant 1	DLXX702ML3TQ	QPSK	1	49	0 mm	back	1:1	0.664	1.007	0.669	0.337	0.339	
707.50	23095	Mid	LTE Band 12	10	19.7	19.62	-0.01	0	Ant 1	DLXX702ML3TQ	QPSK	25	0	0 mm	back	1:1	0.689	1.019	0.702	0.347	0.354	
707.50	23095	Mid	LTE Band 12	10	19.7	19.67	-0.01	0	Ant 1	DLXX702ML3TQ	QPSK	1	49	0 mm	bottom	1:1	0.537	1.007	0.541	0.180	0.181	
707.50	23095	Mid	LTE Band 12	10	19.7	19.62	-0.02	0	Ant 1	DLXX702ML3TQ	QPSK	25	0	0 mm	bottom	1:1	0.543	1.019	0.553	0.182	0.185	
707.50	23095	Mid	LTE Band 12	10	19.7	19.67	0.05	0	Ant 1	DLXX702ML3TQ	QPSK	1	49	0 mm	right	1:1	0.007	1.007	0.007	0.004	0.004	
707.50	23095	Mid	LTE Band 12	10	19.7	19.62	0.03	0	Ant 1	DLXX702ML3TQ	QPSK	25	0	0 mm	right	1:1	0.009	1.019	0.009	0.005	0.005	
707.50	23095	Mid	LTE Band 12	10	19.7	19.67	0.01	0	Ant 1	DLXX702ML3TQ	QPSK	1	49	0 mm	left	1:1	1.140	1.007	1.148	0.352	0.354	A7
707.50	23095	Mid	LTE Band 12	10	19.7	19.62	0.00	0	Ant 1	DLXX702ML3TQ	QPSK	25	0	0 mm	left	1:1	1.080	1.019	1.101	0.344	0.351	
707.50	23095	Mid	LTE Band 12	10	19.7	19.57	0.01	0	Ant 1	DLXX702ML3TQ	QPSK	50	0	0 mm	left	1:1	0.902	1.030	0.929	0.309	0.318	
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 10-20
LTE Band 12 Ant 3 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
707.50	23095	Mid	LTE Band 12	10	20.0	19.96	0.02	0	Ant 3	DLX0702L3TQ	QPSK	1	0	0 mm	back	1:1	1.050	1.009	1.059	0.544	0.549	
707.50	23095	Mid	LTE Band 12	10	20.0	19.95	0.01	0	Ant 3	DLX0702L3TQ	QPSK	25	0	0 mm	back	1:1	0.997	1.012	1.009	0.513	0.519	
707.50	23095	Mid	LTE Band 12	10	20.0	19.94	0.00	0	Ant 3	DLX0702L3TQ	QPSK	50	0	0 mm	back	1:1	0.967	1.014	0.981	0.498	0.505	
707.50	23095	Mid	LTE Band 12	10	20.0	19.96	-0.06	0	Ant 3	DLX0702L3TQ	QPSK	1	0	0 mm	top	1:1	0.514	1.009	0.519	0.197	0.199	
707.50	23095	Mid	LTE Band 12	10	20.0	19.95	0.03	0	Ant 3	DLX0702L3TQ	QPSK	25	0	0 mm	top	1:1	0.519	1.012	0.525	0.184	0.186	
707.50	23095	Mid	LTE Band 12	10	20.0	19.96	0.00	0	Ant 3	DLX0702L3TQ	QPSK	1	0	0 mm	right	1:1	0.999	1.009	1.008	0.332	0.335	
707.50	23095	Mid	LTE Band 12	10	20.0	19.95	-0.06	0	Ant 3	DLX0702L3TQ	QPSK	25	0	0 mm	right	1:1	0.933	1.012	0.944	0.307	0.311	
707.50	23095	Mid	LTE Band 12	10	20.0	19.94	-0.01	0	Ant 3	DLX0702L3TQ	QPSK	50	0	0 mm	right	1:1	0.897	1.014	0.910	0.293	0.297	
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 10-21
LTE Band 13 Ant 1 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
782.00	23230	Mid	LTE Band 13	10	21.3	21.30	0.00	0	Ant 1	DLXX702ML3TQ	QPSK	1	0	0 mm	back	1:1	0.711	1.000	0.711	0.353	0.353	
782.00	23230	Mid	LTE Band 13	10	21.3	21.17	0.00	0	Ant 1	DLXX702ML3TQ	QPSK	25	25	0 mm	back	1:1	0.660	1.030	0.680	0.327	0.337	
782.00	23230	Mid	LTE Band 13	10	21.3	21.30	0.00	0	Ant 1	DLXX702ML3TQ	QPSK	1	0	0 mm	bottom	1:1	0.607	1.000	0.607	0.232	0.232	
782.00	23230	Mid	LTE Band 13	10	21.3	21.17	0.10	0	Ant 1	DLXX702ML3TQ	QPSK	25	25	0 mm	bottom	1:1	0.573	1.030	0.590	0.215	0.221	
782.00	23230	Mid	LTE Band 13	10	21.3	21.30	-0.18	0	Ant 1	DLXX702L3TQ	QPSK	1	0	0 mm	right	1:1	0.007	1.000	0.007	0.004	0.004	
782.00	23230	Mid	LTE Band 13	10	21.3	21.17	0.04	0	Ant 1	DLXX702L3TQ	QPSK	25	25	0 mm	right	1:1	0.006	1.030	0.006	0.003	0.003	
782.00	23230	Mid	LTE Band 13	10	21.3	21.30	-0.06	0	Ant 1	DLXX702L3TQ	QPSK	1	0	0 mm	left	1:1	1.180	1.000	1.180	0.400	0.400	A8
782.00	23230	Mid	LTE Band 13	10	21.3	21.17	-0.10	0	Ant 1	DLXX702L3TQ	QPSK	25	25	0 mm	left	1:1	1.080	1.030	1.112	0.364	0.375	
782.00	23230	Mid	LTE Band 13	10	21.3	21.14	0.06	0	Ant 1	DLXX702L3TQ	QPSK	50	0	0 mm	left	1:1	1.060	1.038	1.100	0.374	0.388	
782.00	23230	Mid	LTE Band 13	10	21.3	21.30	-0.04	0	Ant 1	DLXX702L3TQ	QPSK	1	0	0 mm	left	1:1	1.130	1.000	1.130	0.399	0.399	
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 indicate variability measurements.

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Table 10-22
LTE Band 13 Ant 3 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [lg]	Scaling Factor	Reported SAR [lg]	SAR [10g]	Reported SAR [10g]	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
782.00	23230	Md	LTE Band 13	10	21.3	21.30	-0.02	0	Ant 3	DLX07021L3TQ	QPSK	1	49	0 mm	back	1:1	0.905	1.000	0.905	0.464	
782.00	23230	Md	LTE Band 13	10	21.3	21.27	-0.02	0	Ant 3	DLX07021L3TQ	QPSK	25	0	0 mm	back	1:1	1.040	1.007	1.047	0.535	0.539
782.00	23230	Md	LTE Band 13	10	21.3	21.26	-0.01	0	Ant 3	DLX07021L3TQ	QPSK	50	0	0 mm	back	1:1	1.020	1.009	1.029	0.523	0.528
782.00	23230	Md	LTE Band 13	10	21.3	21.30	-0.01	0	Ant 3	DLX07021L3TQ	QPSK	1	49	0 mm	top	1:1	0.663	1.000	0.663	0.242	0.242
782.00	23230	Md	LTE Band 13	10	21.3	21.27	-0.05	0	Ant 3	DLX07021L3TQ	QPSK	25	0	0 mm	top	1:1	0.648	1.007	0.653	0.251	0.253
782.00	23230	Md	LTE Band 13	10	21.3	21.30	-0.03	0	Ant 3	DLX07021L3TQ	QPSK	1	49	0 mm	right	1:1	0.727	1.000	0.727	0.249	0.249
782.00	23230	Md	LTE Band 13	10	21.3	21.27	-0.08	0	Ant 3	DLX07021L3TQ	QPSK	25	0	0 mm	right	1:1	0.838	1.007	0.844	0.291	0.293
782.00	23230	Md	LTE Band 13	10	21.3	21.26	0.00	0	Ant 3	DLX07021L3TQ	QPSK	50	0	0 mm	right	1:1	0.839	1.009	0.847	0.284	0.287
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 10-23
LTE Band 14 Ant 1 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
793.00	23330	Mid	LTE Band 14	10	21.3	21.21	0.21	0	Ant 1	DLX0702ML3TQ	QPSK	1	0	0 mm	back	1:1	0.836	1.021	0.854	0.433	0.442
793.00	23330	Mid	LTE Band 14	10	21.3	21.16	-0.04	0	Ant 1	DLX0702ML3TQ	QPSK	25	0	0 mm	back	1:1	0.814	1.033	0.841	0.420	0.434
793.00	23330	Mid	LTE Band 14	10	21.3	21.15	0.00	0	Ant 1	DLX0702ML3TQ	QPSK	50	0	0 mm	back	1:1	0.791	1.035	0.819	0.408	0.422
793.00	23330	Mid	LTE Band 14	10	21.3	21.21	0.04	0	Ant 1	DLX0702ML3TQ	QPSK	1	0	0 mm	bottom	1:1	0.581	1.021	0.593	0.226	0.231
793.00	23330	Mid	LTE Band 14	10	21.3	21.16	0.00	0	Ant 1	DLX0702ML3TQ	QPSK	25	0	0 mm	bottom	1:1	0.511	1.033	0.528	0.189	0.195
793.00	23330	Mid	LTE Band 14	10	21.3	21.21	0.18	0	Ant 1	DLX0702ML3TQ	QPSK	1	0	0 mm	right	1:1	0.013	1.021	0.013	0.007	0.007
793.00	23330	Mid	LTE Band 14	10	21.3	21.16	0.12	0	Ant 1	DLX0702ML3TQ	QPSK	25	0	0 mm	right	1:1	0.016	1.033	0.017	0.009	0.009
793.00	23330	Mid	LTE Band 14	10	21.3	21.21	-0.15	0	Ant 1	DLX0702ML3TQ	QPSK	1	0	0 mm	left	1:1	0.933	1.021	0.953	0.349	0.356
793.00	23330	Mid	LTE Band 14	10	21.3	21.16	-0.03	0	Ant 1	DLX0702ML3TQ	QPSK	25	0	0 mm	left	1:1	0.898	1.033	0.928	0.335	0.346
793.00	23330	Mid	LTE Band 14	10	21.3	21.15	-0.04	0	Ant 1	DLX0702ML3TQ	QPSK	50	0	0 mm	left	1:1	0.869	1.035	0.899	0.323	0.334
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 10-24
LTE Band 14 Ant 3 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
793.00	23330	Md	LTE Band 14	10	21.3	21.28	-0.03	0	Ant 3	DLX07021L3TQ	QPSK	1	0	0 mm	back	1:1	1.030	1.005	1.035	0.500	0.503	A9
793.00	23330	Md	LTE Band 14	10	21.3	21.25	-0.04	0	Ant 3	DLX07021L3TQ	QPSK	25	0	0 mm	back	1:1	0.981	1.012	0.993	0.475	0.481	
793.00	23330	Md	LTE Band 14	10	21.3	21.22	-0.01	0	Ant 3	DLX07021L3TQ	QPSK	50	0	0 mm	back	1:1	0.934	1.019	0.952	0.459	0.468	
793.00	23330	Md	LTE Band 14	10	21.3	21.28	-0.01	0	Ant 3	DLX07021L3TQ	QPSK	1	0	0 mm	top	1:1	0.645	1.005	0.648	0.247	0.248	
793.00	23330	Md	LTE Band 14	10	21.3	21.25	-0.05	0	Ant 3	DLX07021L3TQ	QPSK	25	0	0 mm	top	1:1	0.633	1.012	0.641	0.241	0.244	
793.00	23330	Md	LTE Band 14	10	21.3	21.28	-0.05	0	Ant 3	DLX07021L3TQ	QPSK	1	0	0 mm	right	1:1	0.742	1.005	0.746	0.253	0.254	
793.00	23330	Md	LTE Band 14	10	21.3	21.25	-0.06	0	Ant 3	DLX07021L3TQ	QPSK	25	0	0 mm	right	1:1	0.706	1.012	0.714	0.241	0.244	
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 10-25
LTE Band 5 (Cell) Ant 1 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.30	-0.17	0	Ant 1	DLX04022KR54	QPSK	1	49	0 mm	back	1:1	0.722	1.000	0.722	0.269	0.269	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.29	-0.18	0	Ant 1	DLX04022KR54	QPSK	25	25	0 mm	back	1:1	0.731	1.002	0.732	0.270	0.271	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.30	-0.05	0	Ant 1	DLX04022KR54	QPSK	1	49	0 mm	bottom	1:1	0.512	1.000	0.512	0.187	0.187	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.29	-0.03	0	Ant 1	DLX04022KR54	QPSK	25	25	0 mm	bottom	1:1	0.513	1.002	0.514	0.184	0.184	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.30	0.05	0	Ant 1	DLX04022KR54	QPSK	1	49	0 mm	right	1:1	0.025	1.000	0.025	0.013	0.013	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.29	0.05	0	Ant 1	DLX04022KR54	QPSK	25	25	0 mm	right	1:1	0.019	1.002	0.019	0.010	0.010	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.30	0.01	0	Ant 1	DLX04022KR54	QPSK	1	49	0 mm	left	1:1	1.130	1.000	1.130	0.379	0.379	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.29	-0.02	0	Ant 1	DLX04022KR54	QPSK	25	25	0 mm	left	1:1	1.180	1.002	1.182	0.387	0.388	A10
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.23	0.05	0	Ant 1	DLX04022KR54	QPSK	50	0	0 mm	left	1:1	1.150	1.016	1.168	0.393	0.399	
836.50	20525	Mid	LTE Band 5 (Cell)	10	20.3	20.29	-0.02	0	Ant 1	DLX04022KR54	QPSK	25	25	0 mm	left	1:1	1.110	1.002	1.112	0.385	0.386	
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: Blue entries indicate variability measurements.

Table 10-26
LTE Band 5 (Cell) Ant 3 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.4	21.40	0.00	0	Ant 3	DLX07029L3TQ	QPSK	1	49	0 mm	back	1:1	1.110	1.000	1.110	0.586	0.586	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.4	21.40	-0.04	0	Ant 3	DLX07029L3TQ	QPSK	25	25	0 mm	back	1:1	1.100	1.000	1.100	0.575	0.575	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.4	21.37	-0.01	0	Ant 3	DLX07029L3TQ	QPSK	50	0	0 mm	back	1:1	1.100	1.007	1.108	0.576	0.580	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.4	21.40	0.07	0	Ant 3	DLX07029L3TQ	QPSK	1	49	0 mm	top	1:1	0.590	1.000	0.590	0.220	0.220	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.4	21.40	0.01	0	Ant 3	DLX07029L3TQ	QPSK	25	25	0 mm	top	1:1	0.579	1.000	0.579	0.216	0.216	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.4	21.40	0.00	0	Ant 3	DLX07029L3TQ	QPSK	1	49	0 mm	right	1:1	0.916	1.000	0.916	0.347	0.347	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.4	21.40	-0.01	0	Ant 3	DLX07029L3TQ	QPSK	25	25	0 mm	right	1:1	0.917	1.000	0.917	0.347	0.347	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.4	21.37	-0.01	0	Ant 3	DLX07029L3TQ	QPSK	50	0	0 mm	right	1:1	0.949	1.007	0.956	0.357	0.359	
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 10-27
LTE Band 26 (Cell) Ant 1 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)		
844.00	26990	High	LTE Band 26 (Cell)	10	20.3	20.30	-0.10	0	Ant 1	DLX04022KR54	QPSK	1	0	0 mm	back	1:1	0.628	1.000	0.628	0.314	0.314	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.22	-0.10	0	Ant 1	DLX04022KR54	QPSK	25	0	0 mm	back	1:1	0.619	1.019	0.631	0.308	0.314	
844.00	26990	High	LTE Band 26 (Cell)	10	20.3	20.30	0.03	0	Ant 1	DLX04022KR54	QPSK	1	0	0 mm	bottom	1:1	0.589	1.000	0.589	0.211	0.211	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.22	0.02	0	Ant 1	DLX04022KR54	QPSK	25	0	0 mm	bottom	1:1	0.575	1.019	0.586	0.206	0.210	
844.00	26990	High	LTE Band 26 (Cell)	10	20.3	20.30	0.08	0	Ant 1	DLX07029L3TQ	QPSK	1	0	0 mm	right	1:1	0.024	1.000	0.024	0.012	0.012	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.22	-0.13	0	Ant 1	DLX07029L3TQ	QPSK	25	0	0 mm	right	1:1	0.020	1.019	0.020	0.010	0.010	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.24	0.00	0	Ant 1	DLX07029L3TQ	QPSK	1	0	0 mm	left	1:1	1.130	1.014	1.146	0.433	0.439	A11
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.3	20.21	0.03	0	Ant 1	DLX07029L3TQ	QPSK	1	49	0 mm	left	1:1	1.060	1.021	1.082	0.379	0.387	
844.00	26990	High	LTE Band 26 (Cell)	10	20.3	20.30	0.03	0	Ant 1	DLX07029L3TQ	QPSK	1	0	0 mm	left	1:1	0.960	1.000	0.960	0.368	0.368	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.22	0.09	0	Ant 1	DLX07029L3TQ	QPSK	25	0	0 mm	left	1:1	1.060	1.019	1.080	0.396	0.404	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.3	20.07	0.01	0	Ant 1	DLX07029L3TQ	QPSK	25	12	0 mm	left	1:1	1.030	1.054	1.086	0.383	0.404	
844.00	26990	High	LTE Band 26 (Cell)	10	20.3	20.12	-0.01	0	Ant 1	DLX07029L3TQ	QPSK	25	0	0 mm	left	1:1	0.929	1.042	0.968	0.350	0.365	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.3	20.16	-0.01	0	Ant 1	DLX07029L3TQ	QPSK	50	0	0 mm	left	1:1	1.100	1.033	1.136	0.410	0.424	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Body 1.6 W/kg (mW/g) averaged over 1 gram													
Uncontrolled Exposure/General Population																						

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Table 10-28
LTE Band 26 (Cell) Ant 3 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
819.00	26740	Low	LTE Band 26 (Cell)	10	21.4	21.40	-0.14	0	Ant 3	DLXX7029L3TQ	QPSK	1	0	0 mm	back	1:1	1.030	1.000	1.030	0.545	0.545	
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.4	21.36	0.00	0	Ant 3	DLXX7029L3TQ	QPSK	1	49	0 mm	back	1:1	1.080	1.009	1.090	0.558	0.558	0.563
844.00	26990	High	LTE Band 26 (Cell)	10	21.4	21.38	0.01	0	Ant 3	DLXX7029L3TQ	QPSK	1	0	0 mm	back	1:1	1.060	1.005	1.065	0.547	0.547	0.550
819.00	26740	Low	LTE Band 26 (Cell)	10	21.4	21.37	0.02	0	Ant 3	DLXX7029L3TQ	QPSK	25	25	0 mm	back	1:1	1.060	1.007	1.067	0.559	0.559	0.563
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.4	21.32	0.00	0	Ant 3	DLXX7029L3TQ	QPSK	25	25	0 mm	back	1:1	1.110	1.019	1.131	0.570	0.570	0.581
844.00	26990	High	LTE Band 26 (Cell)	10	21.4	21.31	-0.02	0	Ant 3	DLXX7029L3TQ	QPSK	25	0	0 mm	back	1:1	0.958	1.021	0.978	0.490	0.490	0.500
819.00	26740	Low	LTE Band 26 (Cell)	10	21.4	21.36	0.01	0	Ant 3	DLXX7029L3TQ	QPSK	50	0	0 mm	back	1:1	1.040	1.009	1.049	0.548	0.548	0.553
819.00	26740	Low	LTE Band 26 (Cell)	10	21.4	21.40	-0.08	0	Ant 3	DLXX4022KR54	QPSK	1	0	0 mm	top	1:1	0.652	1.000	0.652	0.237	0.237	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.4	21.37	-0.08	0	Ant 3	DLXX4022KR54	QPSK	25	25	0 mm	top	1:1	0.678	1.007	0.683	0.245	0.245	0.247
819.00	26740	Low	LTE Band 26 (Cell)	10	21.4	21.40	-0.01	0	Ant 3	DLXX7029L3TQ	QPSK	1	0	0 mm	right	1:1	1.010	1.000	1.010	0.385	0.385	0.385
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.4	21.36	-0.01	0	Ant 3	DLXX7029L3TQ	QPSK	1	49	0 mm	right	1:1	0.873	1.009	0.881	0.341	0.341	0.344
844.00	26990	High	LTE Band 26 (Cell)	10	21.4	21.38	-0.04	0	Ant 3	DLXX7029L3TQ	QPSK	1	0	0 mm	right	1:1	0.857	1.005	0.861	0.336	0.336	0.338
819.00	26740	Low	LTE Band 26 (Cell)	10	21.4	21.37	0.15	0	Ant 3	DLXX7029L3TQ	QPSK	25	25	0 mm	right	1:1	1.010	1.007	1.017	0.386	0.386	0.389
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.4	21.32	-0.04	0	Ant 3	DLXX7029L3TQ	QPSK	25	25	0 mm	right	1:1	0.919	1.019	0.936	0.350	0.350	0.357
844.00	26990	High	LTE Band 26 (Cell)	10	21.4	21.31	-0.01	0	Ant 3	DLXX7029L3TQ	QPSK	25	0	0 mm	right	1:1	0.916	1.021	0.935	0.354	0.354	0.361
819.00	26740	Low	LTE Band 26 (Cell)	10	21.4	21.36	-0.05	0	Ant 3	DLXX7029L3TQ	QPSK	50	0	0 mm	right	1:1	0.992	1.009	1.001	0.377	0.377	0.380
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 10-29
LTE Band 66 (AWS) Ant 2a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.7	14.59	0.05	0	Ant 2a	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1	1.020	1.026	1.047	0.534	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.7	14.69	0.02	0	Ant 2a	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1	1.040	1.002	1.042	0.521	0.522
1770.00	132572	High	LTE Band 66 (AWS)	20	14.7	14.48	0.03	0	Ant 2a	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1	1.080	1.052	1.136	0.537	0.565
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.7	14.59	-0.01	0	Ant 2a	DLX0300AKR53	QPSK	50	25	0 mm	back	1:1	0.999	1.026	1.025	0.507	0.520
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.7	14.62	0.01	0	Ant 2a	DLX0300AKR53	QPSK	50	0	0 mm	back	1:1	1.020	1.019	1.039	0.512	0.522
1770.00	132572	High	LTE Band 66 (AWS)	20	14.7	14.40	0.01	0	Ant 2a	DLX0300AKR53	QPSK	50	50	0 mm	back	1:1	1.040	1.072	1.115	0.517	0.554
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.7	14.59	0.01	0	Ant 2a	DLX0300AKR53	QPSK	100	0	0 mm	back	1:1	1.050	1.026	1.077	0.518	0.531
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.7	14.69	-0.02	0	Ant 2a	DLX0300AKR53	QPSK	1	0	0 mm	bottom	1:1	0.320	1.002	0.321	0.121	0.121
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.7	14.62	-0.01	0	Ant 2a	DLX0300AKR53	QPSK	50	0	0 mm	bottom	1:1	0.313	1.019	0.319	0.118	0.120
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.7	14.69	-0.06	0	Ant 2a	DLX0300AKR53	QPSK	1	0	0 mm	right	1:1	0.771	1.002	0.773	0.346	0.347
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.7	14.62	-0.02	0	Ant 2a	DLX0300AKR53	QPSK	50	0	0 mm	right	1:1	0.759	1.019	0.773	0.340	0.346
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 10-30
LTE Band 66 (AWS) Ant 2b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.3	14.22	-0.02	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1	1.030	1.019	1.050	0.444	0.452	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.3	14.29	-0.03	0	Ant 2b	DLX0300AKR53	QPSK	1	50	0 mm	back	1:1	1.010	1.002	1.012	0.434	0.435	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.3	14.30	-0.02	0	Ant 2b	DLX0300AKR53	QPSK	1	99	0 mm	back	1:1	1.030	1.000	1.030	0.438	0.438	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.3	14.21	-0.03	0	Ant 2b	DLX0300AKR53	QPSK	50	25	0 mm	back	1:1	1.000	1.021	1.021	0.431	0.440	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.3	14.18	-0.03	0	Ant 2b	DLX0300AKR53	QPSK	50	50	0 mm	back	1:1	0.996	1.028	1.024	0.428	0.440	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.3	14.28	-0.02	0	Ant 2b	DLX0300AKR53	QPSK	50	25	0 mm	back	1:1	1.020	1.005	1.025	0.433	0.435	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.3	14.25	-0.05	0	Ant 2b	DLX0300AKR53	QPSK	100	0	0 mm	back	1:1	1.030	1.012	1.042	0.441	0.446	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.3	14.30	0.00	0	Ant 2b	DLX0300AKR53	QPSK	1	99	0 mm	bottom	1:1	0.688	1.000	0.688	0.279	0.279	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.3	14.28	0.02	0	Ant 2b	DLX0300AKR53	QPSK	50	25	0 mm	bottom	1:1	0.664	1.005	0.667	0.269	0.270	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.3	14.30	-0.05	0	Ant 2b	DLX0300AKR53	QPSK	1	99	0 mm	right	1:1	0.040	1.000	0.040	0.018	0.018	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.3	14.28	0.00	0	Ant 2b	DLX0300AKR53	QPSK	50	25	0 mm	right	1:1	0.039	1.005	0.039	0.018	0.018	
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 10-31
LTE Band 66 (AWS) Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.0	14.90	0.01	0	Ant 4a	DLX07021L3TQ	QPSK	1	99	0 mm	back	1:1	1.130	1.023	1.156	0.556	0.569	A12
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	15.00	0.03	0	Ant 4a	DLX07021L3TQ	QPSK	1	99	0 mm	back	1:1	1.130	1.000	1.130	0.554	0.554	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.0	14.99	0.02	0	Ant 4a	DLX07021L3TQ	QPSK	1	0	0 mm	back	1:1	1.000	1.002	1.002	0.520	0.521	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.0	14.92	0.02	0	Ant 4a	DLX07021L3TQ	QPSK	50	25	0 mm	back	1:1	1.110	1.019	1.131	0.547	0.557	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	14.97	0.03	0	Ant 4a	DLX07021L3TQ	QPSK	50	0	0 mm	back	1:1	1.110	1.007	1.118	0.547	0.551	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.0	14.83	-0.01	0	Ant 4a	DLX07021L3TQ	QPSK	50	0	0 mm	back	1:1	0.990	1.040	1.030	0.508	0.528	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	14.95	0.00	0	Ant 4a	DLX07021L3TQ	QPSK	100	0	0 mm	back	1:1	1.140	1.012	1.154	0.558	0.565	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	15.00	0.07	0	Ant 4a	DLX0300AKR53	QPSK	1	99	0 mm	top	1:1	0.413	1.000	0.413	0.154	0.154	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	14.97	-0.02	0	Ant 4a	DLX0300AKR53	QPSK	50	0	0 mm	top	1:1	0.403	1.007	0.406	0.149	0.150	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	15.00	0.04	0	Ant 4a	DLX0300AKR53	QPSK	1	99	0 mm	right	1:1	0.001	1.000	0.001	0.001	0.001	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	14.97	0.07	0	Ant 4a	DLX0300AKR53	QPSK	50	0	0 mm	right	1:1	0.001	1.007	0.001	0.000	0.000	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.0	14.90	-0.02	0	Ant 4a	DLX0300AKR53	QPSK	1	99	0 mm	left	1:1	0.884	1.023	0.904	0.383	0.392	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	15.00	-0.05	0	Ant 4a	DLX0300AKR53	QPSK	1	99	0 mm	left	1:1	0.889	1.000	0.889	0.381	0.381	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.0	14.99	0.00	0	Ant 4a	DLX0300AKR53	QPSK	1	0	0 mm	left	1:1	0.917	1.002	0.919	0.392	0.393	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.0	14.92	-0.05	0	Ant 4a	DLX0300AKR53	QPSK	50	25	0 mm	left	1:1	0.872	1.019	0.889	0.376	0.383	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	14.97	-0.04	0	Ant 4a	DLX0300AKR53	QPSK	50	0	0 mm	left	1:1	0.878	1.007	0.884	0.380	0.383	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.0	14.83	-0.02	0	Ant 4a	DLX0300AKR53	QPSK	50	0	0 mm	left	1:1	0.893	1.040	0.929	0.383	0.398	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	14.95	-0.02	0	Ant 4a	DLX0300AKR53	QPSK	100	0	0 mm	left	1:1	0.880	1.012	0.891	0.379	0.384	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.0	14.95	-0.06	0	Ant 4a	DLX07021L3TQ	QPSK	100	0	0 mm	back	1:1	1.060	1.012	1.073	0.517	0.523	
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 indicate variability measurements.

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Table 10-32
LTE Band 66 (AWS) Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.41	0.02	0	Ant 4b	DLXX7021L3TQ	QPSK	1	0	0 mm	back	1:1	0.992	1.081	1.072	0.425	0.459	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.75	14.46	-0.08	0	Ant 4b	DLXX7021L3TQ	QPSK	1	0	0 mm	back	1:1	0.988	1.069	1.056	0.423	0.452	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.75	14.34	0.15	0	Ant 4b	DLXX7021L3TQ	QPSK	1	50	0 mm	back	1:1	1.000	1.099	1.099	0.433	0.476	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.33	0.03	0	Ant 4b	DLXX7021L3TQ	QPSK	50	25	0 mm	back	1:1	0.973	1.102	1.072	0.417	0.460	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.75	14.41	0.03	0	Ant 4b	DLXX7021L3TQ	QPSK	50	0	0 mm	back	1:1	0.980	1.081	1.059	0.418	0.452	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.75	14.37	0.03	0	Ant 4b	DLXX7021L3TQ	QPSK	50	25	0 mm	back	1:1	1.000	1.091	1.091	0.427	0.466	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.75	14.39	0.04	0	Ant 4b	DLXX7021L3TQ	QPSK	100	0	0 mm	back	1:1	0.995	1.086	1.081	0.428	0.465	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.41	0.01	0	Ant 4b	DLXX7021L3TQ	QPSK	1	0	0 mm	top	1:1	0.774	1.081	0.837	0.310	0.335	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.75	14.46	0.10	0	Ant 4b	DLXX7021L3TQ	QPSK	1	0	0 mm	top	1:1	0.806	1.069	0.862	0.322	0.344	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.75	14.34	0.03	0	Ant 4b	DLXX7021L3TQ	QPSK	1	50	0 mm	top	1:1	0.837	1.099	0.920	0.333	0.366	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.75	14.33	0.00	0	Ant 4b	DLXX7021L3TQ	QPSK	50	25	0 mm	top	1:1	0.771	1.102	0.850	0.307	0.338	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.75	14.41	0.03	0	Ant 4b	DLXX7021L3TQ	QPSK	50	0	0 mm	top	1:1	0.806	1.081	0.871	0.321	0.347	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.75	14.37	0.01	0	Ant 4b	DLXX7021L3TQ	QPSK	50	25	0 mm	top	1:1	0.831	1.091	0.907	0.329	0.359	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.75	14.39	0.02	0	Ant 4b	DLXX7021L3TQ	QPSK	100	0	0 mm	top	1:1	0.847	1.086	0.920	0.336	0.365	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.75	14.46	0.04	0	Ant 4b	DLXX7021L3TQ	QPSK	1	0	0 mm	right	1:1	0.008	1.069	0.009	0.004	0.004	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.75	14.41	0.03	0	Ant 4b	DLXX7021L3TQ	QPSK	50	0	0 mm	right	1:1	0.008	1.081	0.009	0.004	0.004	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.75	14.46	-0.02	0	Ant 4b	DLXX7021L3TQ	QPSK	1	0	0 mm	left	1:1	0.046	1.069	0.049	0.018	0.019	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.75	14.41	0.04	0	Ant 4b	DLXX7021L3TQ	QPSK	50	0	0 mm	left	1:1	0.045	1.081	0.049	0.017	0.018	
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 10-33
LTE Band 25 (PCS) Ant 2a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.0	13.89	0.00	0	Ant 2a	DLX04022KR54	QPSK	1	0	0 mm	back	1:1	0.960	1.026	0.985	0.459	0.471	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.0	14.00	-0.01	0	Ant 2a	DLX04022KR54	QPSK	1	0	0 mm	back	1:1	0.982	1.000	0.982	0.467	0.467	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.0	13.87	-0.01	0	Ant 2a	DLX04022KR54	QPSK	1	0	0 mm	back	1:1	1.030	1.030	1.061	0.489	0.504	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.0	13.88	0.00	0	Ant 2a	DLX04022KR54	QPSK	50	50	0 mm	back	1:1	0.916	1.028	0.942	0.436	0.448	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.0	13.91	-0.02	0	Ant 2a	DLX04022KR54	QPSK	50	0	0 mm	back	1:1	0.979	1.021	1.000	0.465	0.475	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.0	13.76	0.00	0	Ant 2a	DLX04022KR54	QPSK	50	0	0 mm	back	1:1	1.010	1.057	1.068	0.476	0.503	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.0	13.87	0.01	0	Ant 2a	DLX04022KR54	QPSK	100	0	0 mm	back	1:1	0.932	1.030	0.960	0.444	0.457	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.0	14.00	-0.05	0	Ant 2a	DLX04022KR54	QPSK	1	0	0 mm	bottom	1:1	0.294	1.000	0.294	0.110	0.110	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.0	13.91	-0.06	0	Ant 2a	DLX04022KR54	QPSK	50	0	0 mm	bottom	1:1	0.290	1.021	0.296	0.107	0.109	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.0	13.89	0.03	0	Ant 2a	DLX04022KR54	QPSK	1	0	0 mm	right	1:1	0.843	1.026	0.865	0.344	0.353	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.0	14.00	-0.06	0	Ant 2a	DLX04022KR54	QPSK	1	0	0 mm	right	1:1	0.873	1.000	0.873	0.354	0.354	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.0	13.87	0.01	0	Ant 2a	DLX04022KR54	QPSK	1	0	0 mm	right	1:1	0.888	1.030	0.915	0.360	0.371	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.0	13.88	0.00	0	Ant 2a	DLX04022KR54	QPSK	50	50	0 mm	right	1:1	0.799	1.028	0.821	0.325	0.334	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.0	13.91	-0.03	0	Ant 2a	DLX04022KR54	QPSK	50	0	0 mm	right	1:1	0.854	1.021	0.872	0.347	0.354	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.0	13.76	-0.03	0	Ant 2a	DLX04022KR54	QPSK	50	0	0 mm	right	1:1	0.867	1.057	0.916	0.349	0.369	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.0	13.87	-0.01	0	Ant 2a	DLX04022KR54	QPSK	100	0	0 mm	right	1:1	0.809	1.030	0.833	0.331	0.341	
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 10-34
LTE Band 25 (PCS) Ant 2b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.7	13.58	0.00	0	Ant 2b	DLX4022KR54	QPSK	1	0	0 mm	back	1:1	0.910	1.028	0.935	0.397	0.408	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.7	13.70	0.00	0	Ant 2b	DLX4022KR54	QPSK	1	99	0 mm	back	1:1	0.848	1.000	0.848	0.365	0.365	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.7	13.69	0.02	0	Ant 2b	DLX4022KR54	QPSK	1	0	0 mm	back	1:1	0.865	1.002	0.867	0.373	0.374	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.7	13.55	-0.01	0	Ant 2b	DLX4022KR54	QPSK	50	0	0 mm	back	1:1	0.874	1.035	0.905	0.379	0.392	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.7	13.68	0.00	0	Ant 2b	DLX4022KR54	QPSK	50	50	0 mm	back	1:1	0.837	1.005	0.841	0.359	0.361	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.7	13.61	0.01	0	Ant 2b	DLX4022KR54	QPSK	50	0	0 mm	back	1:1	0.857	1.021	0.875	0.368	0.376	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.7	13.67	-0.01	0	Ant 2b	DLX4022KR54	QPSK	100	0	0 mm	back	1:1	0.870	1.007	0.876	0.373	0.376	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.7	13.70	-0.05	0	Ant 2b	DLX4022KR54	QPSK	1	99	0 mm	bottom	1:1	0.742	1.000	0.742	0.288	0.288	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.7	13.68	-0.07	0	Ant 2b	DLX4022KR54	QPSK	50	50	0 mm	bottom	1:1	0.720	1.005	0.724	0.279	0.280	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.7	13.70	0.01	0	Ant 2b	DLX4022KR54	QPSK	1	99	0 mm	right	1:1	0.051	1.000	0.051	0.021	0.021	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.7	13.68	-0.02	0	Ant 2b	DLX4022KR54	QPSK	50	50	0 mm	right	1:1	0.046	1.005	0.046	0.019	0.019	
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 10-35
LTE Band 25 (PCS) Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.28	0.03	0	Ant 4a	DLX4022KR54	QPSK	1	0	0 mm	back	1:1	1.110	1.005	1.116	0.507	0.510	A13
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.3	15.02	0.01	0	Ant 4a	DLX4022KR54	QPSK	1	0	0 mm	back	1:1	1.100	1.067	1.174	0.498	0.531	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.3	15.14	0.00	0	Ant 4a	DLX4022KR54	QPSK	1	0	0 mm	back	1:1	1.060	1.038	1.100	0.474	0.492	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.10	0.01	0	Ant 4a	DLX4022KR54	QPSK	50	0	0 mm	back	1:1	1.090	1.047	1.141	0.496	0.519	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.3	14.96	0.01	0	Ant 4a	DLX4022KR54	QPSK	50	25	0 mm	back	1:1	1.030	1.081	1.113	0.464	0.502	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.3	14.95	0.02	0	Ant 4a	DLX4022KR54	QPSK	50	0	0 mm	back	1:1	1.040	1.084	1.127	0.463	0.502	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.05	0.00	0	Ant 4a	DLX4022KR54	QPSK	100	0	0 mm	back	1:1	1.080	1.059	1.144	0.487	0.516	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.28	0.00	0	Ant 4a	DLX4022KR54	QPSK	1	0	0 mm	top	1:1	0.426	1.005	0.428	0.156	0.157	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.10	0.02	0	Ant 4a	DLX4022KR54	QPSK	50	0	0 mm	top	1:1	0.413	1.047	0.432	0.151	0.158	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.28	0.04	0	Ant 4a	DLX4022KR54	QPSK	1	0	0 mm	right	1:1	0.003	1.005	0.003	0.001	0.001	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.10	-0.14	0	Ant 4a	DLX4022KR54	QPSK	50	0	0 mm	right	1:1	0.003	1.047	0.003	0.001	0.001	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.28	-0.01	0	Ant 4a	DLX4022KR54	QPSK	1	0	0 mm	left	1:1	0.943	1.005	0.948	0.385	0.387	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.3	15.02	0.00	0	Ant 4a	DLX4022KR54	QPSK	1	0	0 mm	left	1:1	0.930	1.067	0.992	0.378	0.403	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.3	15.14	0.03	0	Ant 4a	DLX4022KR54	QPSK	1	0	0 mm	left	1:1	0.887	1.038	0.921	0.362	0.376	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.10	-0.04	0	Ant 4a	DLX4022KR54	QPSK	50	0	0 mm	left	1:1	0.921	1.047	0.964	0.374	0.392	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.3	14.96	-0.02	0	Ant 4a	DLX4022KR54	QPSK	50	25	0 mm	left	1:1	0.867	1.081	0.937	0.352	0.381	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.3	14.95	-0.02	0	Ant 4a	DLX4022KR54	QPSK	50	0	0 mm	left	1:1	0.866	1.084	0.939	0.351	0.380	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.05	0.02	0	Ant 4a	DLX4022KR54	QPSK	100	0	0 mm	left	1:1	0.995	1.059	0.948	0.365	0.387	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.3	15.28	-0.15	0	Ant 4a	DLX4022KR54	QPSK	1	0	0 mm	back	1:1	1.000	1.005	1.005	0.429	0.431	
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 indicate variability measurements.

FCC ID: BCGA2013		SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 10-36
LTE Band 25 (PCS) Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.2	14.12	0.03	0	Ant 4b	DLX0402ZKR54	QPSK	1	0	0 mm	back	1:1	1.010	1.019	1.029	0.436	0.444	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.2	14.16	0.00	0	Ant 4b	DLX0402ZKR54	QPSK	1	0	0 mm	back	1:1	1.070	1.009	1.080	0.463	0.467	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.2	14.09	0.04	0	Ant 4b	DLX0402ZKR54	QPSK	1	0	0 mm	back	1:1	1.070	1.026	1.098	0.460	0.472	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.2	14.03	0.02	0	Ant 4b	DLX0402ZKR54	QPSK	50	0	0 mm	back	1:1	1.030	1.040	1.071	0.442	0.460	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.2	14.10	0.03	0	Ant 4b	DLX0402ZKR54	QPSK	50	50	0 mm	back	1:1	1.020	1.023	1.043	0.440	0.450	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.2	14.08	0.03	0	Ant 4b	DLX0402ZKR54	QPSK	50	25	0 mm	back	1:1	1.030	1.028	1.059	0.443	0.455	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.2	14.09	0.03	0	Ant 4b	DLX0402ZKR54	QPSK	100	0	0 mm	back	1:1	1.050	1.026	1.077	0.453	0.465	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.2	14.12	-0.09	0	Ant 4b	DLX0402ZKR54	QPSK	1	0	0 mm	top	1:1	0.784	1.019	0.799	0.312	0.318	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.2	14.16	-0.07	0	Ant 4b	DLX0402ZKR54	QPSK	1	0	0 mm	top	1:1	0.807	1.009	0.814	0.318	0.321	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.2	14.09	-0.03	0	Ant 4b	DLX0402ZKR54	QPSK	1	0	0 mm	top	1:1	0.792	1.026	0.813	0.311	0.319	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.2	14.10	-0.11	0	Ant 4b	DLX0402ZKR54	QPSK	50	50	0 mm	top	1:1	0.769	1.023	0.787	0.301	0.308	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.2	14.09	-0.06	0	Ant 4b	DLX0402ZKR54	QPSK	100	0	0 mm	top	1:1	0.784	1.026	0.804	0.305	0.313	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.2	14.16	0.15	0	Ant 4b	DLX0402ZKR54	QPSK	1	0	0 mm	right	1:1	0.010	1.009	0.010	0.005	0.005	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.2	14.10	0.02	0	Ant 4b	DLX0402ZKR54	QPSK	50	50	0 mm	right	1:1	0.011	1.023	0.011	0.006	0.006	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.2	14.16	-0.08	0	Ant 4b	DLX0402ZKR54	QPSK	1	0	0 mm	left	1:1	0.071	1.009	0.072	0.029	0.029	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.2	14.10	0.08	0	Ant 4b	DLX0402ZKR54	QPSK	50	50	0 mm	left	1:1	0.068	1.023	0.070	0.028	0.029	
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 10-37
LTE Band 30 Ant 2a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
2310.00	27710	Mid	LTE Band 30	10	12.6	12.57	-0.08	0	Ant 2a	DLXX7021L3TQ	QPSK	1	49	0 mm	back	1:1	1.030	1.007	1.037	0.471	0.474	
2310.00	27710	Mid	LTE Band 30	10	12.6	12.55	-0.03	0	Ant 2a	DLXX7021L3TQ	QPSK	25	0	0 mm	back	1:1	1.010	1.012	1.022	0.459	0.465	
2310.00	27710	Mid	LTE Band 30	10	12.6	12.53	0.00	0	Ant 2a	DLXX7021L3TQ	QPSK	50	0	0 mm	back	1:1	1.030	1.016	1.046	0.468	0.475	
2310.00	27710	Mid	LTE Band 30	10	12.6	12.57	0.03	0	Ant 2a	DLXX7021L3TQ	QPSK	1	49	0 mm	bottom	1:1	0.386	1.007	0.389	0.117	0.118	
2310.00	27710	Mid	LTE Band 30	10	12.6	12.55	-0.20	0	Ant 2a	DLXX7021L3TQ	QPSK	25	0	0 mm	bottom	1:1	0.377	1.012	0.382	0.114	0.115	
2310.00	27710	Mid	LTE Band 30	10	12.6	12.57	-0.10	0	Ant 2a	DLXX7021L3TQ	QPSK	1	49	0 mm	right	1:1	0.661	1.007	0.666	0.239	0.241	
2310.00	27710	Mid	LTE Band 30	10	12.6	12.55	0.02	0	Ant 2a	DLXX7021L3TQ	QPSK	25	0	0 mm	right	1:1	0.635	1.012	0.643	0.230	0.233	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram														

FCC ID: BCGA2013		SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 10-38
LTE Band 30 Ant 2b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)	(W/kg)		
2310.00	27710	Mid	LTE Band 30	10	13.4	12.86	-0.09	0	Ant 2b	DLXX7021L3TQ	QPSK	1	0	0 mm	back	1:1	0.976	1.132	1.105	0.363	0.411	
2310.00	27710	Mid	LTE Band 30	10	13.4	12.83	-0.03	0	Ant 2b	DLXX7021L3TQ	QPSK	25	0	0 mm	back	1:1	0.948	1.140	1.081	0.351	0.400	
2310.00	27710	Mid	LTE Band 30	10	13.4	12.79	-0.02	0	Ant 2b	DLXX7021L3TQ	QPSK	50	0	0 mm	back	1:1	0.958	1.151	1.103	0.355	0.409	
2310.00	27710	Mid	LTE Band 30	10	13.4	12.86	-0.03	0	Ant 2b	DLXX7021L3TQ	QPSK	1	0	0 mm	bottom	1:1	0.576	1.132	0.652	0.214	0.242	
2310.00	27710	Mid	LTE Band 30	10	13.4	12.83	0.01	0	Ant 2b	DLXX7021L3TQ	QPSK	25	0	0 mm	bottom	1:1	0.563	1.140	0.642	0.209	0.238	
2310.00	27710	Mid	LTE Band 30	10	13.4	12.86	0.03	0	Ant 2b	DLXX7021L3TQ	QPSK	1	0	0 mm	right	1:1	0.038	1.132	0.043	0.016	0.018	
2310.00	27710	Mid	LTE Band 30	10	13.4	12.83	0.11	0	Ant 2b	DLXX7021L3TQ	QPSK	25	0	0 mm	right	1:1	0.037	1.140	0.042	0.015	0.017	
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 10-39
LTE Band 30 Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
2310.00	27710	Mid	LTE Band 30	10	13.5	13.45	-0.10	0	Ant 4a	DLX07029L3TQ	QPSK	1	49	0 mm	back	1:1	1.030	1.012	1.042	0.491	0.497	
2310.00	27710	Mid	LTE Band 30	10	13.5	13.44	-0.05	0	Ant 4a	DLX07029L3TQ	QPSK	25	25	0 mm	back	1:1	1.030	1.014	1.044	0.493	0.500	
2310.00	27710	Mid	LTE Band 30	10	13.5	13.40	-0.09	0	Ant 4a	DLX07029L3TQ	QPSK	50	0	0 mm	back	1:1	1.040	1.023	1.064	0.500	0.512	A14
2310.00	27710	Mid	LTE Band 30	10	13.5	13.45	-0.01	0	Ant 4a	DLX07029L3TQ	QPSK	1	49	0 mm	top	1:1	0.337	1.012	0.341	0.104	0.105	
2310.00	27710	Mid	LTE Band 30	10	13.5	13.44	-0.03	0	Ant 4a	DLX07029L3TQ	QPSK	25	25	0 mm	top	1:1	0.333	1.014	0.338	0.103	0.104	
2310.00	27710	Mid	LTE Band 30	10	13.5	13.45	0.14	0	Ant 4a	DLX07029L3TQ	QPSK	1	49	0 mm	right	1:1	0.003	1.012	0.003	0.001	0.001	
2310.00	27710	Mid	LTE Band 30	10	13.5	13.44	0.20	0	Ant 4a	DLX07029L3TQ	QPSK	25	25	0 mm	right	1:1	0.003	1.014	0.003	0.001	0.001	
2310.00	27710	Mid	LTE Band 30	10	13.5	13.45	0.05	0	Ant 4a	DLX07029L3TQ	QPSK	1	49	0 mm	left	1:1	0.633	1.012	0.641	0.235	0.238	
2310.00	27710	Mid	LTE Band 30	10	13.5	13.44	0.02	0	Ant 4a	DLX07029L3TQ	QPSK	25	25	0 mm	left	1:1	0.646	1.014	0.655	0.239	0.242	
2310.00	27710	Mid	LTE Band 30	10	13.5	13.40	-0.01	0	Ant 4a	DLX07029L3TQ	QPSK	50	0	0 mm	back	1:1	0.989	1.023	1.012	0.442	0.452	
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 indicate variability measurements.

Table 10-40
LTE Band 30 Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
2310.00	27710	Mid	LTE Band 30	10	13.7	13.18	-0.20	0	Ant 4b	DLXX7029L3TQ	QPSK	1	49	0 mm	back	1:1	0.920	1.127	1.037	0.348	0.392	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.11	-0.15	0	Ant 4b	DLXX7029L3TQ	QPSK	25	25	0 mm	back	1:1	0.901	1.146	1.033	0.340	0.390	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.10	-0.12	0	Ant 4b	DLXX7029L3TQ	QPSK	50	0	0 mm	back	1:1	0.901	1.148	1.034	0.340	0.390	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.18	-0.01	0	Ant 4b	DLXX7029L3TQ	QPSK	1	49	0 mm	top	1:1	0.734	1.127	0.827	0.266	0.300	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.11	-0.03	0	Ant 4b	DLXX7029L3TQ	QPSK	25	25	0 mm	top	1:1	0.723	1.146	0.829	0.261	0.299	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.10	-0.04	0	Ant 4b	DLXX7029L3TQ	QPSK	50	0	0 mm	top	1:1	0.742	1.148	0.852	0.265	0.304	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.18	0.05	0	Ant 4b	DLXX7029L3TQ	QPSK	1	49	0 mm	right	1:1	0.021	1.127	0.024	0.008	0.009	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.11	-0.06	0	Ant 4b	DLXX7029L3TQ	QPSK	25	25	0 mm	right	1:1	0.021	1.146	0.024	0.008	0.009	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.18	0.03	0	Ant 4b	DLXX7029L3TQ	QPSK	1	49	0 mm	left	1:1	0.050	1.127	0.056	0.020	0.023	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.11	-0.09	0	Ant 4b	DLXX7029L3TQ	QPSK	25	25	0 mm	left	1:1	0.048	1.146	0.055	0.019	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 10-41
LTE Band 7 Ant 2a Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink 2CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dntr [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.0	12.00	-0.03	0	Ant 2a	DLX0702M.3TQ	QPSK	1	0	0 mm	back	1:1	1.080	1.000	1.080	0.465	0.465	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.99	-0.03	0	Ant 2a	DLX0702M.3TQ	QPSK	1	0	0 mm	back	1:1	1.070	1.002	1.072	0.450	0.451	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.0	11.99	-0.09	0	Ant 2a	DLX0702M.3TQ	QPSK	1	99	0 mm	back	1:1	1.080	1.002	1.082	0.454	0.455	
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.0	12.00	-0.03	0	Ant 2a	DLX0702M.3TQ	QPSK	50	50	0 mm	back	1:1	0.971	1.000	0.971	0.412	0.412	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.84	-0.03	0	Ant 2a	DLX0702M.3TQ	QPSK	50	0	0 mm	back	1:1	1.050	1.038	1.090	0.441	0.458	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.0	11.99	0.02	0	Ant 2a	DLX0702M.3TQ	QPSK	50	50	0 mm	back	1:1	1.060	1.002	1.062	0.448	0.449	
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.0	11.92	-0.03	0	Ant 2a	DLX0702M.3TQ	QPSK	100	0	0 mm	back	1:1	0.975	1.019	0.994	0.414	0.422	
2 CC Uplink	PCC	2535.00	21100	Mid	LTE Band 7	20	12.0	11.99	0.03	0	Ant 2a	DLX0702M.3TQ	QPSK	50	0	0 mm	back	1:1	1.080	1.002	1.082	0.434	0.435	
	SCC	2515.20	20902	Mid	LTE Band 7	20							QPSK	50	50									
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.0	12.00	-0.08	0	Ant 2a	DLX0702M.3TQ	QPSK	1	0	0 mm	bottom	1:1	0.335	1.000	0.335	0.100	0.100	
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.0	12.00	-0.03	0	Ant 2a	DLX0702M.3TQ	QPSK	50	50	0 mm	bottom	1:1	0.280	1.000	0.280	0.082	0.082	
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.0	12.00	0.06	0	Ant 2a	DLX0702M.3TQ	QPSK	1	0	0 mm	right	1:1	0.812	1.000	0.812	0.291	0.291	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.99	-0.05	0	Ant 2a	DLX0702M.3TQ	QPSK	1	0	0 mm	right	1:1	0.958	1.002	0.960	0.321	0.322	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.0	11.99	0.02	0	Ant 2a	DLX0702M.3TQ	QPSK	1	99	0 mm	right	1:1	0.719	1.002	0.720	0.243	0.243	
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.0	12.00	-0.17	0	Ant 2a	DLX0702M.3TQ	QPSK	50	50	0 mm	right	1:1	0.836	1.000	0.836	0.298	0.298	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.84	-0.02	0	Ant 2a	DLX0702M.3TQ	QPSK	50	0	0 mm	right	1:1	0.912	1.038	0.947	0.304	0.316	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.0	11.99	0.00	0	Ant 2a	DLX0702M.3TQ	QPSK	50	50	0 mm	right	1:1	0.731	1.002	0.732	0.249	0.249	
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.0	11.92	0.01	0	Ant 2a	DLX0702M.3TQ	QPSK	100	0	0 mm	right	1:1	0.873	1.019	0.890	0.301	0.307	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body 1.6 W/kg (mW/g) averaged over 1 gram														

Table 10-42
LTE Band 7 Ant 2b Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink 2CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dntr [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)		
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.3	12.29	-0.20	0	Ant 2b	DLX0300AKR53	QPSK	1	99	0 mm	back	1:1	0.983	1.002	0.985	0.356	0.357	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.30	-0.17	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1	1.150	1.000	1.150	0.405	0.405	A15
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.3	12.17	-0.03	0	Ant 2b	DLX0300AKR53	QPSK	1	99	0 mm	back	1:1	1.000	1.030	1.030	0.356	0.367	
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.3	12.27	-0.03	0	Ant 2b	DLX0300AKR53	QPSK	50	50	0 mm	back	1:1	0.991	1.007	0.998	0.359	0.362	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.28	-0.17	0	Ant 2b	DLX0300AKR53	QPSK	50	0	0 mm	back	1:1	1.020	1.005	1.025	0.367	0.369	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.3	12.15	-0.03	0	Ant 2b	DLX0300AKR53	QPSK	50	50	0 mm	back	1:1	1.020	1.035	1.056	0.361	0.374	
1 CC Uplink	N/A	2510.00	20950	Low	LTE Band 7	20	12.3	12.26	-0.18	0	Ant 2b	DLX0300AKR53	QPSK	100	0	0 mm	back	1:1	0.994	1.009	1.003	0.362	0.365	
2 CC Uplink	PCC	2535.00	21100	Mid	LTE Band 7	20	12.3	12.26	0.01	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1	1.120	1.009	1.130	0.398	0.402	
	SCC	2515.20	20902	Mid	LTE Band 7	20							QPSK	1	99									
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.30	-0.03	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	bottom	1:1	0.645	1.000	0.645	0.231	0.231	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.28	0.01	0	Ant 2b	DLX0300AKR53	QPSK	50	0	0 mm	bottom	1:1	0.631	1.005	0.634	0.225	0.226	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.30	-0.02	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	right	1:1	0.044	1.000	0.044	0.017	0.017	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.28	0.14	0	Ant 2b	DLX0300AKR53	QPSK	50	0	0 mm	right	1:1	0.043	1.005	0.043	0.017	0.017	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.30	-0.05	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1	1.010	1.000	1.010	0.370	0.370	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body 1.6 W/kg (mW/g) averaged over 1 gram														

Note: Blue entries indicate variability measurements.

FCC ID: BCGA2013		SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 10-43
LTE Band 7 Ant 4a Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	SAR (10g)	Reported SAR (10g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.0	11.97	-0.04	0	Ant 4a	DLX0702L3TQ	QPSK	1	0	0 mm	back	1:1	0.965	1.007	0.972	0.417	0.420	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	12.00	0.06	0	Ant 4a	DLX0702L3TQ	QPSK	1	99	0 mm	back	1:1	1.070	1.000	1.070	0.461	0.461	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.0	11.81	0.07	0	Ant 4a	DLX0702L3TQ	QPSK	1	0	0 mm	back	1:1	1.060	1.045	1.108	0.458	0.479	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.0	11.65	0.05	0	Ant 4a	DLX0702L3TQ	QPSK	50	0	0 mm	back	1:1	0.974	1.084	1.056	0.420	0.455	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.92	0.04	0	Ant 4a	DLX0702L3TQ	QPSK	50	0	0 mm	back	1:1	1.060	1.019	1.070	0.455	0.464	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.0	11.85	0.09	0	Ant 4a	DLX0702L3TQ	QPSK	50	0	0 mm	back	1:1	1.070	1.035	1.107	0.462	0.478	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.88	0.08	0	Ant 4a	DLX0702L3TQ	QPSK	100	0	0 mm	back	1:1	1.110	1.028	1.141	0.478	0.491	
2 CC Uplink	PCC	2535.00	21100	Mid	LTE Band 7	20	12.0	11.59	0.06	0	Ant 4a	DLX0702L3TQ	QPSK	100	0	0 mm	back	1:1	1.000	1.099	1.099	0.417	0.458	
	SCC	2515.20	20902	Mid	LTE Band 7	20							QPSK	100	0									
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	12.00	0.02	0	Ant 4a	DLX0702L3TQ	QPSK	1	99	0 mm	top	1:1	0.382	1.000	0.382	0.112	0.112	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.92	0.01	0	Ant 4a	DLX0702L3TQ	QPSK	50	0	0 mm	top	1:1	0.354	1.019	0.361	0.102	0.104	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	12.00	0.04	0	Ant 4a	DLX0702L3TQ	QPSK	1	99	0 mm	right	1:1	0.003	1.000	0.003	0.001	0.001	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.92	0.08	0	Ant 4a	DLX0702L3TQ	QPSK	50	0	0 mm	right	1:1	0.003	1.019	0.003	0.001	0.001	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.0	11.97	-0.02	0	Ant 4a	DLX0702M3TQ	QPSK	1	0	0 mm	left	1:1	1.030	1.007	1.037	0.360	0.363	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	12.00	0.01	0	Ant 4a	DLX0702M3TQ	QPSK	1	99	0 mm	left	1:1	0.818	1.000	0.818	0.283	0.283	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.0	11.81	-0.01	0	Ant 4a	DLX0702M3TQ	QPSK	1	0	0 mm	left	1:1	0.808	1.045	0.844	0.277	0.289	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.0	11.65	-0.01	0	Ant 4a	DLX0702M3TQ	QPSK	50	0	0 mm	left	1:1	1.010	1.084	1.095	0.352	0.382	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.92	0.02	0	Ant 4a	DLX0702M3TQ	QPSK	50	0	0 mm	left	1:1	0.895	1.019	0.912	0.308	0.314	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.0	11.85	0.01	0	Ant 4a	DLX0702M3TQ	QPSK	50	0	0 mm	left	1:1	0.792	1.035	0.820	0.270	0.279	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.88	0.00	0	Ant 4a	DLX0702M3TQ	QPSK	100	0	0 mm	left	1:1	0.860	1.028	0.884	0.296	0.304	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body 1.6 W/kg (mW/g) averaged over 1 gram														

Table 10-44
LTE Band 7 Ant 4b Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR	SAR (10g)	Reported SAR	Plot #	
		MHz	Ch.															(W/kg)		Clg (W/kg)	(W/kg)	(W/kg)		
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.3	11.89	-0.07	0	Ant 4b	DLX0702M3TQ	QPSK	1	0	0 mm	back	1:1	0.878	1.099	0.965	0.328	0.360	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.00	-0.14	0	Ant 4b	DLX0702M3TQ	QPSK	1	0	0 mm	back	1:1	0.936	1.072	1.003	0.346	0.371	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.3	11.92	-0.14	0	Ant 4b	DLX0702M3TQ	QPSK	1	0	0 mm	back	1:1	0.965	1.091	1.053	0.352	0.384	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.3	11.89	-0.11	0	Ant 4b	DLX0702M3TQ	QPSK	50	50	0 mm	back	1:1	0.884	1.099	0.972	0.328	0.360	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	11.98	-0.09	0	Ant 4b	DLX0702M3TQ	QPSK	50	0	0 mm	back	1:1	0.922	1.076	0.992	0.339	0.365	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.3	11.90	-0.12	0	Ant 4b	DLX0702M3TQ	QPSK	50	0	0 mm	back	1:1	0.945	1.096	1.036	0.345	0.378	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.3	11.91	-0.11	0	Ant 4b	DLX0702M3TQ	QPSK	100	0	0 mm	back	1:1	0.956	1.094	1.046	0.347	0.380	
2 CC Uplink	PCC	2560.00	21350	High	LTE Band 7	20	12.3	11.62	0.00	0	Ant 4b	DLX0702M3TQ	QPSK	1	0	0 mm	back	1:1	0.940	1.169	1.099	0.348	0.407	
	SCC	2540.20	21152	High	LTE Band 7	20							QPSK	1	99									
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.00	-0.02	0	Ant 4b	DLX0702M3TQ	QPSK	1	0	0 mm	top	1:1	0.611	1.072	0.655	0.216	0.232	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	11.98	-0.05	0	Ant 4b	DLX0702M3TQ	QPSK	50	0	0 mm	top	1:1	0.615	1.076	0.662	0.215	0.231	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.00	0.06	0	Ant 4b	DLX0702M3TQ	QPSK	1	0	0 mm	right	1:1	0.028	1.072	0.030	0.012	0.013	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	11.98	0.03	0	Ant 4b	DLX0702M3TQ	QPSK	50	0	0 mm	right	1:1	0.028	1.076	0.030	0.012	0.013	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	12.00	-0.02	0	Ant 4b	DLX0702M3TQ	QPSK	1	0	0 mm	left	1:1	0.042	1.072	0.045	0.017	0.018	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.3	11.98	0.18	0	Ant 4b	DLX0702M3TQ	QPSK	50	0	0 mm	left	1:1	0.038	1.076	0.041	0.015	0.016	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body 1.6 W/kg (mW/g) averaged over 1 gram														

FCC ID: BCGA2013	 SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C1806050012-01-R2.BCG	Test Dates: 08/08/2018-09/03/2018	DUT Type: Tablet Device
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Table 10-45
LTE Band 41 Ant 2a Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink		Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (5g)	SAR (10g)	Reported SAR (10g)	Plot #
			MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.8	14.74	-0.06	0	Ant 2a	DLX0300AKR53	QPSK	1	99	0 mm	back	1:1.58	1.120	1.014	1.136	0.457	0.463	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.8	14.60	-0.05	0	Ant 2a	DLX0300AKR53	QPSK	1	99	0 mm	back	1:1.58	1.020	1.047	1.068	0.413	0.432	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.8	14.71	-0.03	0	Ant 2a	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1.58	1.100	1.021	1.123	0.435	0.444	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.8	14.59	-0.09	0	Ant 2a	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1.58	1.070	1.050	1.124	0.421	0.442	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.8	14.50	-0.09	0	Ant 2a	DLX0300AKR53	QPSK	1	99	0 mm	back	1:1.58	0.904	1.072	0.969	0.344	0.369	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.8	14.65	-0.10	0	Ant 2a	DLX0300AKR53	QPSK	50	50	0 mm	back	1:1.58	1.090	1.035	1.128	0.446	0.462	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.8	14.50	-0.12	0	Ant 2a	DLX0300AKR53	QPSK	50	50	0 mm	back	1:1.58	1.010	1.072	1.083	0.405	0.434	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.8	14.63	-0.11	0	Ant 2a	DLX0300AKR53	QPSK	50	0	0 mm	back	1:1.58	1.070	1.040	1.113	0.422	0.439	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.8	14.54	-0.13	0	Ant 2a	DLX0300AKR53	QPSK	50	0	0 mm	back	1:1.58	1.050	1.062	1.115	0.408	0.433	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.8	14.41	-0.04	0	Ant 2a	DLX0300AKR53	QPSK	50	0	0 mm	back	1:1.58	0.900	1.094	0.985	0.347	0.380	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.8	14.61	-0.06	0	Ant 2a	DLX0300AKR53	QPSK	100	0	0 mm	back	1:1.58	1.050	1.045	1.097	0.419	0.437	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	14.8	14.68	-0.04	0	Ant 2a	DLX0300AKR53	QPSK	1	99	0 mm	back	12:31	0.806	1.028	0.829	0.325	0.334	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	LTE Band 41	20	14.8	14.27	-0.07	0	Ant 2a	DLX0300AKR53	QPSK	1	99	0 mm	back	1:1.58	0.958	1.130	1.083	0.392	0.443	
	SCC	2525.80	39948	Low	LTE Band 41	20							QPSK	1	0									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.8	14.74	0.04	0	Ant 2a	DLX0300AKR53	QPSK	1	99	0 mm	bottom	1:1.58	0.379	1.014	0.384	0.114	0.116	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.8	14.65	-0.02	0	Ant 2a	DLX0300AKR53	QPSK	50	50	0 mm	bottom	1:1.58	0.388	1.035	0.402	0.115	0.119	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.8	14.74	-0.03	0	Ant 2a	DLX0300AKR53	QPSK	1	99	0 mm	right	1:1.58	0.972	1.014	0.986	0.319	0.322	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.8	14.60	-0.01	0	Ant 2a	DLX0300AKR53	QPSK	1	99	0 mm	right	1:1.58	0.750	1.047	0.785	0.242	0.253	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.8	14.71	-0.01	0	Ant 2a	DLX0300AKR53	QPSK	1	0	0 mm	right	1:1.58	0.691	1.021	0.706	0.219	0.224	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.8	14.59	-0.02	0	Ant 2a	DLX0300AKR53	QPSK	1	0	0 mm	right	1:1.58	0.626	1.050	0.657	0.196	0.206	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.8	14.50	-0.01	0	Ant 2a	DLX0300AKR53	QPSK	1	99	0 mm	right	1:1.58	0.493	1.072	0.528	0.152	0.163	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.8	14.65	-0.04	0	Ant 2a	DLX0300AKR53	QPSK	50	50	0 mm	right	1:1.58	0.933	1.035	0.966	0.304	0.315	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.8	14.50	-0.03	0	Ant 2a	DLX0300AKR53	QPSK	50	50	0 mm	right	1:1.58	0.770	1.072	0.825	0.248	0.266	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.8	14.63	-0.02	0	Ant 2a	DLX0300AKR53	QPSK	50	0	0 mm	right	1:1.58	0.662	1.040	0.688	0.211	0.219	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.8	14.54	-0.03	0	Ant 2a	DLX0300AKR53	QPSK	50	0	0 mm	right	1:1.58	0.604	1.062	0.641	0.189	0.201	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.8	14.41	0.00	0	Ant 2a	DLX0300AKR53	QPSK	50	0	0 mm	right	1:1.58	0.501	1.094	0.548	0.154	0.168	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.8	14.61	-0.02	0	Ant 2a	DLX0300AKR53	QPSK	100	0	0 mm	right	1:1.58	0.653	1.045	0.682	0.207	0.216	
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 10-46
LTE Band 41 Ant 2b Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR [lg]	SAR (10g)	Reported SAR (10g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.46	-0.10	0	Ant 2b	DLX0300AKR53	QPSK	1	99	0 mm	back	1:1.58	0.985	1.009	0.994	0.359	0.362	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.50	0.02	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1.58	1.040	1.000	1.040	0.376	0.376	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.5	14.22	0.06	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1.58	1.020	1.067	1.088	0.359	0.383	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.5	14.31	0.01	0	Ant 2b	DLX0300AKR53	QPSK	1	99	0 mm	back	1:1.58	1.030	1.045	1.076	0.353	0.369	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.5	14.19	0.00	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1.58	0.931	1.074	1.000	0.317	0.340	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.37	-0.05	0	Ant 2b	DLX0300AKR53	QPSK	50	50	0 mm	back	1:1.58	1.030	1.030	1.061	0.371	0.382	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.45	0.02	0	Ant 2b	DLX0300AKR53	QPSK	50	0	0 mm	back	1:1.58	1.020	1.012	1.032	0.368	0.372	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.5	14.16	0.03	0	Ant 2b	DLX0300AKR53	QPSK	50	0	0 mm	back	1:1.58	0.995	1.061	1.076	0.350	0.378	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.5	14.24	0.00	0	Ant 2b	DLX0300AKR53	QPSK	50	50	0 mm	back	1:1.58	1.000	1.062	1.062	0.342	0.363	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.5	14.09	-0.01	0	Ant 2b	DLX0300AKR53	QPSK	50	0	0 mm	back	1:1.58	0.912	1.099	1.002	0.310	0.341	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.44	0.00	0	Ant 2b	DLX0300AKR53	QPSK	100	0	0 mm	back	1:1.58	1.070	1.014	1.085	0.379	0.384	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	14.5	14.20	0.18	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	back	1:2.31	0.738	1.072	0.791	0.298	0.319	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	LTE Band 41	20	14.5	13.95	-0.04	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	back	1:1.58	0.917	1.135	1.041	0.330	0.375	
	SCC	2573.20	40422	Mid	LTE Band 41	20							QPSK	1	99									
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.50	0.00	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	bottom	1:1.58	0.597	1.000	0.597	0.201	0.201	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.45	0.06	0	Ant 2b	DLX0300AKR53	QPSK	50	0	0 mm	bottom	1:1.58	0.535	1.012	0.541	0.184	0.186	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.50	0.06	0	Ant 2b	DLX0300AKR53	QPSK	1	0	0 mm	right	1:1.58	0.035	1.000	0.035	0.014	0.014	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.45	0.03	0	Ant 2b	DLX0300AKR53	QPSK	50	0	0 mm	right	1:1.58	0.036	1.012	0.036	0.014	0.014	
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 10-47
LTE Band 41 Ant 4a Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink 2 CC Uplink		Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
			MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.50	-0.09	0	Ant 4a	DLX0300AKRS3	QPSK	1	99	0 mm	back	1:1.58	0.943	1.000	0.943	0.395	0.395	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.40	-0.01	0	Ant 4a	DLX0300AKRS3	QPSK	1	0	0 mm	back	1:1.58	1.050	1.023	1.074	0.435	0.445	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.5	14.08	-0.09	0	Ant 4a	DLX0300AKRS3	QPSK	1	0	0 mm	back	1:1.58	1.040	1.102	1.146	0.429	0.473	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.5	14.06	0.00	0	Ant 4a	DLX0300AKRS3	QPSK	1	99	0 mm	back	1:1.58	0.974	1.107	1.078	0.406	0.449	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.5	14.22	-0.01	0	Ant 4a	DLX0300AKRS3	QPSK	1	50	0 mm	back	1:1.58	0.931	1.067	0.993	0.382	0.408	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.49	-0.06	0	Ant 4a	DLX0300AKRS3	QPSK	50	50	0 mm	back	1:1.58	0.913	1.002	0.915	0.382	0.383	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.30	0.03	0	Ant 4a	DLX0300AKRS3	QPSK	50	25	0 mm	back	1:1.58	1.060	1.047	1.110	0.433	0.453	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.5	14.16	-0.08	0	Ant 4a	DLX0300AKRS3	QPSK	50	25	0 mm	back	1:1.58	1.090	1.081	1.178	0.448	0.484	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.5	14.06	0.02	0	Ant 4a	DLX0300AKRS3	QPSK	50	50	0 mm	back	1:1.58	0.972	1.107	1.076	0.405	0.448	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.5	14.05	0.00	0	Ant 4a	DLX0300AKRS3	QPSK	50	25	0 mm	back	1:1.58	0.916	1.109	1.016	0.377	0.418	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.48	0.00	0	Ant 4a	DLX0300AKRS3	QPSK	100	0	0 mm	back	1:1.58	0.870	1.005	0.874	0.363	0.365	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	14.5	14.01	0.04	0	Ant 4a	DLX0702LL3TQ	QPSK	50	25	0 mm	back	1:2.31	0.720	1.119	0.806	0.293	0.328	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	LTE Band 41	20	14.5	13.57	-0.11	0	Ant 4a	DLX0500QKR56	QPSK	50	0	0 mm	back	1:1.58	0.928	1.239	1.150	0.379	0.470	
	SCC	2573.20	40422	Mid	LTE Band 41	20	14.5			QPSK			50	50										
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.50	0.00	0	Ant 4a	DLX0300AKRS3	QPSK	1	99	0 mm	top	1:1.58	0.329	1.000	0.329	0.098	0.098	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.49	0.01	0	Ant 4a	DLX0300AKRS3	QPSK	50	50	0 mm	top	1:1.58	0.337	1.002	0.338	0.099	0.099	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.50	0.09	0	Ant 4a	DLX0300AKRS3	QPSK	1	99	0 mm	right	1:1.58	0.003	1.000	0.003	0.001	0.001	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.49	0.16	0	Ant 4a	DLX0300AKRS3	QPSK	50	50	0 mm	right	1:1.58	0.003	1.002	0.003	0.001	0.001	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.50	0.00	0	Ant 4a	DLX0300AKRS3	QPSK	1	99	0 mm	left	1:1.58	0.969	1.000	0.969	0.313	0.313	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.40	-0.06	0	Ant 4a	DLX0300AKRS3	QPSK	1	0	0 mm	left	1:1.58	0.771	1.023	0.789	0.273	0.279	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.5	14.08	0.00	0	Ant 4a	DLX0300AKRS3	QPSK	1	0	0 mm	left	1:1.58	0.843	1.102	0.929	0.267	0.294	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.5	14.06	0.00	0	Ant 4a	DLX0300AKRS3	QPSK	1	99	0 mm	left	1:1.58	0.710	1.107	0.786	0.232	0.257	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.5	14.22	-0.02	0	Ant 4a	DLX0300AKRS3	QPSK	1	50	0 mm	left	1:1.58	0.673	1.067	0.718	0.217	0.232	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.49	0.00	0	Ant 4a	DLX0300AKRS3	QPSK	50	50	0 mm	left	1:1.58	0.830	1.002	0.832	0.269	0.270	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.5	14.30	0.08	0	Ant 4a	DLX0300AKRS3	QPSK	50	25	0 mm	left	1:1.58	0.904	1.047	0.946	0.289	0.303	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.5	14.16	-0.03	0	Ant 4a	DLX0300AKRS3	QPSK	50	25	0 mm	left	1:1.58	0.808	1.081	0.873	0.255	0.276	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.5	14.06	0.00	0	Ant 4a	DLX0300AKRS3	QPSK	50	50	0 mm	left	1:1.58	0.720	1.107	0.797	0.235	0.260	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.5	14.05	0.01	0	Ant 4a	DLX0300AKRS3	QPSK	50	25	0 mm	left	1:1.58	0.654	1.109	0.725	0.211	0.234	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.5	14.48	-0.02	0	Ant 4a	DLX0300AKRS3	QPSK	100	0	0 mm	left	1:1.58	0.872	1.005	0.876	0.278	0.279	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body														
Spatial Peak										1.6 W/kg (mW/g)														
Uncontrolled Exposure/General Population										averaged over 1 gram														

FCC ID: BCGA2013		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1806050012-01-R2.BCG	Test Dates: 08/08/2018-09/03/2018	DUT Type: Tablet Device		Page 160 of 198

Table 10-48
LTE Band 41 Ant 4b Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	SAR (lg)	Reported SAR (lg)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.0	14.92	-0.05	0	Ant 4b	DLX07029L3TQ	QPSK	1	99	0 mm	back	1:1.58	1.110	1.019	1.131	0.417	0.425	A16
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	15.00	-0.03	0	Ant 4b	DLX07029L3TQ	QPSK	1	50	0 mm	back	1:1.58	1.150	1.000	1.150	0.424	0.424	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	14.79	-0.03	0	Ant 4b	DLX07029L3TQ	QPSK	1	0	0 mm	back	1:1.58	0.931	1.050	0.978	0.344	0.361	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.0	14.83	-0.10	0	Ant 4b	DLX07029L3TQ	QPSK	1	0	0 mm	back	1:1.58	1.010	1.040	1.050	0.363	0.378	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.0	14.87	-0.14	0	Ant 4b	DLX07029L3TQ	QPSK	1	0	0 mm	back	1:1.58	0.983	1.030	1.012	0.348	0.358	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.0	14.88	-0.07	0	Ant 4b	DLX07029L3TQ	QPSK	50	0	0 mm	back	1:1.58	1.090	1.028	1.121	0.406	0.417	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.98	-0.06	0	Ant 4b	DLX07029L3TQ	QPSK	50	0	0 mm	back	1:1.58	1.120	1.005	1.126	0.412	0.414	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	14.73	-0.19	0	Ant 4b	DLX07029L3TQ	QPSK	50	25	0 mm	back	1:1.58	0.914	1.064	0.972	0.336	0.358	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.0	14.83	-0.13	0	Ant 4b	DLX07029L3TQ	QPSK	50	25	0 mm	back	1:1.58	0.963	1.040	1.002	0.345	0.359	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.0	14.69	0.16	0	Ant 4b	DLX07029L3TQ	QPSK	50	0	0 mm	back	1:1.58	0.952	1.074	1.022	0.335	0.360	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.95	-0.04	0	Ant 4b	DLX07029L3TQ	QPSK	100	0	0 mm	back	1:1.58	1.130	1.012	1.144	0.413	0.418	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.94	-0.09	0	Ant 4b	DLX07029L3TQ	QPSK	1	50	0 mm	back	1:2.31	0.749	1.014	0.759	0.274	0.278	
2 CC Uplink - Power Class 3	PCC	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.35	-0.04	0	Ant 4b	DLX0600QKR56	QPSK	1	0	0 mm	back	1:1.58	0.982	1.161	1.140	0.362	0.420	
	SCC	2529.70	39987	Low-Mid	LTE Band 41	20							QPSK	1	99									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.0	14.92	-0.21	0	Ant 4b	DLX07029L3TQ	QPSK	1	99	0 mm	top	1:1.58	0.761	1.019	0.775	0.269	0.274	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	15.00	0.01	0	Ant 4b	DLX07029L3TQ	QPSK	1	50	0 mm	top	1:1.58	0.723	1.000	0.723	0.257	0.257	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	14.79	-0.03	0	Ant 4b	DLX07029L3TQ	QPSK	1	0	0 mm	top	1:1.58	0.688	1.050	0.722	0.238	0.250	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.0	14.83	-0.14	0	Ant 4b	DLX07029L3TQ	QPSK	1	0	0 mm	top	1:1.58	0.656	1.040	0.682	0.225	0.234	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.0	14.87	-0.03	0	Ant 4b	DLX07029L3TQ	QPSK	1	0	0 mm	top	1:1.58	0.544	1.030	0.560	0.182	0.187	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.0	14.88	-0.03	0	Ant 4b	DLX07029L3TQ	QPSK	50	0	0 mm	top	1:1.58	0.742	1.028	0.763	0.263	0.270	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.98	-0.01	0	Ant 4b	DLX07029L3TQ	QPSK	50	0	0 mm	top	1:1.58	0.693	1.005	0.696	0.245	0.246	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	14.73	-0.02	0	Ant 4b	DLX07029L3TQ	QPSK	50	25	0 mm	top	1:1.58	0.666	1.064	0.709	0.229	0.244	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.0	14.83	-0.20	0	Ant 4b	DLX07029L3TQ	QPSK	50	25	0 mm	top	1:1.58	0.628	1.040	0.653	0.214	0.223	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.0	14.69	-0.03	0	Ant 4b	DLX07029L3TQ	QPSK	50	0	0 mm	top	1:1.58	0.543	1.074	0.583	0.182	0.195	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.95	-0.21	0	Ant 4b	DLX07029L3TQ	QPSK	100	0	0 mm	top	1:1.58	0.729	1.012	0.738	0.254	0.257	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	15.00	0.20	0	Ant 4b	DLX07029L3TQ	QPSK	1	50	0 mm	right	1:1.58	0.040	1.000	0.040	0.016	0.016	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.98	0.05	0	Ant 4b	DLX07029L3TQ	QPSK	50	0	0 mm	right	1:1.58	0.038	1.005	0.038	0.015	0.015	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	15.00	0.14	0	Ant 4b	DLX07029L3TQ	QPSK	1	50	0 mm	left	1:1.58	0.040	1.000	0.040	0.017	0.017	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.98	0.10	0	Ant 4b	DLX07029L3TQ	QPSK	50	0	0 mm	left	1:1.58	0.040	1.005	0.040	0.016	0.016	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body														
Spatial Peak										1.6 W/kg (mW/g)														
Uncontrolled Exposure/General Population										averaged over 1 gram														

FCC ID: BCGA2013		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C1806050012-01-R2.BCG	Test Dates: 08/08/2018-09/03/2018	DUT Type: Tablet Device	Page 161 of 198

Table 10-49
2.4GHz WLAN Body SAR- Ant 4a

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)		Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.														(W/kg)	(W/kg)						
2412	1	802.11b	DSSS	22	13.75	13.61	-0.04	0 mm	Ant 4a	V1	DLXG300EKR53	1	back	100.0	0.934	1.033	1.000	0.965	0.416	0.430		
2437	6	802.11b	DSSS	22	13.75	13.73	-0.03	0 mm	Ant 4a	V1	DLXG300EKR53	1	back	100.0	1.020	1.005	1.000	1.025	0.452	0.454	A17	
2437	6	802.11b	DSSS	22	13.75	13.73	-0.09	0 mm	Ant 4a	V2	DLXG300HKR53	1	back	100.0	0.990	1.005	1.000	0.995	0.425	0.427		
2462	11	802.11b	DSSS	22	13.75	13.75	-0.05	0 mm	Ant 4a	V1	DLXG300EKR53	1	back	100.0	0.961	1.000	1.000	0.961	0.420	0.420		
2462	11	802.11b	DSSS	22	13.75	13.75	-0.06	0 mm	Ant 4a	V1	DLXG300CKR53	1	top	100.0	0.388	1.000	1.000	0.388	0.117	0.117		
2462	11	802.11b	DSSS	22	13.75	13.75	0.02	0 mm	Ant 4a	V1	DLXG300CKR53	1	left	100.0	0.511	1.000	1.000	0.511	0.183	0.183		
2462	11	802.11b	DSSS	22	13.75	13.75	0.05	0 mm	Ant 4a	V1	DLXG300EKR53	1	right	100.0	0.005	1.000	1.000	0.005	0.002	0.002		
2412	1	802.11b	DSSS	22	6.75	6.73	0.02	0 mm	Ant 4a	V1	DLXG300EKR53	1	back	100.0	0.217	1.005	1.000	0.218	0.094	0.094		
2412	1	802.11b	DSSS	22	6.75	6.73	0.06	0 mm	Ant 4a	V1	DLXG300EKR53	1	top	100.0	0.077	1.005	1.000	0.077	0.023	0.023		
2412	1	802.11b	DSSS	22	6.75	6.73	0.00	0 mm	Ant 4a	V1	DLXG300EKR53	1	left	100.0	0.126	1.005	1.000	0.127	0.048	0.048		
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 10-50
2.4GHz WLAN Body SAR- Ant 2a

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.														(W/kg)			(W/kg)		(W/kg)		
2412	1	802.11b	DSSS	22	13.75	13.74	0.04	0 mm	Ant 2a	V1	DLXG300BKR53	1	back	100.0	0.952	1.002	1.000	0.954	0.425	0.426		
2412	1	802.11b	DSSS	22	13.75	13.75	0.01	0 mm	Ant 2a	V2	DLXG300RKR53	1	back	100.0	0.924	1.000	1.000	0.924	0.413	0.413		
2437	6	802.11b	DSSS	22	13.75	13.75	0.05	0 mm	Ant 2a	V1	DLXG300BKR53	1	back	100.0	0.905	1.000	1.000	0.905	0.403	0.403		
2462	11	802.11b	DSSS	22	13.75	13.68	-0.11	0 mm	Ant 2a	V1	DLXG300BKR53	1	back	100.0	0.825	1.016	1.000	0.838	0.351	0.357		
2437	6	802.11b	DSSS	22	13.75	13.75	-0.07	0 mm	Ant 2a	V1	DLXG300BKR53	1	bottom	100.0	0.340	1.000	1.000	0.340	0.105	0.105		
2437	6	802.11b	DSSS	22	13.75	13.75	-0.05	0 mm	Ant 2a	V1	DLXG300BKR53	1	right	100.0	0.505	1.000	1.000	0.505	0.193	0.193		
2437	6	802.11b	DSSS	22	13.75	13.75	0.09	0 mm	Ant 2a	V1	DLXG300BKR53	1	left	100.0	0.005	1.000	1.000	0.005	0.001	0.001		
2412	1	802.11b	DSSS	22	6.75	6.75	-0.06	0 mm	Ant 2a	V1	DLXG300EKR53	1	back	100.0	0.234	1.000	1.000	0.234	0.104	0.104		
2412	1	802.11b	DSSS	22	6.75	6.75	0.15	0 mm	Ant 2a	V1	DLXG300EKR53	1	bottom	100.0	0.103	1.000	1.000	0.103	0.031	0.031		
2412	1	802.11b	DSSS	22	6.75	6.75	0.06	0 mm	Ant 2a	V1	DLXG300EKR53	1	right	100.0	0.145	1.000	1.000	0.145	0.054	0.054		
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 10-51
2.4GHz WLAN Body SAR- Ant 5

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate [Mbps]	Side	Duty Cycle [%]	SAR [1g]		Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR	SAR [10g]	Reported SAR	Plot #
MHz	Ch.														(W/kg)	(W/kg)			(1g) [W/kg]	(10g) [W/kg]	(10g) [W/kg]	
2437	6	802.11b	DSSS	22	19.0	17.89	0.03	0 mm	Ant 5	V2	DLX300HKR53	1	back	97.3	0.031	1.291	1.028	0.041	0.011	0.015		
2437	6	802.11b	DSSS	22	19.0	17.89	0.17	0 mm	Ant 5	V2	DLX300HKR53	1	bottom	97.3	0.001	1.291	1.028	0.001	0.000	0.000		
2412	1	802.11b	DSSS	22	19.0	17.88	0.05	0 mm	Ant 5	V2	DLX300HKR53	1	right	97.3	0.769	1.294	1.028	1.023	0.262	0.349		
2437	6	802.11b	DSSS	22	19.0	17.89	0.16	0 mm	Ant 5	V2	DLX300HKR53	1	right	97.3	0.772	1.291	1.028	1.025	0.267	0.354		
2437	6	802.11b	DSSS	22	19.0	17.90	0.09	0 mm	Ant 5	V1	DLX300BKR53	1	right	97.3	0.731	1.288	1.028	0.968	0.261	0.346		
2462	11	802.11b	DSSS	22	19.0	17.87	0.12	0 mm	Ant 5	V2	DLX300HKR53	1	right	97.3	0.632	1.297	1.028	0.843	0.229	0.305		
2437	6	802.11b	DSSS	22	19.0	17.89	0.00	0 mm	Ant 5	V2	DLX300HKR53	1	left	97.3	0.000	1.291	1.028	0.000	0.000	0.000		
2437	6	802.11b	DSSS	22	15.5	14.50	-0.02	0 mm	Ant 5	V2	DLX300HKR53	1	back	97.3	0.012	1.259	1.028	0.016	0.004	0.005		
2437	6	802.11b	DSSS	22	15.5	14.50	0.09	0 mm	Ant 5	V2	DLX300HKR53	1	bottom	97.3	0.000	1.259	1.028	0.000	0.000	0.000		
2437	6	802.11b	DSSS	22	15.5	14.50	-0.01	0 mm	Ant 5	V2	DLX300HKR53	1	right	97.3	0.285	1.259	1.028	0.369	0.104	0.135		
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 10-52
5GHz WLAN Body SAR- Ant 5

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
5270	54	802.11n	OFDM	40	17.0	17.00	0.03	0 mm	Ant 5	V1	DLX300CKR53	13.5	back	97.3	0.107	1.000	1.028	0.110	0.039	0.040	
5270	54	802.11n	OFDM	40	17.0	17.00	0.00	0 mm	Ant 5	V1	DLX300CKR53	13.5	bottom	97.3	0.000	1.000	1.028	0.000	0.000	0.000	
5270	54	802.11n	OFDM	40	17.0	17.00	0.08	0 mm	Ant 5	V1	DLX300CKR53	13.5	right	97.3	1.130	1.000	1.028	1.162	0.284	0.292	A18
5270	54	802.11n	OFDM	40	17.0	16.90	0.14	0 mm	Ant 5	V2	DLX300MKR53	13.5	right	97.3	1.030	1.023	1.028	1.083	0.281	0.296	
5310	62	802.11n	OFDM	40	14.0	13.88	0.05	0 mm	Ant 5	V1	DLX300CKR53	13.5	right	97.3	0.644	1.028	1.028	0.681	0.154	0.163	
5270	54	802.11n	OFDM	40	17.0	17.00	0.04	0 mm	Ant 5	V1	DLX300CKR53	13.5	left	97.3	0.016	1.000	1.028	0.016	0.005	0.005	
5290	58	802.11ac	OFDM	80	10.0	10.00	-0.02	0 mm	Ant 5	V1	DLX300CKR53	29.3	back	97.3	0.015	1.000	1.028	0.015	0.005	0.005	
5290	58	802.11ac	OFDM	80	10.0	10.00	0.00	0 mm	Ant 5	V1	DLX300CKR53	29.3	bottom	97.3	0.000	1.000	1.028	0.000	0.000	0.000	
5290	58	802.11ac	OFDM	80	10.0	10.00	0.12	0 mm	Ant 5	V1	DLX300CKR53	29.3	right	97.3	0.319	1.000	1.028	0.328	0.071	0.073	
5610	122	802.11ac	OFDM	80	15.5	15.50	-0.04	0 mm	Ant 5	V1	DLX300CKR53	29.3	back	95.0	0.051	1.000	1.053	0.054	0.017	0.018	
5610	122	802.11ac	OFDM	80	15.5	15.50	-0.10	0 mm	Ant 5	V1	DLX300CKR53	29.3	bottom	95.0	0.000	1.000	1.053	0.000	0.000	0.000	
5610	122	802.11ac	OFDM	80	15.5	15.50	0.11	0 mm	Ant 5	V1	DLX300CKR53	29.3	right	95.0	0.718	1.000	1.053	0.756	0.177	0.186	
5610	122	802.11ac	OFDM	80	15.5	15.42	0.14	0 mm	Ant 5	V2	DLX300MKR53	29.3	right	95.0	0.703	1.019	1.053	0.754	0.192	0.206	
5610	122	802.11ac	OFDM	80	15.5	15.50	0.00	0 mm	Ant 5	V1	DLX300CKR53	29.3	left	95.0	0.001	1.000	1.053	0.001	0.000	0.000	
5690	138	802.11ac	OFDM	80	8.5	8.49	0.06	0 mm	Ant 5	V1	DLX300CKR53	29.3	back	95.0	0.000	1.002	1.053	0.000	0.000	0.000	
5690	138	802.11ac	OFDM	80	8.5	8.49	0.10	0 mm	Ant 5	V1	DLX300CKR53	29.3	bottom	95.0	0.000	1.002	1.053	0.000	0.000	0.000	
5690	138	802.11ac	OFDM	80	8.5	8.49	0.03	0 mm	Ant 5	V1	DLX300CKR53	29.3	right	95.0	0.138	1.002	1.053	0.146	0.033	0.035	
5775	155	802.11ac	OFDM	80	16.5	15.87	0.03	0 mm	Ant 5	V2	DLX300MKR53	29.3	back	95.0	0.078	1.156	1.053	0.095	0.032	0.039	
5775	155	802.11ac	OFDM	80	16.5	15.87	0.04	0 mm	Ant 5	V2	DLX300MKR53	29.3	bottom	95.0	0.001	1.156	1.053	0.001	0.000	0.000	
5775	155	802.11ac	OFDM	80	16.5	15.87	0.04	0 mm	Ant 5	V2	DLX300MKR53	29.3	right	95.0	0.793	1.156	1.053	0.965	0.225	0.274	
5775	155	802.11ac	OFDM	80	16.5	15.92	0.03	0 mm	Ant 5	V1	DLX300CKR53	29.3	right	95.0	0.738	1.143	1.053	0.888	0.185	0.223	
5775	155	802.11ac	OFDM	80	16.5	15.87	0.00	0 mm	Ant 5	V2	DLX300MKR53	29.3	left	95.0	0.004	1.156	1.053	0.005	0.001	0.001	
5775	155	802.11ac	OFDM	80	9.0	8.99	0.10	0 mm	Ant 5	V2	DLX300RKR53	29.3	back	95.0	0.014	1.002	1.053	0.015	0.003	0.003	
5775	155	802.11ac	OFDM	80	9.0	8.99	-0.10	0 mm	Ant 5	V2	DLX300RKR53	29.3	bottom	95.0	0.000	1.002	1.053	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	9.0	8.99	0.10	0 mm	Ant 5	V2	DLX300RKR53	29.3	right	95.0	0.212	1.002	1.053	0.224	0.051	0.054	
5270	54	802.11n	OFDM	40	17.0	17.00	0.09	0 mm	Ant 5	V1	DLX300CKR53	13.5	right	97.3	1.070	1.000	1.028	1.100	0.271	0.279	
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 indicate variability measurements.

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Table 10-53
5GHz WLAN Body SAR- Ant 6

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)		
5270	54	802.11n	OFDM	40	17.0	16.86	-0.03	0 mm	Ant 6	V2	DLX300MKR53	13.5	back	97.1	0.090	1.033	1.030	0.096	0.038	0.040	
5270	54	802.11n	OFDM	40	17.0	16.86	-0.08	0 mm	Ant 6	V2	DLX300MKR53	13.5	top	97.1	0.006	1.033	1.030	0.006	0.002	0.002	
5270	54	802.11n	OFDM	40	17.0	16.86	-0.15	0 mm	Ant 6	V2	DLX300MKR53	13.5	right	97.1	0.786	1.033	1.030	0.836	0.230	0.245	
5270	54	802.11n	OFDM	40	17.0	16.99	0.07	0 mm	Ant 6	V1	DLX300EKR53	13.5	right	97.1	0.744	1.002	1.030	0.768	0.223	0.230	
5310	62	802.11n	OFDM	40	14.0	13.75	-0.13	0 mm	Ant 6	V2	DLX300MKR53	13.5	right	97.1	0.561	1.059	1.030	0.612	0.163	0.178	
5270	54	802.11n	OFDM	40	17.0	16.86	0.02	0 mm	Ant 6	V2	DLX300MKR53	13.5	left	97.1	0.007	1.033	1.030	0.007	0.002	0.002	
5290	58	802.11ac	OFDM	80	12.0	12.00	-0.17	0 mm	Ant 6	V2	DLX300RKR53	29.3	back	97.1	0.016	1.000	1.030	0.016	0.005	0.005	
5290	58	802.11ac	OFDM	80	12.0	12.00	0.10	0 mm	Ant 6	V2	DLX300RKR53	29.3	top	97.1	0.000	1.000	1.030	0.000	0.000	0.000	
5290	58	802.11ac	OFDM	80	12.0	12.00	0.15	0 mm	Ant 6	V2	DLX300RKR53	29.3	right	97.1	0.197	1.000	1.030	0.203	0.050	0.052	
5610	122	802.11ac	OFDM	80	15.5	15.49	-0.03	0 mm	Ant 6	V2	DLX300MKR53	29.3	back	94.2	0.119	1.002	1.062	0.127	0.051	0.054	
5610	122	802.11ac	OFDM	80	15.5	15.49	-0.07	0 mm	Ant 6	V2	DLX300MKR53	29.3	top	94.2	0.004	1.002	1.062	0.004	0.002	0.002	
5610	122	802.11ac	OFDM	80	15.5	15.49	-0.02	0 mm	Ant 6	V2	DLX300MKR53	29.3	right	94.2	1.050	1.002	1.062	1.117	0.329	0.350	
5610	122	802.11ac	OFDM	80	15.5	15.50	0.15	0 mm	Ant 6	V1	DLX300EKR53	29.3	right	94.2	1.000	1.000	1.062	1.062	0.297	0.315	
5690	138	802.11ac	OFDM	80	15.5	15.37	0.03	0 mm	Ant 6	V2	DLX300MKR53	29.3	right	94.2	0.989	1.030	1.062	1.082	0.312	0.341	
5610	122	802.11ac	OFDM	80	15.5	15.49	0.06	0 mm	Ant 6	V2	DLX300MKR53	29.3	left	94.2	0.018	1.002	1.062	0.019	0.007	0.007	
5610	122	802.11ac	OFDM	80	10.5	10.50	-0.20	0 mm	Ant 6	V2	DLX300RKR53	29.3	back	94.2	0.017	1.000	1.062	0.018	0.006	0.006	
5610	122	802.11ac	OFDM	80	10.5	10.50	0.00	0 mm	Ant 6	V2	DLX300RKR53	29.3	top	94.2	0.000	1.000	1.062	0.000	0.000	0.000	
5610	122	802.11ac	OFDM	80	10.5	10.50	-0.02	0 mm	Ant 6	V2	DLX300RKR53	29.3	right	94.2	0.293	1.000	1.062	0.311	0.081	0.086	
5775	155	802.11ac	OFDM	80	15.0	14.94	-0.09	0 mm	Ant 6	V2	DLX300MKR53	29.3	back	94.2	0.122	1.014	1.062	0.131	0.051	0.055	
5775	155	802.11ac	OFDM	80	15.0	14.94	-0.10	0 mm	Ant 6	V2	DLX300MKR53	29.3	top	94.2	0.009	1.014	1.062	0.010	0.004	0.004	
5775	155	802.11ac	OFDM	80	15.0	14.94	-0.06	0 mm	Ant 6	V2	DLX300MKR53	29.3	right	94.2	1.040	1.014	1.062	1.120	0.334	0.360	
5775	155	802.11ac	OFDM	80	15.0	14.84	-0.01	0 mm	Ant 6	V1	DLX300EKR53	29.3	right	94.2	0.805	1.038	1.062	0.887	0.261	0.288	
5775	155	802.11ac	OFDM	80	15.0	14.94	-0.01	0 mm	Ant 6	V2	DLX300MKR53	29.3	left	94.2	0.001	1.014	1.062	0.001	0.000	0.000	
5775	155	802.11ac	OFDM	80	10.0	10.00	0.10	0 mm	Ant 6	V2	DLX300RKR53	29.3	back	94.2	0.018	1.000	1.062	0.019	0.006	0.006	
5775	155	802.11ac	OFDM	80	10.0	10.00	-0.10	0 mm	Ant 6	V2	DLX300RKR53	29.3	top	94.2	0.000	1.000	1.062	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	10.0	10.00	-0.08	0 mm	Ant 6	V2	DLX300RKR53	29.3	right	94.2	0.263	1.000	1.062	0.279	0.075	0.080	
5610	122	802.11ac	OFDM	80	15.5	15.49	-0.10	0 mm	Ant 6	V2	DLX300MKR53	29.3	right	94.2	1.040	1.002	1.062	1.107	0.324	0.345	
5775	155	802.11ac	OFDM	80	15.0	14.94	-0.04	0 mm	Ant 6	V2	DLX300MKR53	29.3	right	94.2	1.020	1.014	1.062	1.098	0.336	0.362	
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 indicate variability measurements.

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Table 10-54
Bluetooth Body SAR- Ant 4a

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)		(W/kg)	
2402	0	Bluetooth	FHSS	16.0	16.00	-0.06	0 mm	Ant 4a	V2	DLXX300HKR53	1	back	76.5	1.170	1.000	1.013	1.185	0.525	0.532	A19
2402	0	Bluetooth	FHSS	16.0	15.68	0.03	0 mm	Ant 4a	V1	DLXX300EKR53	1	back	76.2	0.846	1.076	1.017	0.926	0.398	0.436	
2441	39	Bluetooth	FHSS	16.0	15.67	-0.04	0 mm	Ant 4a	V2	DLXX300HKR53	1	back	76.5	1.070	1.079	1.013	1.170	0.479	0.524	
2480	78	Bluetooth	FHSS	16.0	14.51	-0.02	0 mm	Ant 4a	V2	DLXX300HKR53	1	back	76.5	0.803	1.409	1.013	1.146	0.362	0.517	
2402	0	Bluetooth	FHSS	16.0	16.00	-0.08	0 mm	Ant 4a	V2	DLXX300HKR53	1	top	76.5	0.367	1.000	1.013	0.372	0.113	0.114	
2402	0	Bluetooth	FHSS	16.0	16.00	-0.01	0 mm	Ant 4a	V2	DLXX300HKR53	1	left	76.5	0.768	1.000	1.013	0.778	0.269	0.272	
2402	0	Bluetooth	FHSS	16.0	16.00	0.05	0 mm	Ant 4a	V2	DLXX300HKR53	1	right	76.5	0.005	1.000	1.013	0.005	0.002	0.002	
2402	0	Bluetooth	FHSS	9.0	8.69	0.16	0 mm	Ant 4a	V2	DLXX300HKR53	1	back	76.5	0.174	1.074	1.013	0.189	0.081	0.088	
2402	0	Bluetooth	FHSS	9.0	8.69	0.01	0 mm	Ant 4a	V2	DLXX300HKR53	1	top	76.5	0.081	1.074	1.013	0.088	0.024	0.026	
2402	0	Bluetooth	FHSS	9.0	8.69	0.01	0 mm	Ant 4a	V2	DLXX300HKR53	1	left	76.5	0.165	1.074	1.013	0.180	0.057	0.062	
2402	0	Bluetooth	FHSS	9.0	8.69	0.17	0 mm	Ant 4a	V2	DLXX300HKR53	1	right	76.5	0.000	1.074	1.013	0.000	0.000	0.000	
2402	0	Bluetooth	FHSS	16.0	16.00	0.00	0 mm	Ant 4a	V2	DLXX300HKR53	1	back	76.5	1.160	1.000	1.013	1.175	0.537	0.544	
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: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per the manufacturer. Blue entries indicate variability measurements. Blue entries indicate variability measurements.

Table 10-55
Bluetooth Body SAR- Ant 2a

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)		(W/kg)	
2402	0	Bluetooth	FHSS	15.0	14.85	0.08	0 mm	Ant 2a	V2	DLX300HKR53	1	back	75.7	1.020	1.035	1.024	1.081	0.460	0.488	
2441	39	Bluetooth	FHSS	15.0	14.71	0.14	0 mm	Ant 2a	V2	DLX300HKR53	1	back	75.7	0.856	1.069	1.024	0.937	0.388	0.425	
2480	78	Bluetooth	FHSS	15.0	14.68	0.00	0 mm	Ant 2a	V2	DLX300HKR53	1	back	75.7	0.756	1.076	1.024	0.833	0.336	0.370	
2402	0	Bluetooth	FHSS	15.0	14.84	0.10	0 mm	Ant 2a	V1	DLX300EKR53	1	back	75.8	0.816	1.038	1.022	0.866	0.376	0.399	
2402	0	Bluetooth	FHSS	15.0	14.85	-0.10	0 mm	Ant 2a	V2	DLX300HKR53	1	bottom	75.7	0.386	1.035	1.024	0.409	0.119	0.126	
2402	0	Bluetooth	FHSS	15.0	14.85	0.00	0 mm	Ant 2a	V2	DLX300HKR53	1	right	75.7	0.302	1.035	1.024	0.320	0.106	0.112	
2402	0	Bluetooth	FHSS	8.0	7.59	0.14	0 mm	Ant 2a	V2	DLX300HKR53	1	back	75.7	0.076	1.099	1.024	0.086	0.031	0.035	
2402	0	Bluetooth	FHSS	8.0	7.59	0.04	0 mm	Ant 2a	V2	DLX300HKR53	1	bottom	75.7	0.017	1.099	1.024	0.019	0.004	0.005	
2402	0	Bluetooth	FHSS	8.0	7.59	0.03	0 mm	Ant 2a	V2	DLX300HKR53	1	right	75.7	0.023	1.099	1.024	0.026	0.007	0.008	
2402	0	Bluetooth	FHSS	8.0	7.59	0.00	0 mm	Ant 2a	V2	DLX300HKR53	1	left	75.7	0.000	1.099	1.024	0.000	0.000	0.000	
2480	78	Bluetooth	FHSS	12.5	12.50	-0.03	0 mm	Ant 2a	V2	DLX300HKR53	1	back	75.7	0.316	1.000	1.024	0.324	0.117	0.120	
2480	78	Bluetooth	FHSS	12.5	12.50	-0.07	0 mm	Ant 2a	V2	DLX300HKR53	1	bottom	75.7	0.063	1.000	1.024	0.065	0.018	0.018	
2480	78	Bluetooth	FHSS	12.5	12.50	0.06	0 mm	Ant 2a	V2	DLX300HKR53	1	right	75.7	0.189	1.000	1.024	0.194	0.065	0.067	
2480	78	Bluetooth	FHSS	12.5	12.50	-0.15	0 mm	Ant 2a	V2	DLX300HKR53	1	top	75.7	0.011	1.000	1.024	0.011	0.004	0.004	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body 1.6 W/kg (mW/g) averaged over 1 gram													
Spatial Peak																				
Uncontrolled Exposure/General Population																				

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per the manufacturer.

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Table 10-56
Bluetooth Body SAR- Ant 5

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	(W/kg)		
2402	0	Bluetooth	FHSS	18.5	18.50	-0.04	0 mm	Ant 5	V1	DLX300EKR53	1	back	75.7	0.026	1.000	1.024	0.027	0.010	0.010	
2402	0	Bluetooth	FHSS	18.5	18.50	0.08	0 mm	Ant 5	V1	DLX300EKR53	1	bottom	75.7	0.002	1.000	1.024	0.002	0.001	0.001	
2402	0	Bluetooth	FHSS	18.5	18.50	-0.13	0 mm	Ant 5	V1	DLX300EKR53	1	right	75.7	0.900	1.000	1.024	0.922	0.316	0.324	
2402	0	Bluetooth	FHSS	18.5	18.50	-0.04	0 mm	Ant 5	V2	DLX300HKR53	1	right	76.5	0.657	1.000	1.013	0.666	0.237	0.240	
2441	39	Bluetooth	FHSS	18.5	17.79	0.01	0 mm	Ant 5	V1	DLX300EKR53	1	right	75.7	0.573	1.178	1.024	0.691	0.210	0.253	
2480	78	Bluetooth	FHSS	18.5	17.98	-0.13	0 mm	Ant 5	V1	DLX300EKR53	1	right	75.7	0.467	1.127	1.024	0.539	0.159	0.183	
2402	0	Bluetooth	FHSS	17.0	16.04	0.11	0 mm	Ant 5	V1	DLX300CKR53	1	back	75.7	0.010	1.247	1.024	0.013	0.003	0.004	
2402	0	Bluetooth	FHSS	17.0	16.04	0.07	0 mm	Ant 5	V1	DLX300CKR53	1	bottom	75.7	0.002	1.247	1.024	0.003	0.000	0.000	
2402	0	Bluetooth	FHSS	17.0	16.04	0.01	0 mm	Ant 5	V1	DLX300CKR53	1	right	75.7	0.325	1.247	1.024	0.415	0.115	0.147	
2441	39	Bluetooth	FHSS	14.5	14.33	0.03	0 mm	Ant 5	V1	DLX300CKR53	1	back	75.7	0.010	1.040	1.024	0.011	0.003	0.003	
2441	39	Bluetooth	FHSS	14.5	14.33	0.03	0 mm	Ant 5	V1	DLX300CKR53	1	bottom	75.7	0.000	1.040	1.024	0.000	0.000	0.000	
2441	39	Bluetooth	FHSS	14.5	14.33	0.04	0 mm	Ant 5	V1	DLX300CKR53	1	right	75.7	0.265	1.040	1.024	0.282	0.095	0.101	
2441	39	Bluetooth	FHSS	14.5	14.33	0.00	0 mm	Ant 5	V1	DLX300CKR53	1	top	75.7	0.000	1.040	1.024	0.000	0.000	0.000	
2441	39	Bluetooth	FHSS	12.5	12.50	0.19	0 mm	Ant 5	V1	DLX300CKR53	1	back	75.7	0.002	1.000	1.024	0.002	0.000	0.000	
2441	39	Bluetooth	FHSS	12.5	12.50	0.03	0 mm	Ant 5	V1	DLX300CKR53	1	bottom	75.7	0.001	1.000	1.024	0.001	0.000	0.000	
2441	39	Bluetooth	FHSS	12.5	12.50	0.06	0 mm	Ant 5	V1	DLX300CKR53	1	right	75.7	0.054	1.000	1.024	0.055	0.018	0.018	
2441	39	Bluetooth	FHSS	12.5	12.50	0.10	0 mm	Ant 5	V1	DLX300CKR53	1	left	75.7	0.000	1.000	1.024	0.000	0.000	0.000	
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: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per the manufacturer.

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10.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02 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. 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 12 for variability analysis.
7. 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.

GSM Test Notes:

1. 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 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.
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.

UMTS Notes:

1. UMTS mode in was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. 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 Considerations: 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 7.5.4.
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 (scaled) for LTE Band 41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.

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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 13 for linearity results.
8. For LTE Band 41 and LTE Band 7, per Fall 2017 TCB Workshop Notes, 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. When the reported 1g SAR was >1.2 W/kg or the reported 10g SAR was > 3.0 W/kg, all required test channels were additionally evaluated.

WLAN Notes:

1. 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) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.6.4 for more information.
2. 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 7.6.5 for more information.
3. 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.
4. 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. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8 MHz, VBW = 50 MHz, and detector = peak per guidance of Section 6.0 b) of ANSI C63. 10-2013 and KDB 558074 D01 v04. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100."

Bluetooth Notes

1. Bluetooth SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per the manufacturer. See Section 8.6 for the time domain plot and calculation for the duty factor of the device.

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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 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.

11.2 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.

Note: For SAR summations for some scenarios when the output power levels are reduced, SAR values at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

** The SAR distributions for at least one of the antennas are spatially separated from the other antennas per FCC KDB Publication 248227 Section 6.1 procedures. Therefore, the simultaneous transmission were treated independently for this configuration. See Section 11.4 for more information about the Spatial Separation Analysis.

For each position, the highest SAR value across all modes for the applicable cellular band antenna was considered for summation to determine simultaneous SAR test exclusion.

11.3 Body SAR Simultaneous Transmission Analysis

Table 11-1
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	2.4 GHz WLAN Ant 5 SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+3+4
Body SAR	Back	0.854	0.954	1.025	0.041	0.954**	1.025**	0.895	1.025**	1.025**
	Top	0.400*	0.400*	0.388	0.400*	0.800	0.788	0.800	1.188	1.188
	Bottom	0.607	0.340	0.400*	0.001	0.947	1.007	0.608	1.347	1.008
	Right	0.025	0.505	0.005	1.025	0.530	0.030	1.050	0.535	1.055
	Left	1.182	0.005	0.511	0.000	1.187	1.182**	1.182	1.187**	1.182**

Table 11-2
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	2.4 GHz WLAN Ant 5 SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+3+4
Body SAR	Back	1.136	0.954	1.025	0.041	1.136**	1.136**	1.177	1.136**	1.136**
	Top	0.745	0.400*	0.388	0.400*	1.145	1.133	1.145	1.533	1.533
	Bottom	0.400*	0.340	0.400*	0.001	0.740	0.800	0.401	1.140	0.801
	Right	1.069	0.505	0.005	1.025	1.574	1.074	1.069**	1.579	1.074**
	Left	0.400*	0.005	0.511	0.000	0.405	0.911	0.400	0.916	0.911

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Table 11-3
Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 6.75 dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	2.4 GHz WLAN Ant 5 Reduced at 15.5 dBm SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+3+4
Body SAR	Back	1.146	0.234	1.025	0.016	1.380	1.146**	1.162	1.380**	1.162**
	Top	0.400*	0.400*	0.388	0.400*	0.800	0.788	0.800	1.188	1.188
	Bottom	0.402	0.103	0.400*	0.000	0.505	0.802	0.402	0.905	0.802
	Right	0.986	0.145	0.005	0.369	1.131	0.991	1.355	1.136	1.360
	Left	0.400*	0.005	0.511	0.000	0.405	0.911	0.400	0.916	0.911

Table 11-4
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 6.75 dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	2.4 GHz WLAN Ant 5 SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+3+4
Body SAR	Back	1.150	0.234	1.025	0.041	1.384	1.150**	1.191	1.384**	1.191**
	Top	0.400*	0.400*	0.388	0.400*	0.800	0.788	0.800	1.188	1.188
	Bottom	0.742	0.103	0.400*	0.001	0.845	1.142	0.743	1.245	1.143
	Right	0.060	0.145	0.005	1.025	0.205	0.065	1.085	0.210	1.090
	Left	0.400*	0.005	0.511	0.000	0.405	0.911	0.400	0.916	0.911

Table 11-5
Cellular Band Ant 4a Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4a SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6.75 dBm SAR (W/kg)	2.4 GHz WLAN Ant 5 SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+3+4
Body SAR	Back	1.178	0.954	0.218	0.041	1.178**	1.396	1.219	1.396**	1.437
	Top	0.432	0.400*	0.077	0.400*	0.832	0.509	0.832	0.909	0.909
	Bottom	0.400*	0.340	0.400*	0.001	0.740	0.800	0.401	1.140	0.801
	Right	0.003	0.505	0.005	1.025	0.508	0.008	1.028	0.513	1.033
	Left	1.107	0.005	0.127	0.000	1.112	1.234	1.107	1.239	1.234

Table 11-6
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6.75 dBm SAR (W/kg)	2.4 GHz WLAN Ant 5 SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+3+4
Body SAR	Back	1.150	0.954	0.218	0.041	1.150**	1.368	1.191	1.368**	1.409
	Top	0.920	0.400*	0.077	0.400*	1.320	0.997	1.320	1.397	1.397
	Bottom	0.400*	0.340	0.400*	0.001	0.740	0.800	0.401	1.140	0.801
	Right	0.040	0.505	0.005	1.025	0.545	0.045	1.065	0.550	1.070
	Left	0.078	0.005	0.127	0.000	0.083	0.205	0.078	0.210	0.205

Table 11-7
Cellular Band Ant 1 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.854	0.110	0.131	0.964	0.985	1.095
	Top	0.400*	0.400*	0.010	0.800	0.410	0.810
	Bottom	0.607	0.001	0.400*	0.608	1.007	1.008
	Right	0.025	1.162	1.120	1.187	1.145	1.187**
	Left	1.182	0.016	0.019	1.198	1.201	1.217

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Table 11-8
Cellular Band Ant 3 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.136	0.110	0.019	1.246	1.155	1.265
	Top	0.745	0.400*	0.000	1.145	0.745	1.145
	Bottom	0.400*	0.001	0.400*	0.401	0.800	0.801
	Right	1.069	1.162	0.311	1.162**	1.380	1.380**
	Left	0.400*	0.016	0.019	0.416	0.419	0.435

Table 11-9
Cellular Band Ant 2a Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	5 GHz WLAN Ant 5 Reduced SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.146	0.015	0.131	1.161	1.277	1.292
	Top	0.400*	0.400*	0.010	0.800	0.410	0.810
	Bottom	0.402	0.000	0.400*	0.402	0.802	0.802
	Right	0.986	0.328	1.120	1.314	1.120**	1.314**
	Left	0.400*	0.016	0.019	0.416	0.419	0.435

Table 11-10
Cellular Band Ant 2b Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.150	0.110	0.131	1.260	1.281	1.391
	Top	0.400*	0.400*	0.010	0.800	0.410	0.810
	Bottom	0.742	0.001	0.400*	0.743	1.142	1.143
	Right	0.060	1.162	1.120	1.222	1.180	1.222**
	Left	0.400*	0.016	0.019	0.416	0.419	0.435

Table 11-11
Cellular Band Ant 4a Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.178	0.110	0.131	1.288	1.309	1.419
	Top	0.432	0.400*	0.010	0.832	0.442	0.842
	Bottom	0.400*	0.001	0.400*	0.401	0.800	0.801
	Right	0.003	1.162	1.120	1.165	1.123	1.123**
	Left	1.107	0.016	0.019	1.123	1.126	1.142

Table 11-12
Cellular Band Ant 4b Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.150	0.110	0.131	1.260	1.281	1.391
	Top	0.920	0.400*	0.010	1.320	0.930	1.330
	Bottom	0.400*	0.001	0.400*	0.401	0.800	0.801
	Right	0.040	1.162	1.120	1.202	1.160	1.160**
	Left	0.078	0.016	0.019	0.094	0.097	0.113

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Table 11-13
Cellular Band Ant 1 Simultaneous Transmission Scenario with Bluetooth

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	Bluetooth Ant 2a at 8 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Bluetooth Ant 5 at 17.0 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2	1+3	1+4
Body SAR	Back	0.854	0.086	1.185	0.013	0.940	1.185**	0.867
	Top	0.400*	0.400*	0.372	0.400*	0.800	0.772	0.800
	Bottom	0.607	0.019	0.400*	0.003	0.626	1.007	0.610
	Right	0.025	0.026	0.005	0.415	0.051	0.030	0.440
	Left	1.182	0.000	0.778	0.400*	1.182	1.182**	1.582

Table 11-14
Cellular Band Ant 3 Simultaneous Transmission Scenario with Bluetooth

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 9 dBm SAR (W/kg)	Bluetooth Ant 5 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2	1+3	1+4
Body SAR	Back	1.136	1.081	0.189	0.027	1.136**	1.325	1.163
	Top	0.745	0.400*	0.088	0.400*	1.145	0.833	1.145
	Bottom	0.400*	0.409	0.400*	0.002	0.809	0.800	0.402
	Right	1.069	0.320	0.000	0.922	1.389	1.069	1.069**
	Left	0.400*	0.400*	0.180	0.400*	0.800	0.580	0.800

Table 11-15
Cellular Band Ant 2a Simultaneous Transmission Scenario with Bluetooth

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	Bluetooth Ant 2a at 8 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Bluetooth Ant 5 at 17.0 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2	1+3	1+4
Body SAR	Back	1.146	0.086	1.185	0.013	1.232	1.185**	1.159
	Top	0.400*	0.400*	0.372	0.400*	0.800	0.772	0.800
	Bottom	0.402	0.019	0.400*	0.003	0.421	0.802	0.405
	Right	0.986	0.026	0.005	0.415	1.012	0.991	1.401
	Left	0.400*	0.000	0.778	0.400*	0.400	1.178	0.800

Table 11-16
Cellular Band Ant 2b Simultaneous Transmission Scenario with Bluetooth

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	Bluetooth Ant 2a at 8 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Bluetooth Ant 5 at 17.0 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2	1+3	1+4
Body SAR	Back	1.150	0.086	1.185	0.013	1.236	1.185**	1.163
	Top	0.400*	0.400*	0.372	0.400*	0.800	0.772	0.800
	Bottom	0.742	0.019	0.400*	0.003	0.761	1.142	0.745
	Right	0.060	0.026	0.005	0.415	0.086	0.065	0.475
	Left	0.400*	0.000	0.778	0.400*	0.400	1.178	0.800

Table 11-17
Cellular Band Ant 4a Simultaneous Transmission Scenario with Bluetooth

Simult Tx	Configuration	Cellular Band Ant 4a SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 9 dBm SAR (W/kg)	Bluetooth Ant 5 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2	1+3	1+4
Body SAR	Back	1.178	1.081	0.189	0.027	1.178**	1.367	1.205
	Top	0.432	0.400*	0.088	0.400*	0.832	0.520	0.832
	Bottom	0.400*	0.409	0.400*	0.002	0.809	0.800	0.402
	Right	0.003	0.320	0.000	0.922	0.323	0.003	0.925
	Left	1.107	0.400*	0.180	0.400*	1.507	1.287	1.507

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Table 11-18
Cellular Band Ant 4b Simultaneous Transmission Scenario with Bluetooth

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 9 dBm SAR (W/kg)	Bluetooth Ant 5 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2	1+3	1+4
Body SAR	Back	1.150	1.081	0.189	0.027	1.150**	1.339	1.177
	Top	0.920	0.400*	0.088	0.400*	1.320	1.008	1.320
	Bottom	0.400*	0.409	0.400*	0.002	0.809	0.800	0.402
	Right	0.040	0.320	0.000	0.922	0.360	0.040	0.962
	Left	0.078	0.400*	0.180	0.400*	0.478	0.258	0.478

Table 11-19
Cellular Band Ant 1 Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	Bluetooth Ant 2a at 8 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.854	0.086	0.110	0.131	1.050	1.071	1.181
	Top	0.400*	0.400*	0.400*	0.010	1.200	0.810	1.210
	Bottom	0.607	0.019	0.001	0.400*	0.627	1.026	1.027
	Right	0.025	0.026	1.162	1.120	1.213	1.171	1.213**
	Left	1.182	0.000	0.016	0.019	1.198	1.201	1.217
Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.854	1.185	0.110	0.131	1.185**	1.185**	1.185**
	Top	0.400*	0.372	0.400*	0.010	1.172	0.782	1.182
	Bottom	0.607	0.400*	0.001	0.400*	1.008	1.407	1.408
	Right	0.025	0.005	1.162	1.120	1.192	1.150	1.187**
	Left	1.182	0.778	0.016	0.019	1.198**	1.182**	1.198**
Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	Bluetooth Ant 5 at 12.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.854	0.002	0.110	0.131	0.966	0.987	1.097
	Top	0.400*	0.400*	0.400*	0.010	1.200	0.810	1.210
	Bottom	0.607	0.001	0.001	0.400*	0.609	1.008	1.009
	Right	0.025	0.055	1.162	1.120	1.242	1.200	1.242**
	Left	1.182	0.000	0.016	0.019	1.198	1.201	1.217

Table 11-20
Cellular Band Ant 3 Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	Bluetooth Ant 2a at 12.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.136	0.324	0.110	0.019	1.570	1.479	1.589
	Top	0.745	0.011	0.400*	0.000	1.156	0.756	1.156
	Bottom	0.400*	0.065	0.001	0.400*	0.466	0.865	0.866
	Right	1.069	0.194	1.162	0.311	1.356**	1.574	1.380**
	Left	0.400*	0.400*	0.016	0.019	0.816	0.819	0.835
Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	Bluetooth Ant 4a at 9 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.136	0.189	0.110	0.019	1.435	1.344	1.454
	Top	0.745	0.088	0.400*	0.000	1.233	0.833	1.233
	Bottom	0.400*	0.400*	0.001	0.400*	0.801	1.200	1.201
	Right	1.069	0.000	1.162	0.311	1.162**	1.380	1.380**
	Left	0.400*	0.180	0.016	0.019	0.596	0.599	0.615
Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	Bluetooth Ant 5 at 14.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.136	0.011	0.110	0.019	1.257	1.166	1.276
	Top	0.745	0.000	0.400*	0.000	1.145	0.745	1.145
	Bottom	0.400*	0.000	0.001	0.400*	0.401	0.800	0.801
	Right	1.069	0.282	1.162	0.311	1.444**	1.380**	1.444**
	Left	0.400*	0.400*	0.016	0.019	0.816	0.819	0.835

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Table 11-21
Cellular Band Ant 2a Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	Bluetooth Ant 2a at 8 dBm SAR (W/kg)	5 GHz WLAN Ant 5 Reduced SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.146	0.086	0.015	0.131	1.247	1.363	1.378
	Top	0.400*	0.400*	0.400*	0.010	1.200	0.810	1.210
	Bottom	0.402	0.019	0.000	0.400*	0.421	0.821	0.821
	Right	0.986	0.026	0.328	1.120	1.340	1.012**	1.340**
	Left	0.400*	0.000	0.016	0.019	0.416	0.419	0.435
Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5 Reduced SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.146	1.185	0.015	0.131	1.161**	1.146**	1.161**
	Top	0.400*	0.372	0.400*	0.010	1.172	0.782	1.182
	Bottom	0.402	0.400*	0.000	0.400*	0.802	1.202	1.202
	Right	0.986	0.005	0.328	1.120	1.319	1.125**	1.314**
	Left	0.400*	0.778	0.016	0.019	1.194	1.197	1.213
Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	Bluetooth Ant 5 at 12.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 Reduced SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.146	0.002	0.015	0.131	1.163	1.279	1.294
	Top	0.400*	0.400*	0.400*	0.010	1.200	0.810	1.210
	Bottom	0.402	0.001	0.000	0.400*	0.403	0.803	0.803
	Right	0.986	0.055	0.328	1.120	1.369	1.120**	1.369**
	Left	0.400*	0.000	0.016	0.019	0.416	0.419	0.435

Table 11-22
Cellular Band Ant 2b Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	Bluetooth Ant 2a at 8 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.150	0.086	0.110	0.131	1.346	1.367	1.477
	Top	0.400*	0.400*	0.400*	0.010	1.200	0.810	1.210
	Bottom	0.742	0.019	0.001	0.400*	0.762	1.161	1.162
	Right	0.060	0.026	1.162	1.120	1.248	1.206	1.248**
	Left	0.400*	0.000	0.016	0.019	0.416	0.419	0.435
Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.150	1.185	0.110	0.131	1.260**	1.185**	1.260**
	Top	0.400*	0.372	0.400*	0.010	1.172	0.782	1.182
	Bottom	0.742	0.400*	0.001	0.400*	1.143	1.542	1.543
	Right	0.060	0.005	1.162	1.120	1.227	1.185	1.222**
	Left	0.400*	0.778	0.016	0.019	1.194	1.197	1.213
Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	Bluetooth Ant 5 at 12.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.150	0.002	0.110	0.131	1.262	1.283	1.393
	Top	0.400*	0.400*	0.400*	0.010	1.200	0.810	1.210
	Bottom	0.742	0.001	0.001	0.400*	0.744	1.143	1.144
	Right	0.060	0.055	1.162	1.120	1.277	1.235	1.277**
	Left	0.400*	0.000	0.016	0.019	0.416	0.419	0.435

Table 11-23
Cellular Band Ant 4a Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4a SAR (W/kg)	Bluetooth Ant 2a at 12.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.178	0.324	0.110	0.131	1.178**	1.178**	1.178**
	Top	0.432	0.011	0.400*	0.010	0.843	0.453	0.853
	Bottom	0.400*	0.065	0.001	0.400*	0.466	0.865	0.866
	Right	0.003	0.194	1.162	1.120	1.359	1.317	1.356**
	Left	1.107	0.400*	0.016	0.019	1.523	1.526	1.542

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Simult Tx	Configuration	Cellular Band Ant 4a SAR (W/kg)	Bluetooth Ant. 4a at 9 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.178	0.189	0.110	0.131	1.477	1.498	1.367**
	Top	0.432	0.088	0.400*	0.010	0.920	0.530	0.930
	Bottom	0.400*	0.400*	0.001	0.400*	0.801	1.200	1.201
	Right	0.003	0.000	1.162	1.120	1.165	1.123	1.162**
	Left	1.107	0.180	0.016	0.019	1.303	1.306	1.322
Simult Tx	Configuration	Cellular Band Ant 4a SAR (W/kg)	Bluetooth Ant 5 at 14.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.178	0.011	0.110	0.131	1.299	1.320	1.430
	Top	0.432	0.000	0.400*	0.010	0.832	0.442	0.842
	Bottom	0.400*	0.000	0.001	0.400*	0.401	0.800	0.801
	Right	0.003	0.282	1.162	1.120	1.447	1.405	1.444**
	Left	1.107	0.400*	0.016	0.019	1.523	1.526	1.542

Table 11-24
Cellular Band Ant 4b Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	Bluetooth Ant 2a at 12.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.150	0.324	0.110	0.131	1.584	1.150**	1.150**
	Top	0.920	0.011	0.400*	0.010	1.331	0.941	1.341
	Bottom	0.400*	0.065	0.001	0.400*	0.466	0.865	0.866
	Right	0.040	0.194	1.162	1.120	1.396	1.354	1.356**
	Left	0.078	0.400*	0.016	0.019	0.494	0.497	0.513
Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	Bluetooth Ant. 4a at 9 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.150	0.189	0.110	0.131	1.449	1.470	1.580
	Top	0.920	0.088	0.400*	0.010	1.408	1.018	1.418
	Bottom	0.400*	0.400*	0.001	0.400*	0.801	1.200	1.201
	Right	0.040	0.000	1.162	1.120	1.202	1.160	1.162**
	Left	0.078	0.180	0.016	0.019	0.274	0.277	0.293
Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	Bluetooth Ant 5 at 14.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	1.150	0.011	0.110	0.131	1.271	1.292	1.402
	Top	0.920	0.000	0.400*	0.010	1.320	0.930	1.330
	Bottom	0.400*	0.000	0.001	0.400*	0.401	0.800	0.801
	Right	0.040	0.282	1.162	1.120	1.484	1.442	1.444**
	Left	0.078	0.400*	0.016	0.019	0.494	0.497	0.513

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Table 11-25
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN

Simult Tx	Configuration	Bluetooth Ant 2a at 12.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	Bluetooth Ant 2a at 12.5 dBm SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Body SAR	Back	0.324	0.110	0.434	Body SAR	Back	0.324	0.131	0.455
	Top	0.011	0.400*	0.411		Top	0.011	0.010	0.021
	Bottom	0.065	0.001	0.066		Bottom	0.065	0.400*	0.465
	Right	0.194	1.162	1.356		Right	0.194	1.120	1.314
	Left	0.400*	0.016	0.416		Left	0.400*	0.019	0.419
Simult Tx	Configuration	Bluetooth Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	Bluetooth Ant 4a SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Body SAR	Back	1.185	0.110	1.295	Body SAR	Back	1.185	0.131	1.316
	Top	0.372	0.400*	0.772		Top	0.372	0.010	0.382
	Bottom	0.400*	0.001	0.401		Bottom	0.400*	0.400*	0.800
	Right	0.005	1.162	1.167		Right	0.005	1.120	1.125
	Left	0.778	0.016	0.794		Left	0.778	0.019	0.797
Simult Tx	Configuration	Bluetooth Ant 5 at 14.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	Bluetooth Ant 5 at 14.5 dBm SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2+3			1	2	1+2+3
Body SAR	Back	0.011	0.110	0.121	Body SAR	Back	0.011	0.131	0.142
	Top	0.000	0.400*	0.400		Top	0.000	0.010	0.010
	Bottom	0.000	0.001	0.001		Bottom	0.000	0.400*	0.400
	Right	0.282	1.162	1.444		Right	0.282	1.120	1.402
	Left	0.400*	0.016	0.416		Left	0.400*	0.019	0.419

Table 11-26
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN MIMO

Simult Tx	Configuration	Bluetooth Ant 2a at 12.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.324	0.110	0.131	0.565
	Top	0.011	0.400*	0.010	0.421
	Bottom	0.065	0.001	0.400*	0.466
	Right	0.194	1.162	1.120	1.356**
	Left	0.400*	0.016	0.019	0.435
Simult Tx	Configuration	Bluetooth Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	1.185	0.110	0.131	1.426
	Top	0.372	0.400*	0.010	0.782
	Bottom	0.400*	0.001	0.400*	0.801
	Right	0.005	1.162	1.120	1.162**
	Left	0.778	0.016	0.019	0.813
Simult Tx	Configuration	Bluetooth Ant 5 at 14.5 dBm SAR (W/kg)	5 GHz WLAN Ant 5 SAR (W/kg)	5 GHz WLAN Ant 6 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.011	0.110	0.131	0.252
	Top	0.000	0.400*	0.010	0.410
	Bottom	0.000	0.001	0.400*	0.401
	Right	0.282	1.162	1.120	1.444**
	Left	0.400*	0.016	0.019	0.435

Notes:

- When the antenna separation distance was > 50 mm, an estimated SAR of 0.4* W/kg was used to determine the simultaneous transmission SAR exclusion for test positions excluded per FCC KDB Publication 447498 D01v06.

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11.4 Spatial Separation Analysis

Per FCC KDB Publication 248227, antennas may be considered spatially separated when the aggregate SAR from multiple antennas at any location in the combined SAR distribution is either $\leq 1.2\text{ W/kg}$ where at least 90% of the SAR is attributed to a single SAR distribution or $\leq 0.4\text{ W/kg}$ where no more than one SAR distribution is contributing $> 0.1\text{ W/kg}$.

Spatial separation was determined by inspection of the area scan SAR distributions to confirm that at all locations, SAR was $< 1.2\text{ W/kg}$, where at least 90% of the SAR is attributed to a single SAR distribution. See below for illustrations of the spatial separated antennas considered.

11.4.1 Back Side Spatial Separation Analysis

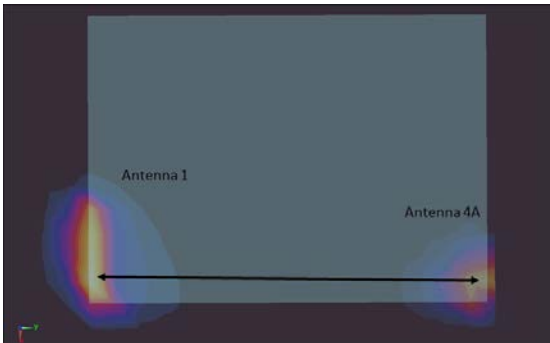


Figure 11-1
Back Side Spatial Separation for Antenna 4A and Antenna 1

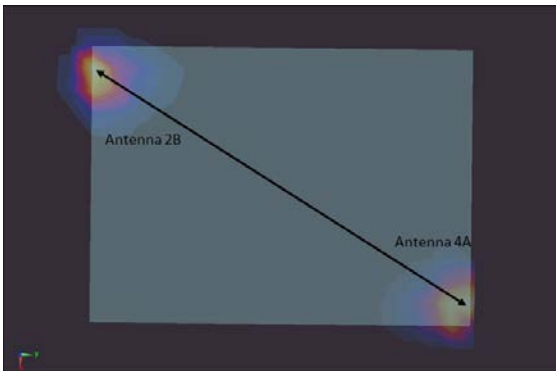


Figure 11-2
Back Side Spatial Separation for Antenna 4A and Antenna 2B

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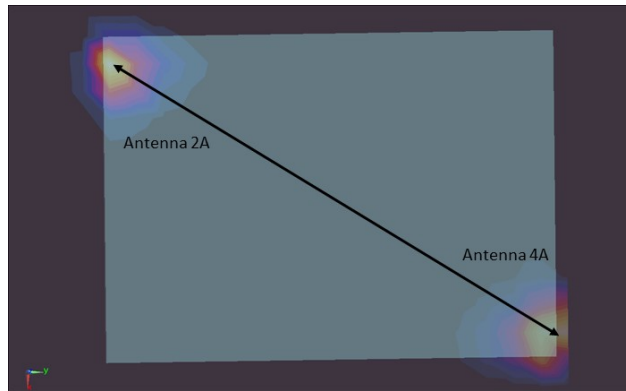


Figure 11-3
Back Side Spatial Separation for Antenna 4A and Antenna 2A

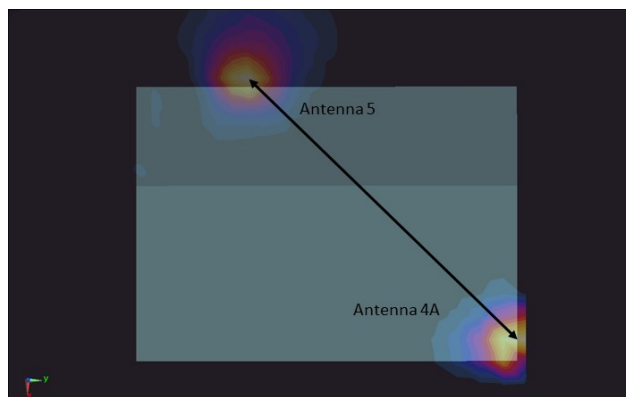


Figure 11-4
Back Side Spatial Separation for Antenna 4A and Antenna 5

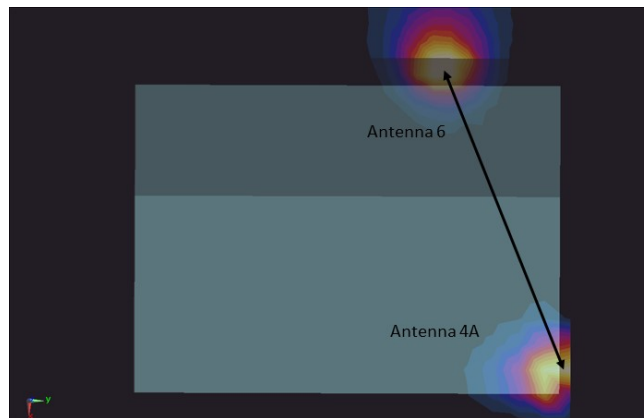


Figure 11-5
Back Side Spatial Separation for Antenna 4A and Antenna 6

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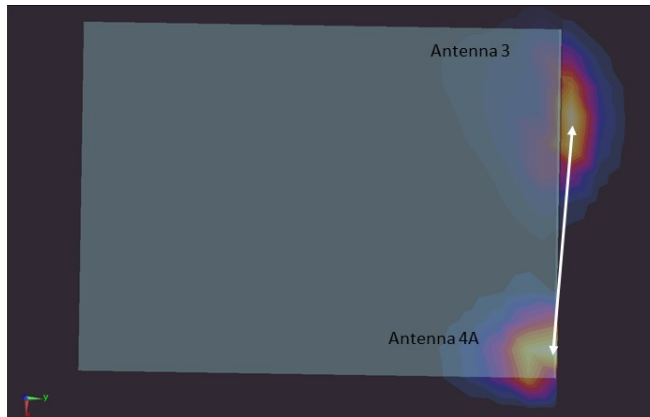


Figure 11-6
Back Side Spatial Separation for Antenna 4A and Antenna 3

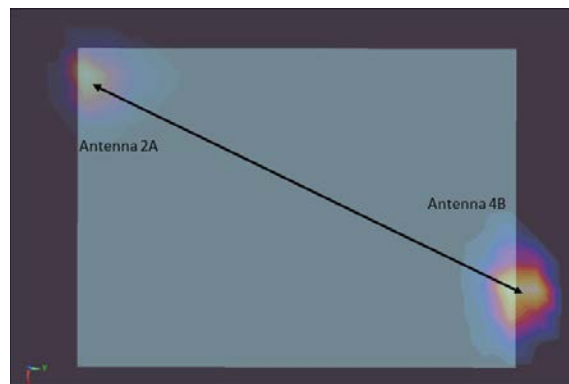


Figure 11-7
Back Side Spatial Separation for Antenna 4B and Antenna 2A

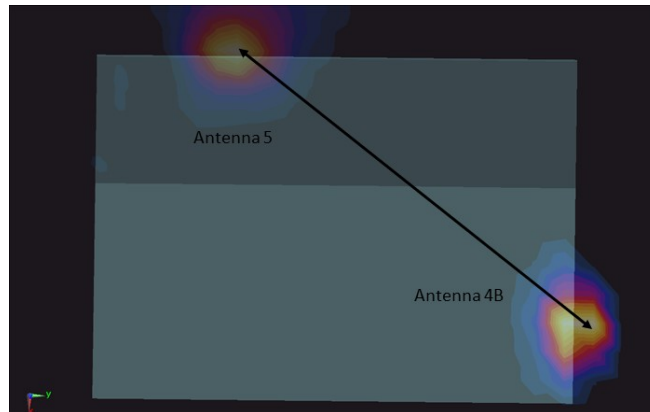


Figure 11-8
Back Side Spatial Separation for Antenna 4B and Antenna 5

FCC ID: BCGA2013	 SAR EVALUATION REPORT		Approved by: Quality Manager
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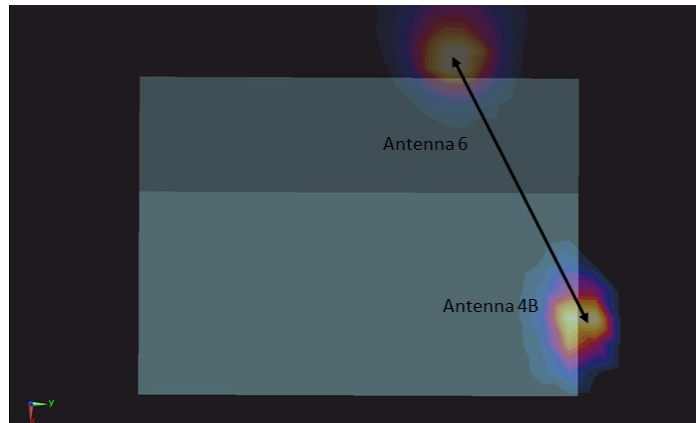


Figure 11-9
Back Side Spatial Separation for Antenna 4B and Antenna 6

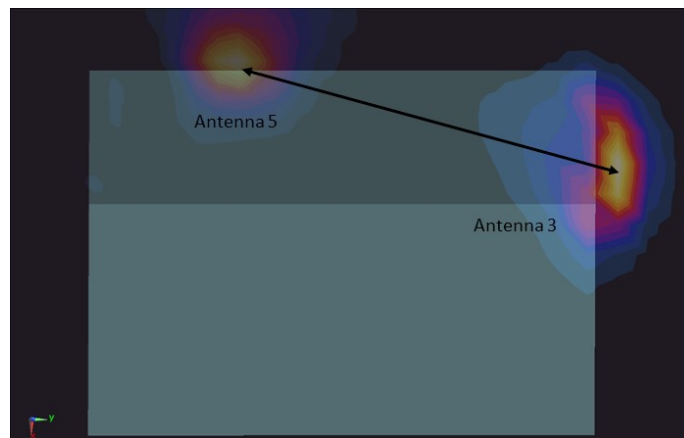


Figure 11-10
Back Side Spatial Separation for Antenna 3 and Antenna 5

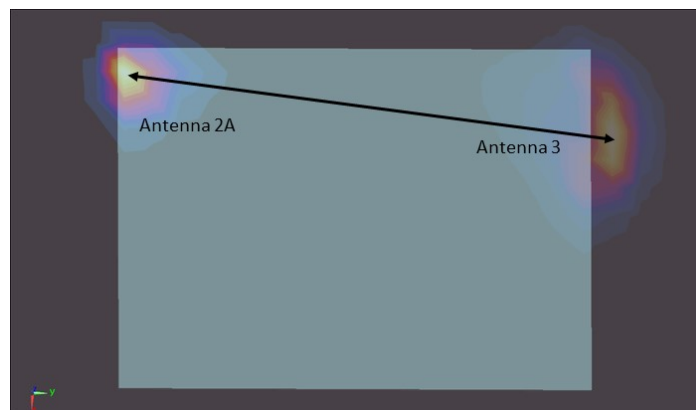


Figure 11-11
Back Side Spatial Separation for Antenna 3 and Antenna 2A

FCC ID: BCGA2013	 SAR EVALUATION REPORT		Approved by: Quality Manager
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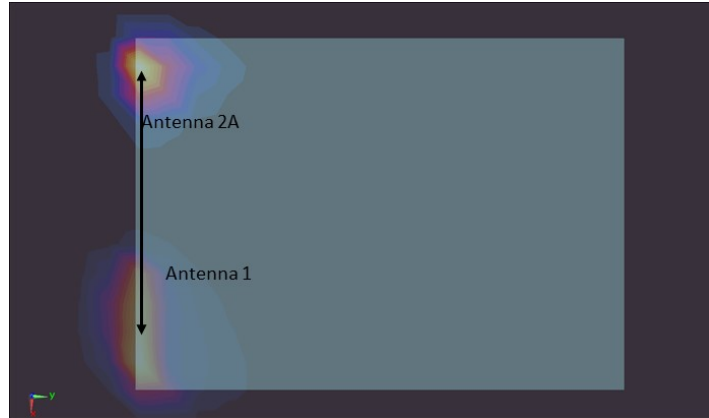


Figure 11-12
Back Side Spatial Separation for Antenna 1 and Antenna 2A

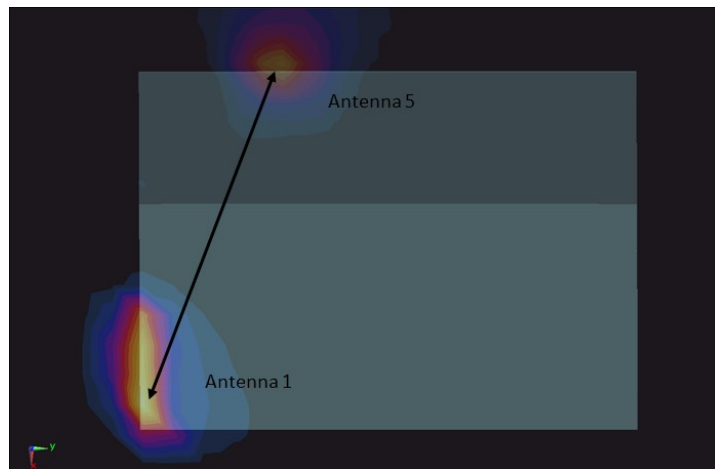


Figure 11-13
Back Side Spatial Separation for Antenna 1 and Antenna 5

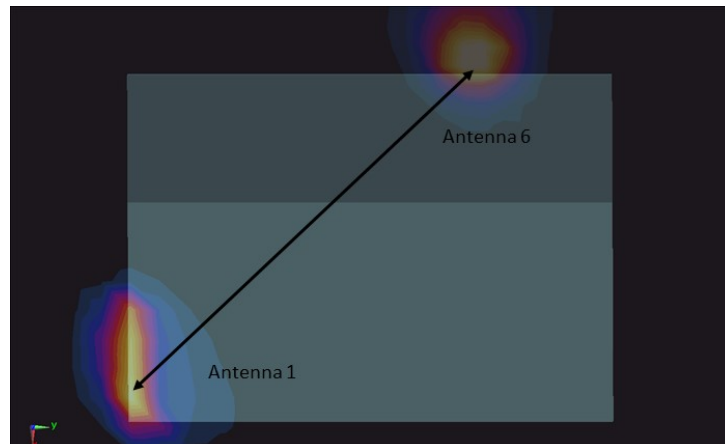


Figure 11-14
Back Side Spatial Separation for Antenna 1 and Antenna 6

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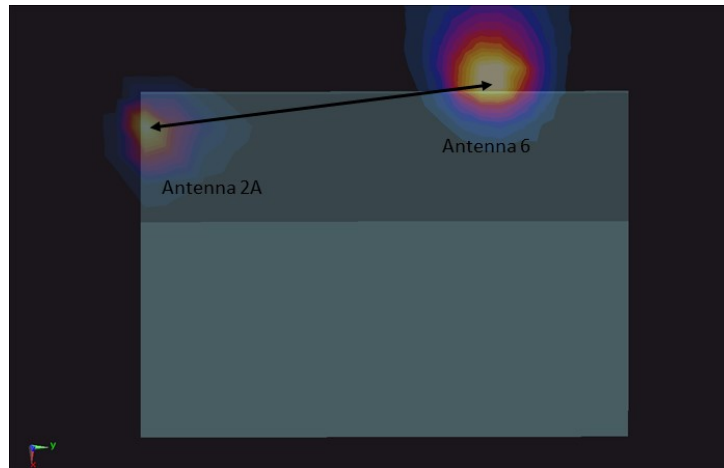


Figure 11-15
Back Side Spatial Separation for Antenna 2A and Antenna 6

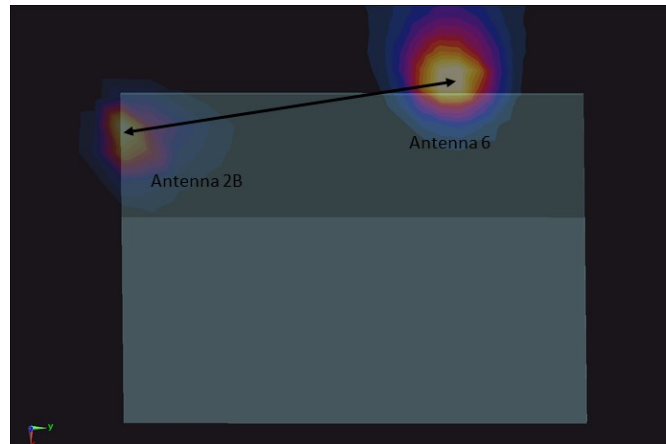


Figure 11-16
Back Side Spatial Separation for Antenna 2B and Antenna 6

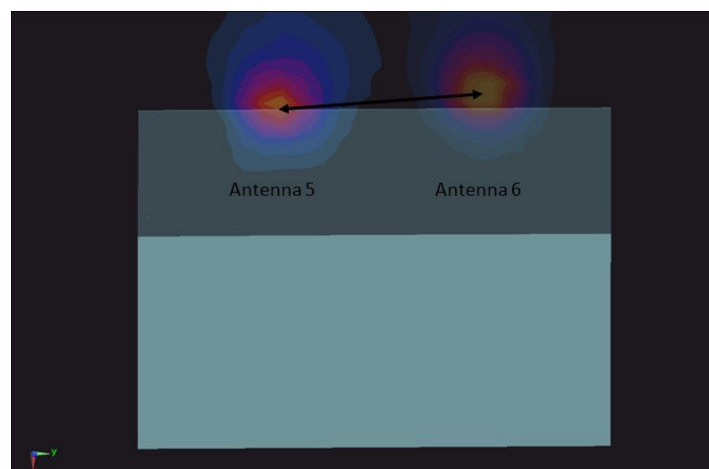


Figure 11-17
Back Side Spatial Separation for Antenna 5 and Antenna 6

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11.4.2 Right Edge Spatial Separation Analysis

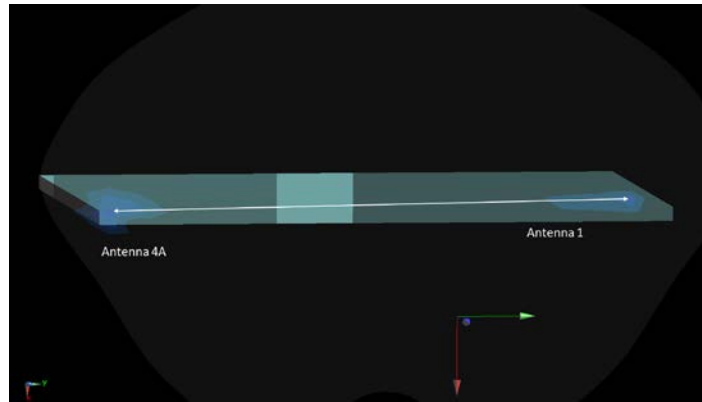


Figure 11-18
Right Edge Spatial Separation for Antenna 4A and Antenna 1

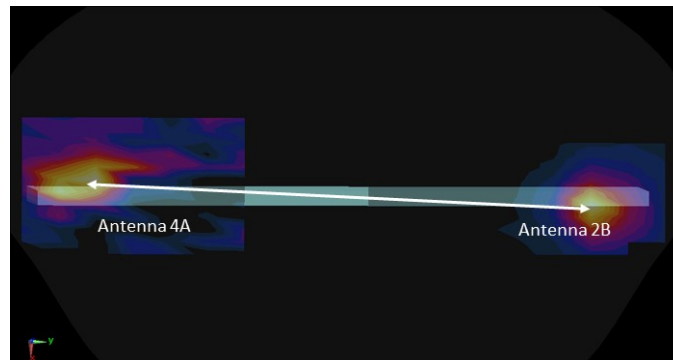


Figure 11-19
Right Edge Spatial Separation for Antenna 4A and Antenna 2B

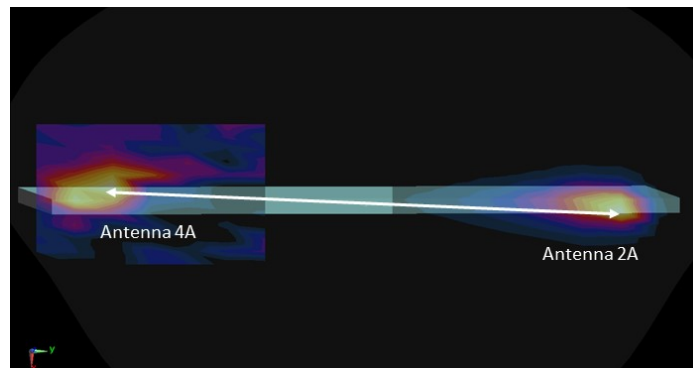


Figure 11-20
Right Edge Spatial Separation for Antenna 4A and Antenna 2A

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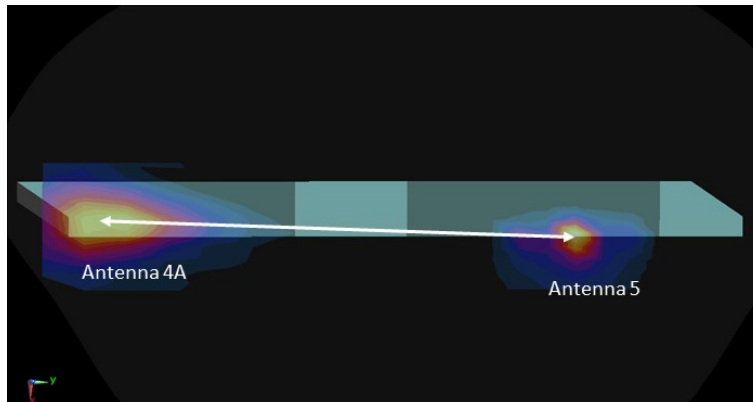


Figure 11-21
Right Edge Spatial Separation for Antenna 4A and Antenna 5

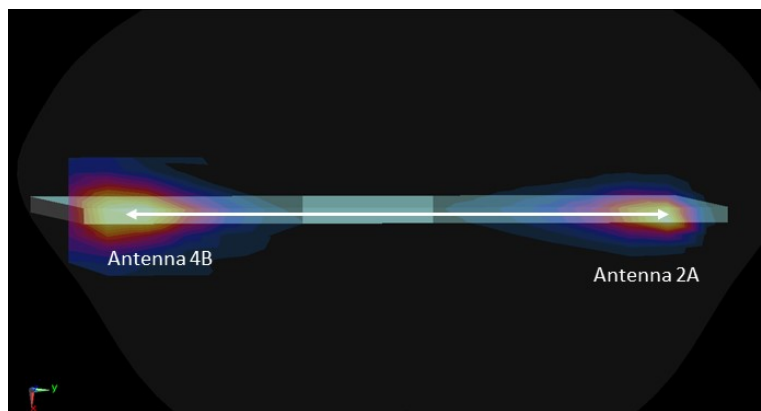


Figure 11-22
Right Edge Spatial Separation for Antenna 4B and Antenna 2A

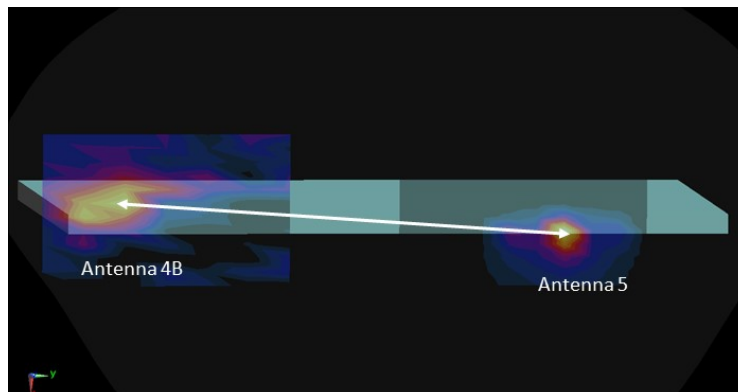


Figure 11-23
Right Edge Spatial Separation for Antenna 4B and Antenna 5

FCC ID: BCGA2013	 SAR EVALUATION REPORT		Approved by: Quality Manager
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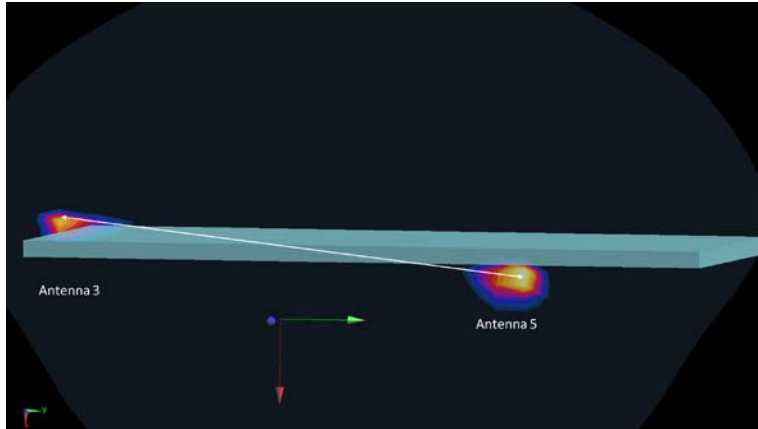


Figure 11-24
Right Edge Spatial Separation for Antenna 3 and Antenna 5

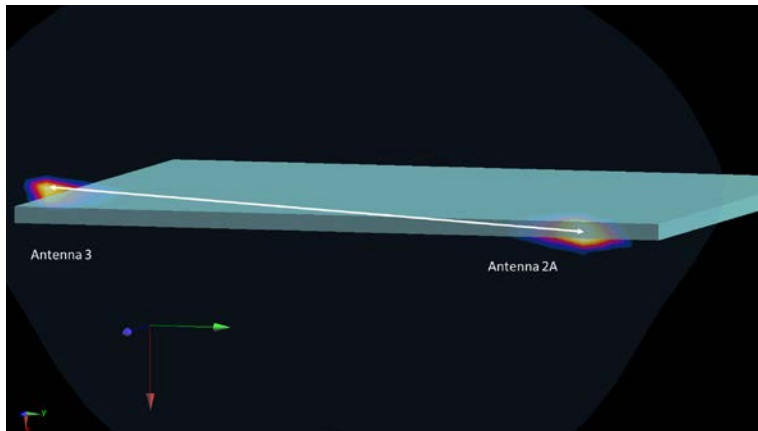


Figure 11-25
Right Edge Spatial Separation for Antenna 3 and Antenna 2A

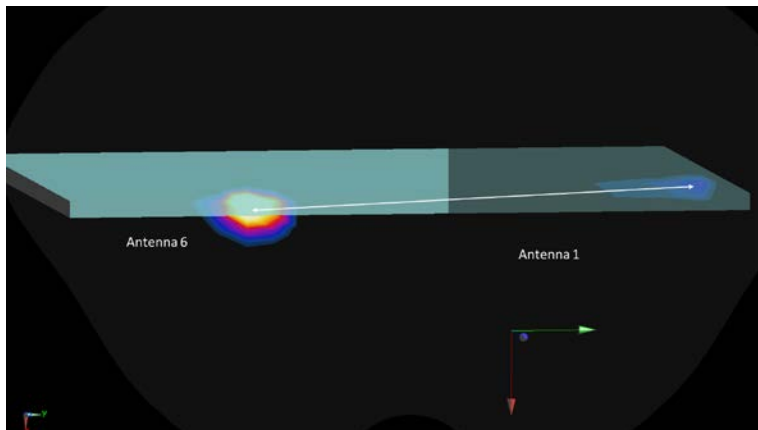


Figure 11-26
Right Edge Spatial Separation for Antenna 1 and Antenna 6

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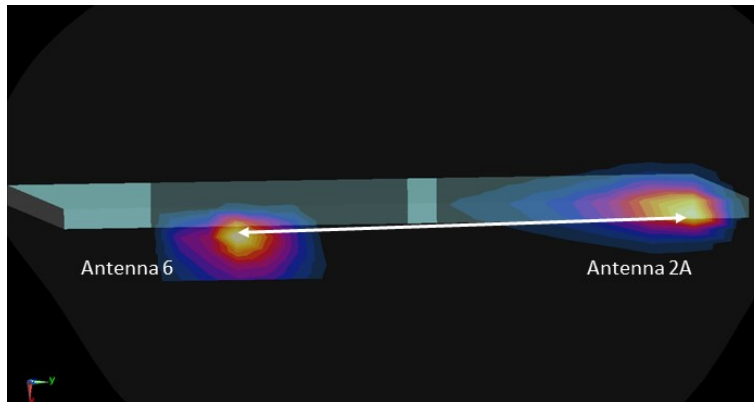


Figure 11-27
Right Edge Spatial Separation for Antenna 2A and Antenna 6

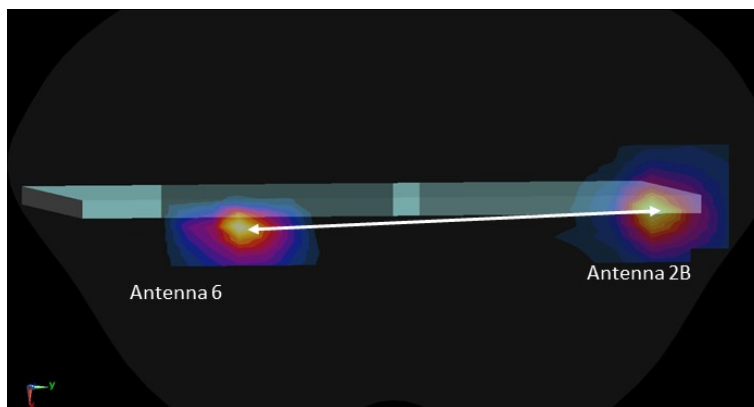


Figure 11-28
Right Edge Spatial Separation for Antenna 2B and Antenna 6

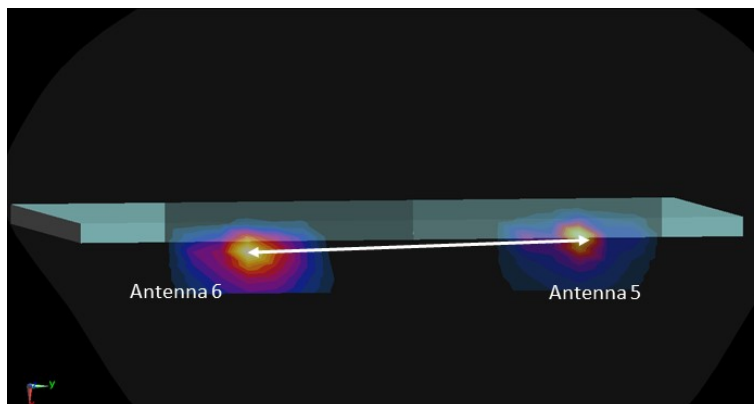


Figure 11-29
Right Edge Spatial Separation for Antenna 5 and Antenna 6

FCC ID: BCGA2013	 SAR EVALUATION REPORT		Approved by: Quality Manager
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11.4.3 Left Edge Spatial Separation Analysis

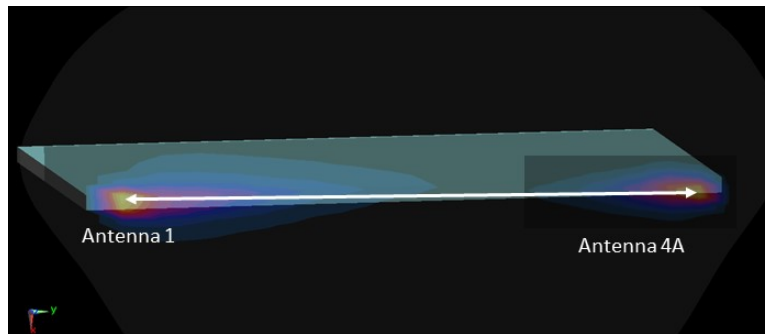


Figure 11-30
Left Edge Spatial Separation for Antenna 1 and Antenna 4A

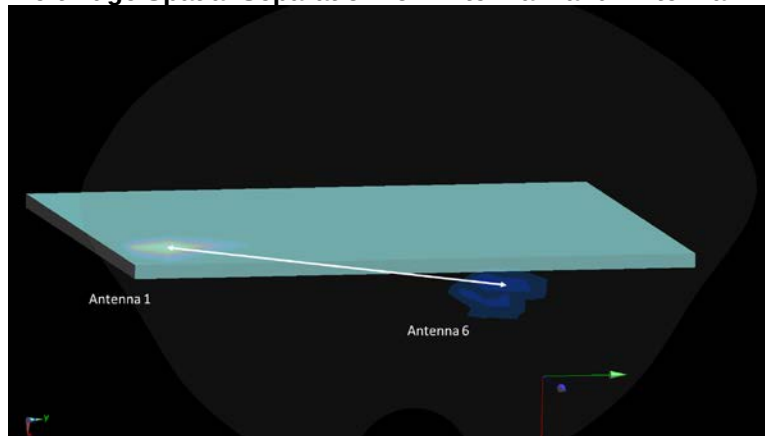


Figure 11-31
Left Edge Spatial Separation for Antenna 1 and Antenna 6

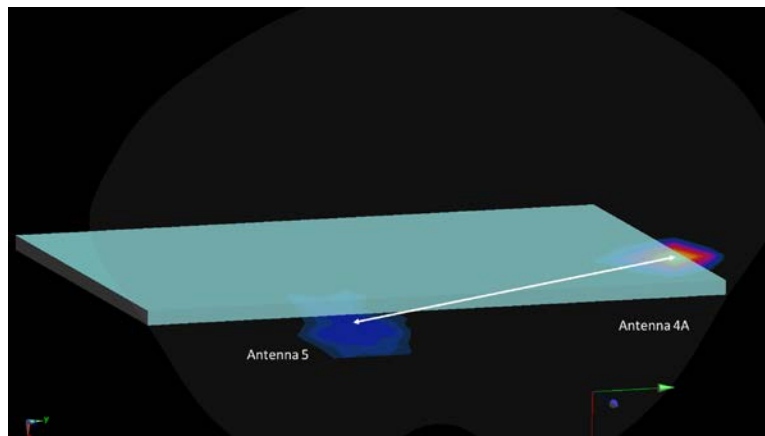


Figure 11-32
Left Edge Spatial Separation for Antenna 4A and Antenna 5

FCC ID: BCGA2013	 SAR EVALUATION REPORT		Approved by: Quality Manager
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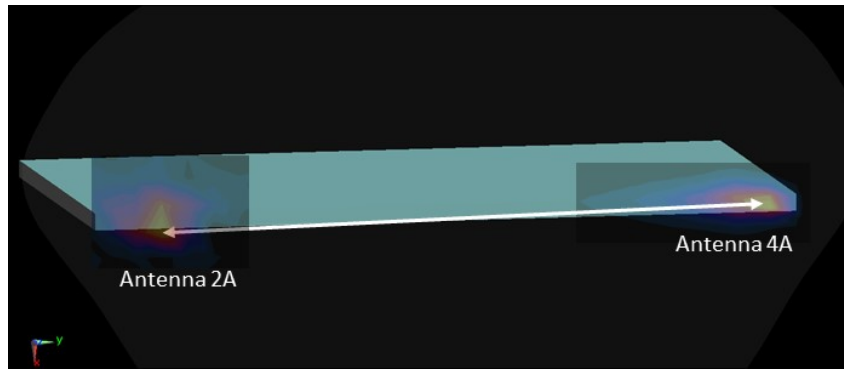


Figure 11-33
Left Edge Spatial Separation for Antenna 2A and Antenna 4A

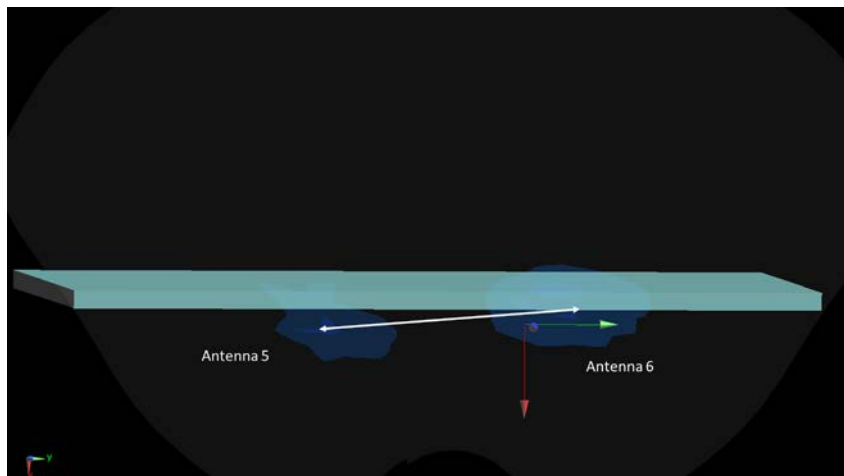


Figure 11-34
Left Edge Spatial Separation for Antenna 5 and Antenna 6

11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results and spatial separation analysis for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is 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 6.3.4.1.2.

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12 SAR MEASUREMENT VARIABILITY

12.1 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 (~ 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

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Antenna Config.	Data Rate (Mbps)	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)	
750	782.00	23230	LTE Band 13, 10 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Ant 1	N/A	left	0 mm	1.180	1.130	1.04	N/A	N/A	N/A	N/A
835	836.50	20525	LTE Band 5 (Cell), 10 MHz Bandwidth	QPSK, 25 RB, 25 RB Offset	Ant 1	N/A	left	0 mm	1.180	1.110	1.06	N/A	N/A	N/A	N/A
1750	1745.00	132322	LTE Band 66 (AWS), 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	Ant 4a	N/A	back	0 mm	1.140	1.060	1.08	N/A	N/A	N/A	N/A
1900	1860.00	26140	LTE Band 25 (PCS), 20 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Ant 4a	N/A	back	0 mm	1.110	1.000	1.11	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 4a	N/A	back	0 mm	1.040	0.989	1.05	N/A	N/A	N/A	N/A
2450	2402.00	0	Bluetooth	FHSS	Ant 4a	1	back	0 mm	1.170	1.160	1.01	N/A	N/A	N/A	N/A
2600	2535.00	21100	LTE Band 7, 20 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Ant 2b	N/A	back	0 mm	1.150	1.010	1.14	N/A	N/A	N/A	N/A
5250	5270.00	54	802.11n, 40 MHz Bandwidth	OFDM	Ant 5	13.5	right	0 mm	1.130	1.070	1.06	N/A	N/A	N/A	N/A
5600	5610.00	122	802.11ac, 80 MHz Bandwidth	OFDM	Ant 6	29.3	right	0 mm	1.050	1.040	1.01	N/A	N/A	N/A	N/A
5750	5775.00	155	802.11ac, 80 MHz Bandwidth	OFDM	Ant 6	29.3	right	0 mm	1.040	1.020	1.02	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						

12.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg 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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13 ADDITIONAL TESTING PER FCC GUIDANCE

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

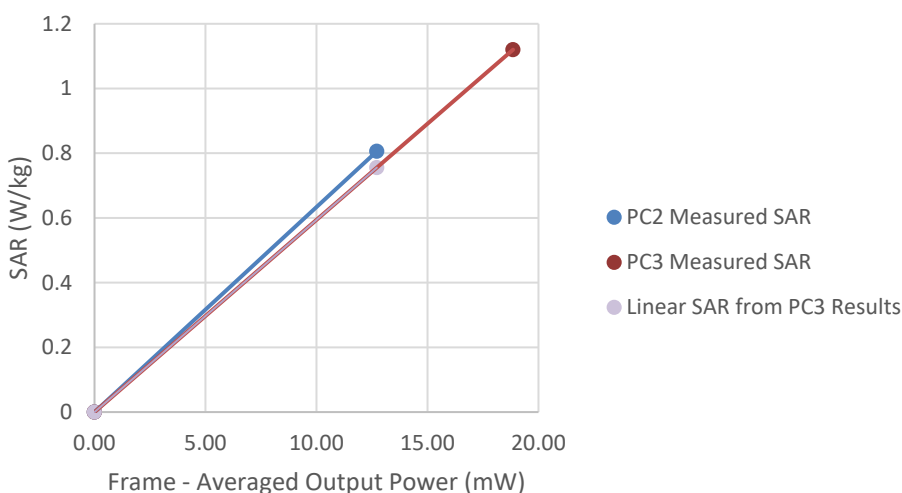
This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with 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 as < 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 13-1
LTE Band 41 Body Linearity Data – Ant 2a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.8	14.8
Measured Output Power (dBm)	14.74	14.68
Measured SAR (W/kg)	1.12	0.806
Measured Power (mW)	29.79	29.38
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	18.85	12.72
% deviation from expected linearity		6.67%

LTE B41 SAR for PC2 and PC3 Operations

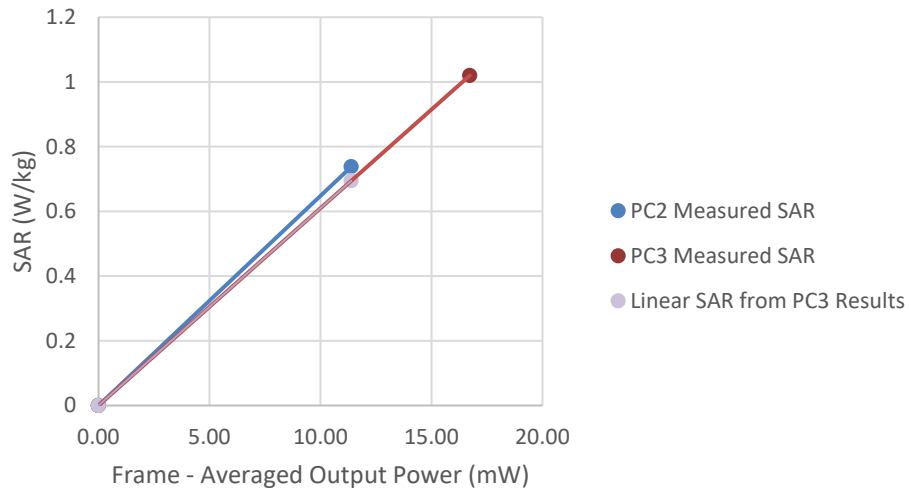


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Table 13-2
LTE Band 41 Body Linearity Data – Ant 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.5	14.5
Measured Output Power (dBm)	14.22	14.2
Measured SAR (W/kg)	1.02	0.738
Measured Power (mW)	26.42	26.30
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	16.73	11.39
% deviation from expected linearity		6.26%

LTE B41 SAR for PC2 and PC3 Operations

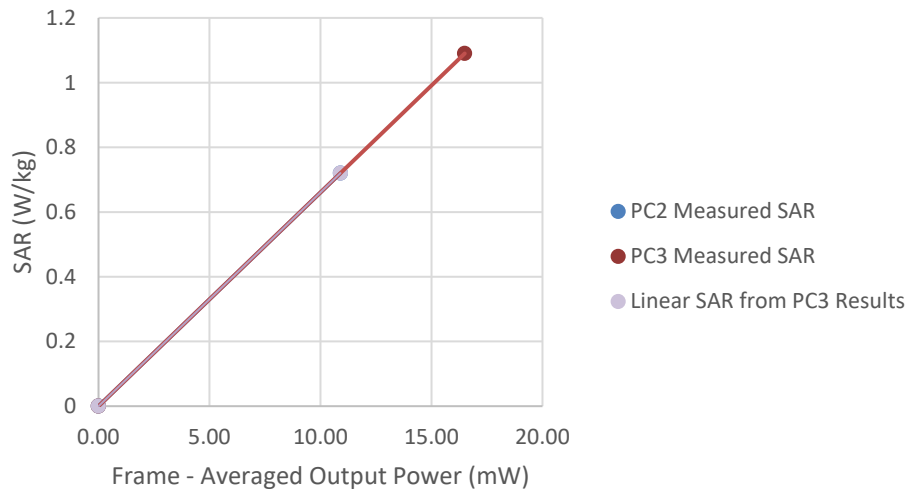


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Table 13-3
LTE Band 41 Body Linearity Data – Ant 4a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.5	14.5
Measured Output Power (dBm)	14.16	14.01
Measured SAR (W/kg)	1.09	0.72
Measured Power (mW)	26.06	25.18
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	16.50	10.90
% deviation from expected linearity		-0.04%

LTE B41 SAR for PC2 and PC3 Operations

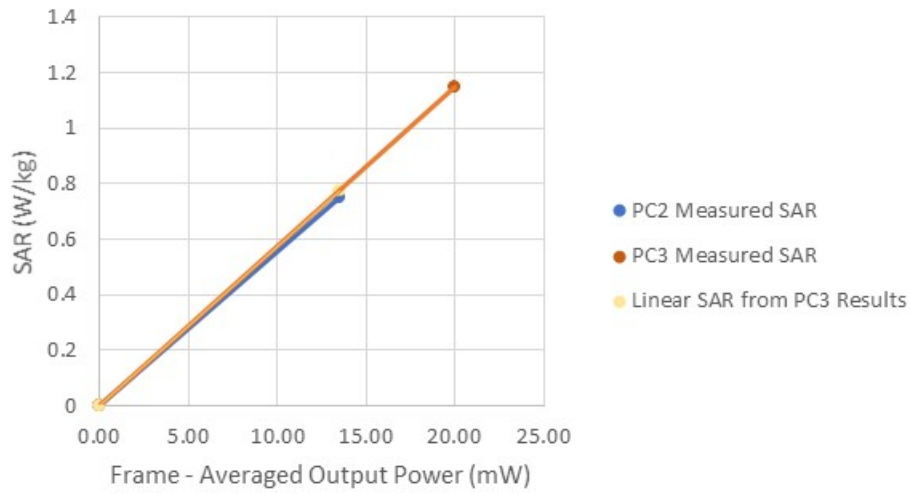


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Table 13-4
LTE Band 41 Body Linearity Data – Ant 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15	15
Measured Output Power (dBm)	15	14.94
Measured SAR (W/kg)	1.15	0.749
Measured Power (mW)	31.62	31.19
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	20.02	13.50
% deviation from expected linearity		-3.46%

LTE B41 SAR for PC2 and PC3 Operations



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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	9/14/2017	Annual	9/14/2018	US39170118
Agilent	8753ES	Network Analyzer	2/21/2018	Annual	2/21/2019	MY40001472
Agilent	E4438C	ESG Vector Signal Generator	6/22/2018	Annual	6/22/2019	MY53401181
Agilent	E5515C	Wireless Communications Test Set	2/28/2018	Biennial	2/28/2020	GB41450275
Agilent	N5182A	MXG Vector Signal Generator	6/15/2018	Annual	6/15/2019	MY47420837
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA24106A	USB Power Sensor	6/5/2018	Annual	6/5/2019	1248508
Anritsu	MA24106A	USB Power Sensor	1/19/2018	Annual	1/19/2019	1520503
Anritsu	MA24106A	USB Power Sensor	1/19/2018	Annual	1/19/2019	1520501
Anritsu	MA2411B	Pulse Power Sensor	11/15/2017	Annual	11/15/2018	1339007
Anritsu	ML2496A	Power Meter	10/9/2017	Annual	10/9/2018	1138001
Anritsu	MT8820C	Radio Communication Analyzer	6/27/2018	Annual	6/27/2019	6201240328
Anritsu	MT8821C	Radio Communication Analyzer	7/24/2018	Annual	7/24/2019	6201664756
Anritsu	MT8821C	Radio Communication Analyzer	11/17/2017	Annual	11/17/2018	6201664756
Control Company	4040	Digital Thermometer	4/7/2017	Biennial	4/7/2019	150286298
Control Company	4040	Digital Thermometer	2/28/2018	Biennial	2/28/2020	150761911
Control Company	4352	Ultra Long Stem Thermometer	2/14/2017	Biennial	2/14/2019	170112507
Control Company	4352	Ultra Long Stem Thermometer	5/2/2017	Biennial	5/2/2019	170330160
Control Company	4352	Ultra Long Stem Thermometer	5/2/2017	Biennial	5/2/2019	170330158
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mitutoyo	CD-6"CSX	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
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE5011-1	Torque Wrench	7/19/2017	Biennial	7/19/2019	N/A
Pasternack	PE5011-1	Torque Wrench	7/19/2017	Biennial	7/19/2019	N/A
Pasternack	PE5011-1	Torque Wrench	7/19/2017	Biennial	7/19/2019	N/A
Pasternack	PE5011-1	Torque Wrench	7/19/2017	Biennial	7/19/2019	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	7/5/2018	Annual	7/5/2019	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	4/20/2018	Annual	4/20/2019	128635
Rohde & Schwarz	CMW500	Radio Communication Tester	7/5/2018	Annual	7/5/2019	145663
Rohde & Schwarz	FSP-7	Spectrum Analyzer	2/7/2018	Annual	2/7/2019	100288
SPEAG	D1750V2	1750 MHz SAR Dipole	9/7/2017	Biennial	9/7/2019	1104
SPEAG	D1900V2	1900 MHz SAR Dipole	9/7/2017	Biennial	9/7/2019	5d181
SPEAG	D1900V2	1900 MHz SAR Dipole	8/16/2017	Biennial	8/16/2019	5d180
SPEAG	D2450V2	2450 MHz SAR Dipole	5/16/2018	Annual	5/16/2019	945
SPEAG	D2600V2	2600 MHz SAR Dipole	6/7/2017	Biennial	6/7/2019	1042
SPEAG	D2600V2	2600 MHz SAR Dipole	9/11/2017	Biennial	9/11/2019	1069
SPEAG	D5GHzV2	SAR Dipole	9/13/2017	Annual	9/13/2018	1163
SPEAG	D750V3	750 MHz SAR Dipole	9/8/2017	Biennial	9/8/2019	1097
SPEAG	D750V3	750 MHz SAR Dipole	6/13/2017	Biennial	6/13/2019	1057
SPEAG	D2300V2	2300 MHz SAR Dipole	3/7/2018	Annual	3/7/2019	1038
SPEAG	D835V2	835 MHz SAR Dipole	5/18/2018	Annual	5/18/2019	4d180
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/8/2018	Annual	2/8/2019	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/18/2018	Annual	6/18/2019	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/18/2018	Annual	1/18/2019	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/26/2018	Annual	1/26/2019	1532
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/12/2018	Annual	4/12/2019	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/7/2018	Annual	3/7/2019	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/26/2018	Annual	1/26/2019	1533
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/15/2018	Annual	5/15/2019	1070
SPEAG	ES3DV3	SAR Probe	2/13/2018	Annual	2/13/2019	3329
SPEAG	ES3DV3	SAR Probe	4/12/2018	Annual	4/12/2019	3275
SPEAG	ES3DV3	SAR Probe	3/13/2018	Annual	3/13/2019	3131
SPEAG	EX3DV4	SAR Probe	7/20/2018	Annual	7/20/2019	7416
SPEAG	EX3DV4	SAR Probe	3/16/2018	Annual	3/16/2019	3837
SPEAG	EX3DV4	SAR Probe	1/26/2018	Annual	1/26/2019	7490
SPEAG	ES3DV3	SAR Probe	9/18/2017	Annual	9/18/2018	3287
SPEAG	ES3DV2	SAR Probe	6/22/2018	Annual	6/22/2019	3022

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

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15 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	60
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2					23.0	22.6	

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16 CONCLUSION

16.1 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: BCGA2013; Type: Tablet Device; Serial: DLXX7029L3TQ

Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium: 835 Body Medium parameters used (interpolated):

$f = 824.2 \text{ MHz}$; $\sigma = 0.987 \text{ S/m}$; $\epsilon_r = 54.257$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 09-02-2018; Ambient Temp: 23.1°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7490; ConvF(10.3, 10.3, 10.3); Calibrated: 1/26/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 1/26/2018

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: GPRS 850, Body SAR, Ant 3 Back side, Low.ch, 2 Tx Slots

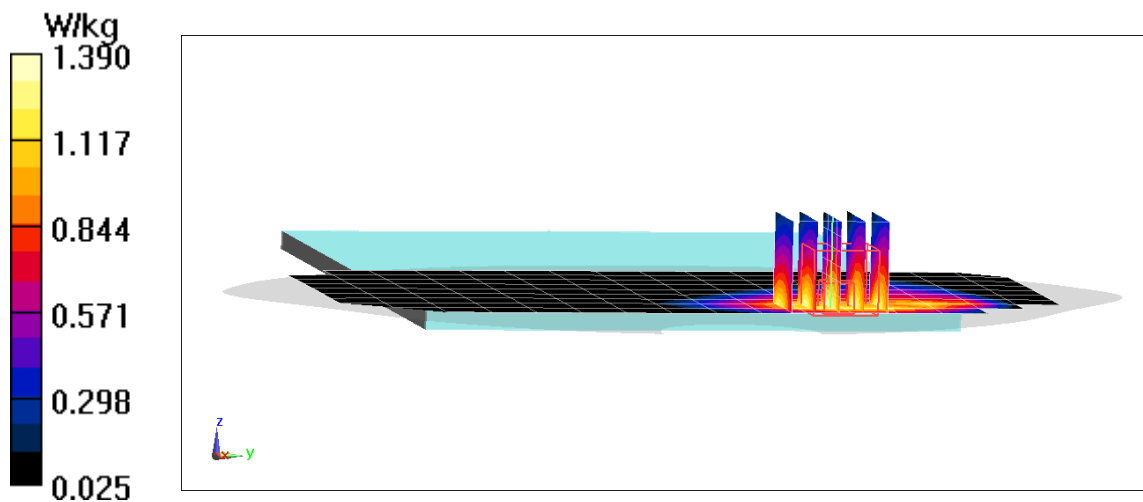
Area Scan (10x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 29.04 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 0.942 W/kg; SAR(10 g) = 0.492 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX7029L3TQ

Communication System: UID 0, GSM GPRS; 2 Tx slots, Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

Medium parameters used: 1900 Body Medium parameters used:

$f = 1910 \text{ MHz}$; $\sigma = 1.584 \text{ S/m}$; $\epsilon_r = 50.858$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 09-03-2018; Ambient Temp: 23.0°C; Tissue Temp: 21.0°C

Probe: ES3DV3 - SN3131; ConvF(4.8, 4.8, 4.8); Calibrated: 3/13/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/7/2018

Phantom: SAM Sub; Type: QD 000 P40 CC; Serial: 1375

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: GPRS 1900, Body SAR, Ant 4a Left Edge, High.ch, 2 Tx Slots

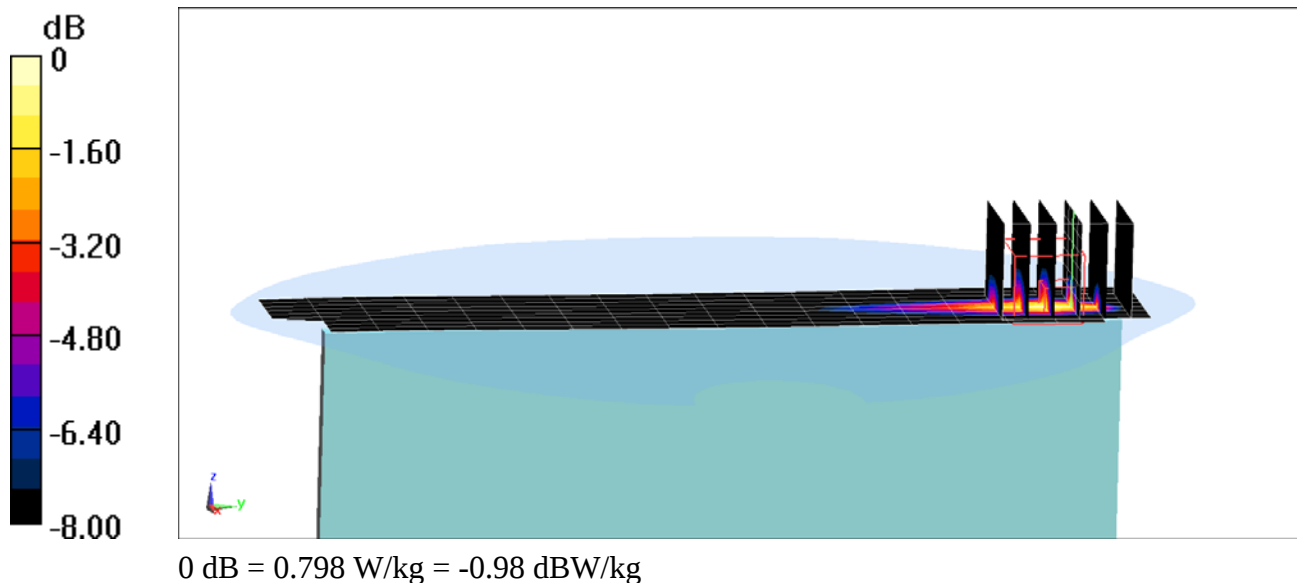
Area Scan (10x19x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

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

Reference Value = 25.96 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.60 W/kg

SAR(1 g) = 0.940 W/kg; SAR(10 g) = 0.369 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX7029L3TQ

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

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.985 \text{ S/m}$; $\epsilon_r = 53.11$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-27-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7490; ConvF(10.3, 10.3, 10.3); Calibrated: 1/26/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 1/26/2018

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: UMTS 850, Body SAR, Ant 3 Back side, Mid.ch

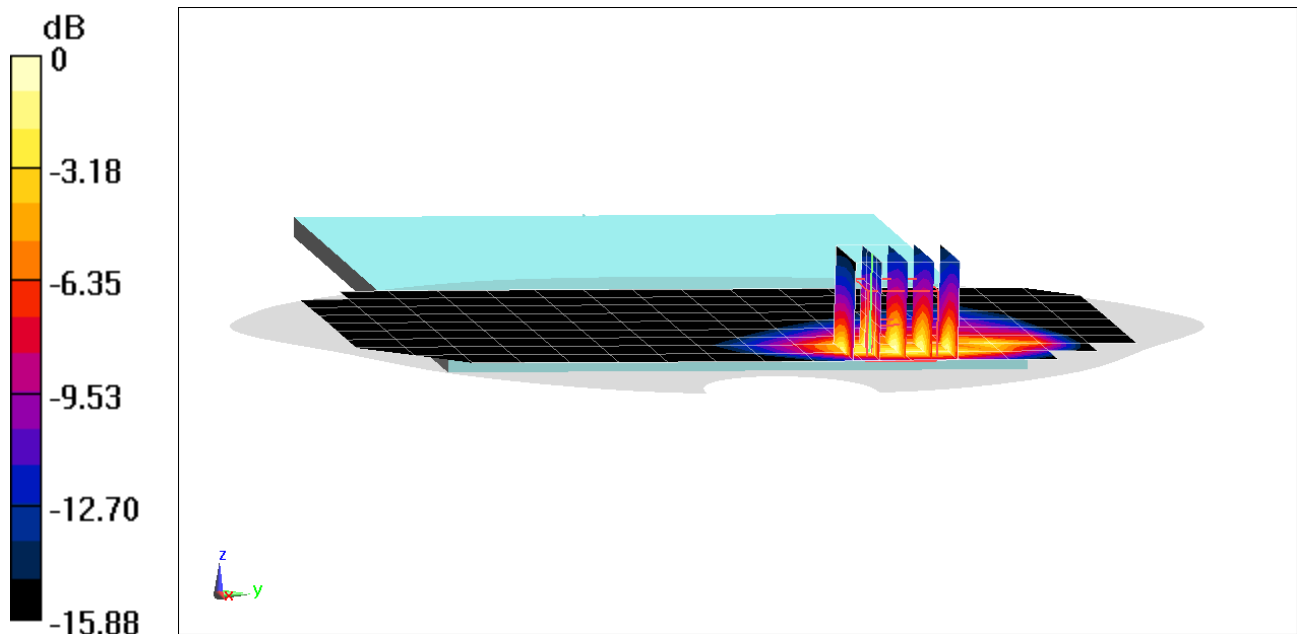
Area Scan (10x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Reference Value = 33.62 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.532 W/kg



0 dB = 1.56 W/kg = 1.93 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX702ML3TQ

Communication System: UID 0, UMTS; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1752.6 \text{ MHz}$; $\sigma = 1.496 \text{ S/m}$; $\epsilon_r = 52.971$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 09-03-2018; Ambient Temp: 21.7°C; Tissue Temp: 21.0°C

Probe: ES3DV3 - SN3287; ConvF(5.19, 5.19, 5.19); Calibrated: 9/18/2017;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 1/26/2018

Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: UMTS 1750, Body SAR, Ant 2a Back side, High.ch

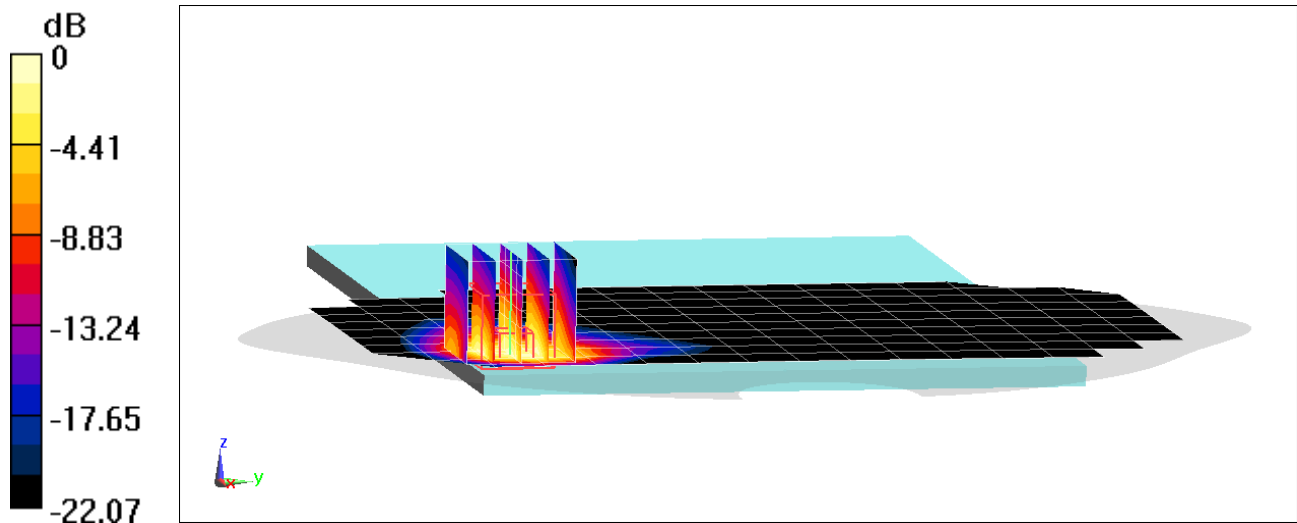
Area Scan (11x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 26.36 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.470 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX402ZKR54

Communication System: UID 0, UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1907.6 \text{ MHz}$; $\sigma = 1.518 \text{ S/m}$; $\epsilon_r = 51.122$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-29-2018; Ambient Temp: 24.0°C; Tissue Temp: 21.9°C

Probe: ES3DV3 - SN3131; ConvF(4.8, 4.8, 4.8); Calibrated: 3/13/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/7/2018

Phantom: SAM Sub; Type: QD 000 P40 CC; Serial: 1375

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: UMTS 1900, Body SAR, Ant 2a Back side, High.ch

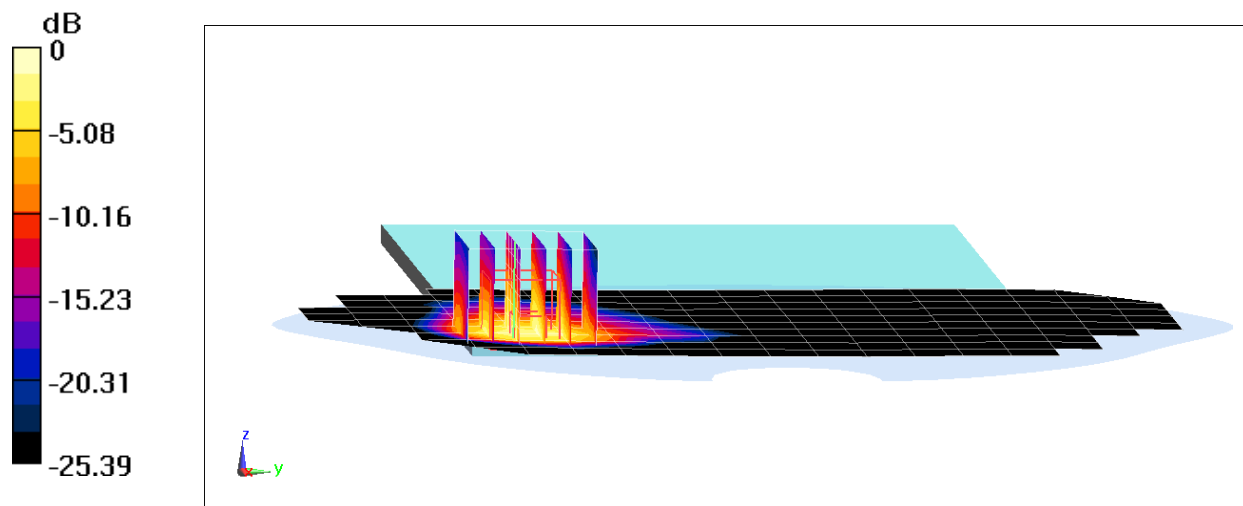
Area Scan (11x19x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 25.29 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 1.00 W/kg; SAR(10 g) = 0.457 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX7021L3TQ

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

Medium: 750 MHz Body Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$; $\sigma = 0.911 \text{ S/m}$; $\epsilon_r = 55.371$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date:09-03-2018; Ambient Temp: 22.7°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7416; ConvF(9.6, 9.6, 9.6); Calibrated: 7/20/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10;SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 71, Body SAR, Ant 3 Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 100 RB,0 RB Offset**

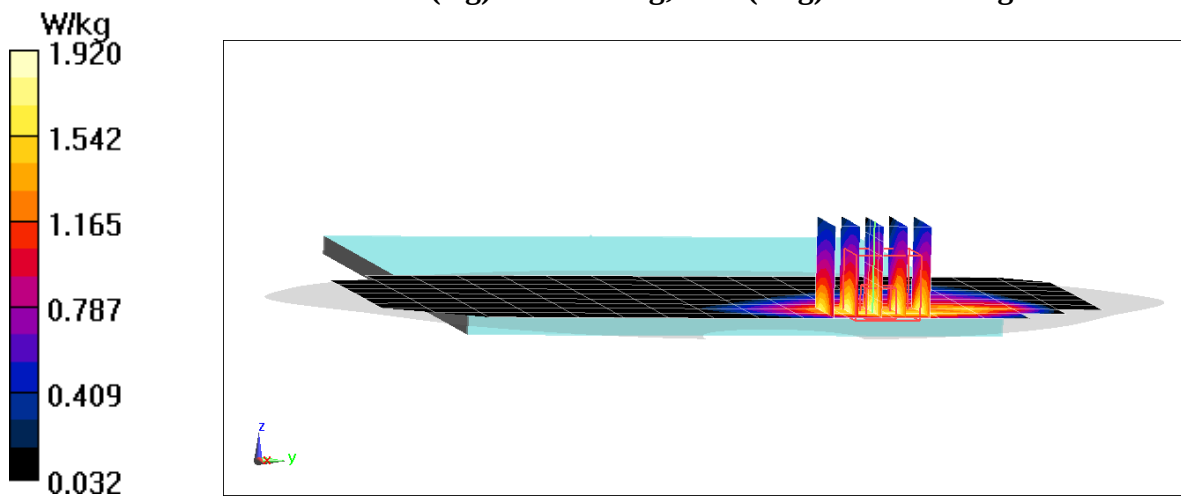
Area Scan (10x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 37.47 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.56 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.572 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX702ML3TQ

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

Medium: 750 MHz Medium parameters used (interpolated):

$f = 707.5$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 55.507$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date:08-29-2018; Ambient Temp: 21.9°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7416; ConvF(9.6, 9.6, 9.6); Calibrated: 7/20/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10;SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 12, Body SAR, Ant 1 Left Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset**

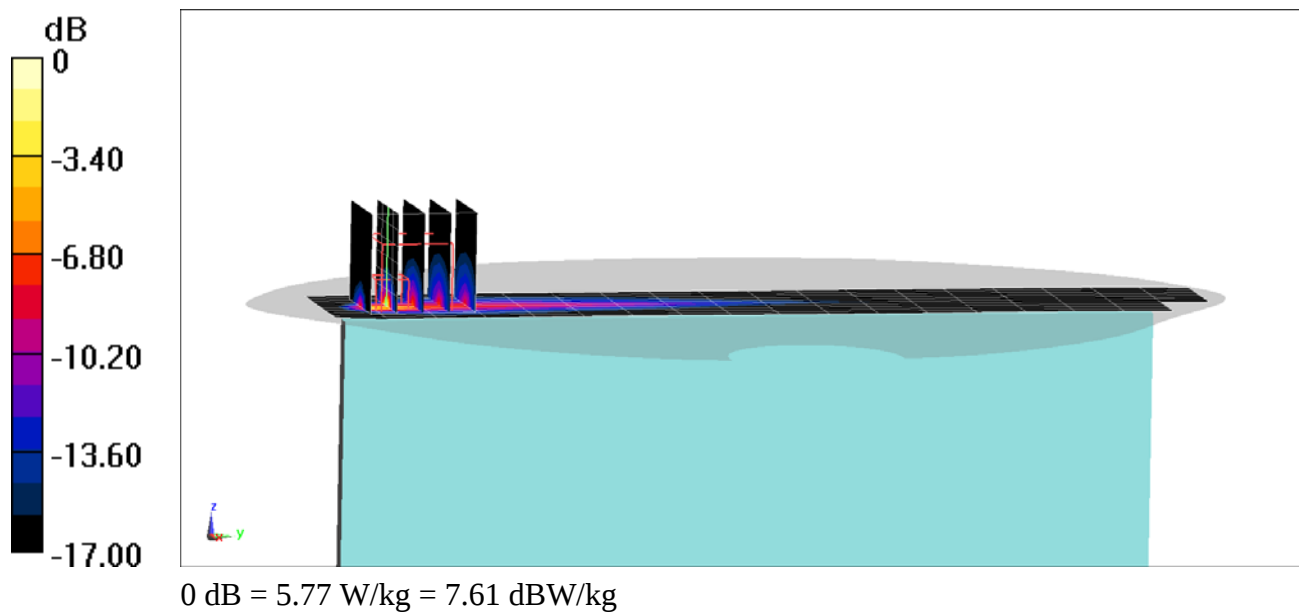
Area Scan (10x17x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 28.38 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 9.49 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.352 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX7021L3TQ

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

Medium: 750 MHz Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 0.992 \text{ S/m}$; $\epsilon_r = 54.652$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date:08-29-2018; Ambient Temp: 21.9°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7416; ConvF(9.6, 9.6, 9.6); Calibrated: 7/20/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10;SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 13, Body SAR, Ant 1 Left Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

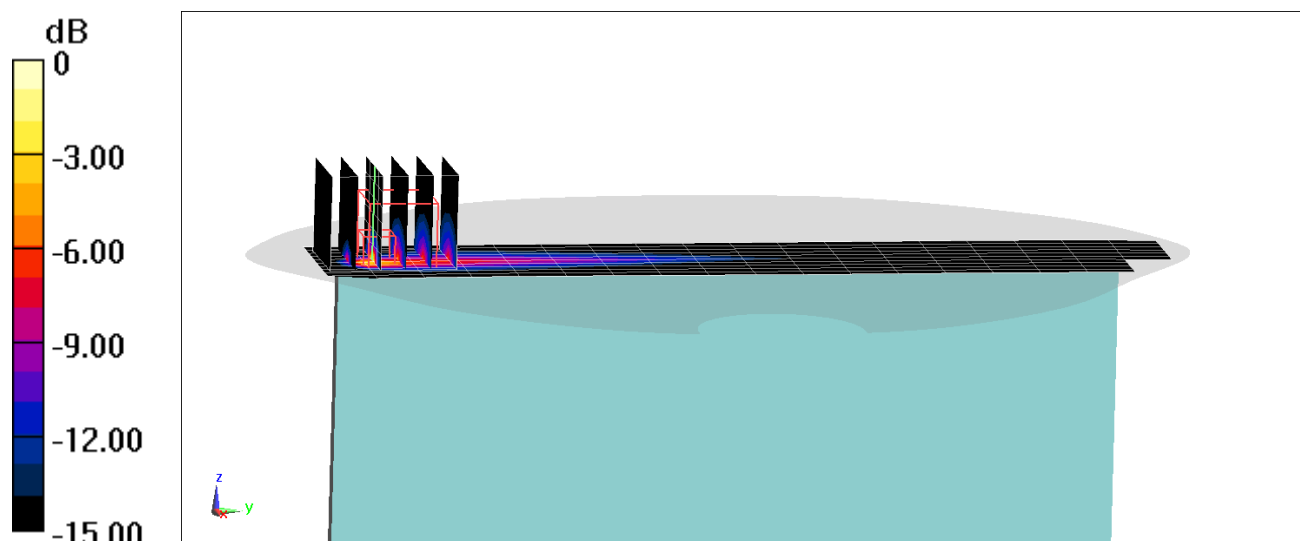
Area Scan (10x18x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 35.03 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 8.27 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.400 W/kg



0 dB = 4.99 W/kg = 6.98 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX7021L3TQ

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

Medium: 750 MHz Medium parameters used (interpolated):

$f = 793 \text{ MHz}$; $\sigma = 1.003 \text{ S/m}$; $\epsilon_r = 54.548$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date:08-29-2018; Ambient Temp: 21.9°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7416; ConvF(9.6, 9.6, 9.6); Calibrated: 7/20/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10;SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 14, Body SAR, Ant 3 Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

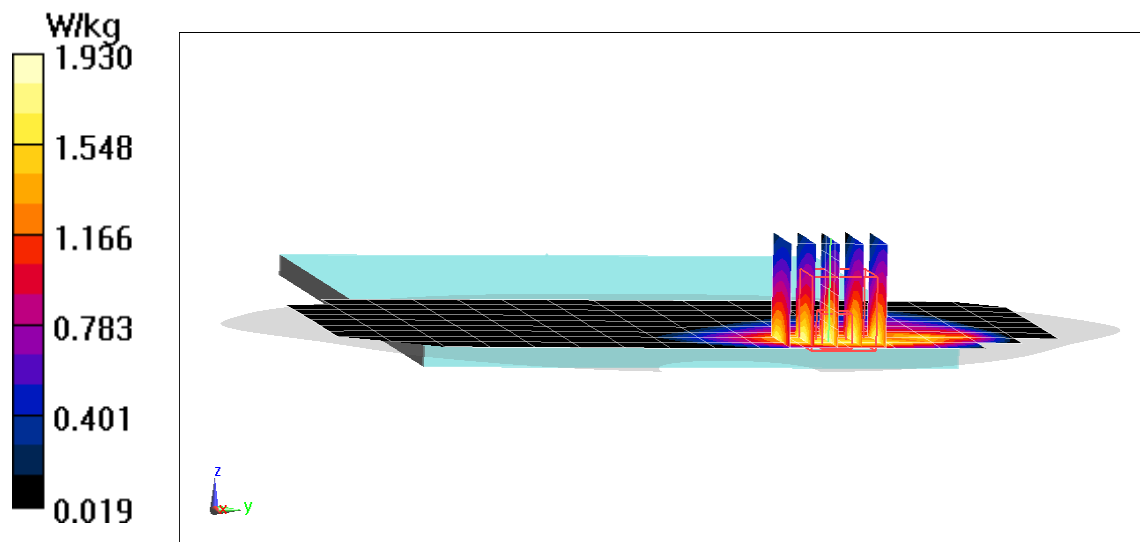
Area Scan (10x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 32.81 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.52 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.500 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX402ZKR54

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

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.5$ MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 53.111$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-27-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7490; ConvF(10.3, 10.3, 10.3); Calibrated: 1/26/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 1/26/2018

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 5 (Cell.), Body SAR, Ant 1 Left Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 25 RB, 25 RB Offset**

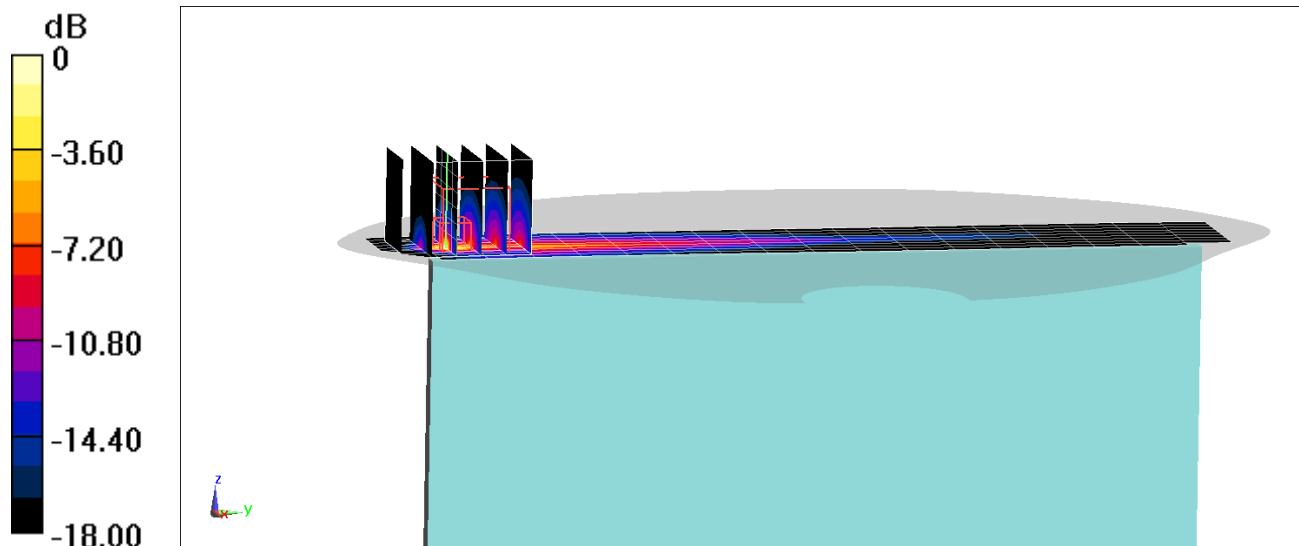
Area Scan (10x19x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 35.65 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 8.00 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.387 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX7029L3TQ

Communication System: UID 0, LTE Band 26; Frequency: 819 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 819 \text{ MHz}$; $\sigma = 0.969 \text{ S/m}$; $\epsilon_r = 53.286$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-27-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7490; ConvF(10.3, 10.3, 10.3); Calibrated: 1/26/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 1/26/2018

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 26 (Cell.), Body SAR, Ant 1 Left Edge, Low.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

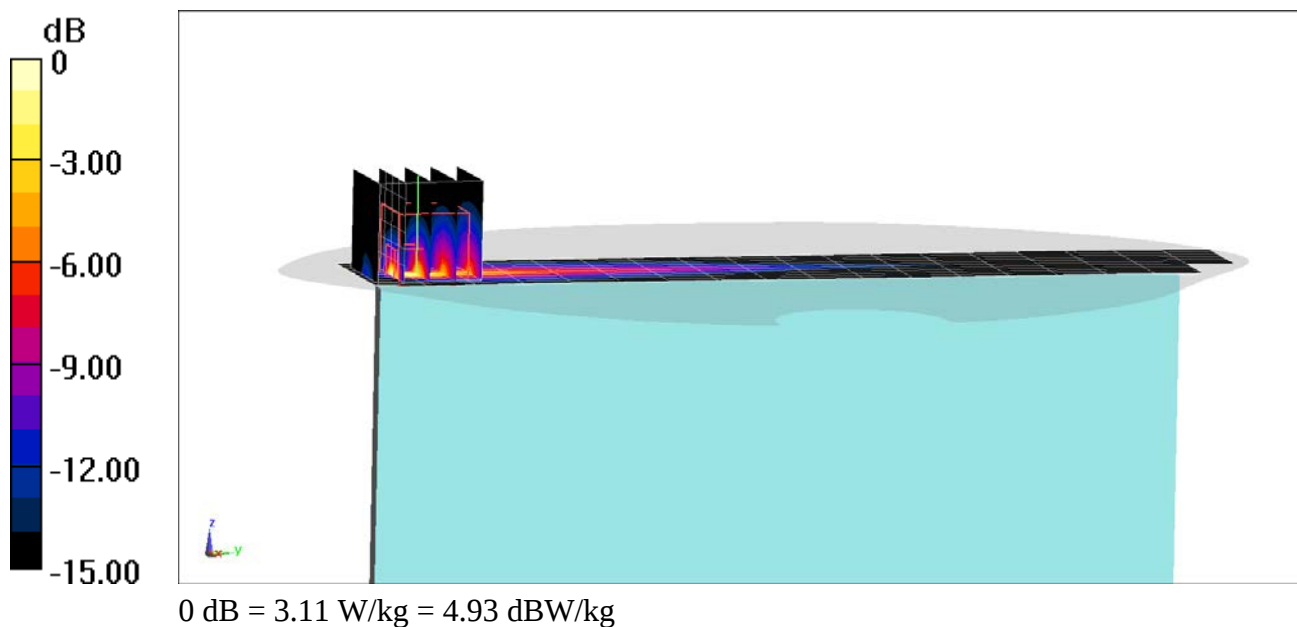
Area Scan (11x19x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 31.01 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 5.43 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.433 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX7021L3TQ

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

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1745 \text{ MHz}$; $\sigma = 1.545 \text{ S/m}$; $\epsilon_r = 52.148$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-27-2018; Ambient Temp: 23.0°C; Tissue Temp: 21.0°C

Probe: ES3DV3 - SN3329; ConvF(5.04, 5.04, 5.04); Calibrated: 2/13/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/8/2018

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1403

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 66 (AWS), Body SAR, Ant 4a Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset**

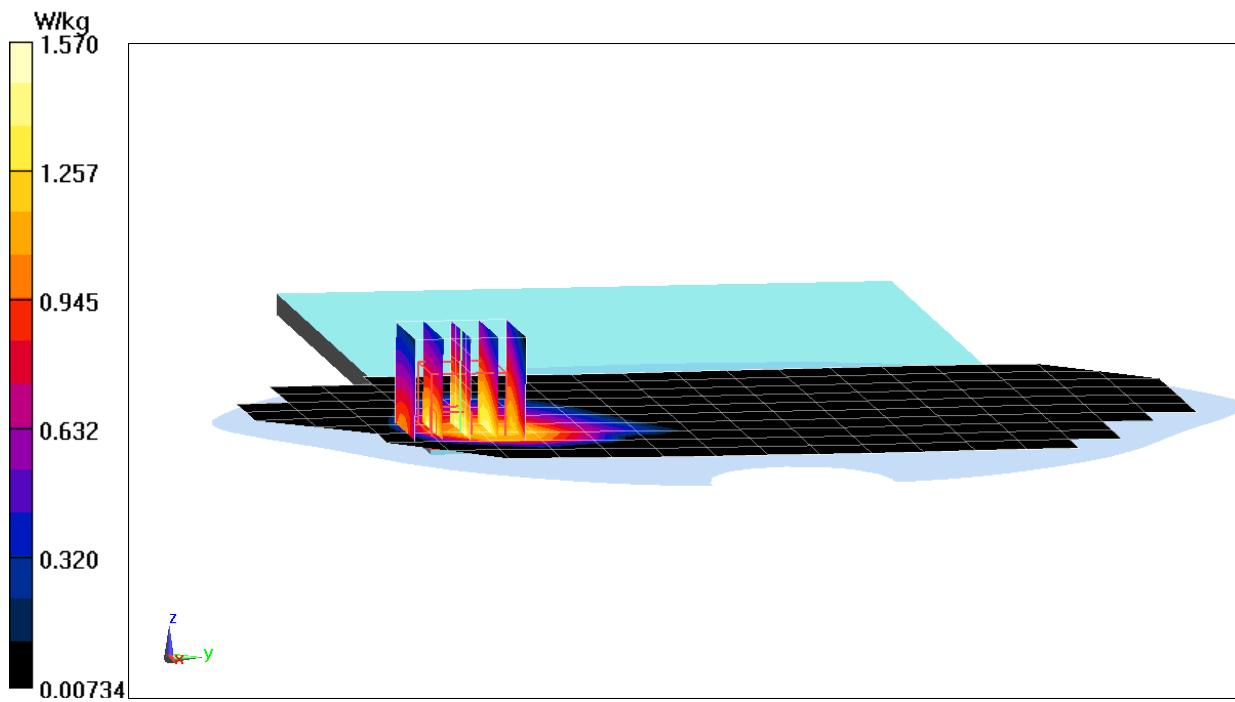
Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 27.04 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.20 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.558 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX402ZKR54

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1860 \text{ MHz}$; $\sigma = 1.473 \text{ S/m}$; $\epsilon_r = 51.234$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-29-2018; Ambient Temp: 24.0°C; Tissue Temp: 21.9°C

Probe: ES3DV3 - SN3131; ConvF(4.8, 4.8, 4.8); Calibrated: 3/13/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/7/2018

Phantom: SAM Sub; Type: QD 000 P40 CC; Serial: 1375

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 25 (PCS), Body SAR, Ant 4a Back side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

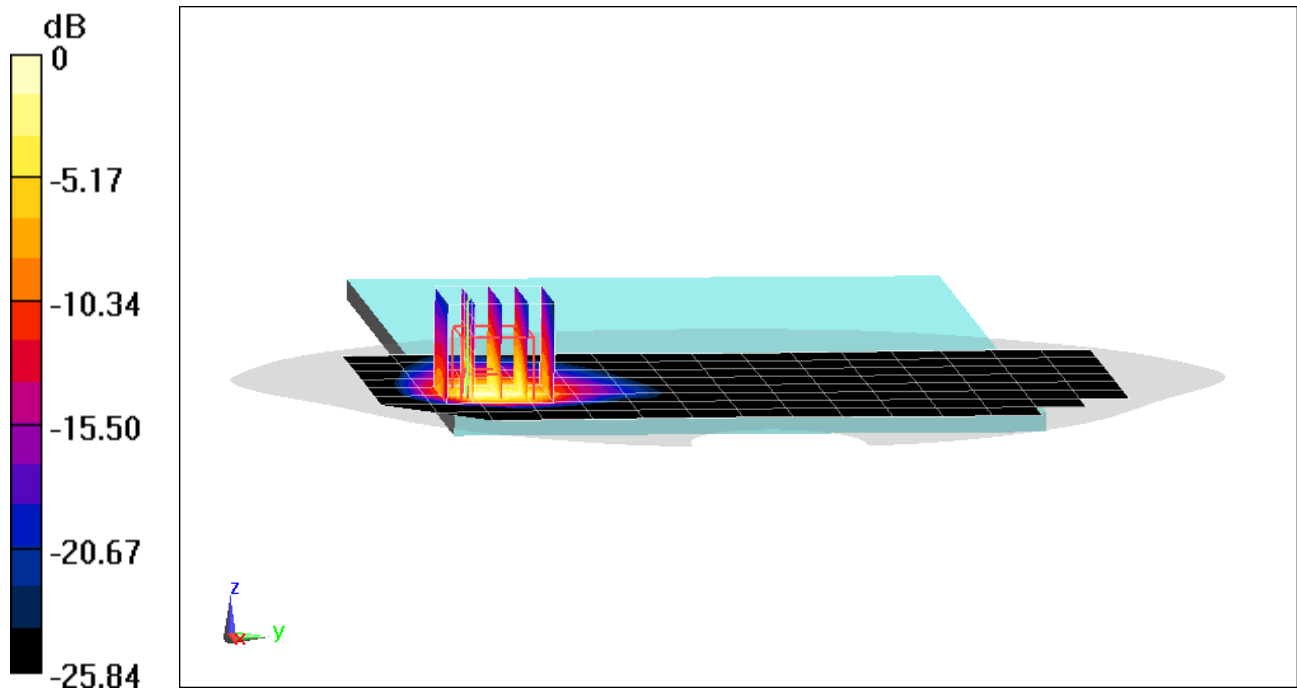
Area Scan (9x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Reference Value = 26.46 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.507 W/kg



0 dB = 1.61 W/kg = 2.07 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX7029L3TQ

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

Medium: 2300 Body Medium parameters used:

$f = 2310 \text{ MHz}$; $\sigma = 1.864 \text{ S/m}$; $\epsilon_r = 51.179$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-30-2018; Ambient Temp: 23.5°C; Tissue Temp: 22.9°C

Probe: ES3DV2 - SN3022; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 30, Body SAR, Ant 4a Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

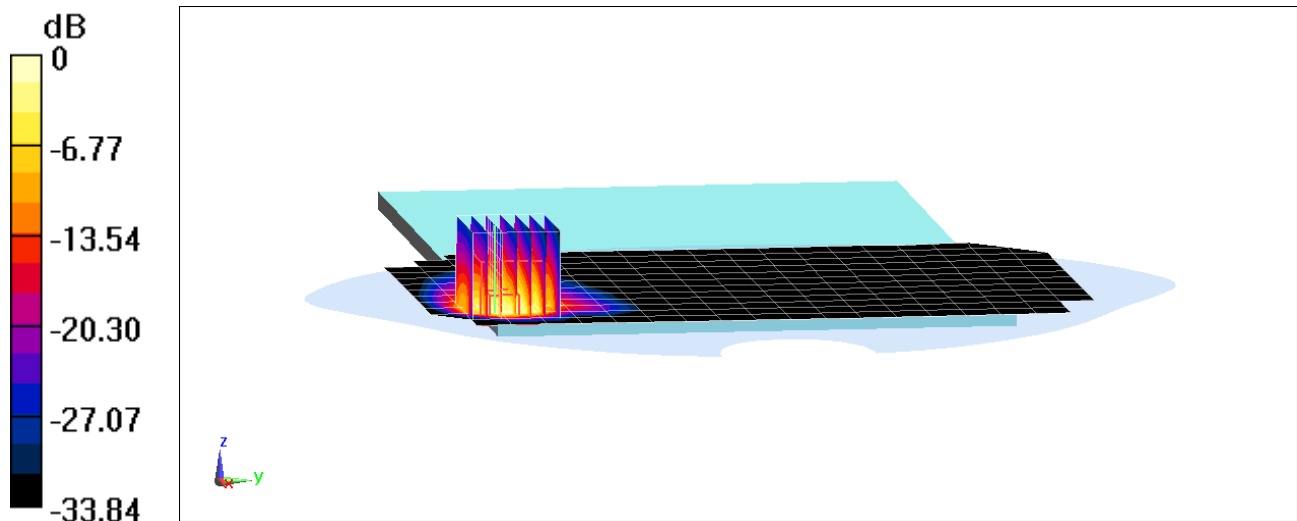
Area Scan (12x19x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.89 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.500 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX300AKR53

Communication System: UID 0, LTE Band 7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: 2600 Body Medium parameters used (interpolated):

$f = 2535 \text{ MHz}$; $\sigma = 2.116 \text{ S/m}$; $\epsilon_r = 50.744$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-27-2018; Ambient Temp: 23.5°C; Tissue Temp: 22.3°C

Probe: ES3DV2 - SN3022; ConvF(4.03, 4.03, 4.03); Calibrated: 6/22/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 7, Body SAR, Ant 2b Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

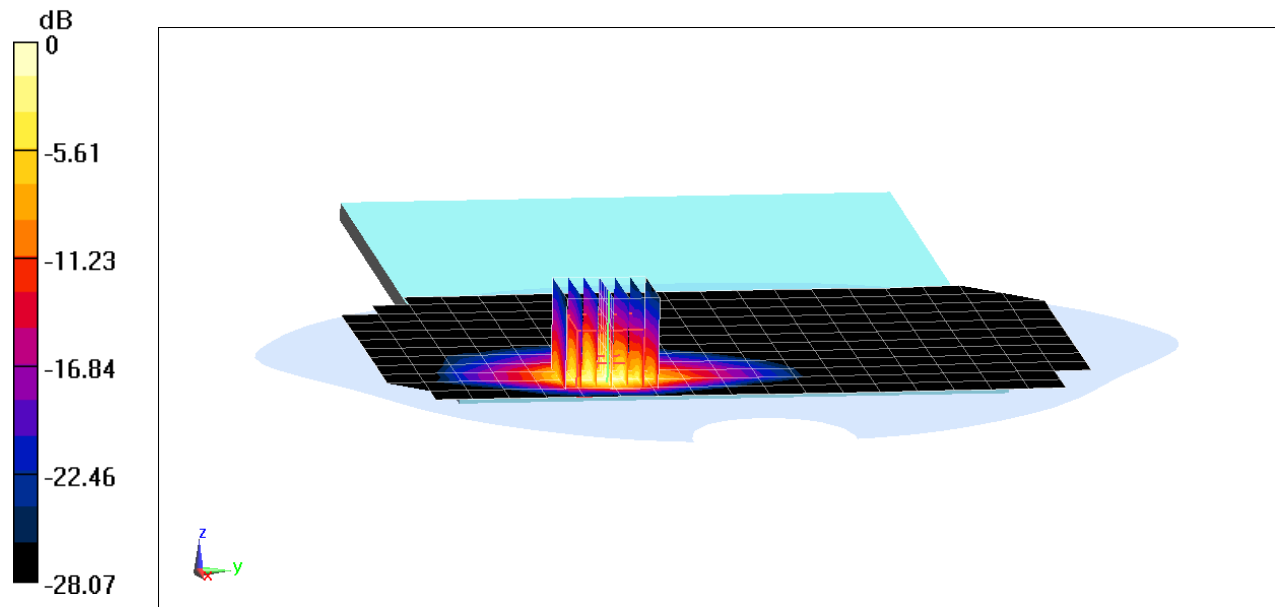
Area Scan (13x19x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 24.74 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 3.91 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.405 W/kg



0 dB = 1.64 W/kg = 2.15 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX7029L3TQ

Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2549.5 MHz; Duty Cycle: 1:1.58

Medium: 2600 Body Medium parameters used:

$f = 2550 \text{ MHz}$; $\sigma = 2.138 \text{ S/m}$; $\epsilon_r = 50.506$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-30-2018; Ambient Temp: 23.5°C; Tissue Temp: 22.9°C

Probe: ES3DV2 - SN3022; ConvF(4.03, 4.03, 4.03); Calibrated: 6/22/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: LTE Band 41 PC3, Body SAR, Ant 4b Back side, Low-Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

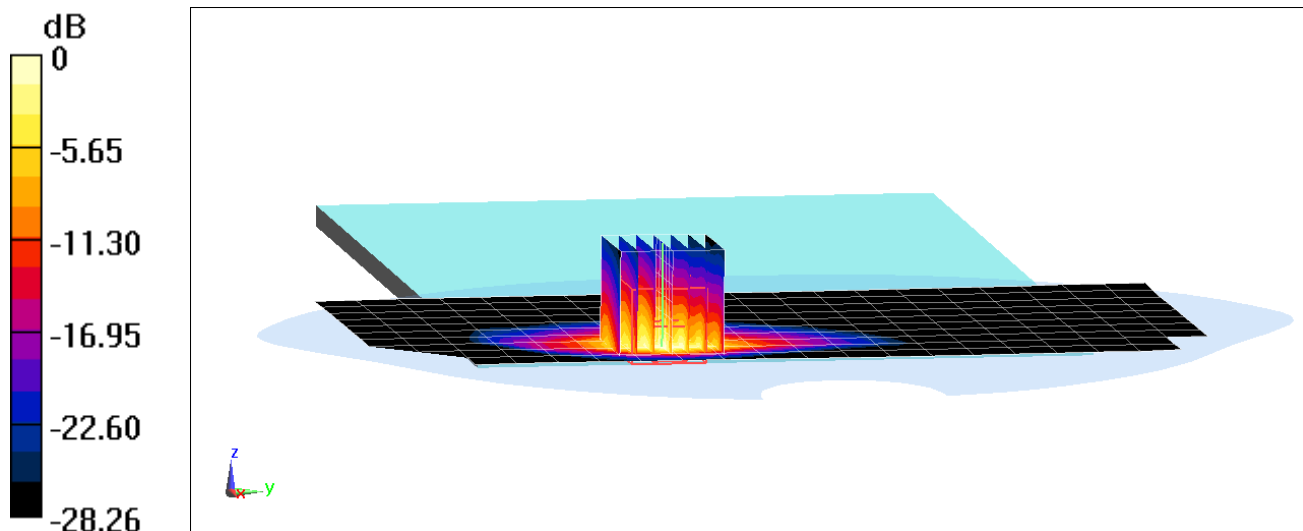
Area Scan (14x19x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 26.41 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.424 W/kg



0 dB = 1.78 W/kg = 2.50 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX300EKR53

Communication System: UID 0, IEEE 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2437 \text{ MHz}$; $\sigma = 2.017 \text{ S/m}$; $\epsilon_r = 50.68$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-08-2018; Ambient Temp: 21.0°C; Tissue Temp: 21.5°C

Probe: ES3DV3 - SN3275; ConvF(4.57, 4.57, 4.57); Calibrated: 4/12/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/12/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Body SAR, Ant 4a,
Variant 1 Ch 6, 1 Mbps, Back Side**

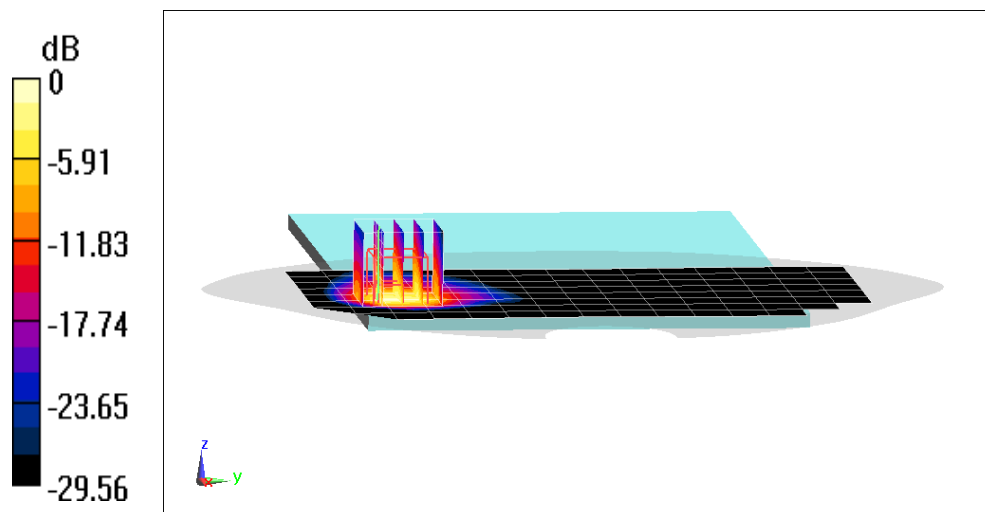
Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (5x5x7)/Cube0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.05 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.452 W/kg



0 dB = 1.61 W/kg = 2.07 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX300CKR53

Communication System: UID 0, IEEE 802.11n; Frequency: 5270 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used (interpolated):

$f = 5270 \text{ MHz}$; $\sigma = 5.559 \text{ S/m}$; $\epsilon_r = 48.16$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-13-2018; Ambient Temp: 23.3°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN3837; ConvF(4.84, 4.84, 4.84); Calibrated: 3/16/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/7/2018

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: U-NII-2A, 40 MHz Bandwidth, Body SAR,
Variant 1 Ant 5 Ch. 54, 13.5 Mbps, Right Edge**

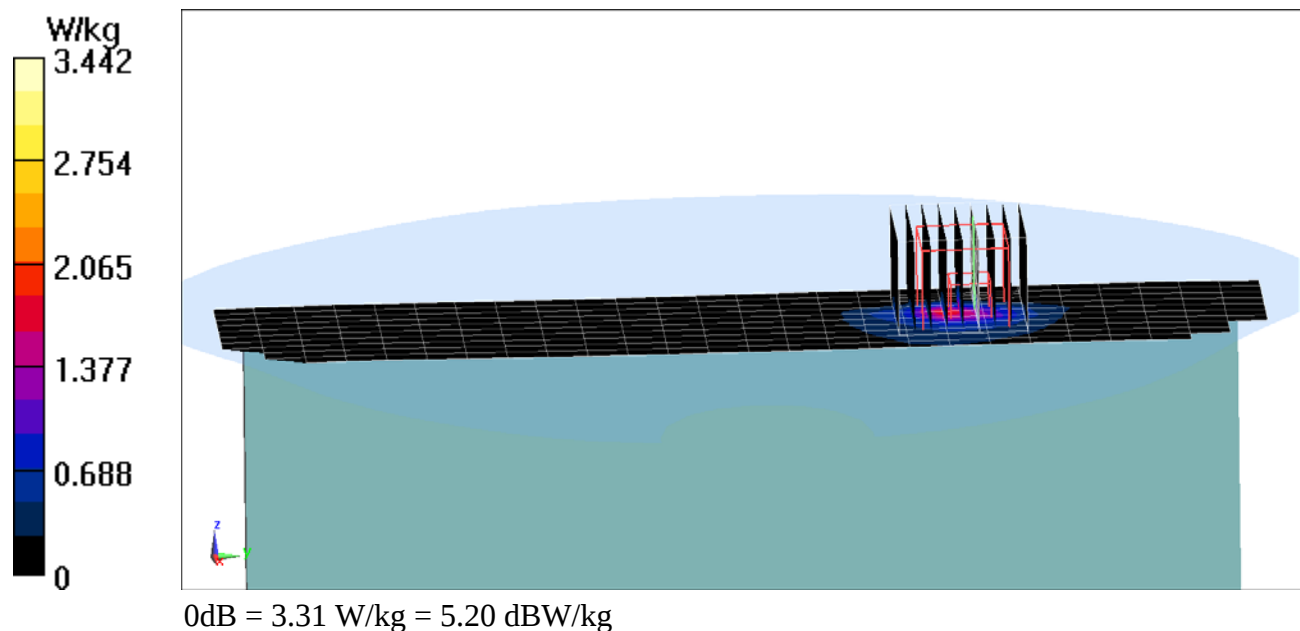
Area Scan (11x27x1): Measurement grid: dx=5mm, dy=10mm

Zoom Scan (9x9x7)/Cube0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 16.35 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 6.18 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.284 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: BCGA2013; Type: Tablet Device; Serial: DLXX300HKR53

Communication System: UID 0, Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.30707

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2402 \text{ MHz}$; $\sigma = 1.943 \text{ S/m}$; $\epsilon_r = 51.16$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 09-03-2018; Ambient Temp: 21.9°C; Tissue Temp: 22.6°C

Probe: ES3DV3 - SN3275; ConvF(4.57, 4.57, 4.57); Calibrated: 4/12/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/12/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: Bluetooth, Body SAR, Ant 4a Variant 2 Ch 0, 1 Mbps, Back Side

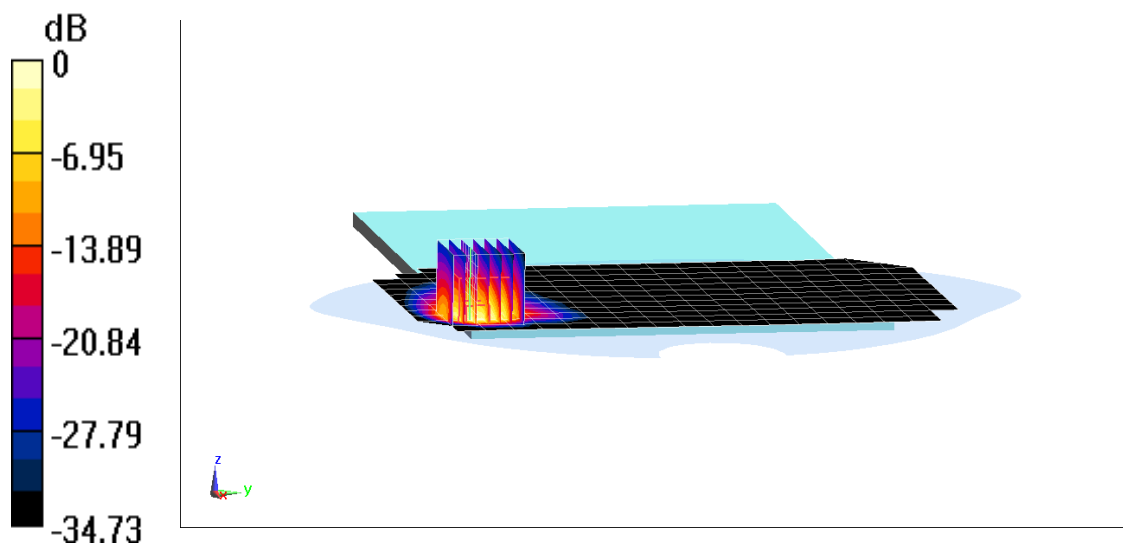
Area Scan (11x19x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (8x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.90 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.525 W/kg



0 dB = 1.81 W/kg = 2.58 dBW/kg

APPENDIX B: SYSTEM VERIFICATION

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1057

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 MHz Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 55.009$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date:08-29-2018; Ambient Temp: 21.9°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7416; ConvF(9.6, 9.6, 9.6); Calibrated: 7/20/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10;SEMCAD X Version 14.6.10 (7417)

750 MHz System Verification at 23.0 dBm (200 mW)

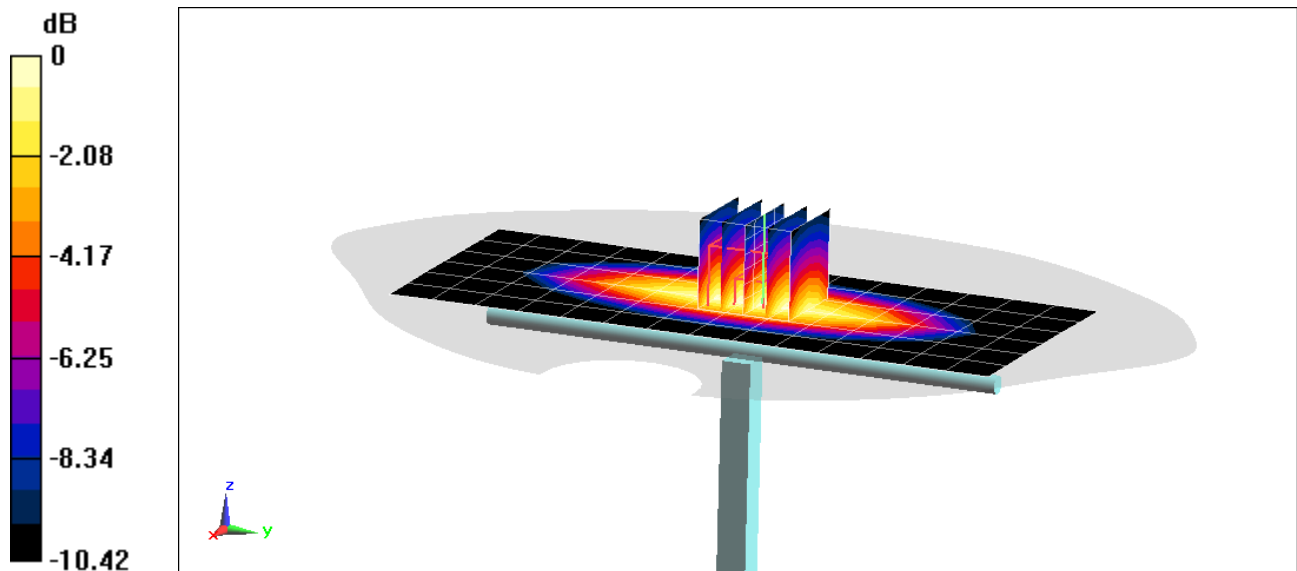
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 2.82 W/kg

SAR(1 g) = 1.8 W/kg; SAR(10 g) = 1.19 W/kg

Deviation(1 g) = 2.39%



0 dB = 2.45 W/kg = 3.89 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1097

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 MHz Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.972 \text{ S/m}$; $\epsilon_r = 54.71$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date:09-03-2018; Ambient Temp: 22.7°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7416; ConvF(9.6, 9.6, 9.6); Calibrated: 7/20/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10;SEMCAD X Version 14.6.10 (7417)

750 MHz System Verification at 23.0 dBm (200 mW)

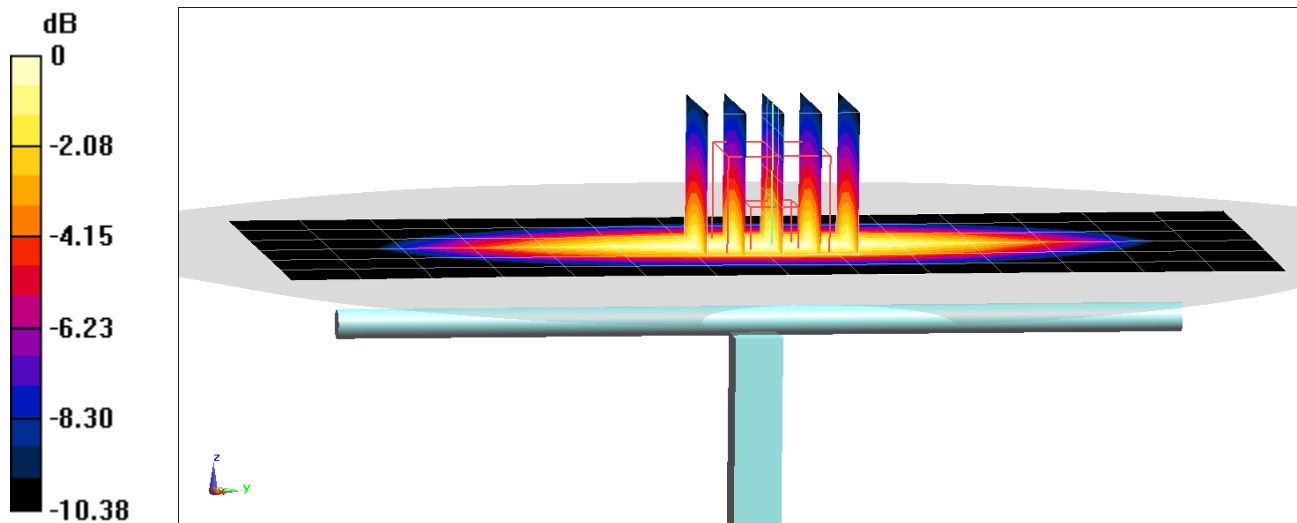
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 2.76 W/kg

SAR(1 g) = 1.78 W/kg; SAR(10 g) = 1.17 W/kg

Deviation(1 g) = 3.97%



0 dB = 2.42 W/kg = 3.84 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d180

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.984 \text{ S/m}$; $\epsilon_r = 53.125$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 08-27-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7490; ConvF(10.3, 10.3, 10.3); Calibrated: 1/26/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1532; Calibrated: 1/26/2018

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

835 MHz System Verification at 23.0 dBm (200 mW)

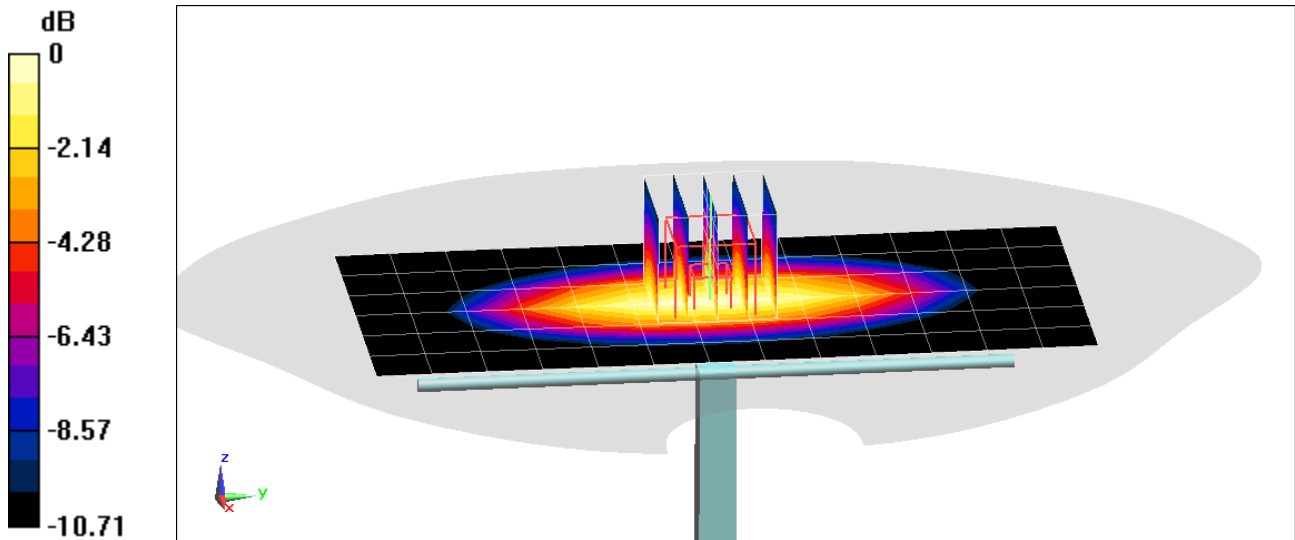
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 3.15 W/kg

SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.35 W/kg

Deviation(1 g) = 7.40%



0 dB = 2.77 W/kg = 4.42 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1104

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.55 \text{ S/m}$; $\epsilon_r = 52.13$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-27-2018; Ambient Temp: 23.0°C; Tissue Temp: 21.0°C

Probe: ES3DV3 - SN3329; ConvF(5.04, 5.04, 5.04); Calibrated: 2/13/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/8/2018

Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1403

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

1750 MHz System Verification at 20.0 dBm (100 mW)

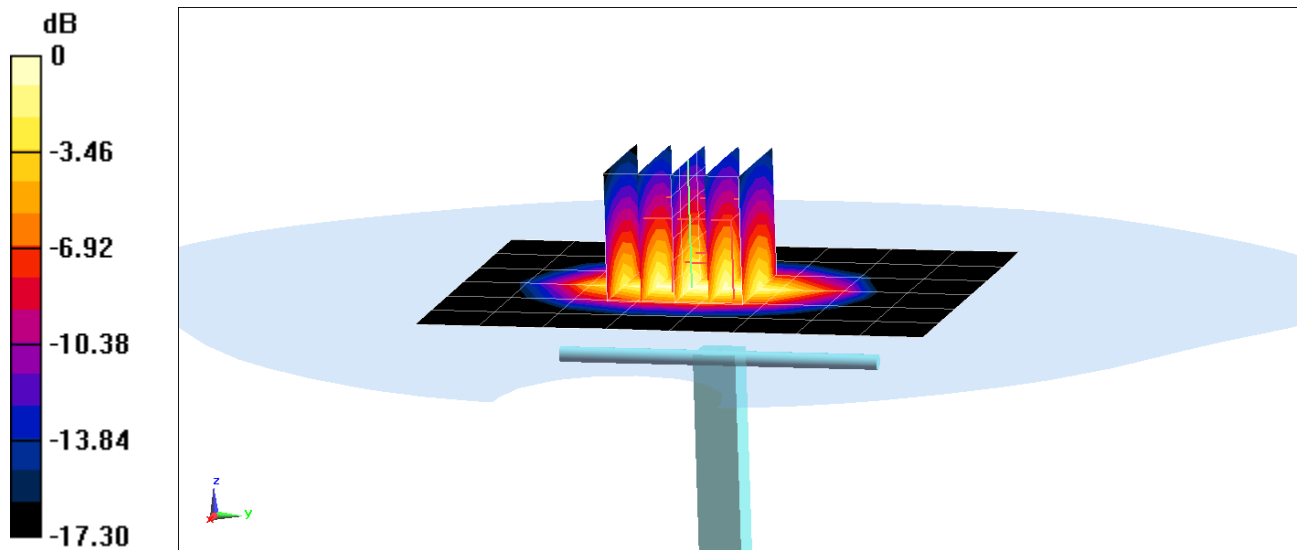
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 6.49 W/kg

SAR(1 g) = 3.73 W/kg; SAR(10 g) = 2 W/kg

Deviation(1 g) = 1.91%



0 dB = 4.75 W/kg = 6.77 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1104

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.494 \text{ S/m}$; $\epsilon_r = 52.974$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-03-2018; Ambient Temp: 21.7°C; Tissue Temp: 21.0°C

Probe: ES3DV3 - SN3287; ConvF(5.19, 5.19, 5.19); Calibrated: 9/18/2017;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 1/26/2018

Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935

Measurement SW: DASY52, Version 52.10;SEMCAD X Version 14.6.10 (7417)

1750 MHz System Verification at 20.0 dBm (100 mW)

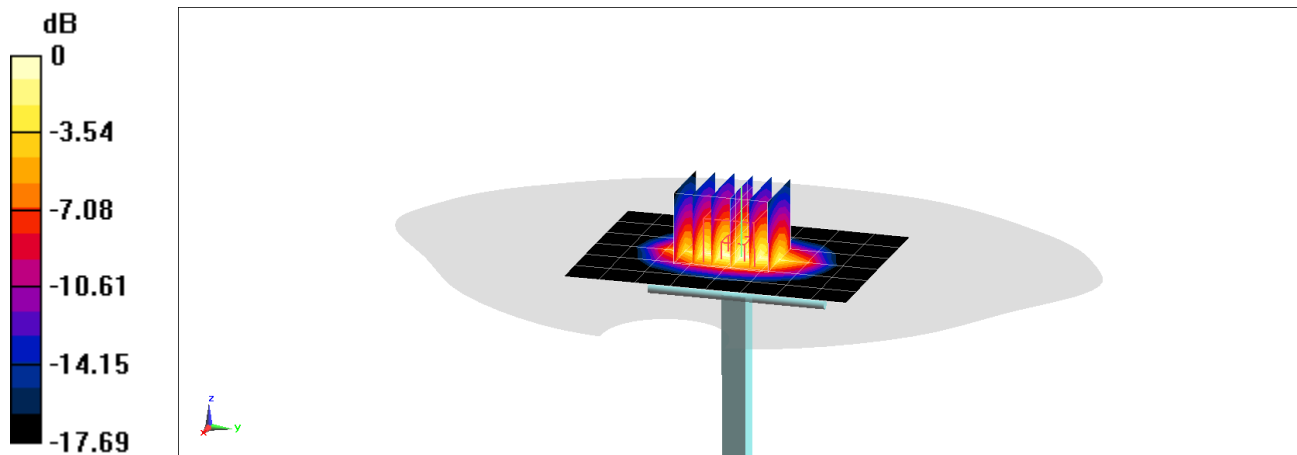
Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 6.66 W/kg

SAR(1 g) = 3.84 W/kg; SAR(10 g) = 2.07 W/kg

Deviation(1 g) = 4.92%



0 dB = 4.80 W/kg = 6.81 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d180

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.511 \text{ S/m}$; $\epsilon_r = 51.139$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-29-2018; Ambient Temp: 24.0°C; Tissue Temp: 21.9°C

Probe: ES3DV3 - SN3131; ConvF(4.8, 4.8, 4.8); Calibrated: 3/13/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/7/2018

Phantom: SAM Sub; Type: QD 000 P40 CC; Serial: 1375

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

1900 MHz System Verification at 20.0 dBm (100 mW)

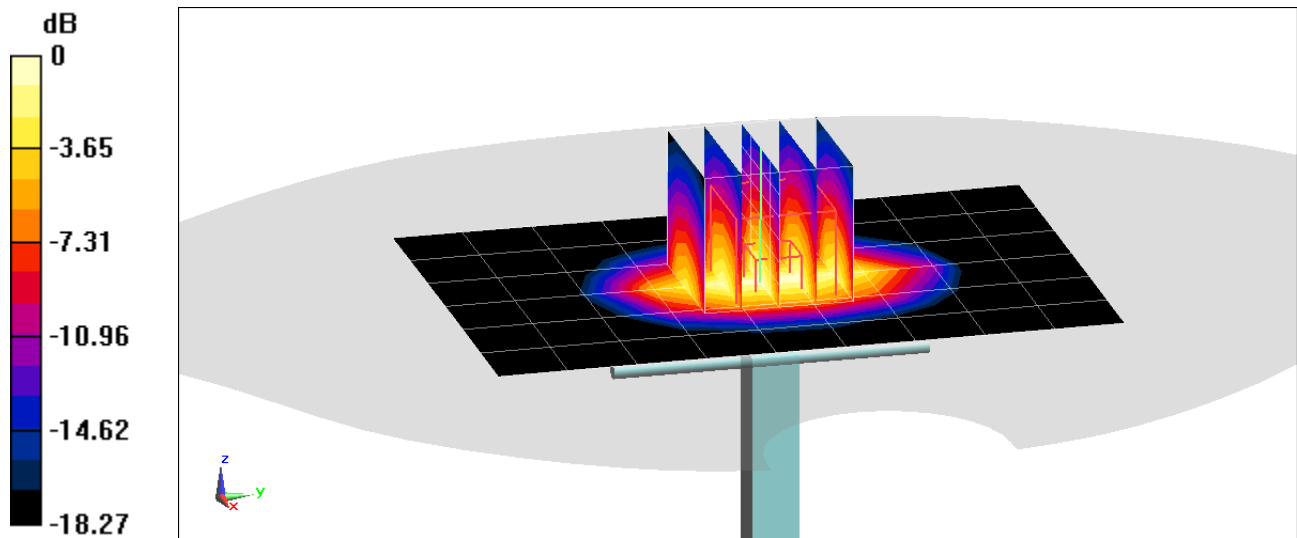
Area Scan (7x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 7.11 W/kg

SAR(1 g) = 3.91 W/kg; SAR(10 g) = 2.02 W/kg

Deviation(1 g) = -1.01%



0 dB = 4.94 W/kg = 6.94 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d181

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.575 \text{ S/m}$; $\epsilon_r = 50.889$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 09-03-2018; Ambient Temp: 23.0°C; Tissue Temp: 21.0°C

Probe: ES3DV3 - SN3131; ConvF(4.8, 4.8, 4.8); Calibrated: 3/13/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/7/2018

Phantom: SAM Sub; Type: QD 000 P40 CC; Serial: 1375

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

1900 MHz System Verification at 20.0 dBm (100 mW)

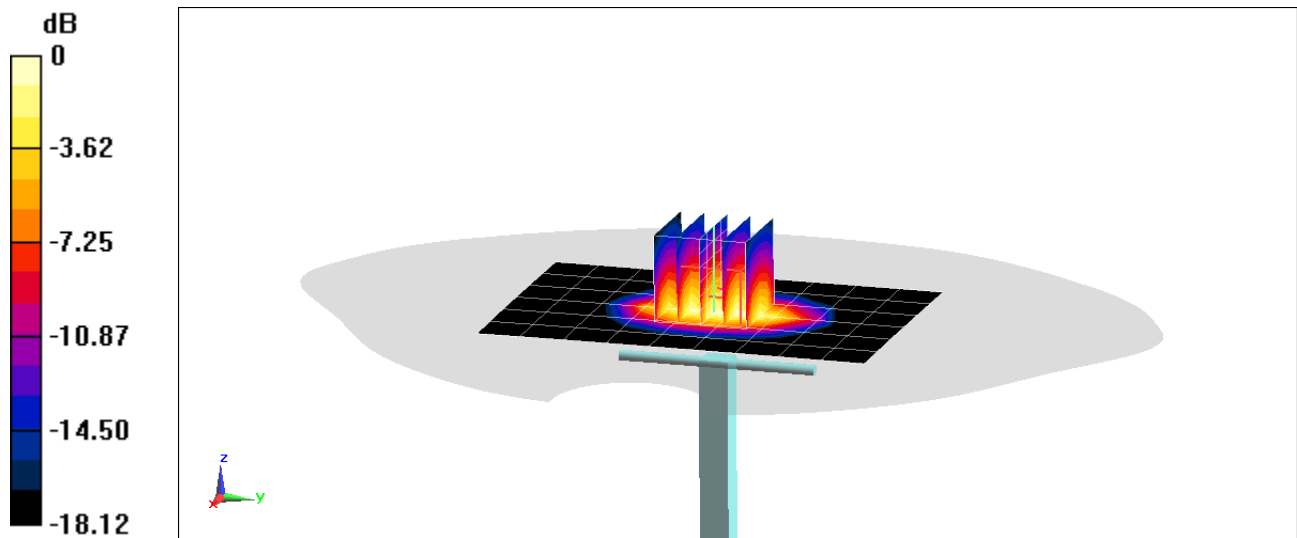
Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 7.49 W/kg

SAR(1 g) = 4.17 W/kg; SAR(10 g) = 2.15 W/kg

Deviation(1 g) = 5.57%



0 dB = 5.28 W/kg = 7.23 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 2300 MHz D2300V2; Type: D2300V3; Serial: 1038

Communication System: UID 0, CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: 2.3-2.6 Body Medium parameters used:

$f = 2300 \text{ MHz}$; $\sigma = 1.847 \text{ S/m}$; $\epsilon_r = 51.183$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-30-2018; Ambient Temp: 23.5°C; Tissue Temp: 22.9°C

Probe: ES3DV2 - SN3022; ConvF(4.36, 4.36, 4.36); Calibrated: 6/22/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2300 MHz System Verification at 20.0 dBm (100 mW)

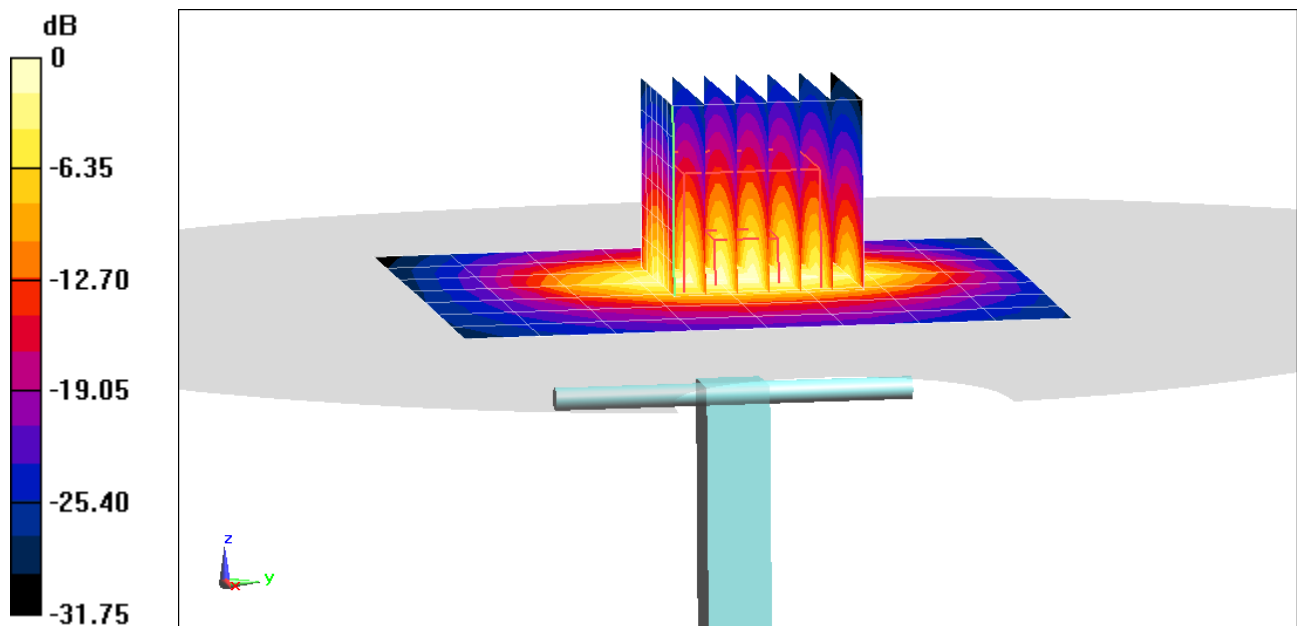
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 8.80 W/kg

SAR(1 g) = 4.53 W/kg; SAR(10 g) = 2.18 W/kg

Deviation(1 g) = -3.00%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 945

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.032 \text{ S/m}$; $\epsilon_r = 50.644$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-08-2018; Ambient Temp: 21.0°C; Tissue Temp: 21.5°C

Probe: ES3DV3 - SN3275; ConvF(4.57, 4.57, 4.57); Calibrated: 4/12/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/12/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2450 MHz System Verification at 20.0 dBm (100 mW)

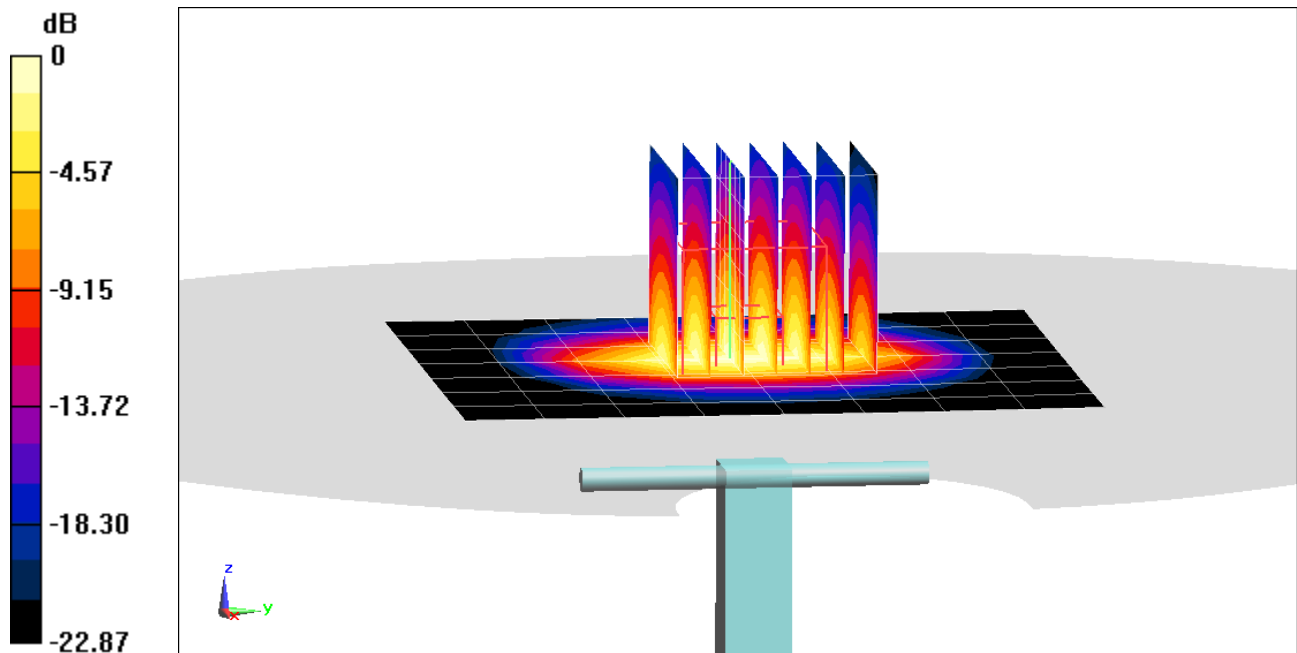
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 10.3 W/kg

SAR(1 g) = 5.11 W/kg; SAR(10 g) = 2.35 W/kg

Deviation(1 g) = 3.44%



0 dB = 6.74 W/kg = 8.29 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1042

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2.3-2.6 Body Medium parameters used:

$f = 2600 \text{ MHz}$; $\sigma = 2.19 \text{ S/m}$; $\epsilon_r = 50.475$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-27-2018; Ambient Temp: 23.5°C; Tissue Temp: 22.3°C

Probe: ES3DV2 - SN3022; ConvF(4.03, 4.03, 4.03); Calibrated: 6/22/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2600 MHz System Verification at 20.0 dBm (100 mW)

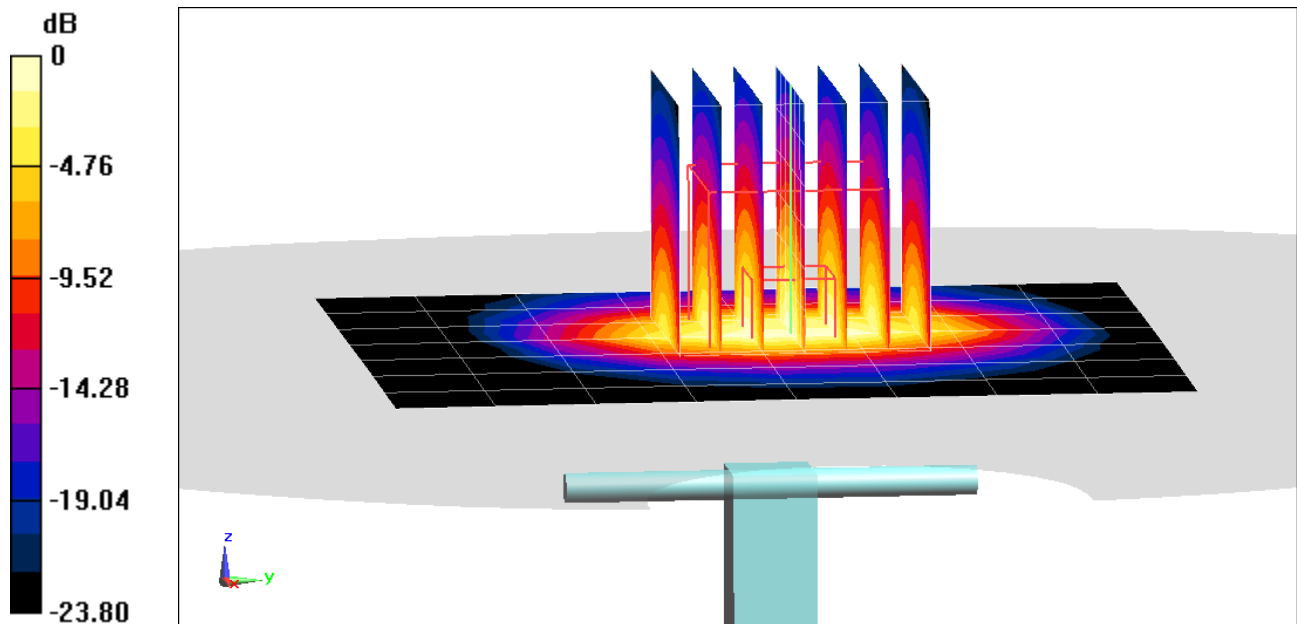
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 12.8 W/kg

SAR(1 g) = 5.74 W/kg; SAR(10 g) = 2.52 W/kg

Deviation(1 g) = 4.17%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: 1069

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2.3-2.6 Body Medium parameters used:

$f = 2600 \text{ MHz}$; $\sigma = 2.198 \text{ S/m}$; $\epsilon_r = 50.326$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-30-2018; Ambient Temp: 23.5°C; Tissue Temp: 22.9°C

Probe: ES3DV2 - SN3022; ConvF(4.03, 4.03, 4.03); Calibrated: 6/22/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 6/18/2018

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2600 MHz System Verification at 20.0 dBm (100 mW)

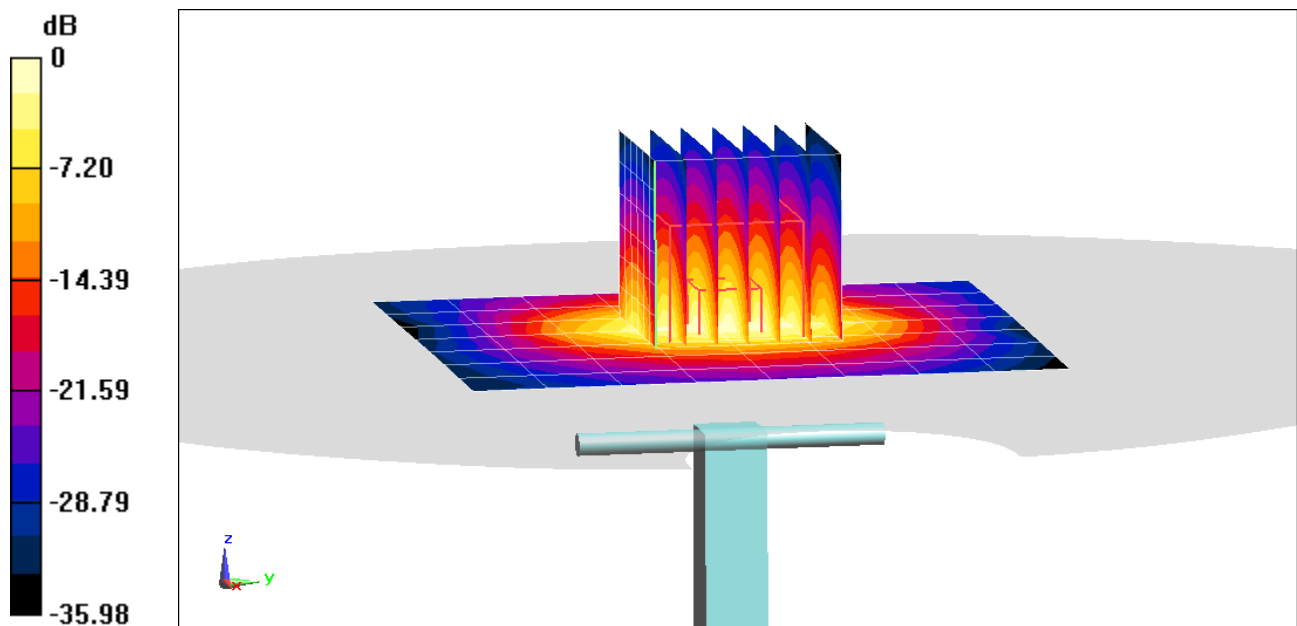
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 13.1 W/kg

SAR(1 g) = 5.95 W/kg; SAR(10 g) = 2.64 W/kg

Deviation(1 g) = 7.59%



0 dB = 7.92 W/kg = 8.99 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1163

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used (interpolated):

$f = 5250 \text{ MHz}$; $\sigma = 5.535 \text{ S/m}$; $\epsilon_r = 48.184$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date:08-13-2018; Ambient Temp: 23.3°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN3837; ConvF(4.84, 4.84, 4.84); Calibrated: 3/16/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/7/2018

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

5250 MHz System Verification at 17.0 dBm (50 mW)

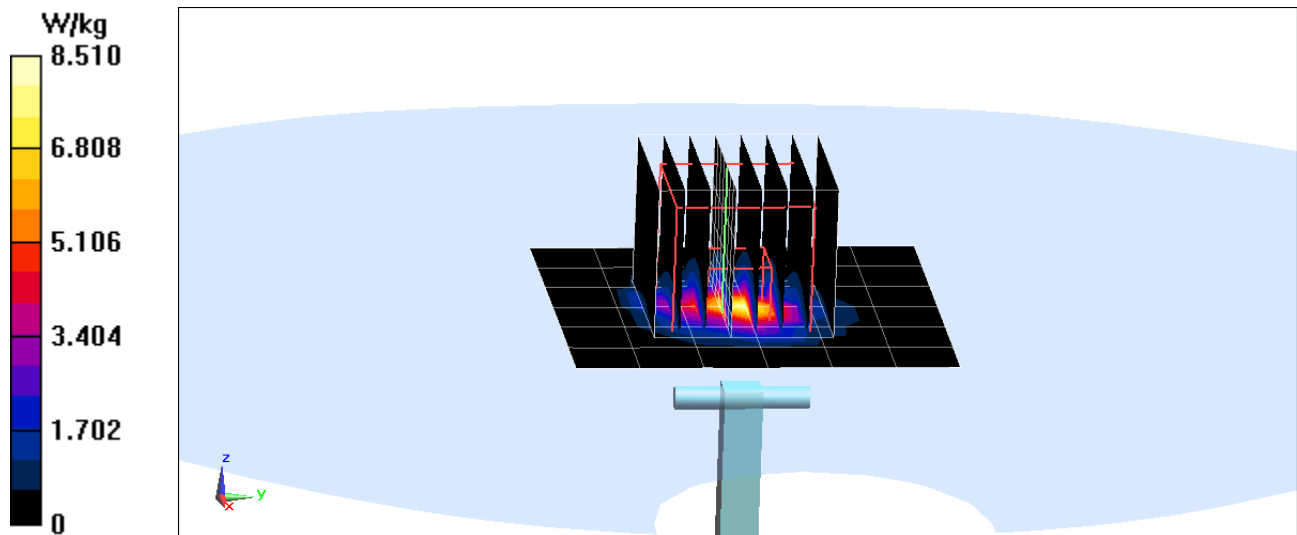
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 3.57 W/kg; SAR(10 g) = 0.997 W/kg

Deviation(1 g) = -7.75%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1163

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 6.001 \text{ S/m}$; $\epsilon_r = 47.597$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date:08-13-2018; Ambient Temp: 23.3°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN3837; ConvF(4.13, 4.13, 4.13); Calibrated: 3/16/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/7/2018

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

5600 MHz System Verification at 17.0 dBm (50 mW)

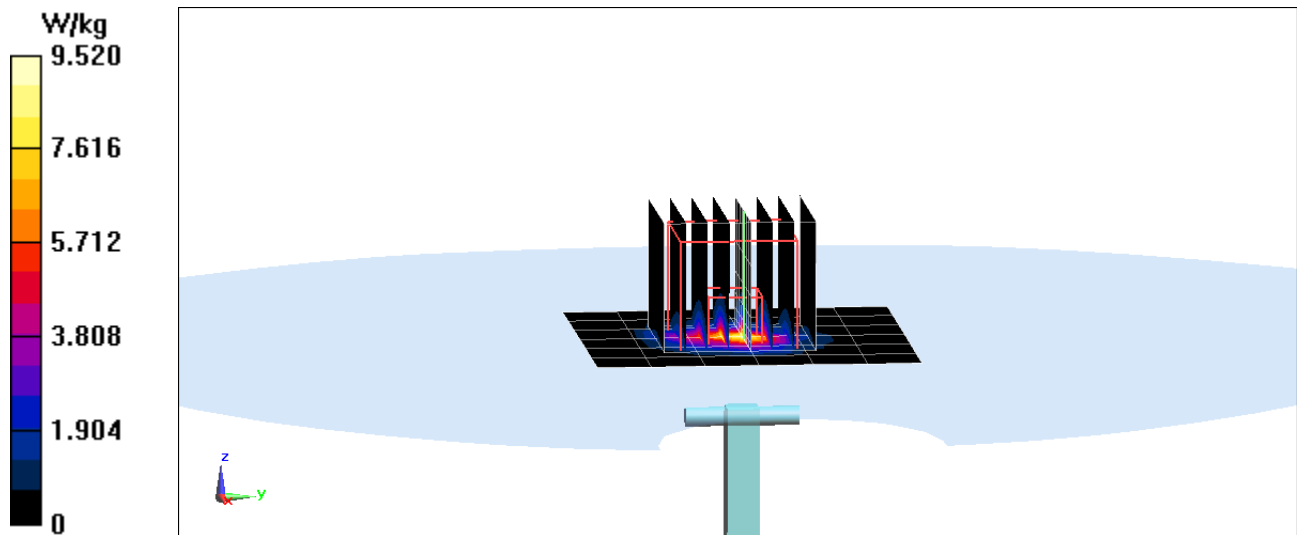
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 3.85 W/kg; SAR(10 g) = 1.07 W/kg

Deviation(1 g) = -3.39%



PCTEST ENGINEERING LABORATORY, INC.

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1163

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used (interpolated):

$f = 5750 \text{ MHz}$; $\sigma = 6.214 \text{ S/m}$; $\epsilon_r = 47.375$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date:08-13-2018; Ambient Temp: 23.3°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN3837; ConvF(4.43, 4.43, 4.43); Calibrated: 3/16/2018;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/7/2018

Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

5750 MHz System Verification at 17.0 dBm (50 mW)

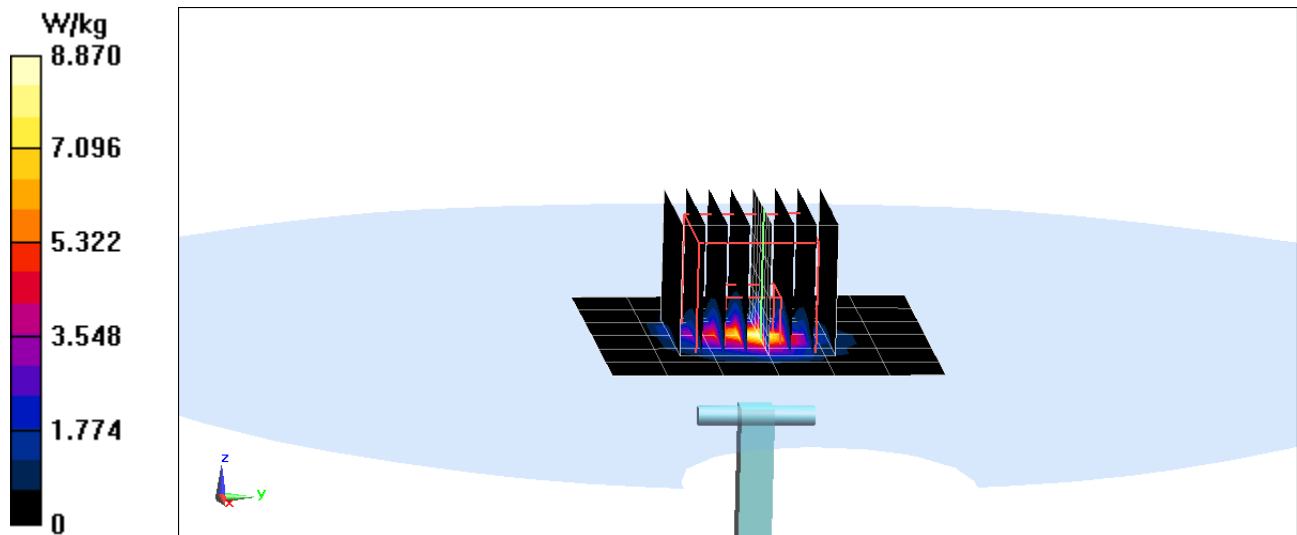
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 3.61 W/kg; SAR(10 g) = 0.995 W/kg

Deviation(1 g) = -6.72%



APPENDIX C: PROBE CALIBRATION



Accredited by the Swiss Accreditation Service (SAS)
 The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **PC Test**

Certificate No: **D750V3-1057_Jun17**

CALIBRATION CERTIFICATE

Object **D750V3 - SN:1057**

Calibration procedure(s) **QA CAL-05.v9**
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: **June 13, 2017**

BNW
8/3/2017
SC ✓
6/1/2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18
Reference 20 dB Attenuator	SN: 5058 (20k)	07-Apr-17 (No. 217-02528)	Apr-18
Type-N mismatch combination	SN: 5047.2 / 06327	07-Apr-17 (No. 217-02529)	Apr-18
Reference Probe EX3DV4	SN: 7349	31-May-17 (No. EX3-7349_May17)	May-18
DAE4	SN: 601	28-Mar-17 (No. DAE4-601_Mar17)	Mar-18
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

Calibrated by: **Name** Johannes Kurikka **Function** Laboratory Technician

Signature

Approved by: **Name** Kalja Pokovic **Function** Technical Manager

Issued: June 15, 2017

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	41.2 $\pm$ 6 %	0.91 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.31 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.37 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.39 W/kg $\pm$ 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 $\pm$ 0.2) °C	54.8 $\pm$ 6 %	0.97 mho/m $\pm$ 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.22 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.79 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.46 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.79 W/kg $\pm$ 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$55.9 \Omega + 0.1 j\Omega$
Return Loss	- 25.0 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	$51.2 \Omega - 2.3 j\Omega$
Return Loss	- 32.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.035 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	November 08, 2011

DASY5 Validation Report for Head TSL

Date: 13.06.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1057

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.91 \text{ S/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.49, 10.49, 10.49); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.79 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.37 W/kg

Maximum value of SAR (measured) = 2.88 W/kg



0 dB = 2.88 W/kg = 4.59 dBW/kg

Impedance Measurement Plot for Head TSL

13 Jun 2017 12:28:02
 [CH1] S11 1 U FS 1: 55.930 Ω 0.0645 Ω 13.677 μH 750.000 000 MHz

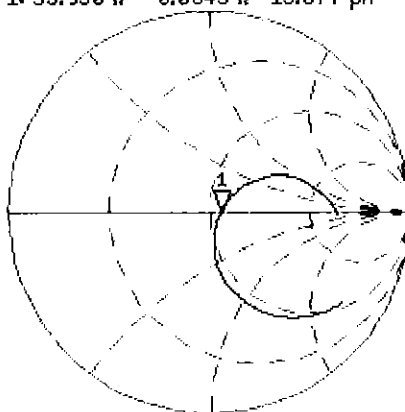
*

De1

CA

Avg
16

H1d

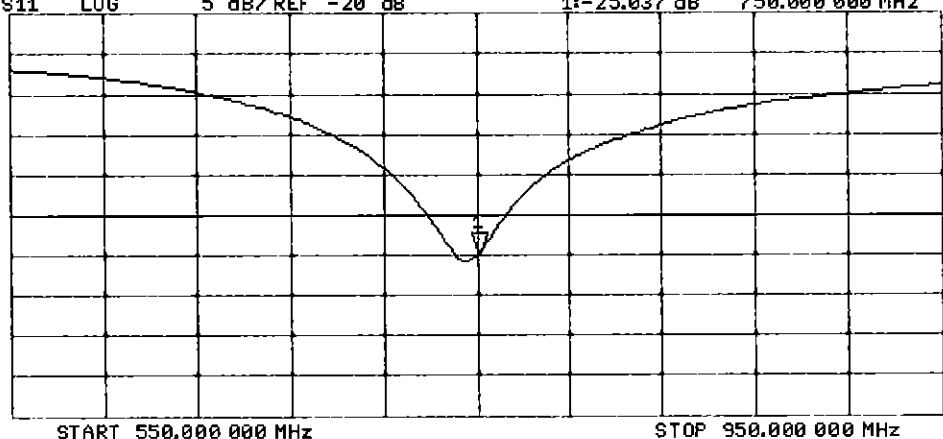


CH2 S11 LOG 5 dB/REF -20 dB 1:-25.037 dB 750.000 000 MHz

CA

Avg
16

H1d



DASY5 Validation Report for Body TSL

Date: 12.06.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1057

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: $f = 750$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 54.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.35, 10.35, 10.35); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

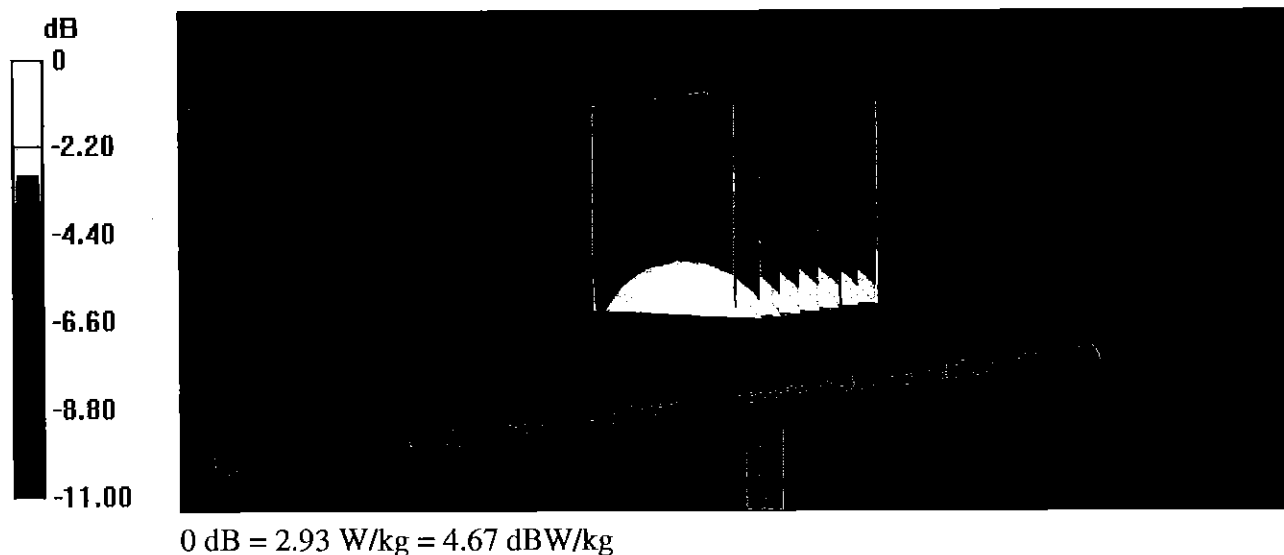
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.76 V/m; Power Drift = -0.02 dB

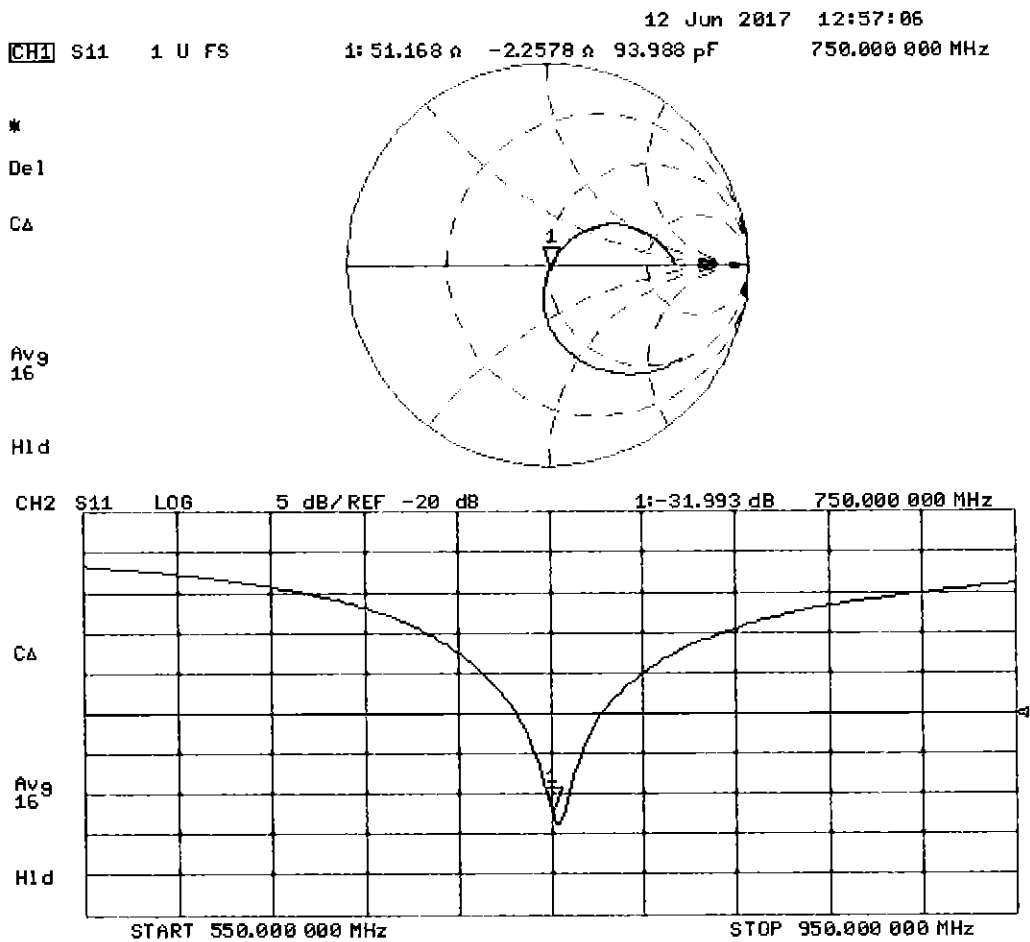
Peak SAR (extrapolated) = 3.34 W/kg

SAR(1 g) = 2.22 W/kg; SAR(10 g) = 1.46 W/kg

Maximum value of SAR (measured) = 2.93 W/kg



Impedance Measurement Plot for Body TSL



Certification of Calibration

Object D750V3 – SN: 1057

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

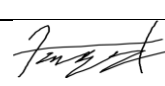
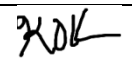
Extended Calibration date: June 01, 2018

Description: SAR Validation Dipole at 750 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	9/14/2017	Annual	9/14/2018	US39170118
Agilent	N5182A	MXG Vector Signal Generator	3/19/2018	Annual	3/19/2019	US46240505
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	10/9/2017	Annual	10/9/2018	1138001
Anritsu	MA2411B	Pulse Power Sensor	11/15/2017	Annual	11/15/2018	1339007
Anritsu	MA2411B	Pulse Power Sensor	11/22/2017	Annual	11/22/2018	1339008
Control Company	4040	Temperature / Humidity Monitor	2/28/2018	Biennial	2/28/2020	150761911
Control Company	4352	Ultra Long Stem Thermometer	2/14/2017	Biennial	2/14/2019	170112507
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	6/1/2017	Annual	6/1/2018	MY53401181
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE5011-1	Torque Wrench	7/19/2017	Biennial	7/19/2019	N/A
SPEAG	DAKS-3.5	Portable DAK	9/5/2017	Annual	9/5/2018	1045
SPEAG	EX3DV4	SAR Probe	1/26/2018	Annual	1/26/2019	7490
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/26/2018	Annual	1/26/2019	1532

Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Sangmin Cha	Biomedical Engineer II	
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	

DIPOLE CALIBRATION EXTENSION

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

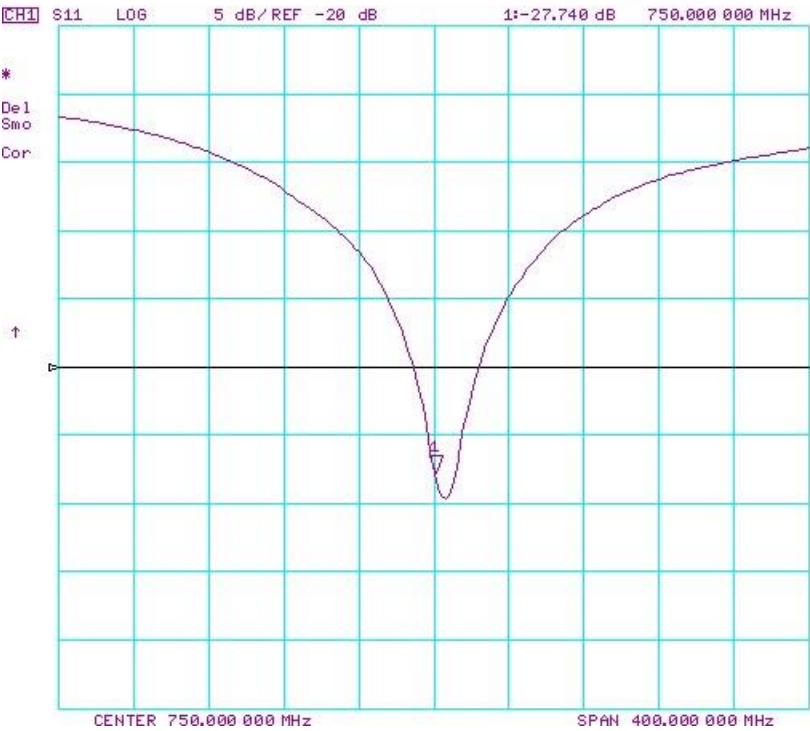
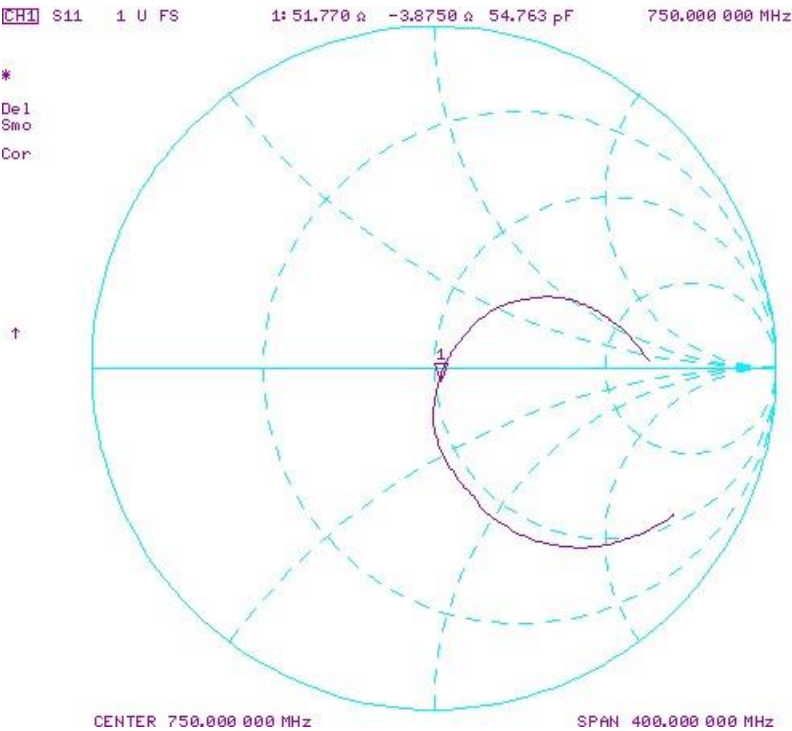
1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

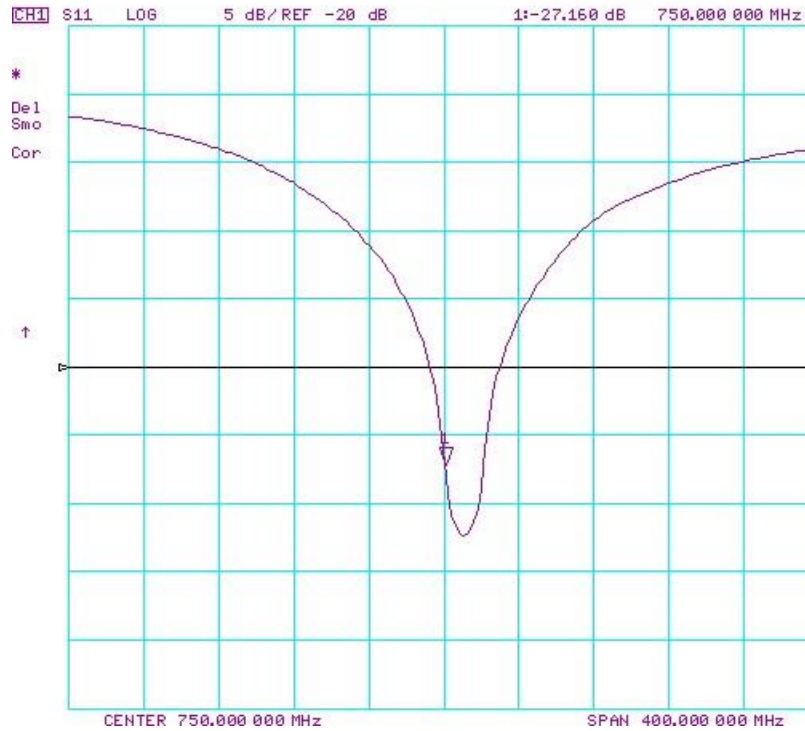
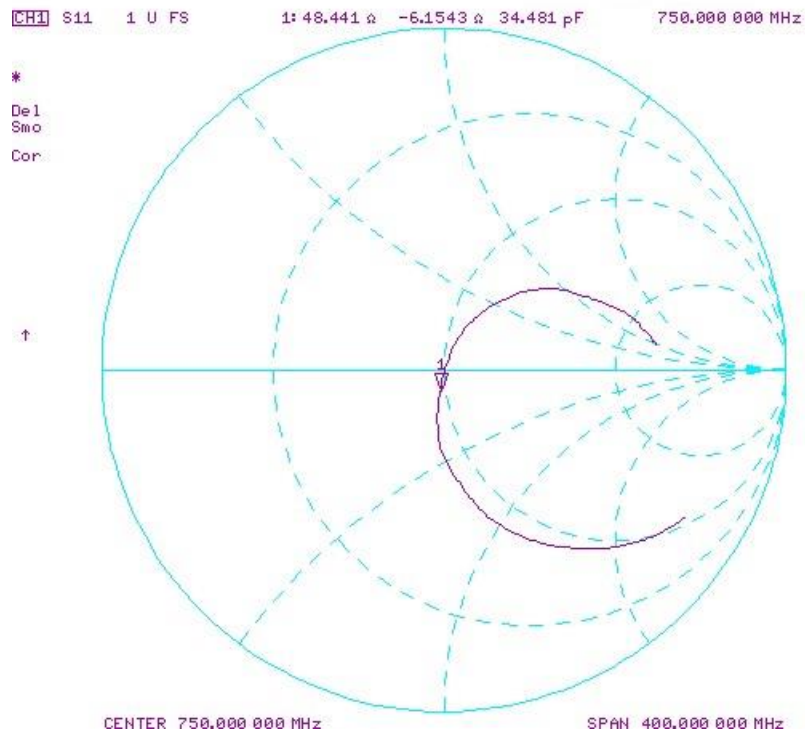
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 23.0 dBm	Measured Head SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 23.0 dBm	Measured Head SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
6/13/2018	6/1/2018	1.035	1.662	1.66	-0.12%	1.078	1.09	1.11%	55.9	51.8	4.1	0.1	-3.9	4	-25	-27.7	-10.80%	PASS

Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 23.0 dBm	Measured Body SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 23.0 dBm	Measured Body SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
6/13/2018	6/1/2018	1.035	1.758	1.67	-5.01%	1.158	1.11	-4.15%	51.2	48.4	2.8	-2.3	-6.2	3.9	-32	-27.2	15.00%	PASS

Impedance & Return-Loss Measurement Plot for Head TSL



Impedance & Return-Loss Measurement Plot for Body TSL





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 The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **PG Test**

Certificate No: **D750V3-1097_Sep17**

CALIBRATION CERTIFICATE

Object **D750V3 - SN:1097**

Calibration procedure(s) **QA CAL-05.v9**
Calibration procedure for dipole validation kits above 700 MHz

SC ✓
 10/03/2017

Calibration date: **September 08, 2017**

SC ✓
 9/8/2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18
Reference 20 dB Attenuator	SN: 5058 (20k)	07-Apr-17 (No. 217-02528)	Apr-18
Type-N mismatch combination	SN: 5047.2 / 06327	07-Apr-17 (No. 217-02529)	Apr-18
Reference Probe EX3DV4	SN: 7349	31-May-17 (No. EX3-7349_May17)	May-18
DAE4	SN: 601	28-Mar-17 (No. DAE4-601_Mar17)	Mar-18
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

Calibrated by: **Claudio Leubler** Name
Laboratory Technician Function

Signature

Approved by: **Katja Pokovic** Name
Technical Manager Function

Signature

Issued: September 8, 2017

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	41.2 $\pm$ 6 %	0.90 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.08 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.22 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.36 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.39 W/kg $\pm$ 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 $\pm$ 0.2) °C	55.5 $\pm$ 6 %	0.96 mho/m $\pm$ 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.14 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.56 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.42 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.68 W/kg $\pm$ 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	54.4 Ω - 0.6 j Ω
Return Loss	- 27.5 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	50.0 Ω - 3.6 j Ω
Return Loss	- 28.8 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.034 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	July 05, 2013