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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
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 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 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
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n77 DoD	Data	3460.02 - 3540 MHz
NR Band n77 C	Data	3710.01 - 3969.99 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

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with the Qualcomm® Smart Transmit feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.10 – Bibliography).

Note that WLAN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design_target, below the predefined time-averaged power limit (i.e., P_{limit} for sub-6 radio), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could be found in Section 1.10 - Bibliography).

Exposure Scenario:	Ant 1a/1b Body		Ant 2 Body		Ant 3a/3b Body		Ant 4 Body		
	Averaging Volume:	1g	Ant 1a/1b Maximum Tune up	1g	Ant 2 Maximum Tune up	1g	Ant 3a/3b Maximum Tune up	1g	Ant 4 Maximum Tune up
Spacing:	0 mm		0 mm		0 mm		0 mm		0 mm
DSI:	1		1		1		1		1
Technology/Band	P _{limit} corresponding to 0.8 W/kg	P _{max}	P _{limit} corresponding to 0.8 W/kg	P _{max}	P _{limit} corresponding to 0.8 W/kg	P _{max}	P _{limit} corresponding to 0.8 W/kg	P _{max}	
UMTS B50	N/A	N/A	16.70	24.20	N/A	N/A	17.80	24.70	
UMTS 1200	11.20	21.70	13.10	22.70	12.20	23.70	16.90	24.70	
UMTS 3800	10.20	21.70	12.80	22.70	11.50	23.70	13.00	24.70	
LTE Band 71	N/A	N/A	17.50	24.20	N/A	N/A	19.50	24.70	
LTE Band 12	N/A	N/A	17.50	24.20	N/A	N/A	17.90	24.70	
LTE Band 17	N/A	N/A	17.50	24.20	N/A	N/A	17.90	24.70	
LTE Band 13	N/A	N/A	17.25	24.20	N/A	N/A	18.50	24.70	
LTE Band 14	N/A	N/A	17.25	24.20	N/A	N/A	18.50	24.70	
LTE Band 20 (Cell)	N/A	N/A	16.70	24.20	N/A	N/A	17.80	24.70	
LTE Band 5 (Cell)	N/A	N/A	16.70	24.20	N/A	N/A	17.80	24.70	
LTE Band 5 (ULCA (Cell))	N/A	N/A	16.70	24.20	N/A	N/A	17.80	24.70	
LTE Band 66 (AWS)	11.20	21.70	13.10	22.70	12.20	23.70	13.30	24.70	
LTE Band 66 (ULCA (AWS))	11.20	21.70	13.10	22.70	12.20	23.70	13.30	24.70	
LTE Band 4 (AWS)	11.20	21.70	13.10	22.70	12.20	23.70	13.30	24.70	
LTE Band 25 (PCS)	10.20	21.70	12.80	22.70	11.50	23.70	13.00	24.70	
LTE Band 2 (PCS)	10.20	21.70	12.80	22.70	11.50	23.70	13.00	24.70	
LTE Band 30	11.30	21.70	12.20	21.70	13.40	23.20	13.00	23.00	
LTE Band 7	12.00	21.70	10.80	22.20	13.70	23.20	11.00	24.70	
LTE Band 7 (ULCA)	12.00	22.00	10.80	22.50	13.70	23.50	11.00	24.70	
LTE Band 41 PC2	11.21	21.71	11.11	22.21	12.81	22.71	11.71	22.71	
LTE Band 41 ULCA PC3	11.21	22.01	11.11	22.51	12.81	22.71	11.71	22.71	
LTE Band 41 PC2	11.21	20.06	11.11	20.56	12.81	21.56	11.71	23.06	
LTE Band 41 ULCA PC2	11.21	20.36	11.11	20.86	12.81	21.86	11.71	23.36	
LTE Band 40	9.31	16.61	10.01	17.31	9.01	16.41	8.91	16.91	
LTE Band 48 ULCA	9.31	16.61	10.01	17.31	9.01	16.41	8.91	16.91	
NR Band n71	N/A	N/A	17.50	24.20	N/A	N/A	19.50	24.70	
NR Band n12	N/A	N/A	17.50	24.20	N/A	N/A	17.90	24.70	
NR Band n5 (Cell)	N/A	N/A	16.70	24.20	N/A	N/A	17.80	24.70	
NR Band n66 (AWS)	11.20	21.70	13.10	22.70	12.20	23.70	13.30	24.70	
NR Band n25 (PCS)	10.20	21.70	12.80	22.70	11.50	23.70	13.00	24.70	
NR Band n25 (PCS)	10.20	21.70	12.80	22.70	11.50	23.70	13.00	24.70	
NR Band n30	11.30	21.70	12.20	21.70	13.40	23.20	13.00	23.00	
NR Band n7	12.00	21.70	10.80	22.20	13.70	23.20	11.00	24.70	
NR Band n41 PC2	11.70	26.70	11.50	26.70	13.90	22.70	11.10	24.70	
NR Band n41 PC2	11.70	23.20	10.40	22.20	10.00	24.70	10.50	24.70	
NR Band n77 PC3	9.40	23.20	10.40	22.20	10.00	25.20	10.50	25.70	
NR Band n77 PC2	9.40	23.20	10.40	22.20	10.00	25.20	10.50	25.70	

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for sub-6GHz WWAN is +1.0/-1.0 dB for this EUT.


*Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1.0dB device design uncertainty.

*Note all P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., LTE TDD).

The maximum time-averaged output power (dBm) for any 3G/4G/5G WWAN technology, band, and DSI = minimum of " P_{limit} EFS" and "Maximum tune up output power P_{max} " +1.0/-1.0 dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting Reserve_power_margin (Smart Transmit EFS entry) to 0 dB.

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1.3 Power Reduction for SAR

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

Additionally, this device uses an independent mechanism that limits WIFI powers to a time-averaged output power. For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. Appendix J includes verification data for this time-averaged SAR mechanism.

1.4 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.

1.4.1 3G/4G/5G Output Power for Portable Use Conditions

**Table 1-1
UMTS B5 (850 MHz)**


Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
UMTS Band 5 (850 MHz)	Ant 2	Max allowed power	17.70	17.70	17.70	17.70
		Nominal	16.70	16.70	16.70	16.70
	Ant 4	Max allowed power	18.80	18.80	18.80	18.80
		Nominal	17.80	17.80	17.80	17.80

**Table 1-2
UMTS B4 (1750 MHz)**

Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
UMTS Band 4 (1750 MHz)	Ant 1b	Max allowed power	12.20	12.20	12.20	12.20
		Nominal	11.20	11.20	11.20	11.20
	Ant 2	Max allowed power	14.10	14.10	14.10	14.10
		Nominal	13.10	13.10	13.10	13.10
	Ant 3b	Max allowed power	13.20	13.20	13.20	13.20
		Nominal	12.20	12.20	12.20	12.20
	Ant 4	Max allowed power	14.30	14.30	14.30	14.30
		Nominal	13.30	13.30	13.30	13.30


**Table 1-3
UMTS B2 (1900 MHz)**

Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
UMTS Band 2 (1900 MHz)	Ant 1b	Max allowed power	11.20	11.20	11.20	11.20
		Nominal	10.20	10.20	10.20	10.20
	Ant 2	Max allowed power	13.80	13.80	13.80	13.80
		Nominal	12.80	12.80	12.80	12.80
	Ant 3b	Max allowed power	12.50	12.50	12.50	12.50
		Nominal	11.50	11.50	11.50	11.50
	Ant 4	Max allowed power	14.00	14.00	14.00	14.00
		Nominal	13.00	13.00	13.00	13.00

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**Table 1-4
LTE Bands**

Mode / Band		Modulated Average Output Power (in dBm)					
		Ant 1a	Ant 1b	Ant 2	Ant 3a	Ant 3b	Ant 4
LTE FDD Band 71	Max allowed power			18.50			20.50
	Nominal			17.50			19.50
LTE FDD Band 12	Max allowed power			18.50			18.90
	Nominal			17.50			17.90
LTE FDD Band 17	Max allowed power			18.50			18.90
	Nominal			17.50			17.90
LTE FDD Band 13	Max allowed power			18.25			19.50
	Nominal			17.25			18.50
LTE FDD Band 14	Max allowed power			18.25			19.50
	Nominal			17.25			18.50
LTE FDD Band 26	Max allowed power			17.70			18.80
	Nominal			16.70			17.80
LTE FDD Band 5	Max allowed power			17.70			18.80
	Nominal			16.70			17.80
LTE FDD Band 5 Intra-band ULCA	Max allowed power			17.70			18.80
	Nominal			16.70			17.80
LTE FDD Band 4	Max allowed power		12.20	14.10		13.20	14.30
	Nominal		11.20	13.10		12.20	13.30
LTE FDD Band 66	Max allowed power		12.20	14.10		13.20	14.30
	Nominal		11.20	13.10		12.20	13.30
LTE FDD Band 66 Intra-band ULCA	Max allowed power		12.20	14.10		13.20	14.30
	Nominal		11.20	13.10		12.20	13.30
LTE FDD Band 2	Max allowed power		11.20	13.80		12.50	14.00
	Nominal		10.20	12.80		11.50	13.00
LTE FDD Band 25	Max allowed power		11.20	13.80		12.50	14.00
	Nominal		10.20	12.80		11.50	13.00
LTE FDD Band 30	Max allowed power		12.30	13.20		14.40	14.20
	Nominal		11.30	12.20		13.40	13.20
LTE FDD Band 7	Max allowed power		13.00	11.80		14.70	12.00
	Nominal		12.00	10.80		13.70	11.00
LTE FDD Band 7 Intra-band ULCA	Max allowed power		13.00	11.80		14.70	12.00
	Nominal		12.00	10.80		13.70	11.00
LTE TDD Band 41 (PC3)	Max allowed power		14.20	14.10		15.80	14.70
	Nominal		13.20	13.10		14.80	13.70
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power		14.20	14.10		15.80	14.70
	Nominal		13.20	13.10		14.80	13.70
LTE TDD Band 41 (PC2)	Max allowed power		15.85	15.75		17.45	16.35
	Nominal		14.85	14.75		16.45	15.35
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power		15.85	15.75		17.45	16.35
	Nominal		14.85	14.75		16.45	15.35
LTE TDD Band 48	Max allowed power	12.30		13.00	12.00		11.90
	Nominal	11.30		12.00	11.00		10.90
LTE TDD Band 48 Intra-band ULCA	Max allowed power	12.30		13.00	12.00		11.90
	Nominal	11.30		12.00	11.00		10.90

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**Table 1-5
NR Bands**

Mode / Band		Modulated Average Output Power (in dBm)					
		Ant 1a	Ant 1b	Ant 2	Ant 3a	Ant 3b	Ant 4
NR FDD Band n71	Max allowed power			18.50			20.50
	Nominal			17.50			19.50
NR FDD Band n12	Max allowed power			18.50			18.90
	Nominal			17.50			17.90
NR FDD Band n5	Max allowed power			17.70			18.80
	Nominal			16.70			17.80
NR FDD Band n66	Max allowed power		12.20	14.10		13.20	14.30
	Nominal		11.20	13.10		12.20	13.30
NR FDD Band n2	Max allowed power		11.20	13.80		12.50	14.00
	Nominal		10.20	12.80		11.50	13.00
NR FDD Band n25	Max allowed power		11.20	13.80		12.50	14.00
	Nominal		10.20	12.80		11.50	13.00
NR FDD Band n30	Max allowed power		12.30	13.20		14.40	14.20
	Nominal		11.30	12.20		13.40	13.20
NR FDD Band n7	Max allowed power		13.00	11.80		14.70	12.00
	Nominal		12.00	10.80		13.70	11.00
NR TDD Band n41 (PC3) [Burst Averaged]	Max allowed power		12.70	12.50		14.90	12.10
	Nominal		11.70	11.50		13.90	11.10
NR TDD Band n41 (PC2) [Burst Averaged]	Max allowed power		12.70	12.50		14.90	12.10
	Nominal		11.70	11.50		13.90	11.10
NR TDD Band n77 DOD (PC3) [Burst Averaged]	Max allowed power	10.40		11.40	11.00		11.50
	Nominal	9.40		10.40	10.00		10.50
NR TDD Band n77 DOD (PC2) [Burst Averaged]	Max allowed power	10.40		11.40	11.00		11.50
	Nominal	9.40		10.40	10.00		10.50
NR TDD Band n77 C (PC3) [Burst Averaged]	Max allowed power	10.40		11.40	11.00		11.50
	Nominal	9.40		10.40	10.00		10.50
NR TDD Band n77 C (PC2) [Burst Averaged]	Max allowed power	10.40		11.40	11.00		11.50
	Nominal	9.40		10.40	10.00		10.50

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1.4.2 Maximum WLAN Time-Averaged Output Power

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

Mode/ Band		IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 1a	20 MHz Bandwidth	1	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		2	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		3	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		4	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		5	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		6	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		7	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		8	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		9	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		10	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		11	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		12	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
		13	12.25	10.75	8.00	6.50	8.00	6.50	NS	NS

Mode/ Band		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 1a	20 MHz Bandwidth	1	12.25	10.75	12.25	10.75	12.25	10.75
		2	12.25	10.75	12.25	10.75	12.25	10.75
		3	12.25	10.75	12.25	10.75	12.25	10.75
		4	12.25	10.75	12.25	10.75	12.25	10.75
		5	12.25	10.75	12.25	10.75	12.25	10.75
		6	12.25	10.75	12.25	10.75	12.25	10.75
		7	12.25	10.75	12.25	10.75	12.25	10.75
		8	12.25	10.75	12.25	10.75	12.25	10.75
		9	12.25	10.75	12.25	10.75	12.25	10.75
		10	12.25	10.75	12.25	10.75	12.25	10.75
		11	12.25	10.75	12.25	10.75	12.25	10.75
		12	12.00	10.50	12.00	10.50	12.00	10.50
		13	7.50	6.00	7.50	6.00	NS	NS


Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Mode/ Band		Channel	IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 3a	20 MHz Bandwidth	1	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		2	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		3	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		4	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		5	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		6	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		7	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		8	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		9	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		10	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		11	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		12	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		13	11.50	10.00	8.00	6.50	8.00	6.50	NS	NS

Mode/ Band		Channel	IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 3a	20 MHz Bandwidth	1	11.50	10.00	11.50	10.00	11.50	10.00
		2	11.50	10.00	11.50	10.00	11.50	10.00
		3	11.50	10.00	11.50	10.00	11.50	10.00
		4	11.50	10.00	11.50	10.00	11.50	10.00
		5	11.50	10.00	11.50	10.00	11.50	10.00
		6	11.50	10.00	11.50	10.00	11.50	10.00
		7	11.50	10.00	11.50	10.00	11.50	10.00
		8	11.50	10.00	11.50	10.00	11.50	10.00
		9	11.50	10.00	11.50	10.00	11.50	10.00
		10	11.50	10.00	11.50	10.00	11.50	10.00
		11	11.50	10.00	11.50	10.00	11.50	10.00
		12	11.50	10.00	11.50	10.00	11.00	9.50
		13	7.50	6.00	7.50	6.00	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.



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Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average Single Tx Chain (dBm) - 5GHz Antenna 5T	20 MHz Bandwidth	36	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		40	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		44	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		48	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		52	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25
		56	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25
		60	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25
		64	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25
		100	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		104	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		108	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		112	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		116	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		120	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		124	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		128	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		132	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		136	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		140	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	144	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	
	149	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25	
	153	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25	
	157	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25	
	161	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25	
	165	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25	
	40 MHz Bandwidth	38			15.25	13.75	15.25	13.75	14.00	12.50
		46			15.50	14.00	15.50	14.00	15.50	14.00
		54			14.75	13.25	14.75	13.25	14.75	13.25
		62			14.75	13.25	14.75	13.25	14.50	13.00
		102			14.25	12.75	14.25	12.75	14.25	12.75
		110			14.25	12.75	14.25	12.75	14.25	12.75
		118			14.25	12.75	14.25	12.75	14.25	12.75
		126			14.25	12.75	14.25	12.75	14.25	12.75
		134			14.25	12.75	14.25	12.75	14.25	12.75
		142			14.25	12.75	14.25	12.75	14.25	12.75
	80 MHz Bandwidth	151			14.75	13.25	14.75	13.25	14.75	13.25
		159			14.75	13.25	14.75	13.25	14.75	13.25
		42					15.00	13.50	14.00	12.50
		58					14.50	13.00	14.00	12.50
		106					14.25	12.75	14.25	12.75
	122					14.25	12.75	14.25	12.75	
	138					14.25	12.75	14.25	12.75	
	155					14.75	13.25	14.75	13.25	

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Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average 2 Tx Chain (dBm) CDD - 5GHz Antenna 5T	20 MHz Bandwidth	36	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		40	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		44	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		48	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		52	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25
		56	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25
		60	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25
		64	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25
		100	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		104	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		108	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		112	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		116	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		120	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		124	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		128	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		132	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
		136	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	140	14.25	12.75	14.25	12.75	14.25	12.75	13.50	12.00	
	144	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	
	149	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25	
	153	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25	
	157	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25	
	161	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25	
	165	14.75	13.25	14.75	13.25	14.75	13.25	14.75	13.25	
	40 MHz Bandwidth	38			14.50	13.00	14.50	13.00	13.50	12.00
		46			15.50	14.00	15.50	14.00	15.50	14.00
		54			14.75	13.25	14.75	13.25	14.75	13.25
		62			14.75	13.25	14.75	13.25	14.00	12.50
		102			14.25	12.75	14.25	12.75	13.50	12.00
		110			14.25	12.75	14.25	12.75	14.25	12.75
		118			14.25	12.75	14.25	12.75	14.25	12.75
		126			14.25	12.75	14.25	12.75	14.25	12.75
		134			14.25	12.75	14.25	12.75	14.25	12.75
		142			14.25	12.75	14.25	12.75	14.25	12.75
	80 MHz Bandwidth	151			14.75	13.25	14.75	13.25	14.75	13.25
		159			14.75	13.25	14.75	13.25	14.75	13.25
		42					14.00	12.50	13.50	12.00
		58					13.50	12.00	13.00	11.50
		106					13.25	11.75	12.50	11.00
	122					14.25	12.75	14.25	12.75	
	138					14.25	12.75	14.25	12.75	
	155					14.75	13.25	14.75	13.25	

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.



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Mode/ Band		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz Antenna 5T	20 MHz Bandwidth	36	15.50	14.00	15.50	14.00	15.50	14.00
		40	15.50	14.00	15.50	14.00	15.50	14.00
		44	15.50	14.00	15.50	14.00	15.50	14.00
		48	15.50	14.00	15.50	14.00	15.50	14.00
		52	14.75	13.25	14.75	13.25	14.75	13.25
		56	14.75	13.25	14.75	13.25	14.75	13.25
		60	14.75	13.25	14.75	13.25	14.75	13.25
		64	14.75	13.25	14.75	13.25	14.75	13.25
		100	14.25	12.75	14.25	12.75	14.25	12.75
		104	14.25	12.75	14.25	12.75	14.25	12.75
		108	14.25	12.75	14.25	12.75	14.25	12.75
		112	14.25	12.75	14.25	12.75	14.25	12.75
		116	14.25	12.75	14.25	12.75	14.25	12.75
		120	14.25	12.75	14.25	12.75	14.25	12.75
		124	14.25	12.75	14.25	12.75	14.25	12.75
		128	14.25	12.75	14.25	12.75	14.25	12.75
		132	14.25	12.75	14.25	12.75	14.25	12.75
		136	14.25	12.75	14.25	12.75	14.25	12.75
	140	14.25	12.75	14.25	12.75	13.50	12.00	
	144	14.25	12.75	14.25	12.75	14.25	12.75	
	149	14.75	13.25	14.75	13.25	14.75	13.25	
	153	14.75	13.25	14.75	13.25	14.75	13.25	
	157	14.75	13.25	14.75	13.25	14.75	13.25	
	161	14.75	13.25	14.75	13.25	14.75	13.25	
	165	14.75	13.25	14.75	13.25	14.75	13.25	
	40 MHz Bandwidth	38	14.50	13.00	14.50	13.00	13.50	12.00
		46	15.50	14.00	15.50	14.00	15.50	14.00
		54	14.75	13.25	14.75	13.25	14.75	13.25
		62	14.75	13.25	14.75	13.25	14.00	12.50
		102	14.25	12.75	14.25	12.75	13.50	12.00
		110	14.25	12.75	14.25	12.75	14.25	12.75
		118	14.25	12.75	14.25	12.75	14.25	12.75
		126	14.25	12.75	14.25	12.75	14.25	12.75
134		14.25	12.75	14.25	12.75	14.25	12.75	
142		14.25	12.75	14.25	12.75	14.25	12.75	
80 MHz Bandwidth	151	14.75	13.25	14.75	13.25	14.75	13.25	
	159	14.75	13.25	14.75	13.25	14.75	13.25	
	42			14.00	12.50	13.50	12.00	
	58			13.50	12.00	13.00	11.50	
	106			13.25	11.75	12.50	11.00	
	122			14.25	12.75	14.25	12.75	
	138			14.25	12.75	14.25	12.75	
155			14.75	13.25	14.75	13.25		

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.


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Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average Single Tx Chain (dBm) - 5GHz Antenna 3b	20 MHz Bandwidth	36	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		40	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		44	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		48	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		52	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		56	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		60	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		64	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		100	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		104	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		108	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		112	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		116	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		120	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		124	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		128	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		132	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		136	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		140	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
	144	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50	
	149	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	153	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	157	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	161	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	165	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	40 MHz Bandwidth	38			10.75	9.25	10.75	9.25	10.75	9.25
		46			10.75	9.25	10.75	9.25	10.75	9.25
		54			11.00	9.50	11.00	9.50	11.00	9.50
		62			11.00	9.50	11.00	9.50	11.00	9.50
		102			11.00	9.50	11.00	9.50	11.00	9.50
		110			11.00	9.50	11.00	9.50	11.00	9.50
		118			11.00	9.50	11.00	9.50	11.00	9.50
		126			11.00	9.50	11.00	9.50	11.00	9.50
		134			11.00	9.50	11.00	9.50	11.00	9.50
		142			11.00	9.50	11.00	9.50	11.00	9.50
	80 MHz Bandwidth	151			11.25	9.75	11.25	9.75	11.25	9.75
		159			11.25	9.75	11.25	9.75	11.25	9.75
		42					10.75	9.25	10.75	9.25
		58					11.00	9.50	11.00	9.50
		106					11.00	9.50	11.00	9.50
	122					11.00	9.50	11.00	9.50	
	138					11.00	9.50	11.00	9.50	
	155					11.25	9.75	11.25	9.75	

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Mode/ Band		Channel	IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average 2 Tx Chain (dBm) CDD - 5GHz Antenna 3b	20 MHz Bandwidth	36	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		40	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		44	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		48	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		52	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		56	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		60	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		64	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		100	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		104	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		108	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		112	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		116	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		120	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		124	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		128	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		132	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		136	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
	140	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50	
	144	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50	
	149	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	153	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	157	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	161	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	165	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	40 MHz Bandwidth	38			10.75	9.25	10.75	9.25	10.75	9.25
		46			10.75	9.25	10.75	9.25	10.75	9.25
		54			11.00	9.50	11.00	9.50	11.00	9.50
		62			11.00	9.50	11.00	9.50	11.00	9.50
		102			11.00	9.50	11.00	9.50	11.00	9.50
		110			11.00	9.50	11.00	9.50	11.00	9.50
		118			11.00	9.50	11.00	9.50	11.00	9.50
		126			11.00	9.50	11.00	9.50	11.00	9.50
		134			11.00	9.50	11.00	9.50	11.00	9.50
		142			11.00	9.50	11.00	9.50	11.00	9.50
	151			11.25	9.75	11.25	9.75	11.25	9.75	
	159			11.25	9.75	11.25	9.75	11.25	9.75	
	80 MHz Bandwidth	42					10.75	9.25	10.75	9.25
		58					11.00	9.50	11.00	9.50
		106					11.00	9.50	11.00	9.50
		122					11.00	9.50	11.00	9.50
		138					11.00	9.50	11.00	9.50
	155					11.25	9.75	11.25	9.75	

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.



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Mode/ Band		Channel	IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz Antenna 3b	20 MHz Bandwidth	36	10.75	9.25	10.75	9.25	10.75	9.25
		40	10.75	9.25	10.75	9.25	10.75	9.25
		44	10.75	9.25	10.75	9.25	10.75	9.25
		48	10.75	9.25	10.75	9.25	10.75	9.25
		52	11.00	9.50	11.00	9.50	11.00	9.50
		56	11.00	9.50	11.00	9.50	11.00	9.50
		60	11.00	9.50	11.00	9.50	11.00	9.50
		64	11.00	9.50	11.00	9.50	11.00	9.50
		100	11.00	9.50	11.00	9.50	11.00	9.50
		104	11.00	9.50	11.00	9.50	11.00	9.50
		108	11.00	9.50	11.00	9.50	11.00	9.50
		112	11.00	9.50	11.00	9.50	11.00	9.50
		116	11.00	9.50	11.00	9.50	11.00	9.50
		120	11.00	9.50	11.00	9.50	11.00	9.50
		124	11.00	9.50	11.00	9.50	11.00	9.50
		128	11.00	9.50	11.00	9.50	11.00	9.50
		132	11.00	9.50	11.00	9.50	11.00	9.50
		136	11.00	9.50	11.00	9.50	11.00	9.50
	140	11.00	9.50	11.00	9.50	11.00	9.50	
	144	11.00	9.50	11.00	9.50	11.00	9.50	
	149	11.25	9.75	11.25	9.75	11.25	9.75	
	153	11.25	9.75	11.25	9.75	11.25	9.75	
	157	11.25	9.75	11.25	9.75	11.25	9.75	
	161	11.25	9.75	11.25	9.75	11.25	9.75	
	165	11.25	9.75	11.25	9.75	11.25	9.75	
	40 MHz Bandwidth	38	10.75	9.25	10.75	9.25	10.75	9.25
		46	10.75	9.25	10.75	9.25	10.75	9.25
		54	11.00	9.50	11.00	9.50	11.00	9.50
		62	11.00	9.50	11.00	9.50	11.00	9.50
		102	11.00	9.50	11.00	9.50	11.00	9.50
		110	11.00	9.50	11.00	9.50	11.00	9.50
		118	11.00	9.50	11.00	9.50	11.00	9.50
		126	11.00	9.50	11.00	9.50	11.00	9.50
		134	11.00	9.50	11.00	9.50	11.00	9.50
		142	11.00	9.50	11.00	9.50	11.00	9.50
	151	11.25	9.75	11.25	9.75	11.25	9.75	
	159	11.25	9.75	11.25	9.75	11.25	9.75	
	80 MHz Bandwidth	42			10.75	9.25	10.75	9.25
		58			11.00	9.50	11.00	9.50
		106			11.00	9.50	11.00	9.50
		122			11.00	9.50	11.00	9.50
		138			11.00	9.50	11.00	9.50
		155			11.25	9.75	11.25	9.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.



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Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average Single Tx Chain (dBm) - 5GHz Antenna 1b	20 MHz Bandwidth	36	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		40	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		44	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		48	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		52	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		100	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		104	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		108	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		112	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		116	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		120	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		124	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		128	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		132	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		136	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	140	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	
	144	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	
	149	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	153	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	157	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	161	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	165	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	40 MHz Bandwidth	38			9.25	7.75	9.25	7.75	9.25	7.75
		46			9.25	7.75	9.25	7.75	9.25	7.75
		54			9.75	8.25	9.75	8.25	9.75	8.25
		62			9.75	8.25	9.75	8.25	9.75	8.25
		102			9.75	8.25	9.75	8.25	9.75	8.25
		110			9.75	8.25	9.75	8.25	9.75	8.25
		118			9.75	8.25	9.75	8.25	9.75	8.25
		126			9.75	8.25	9.75	8.25	9.75	8.25
		134			9.75	8.25	9.75	8.25	9.75	8.25
		142			9.75	8.25	9.75	8.25	9.75	8.25
	80 MHz Bandwidth	151			10.75	9.25	10.75	9.25	10.75	9.25
		159			10.75	9.25	10.75	9.25	10.75	9.25
		42					9.25	7.75	9.25	7.75
		58					9.75	8.25	9.75	8.25
		106					9.75	8.25	9.75	8.25
	122					9.75	8.25	9.75	8.25	
	138					9.75	8.25	9.75	8.25	
	155					10.75	9.25	10.75	9.25	

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Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average 2 Tx Chain (dBm) CDD - 5GHz Antenna 1b	20 MHz Bandwidth	36	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		40	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		44	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		48	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		52	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		100	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		104	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		108	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		112	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		116	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		120	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		124	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		128	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		132	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		136	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		140	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		144	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	149	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	153	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	157	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	161	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	165	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	40 MHz Bandwidth	38			9.25	7.75	9.25	7.75	9.25	7.75
		46			9.25	7.75	9.25	7.75	9.25	7.75
		54			9.75	8.25	9.75	8.25	9.75	8.25
		62			9.75	8.25	9.75	8.25	9.75	8.25
		102			9.75	8.25	9.75	8.25	9.75	8.25
		110			9.75	8.25	9.75	8.25	9.75	8.25
		118			9.75	8.25	9.75	8.25	9.75	8.25
		126			9.75	8.25	9.75	8.25	9.75	8.25
		134			9.75	8.25	9.75	8.25	9.75	8.25
		142			9.75	8.25	9.75	8.25	9.75	8.25
	80 MHz Bandwidth	151			10.75	9.25	10.75	9.25	10.75	9.25
		159			10.75	9.25	10.75	9.25	10.75	9.25
		42					9.25	7.75	9.25	7.75
		58					9.75	8.25	9.75	8.25
		106					9.75	8.25	9.75	8.25
	122					9.75	8.25	9.75	8.25	
	138					9.75	8.25	9.75	8.25	
	155					10.75	9.25	10.75	9.25	

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Mode/ Band		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz Antenna 1b	20 MHz Bandwidth	36	9.25	7.75	9.25	7.75	9.25	7.75
		40	9.25	7.75	9.25	7.75	9.25	7.75
		44	9.25	7.75	9.25	7.75	9.25	7.75
		48	9.25	7.75	9.25	7.75	9.25	7.75
		52	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25
		100	9.75	8.25	9.75	8.25	9.75	8.25
		104	9.75	8.25	9.75	8.25	9.75	8.25
		108	9.75	8.25	9.75	8.25	9.75	8.25
		112	9.75	8.25	9.75	8.25	9.75	8.25
		116	9.75	8.25	9.75	8.25	9.75	8.25
		120	9.75	8.25	9.75	8.25	9.75	8.25
		124	9.75	8.25	9.75	8.25	9.75	8.25
		128	9.75	8.25	9.75	8.25	9.75	8.25
	132	9.75	8.25	9.75	8.25	9.75	8.25	
	136	9.75	8.25	9.75	8.25	9.75	8.25	
	140	9.75	8.25	9.75	8.25	9.75	8.25	
	144	9.75	8.25	9.75	8.25	9.75	8.25	
	149	10.75	9.25	10.75	9.25	10.75	9.25	
	153	10.75	9.25	10.75	9.25	10.75	9.25	
	157	10.75	9.25	10.75	9.25	10.75	9.25	
	161	10.75	9.25	10.75	9.25	10.75	9.25	
	165	10.75	9.25	10.75	9.25	10.75	9.25	
	40 MHz Bandwidth	38	9.25	7.75	9.25	7.75	9.25	7.75
		46	9.25	7.75	9.25	7.75	9.25	7.75
		54	9.75	8.25	9.75	8.25	9.75	8.25
		62	9.75	8.25	9.75	8.25	9.75	8.25
		102	9.75	8.25	9.75	8.25	9.75	8.25
		110	9.75	8.25	9.75	8.25	9.75	8.25
		118	9.75	8.25	9.75	8.25	9.75	8.25
		126	9.75	8.25	9.75	8.25	9.75	8.25
134		9.75	8.25	9.75	8.25	9.75	8.25	
142		9.75	8.25	9.75	8.25	9.75	8.25	
80 MHz Bandwidth	151	10.75	9.25	10.75	9.25	10.75	9.25	
	159	10.75	9.25	10.75	9.25	10.75	9.25	
	42			9.25	7.75	9.25	7.75	
	58			9.75	8.25	9.75	8.25	
	106			9.75	8.25	9.75	8.25	
	122			9.75	8.25	9.75	8.25	
138			9.75	8.25	9.75	8.25		
155			10.75	9.25	10.75	9.25		

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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1.4.3 Reduced WLAN Time-Averaged Output Power

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

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b active
- Simultaneous conditions with Inter-Band ULCA active


Mode/ Band		Channel	IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 1a	20 MHz Bandwidth	1	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		2	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		3	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		4	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		5	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		6	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		7	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		8	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		9	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		10	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		11	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		12	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
		13	9.25	7.75	8.00	6.50	8.00	6.50	NS	NS

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b active
- Simultaneous conditions with Inter-Band ULCA active

Mode/ Band		Channel	IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 1a	20 MHz Bandwidth	1	9.25	7.75	9.25	7.75	9.25	7.75
		2	9.25	7.75	9.25	7.75	9.25	7.75
		3	9.25	7.75	9.25	7.75	9.25	7.75
		4	9.25	7.75	9.25	7.75	9.25	7.75
		5	9.25	7.75	9.25	7.75	9.25	7.75
		6	9.25	7.75	9.25	7.75	9.25	7.75
		7	9.25	7.75	9.25	7.75	9.25	7.75
		8	9.25	7.75	9.25	7.75	9.25	7.75
		9	9.25	7.75	9.25	7.75	9.25	7.75
		10	9.25	7.75	9.25	7.75	9.25	7.75
		11	9.25	7.75	9.25	7.75	9.25	7.75
		12	9.25	7.75	9.25	7.75	9.25	7.75
		13	7.50	6.00	7.50	6.00	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3a/3b active

-Simultaneous conditions with Inter-Band ULCA active

Mode/ Band		Channel	IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 3a	20 MHz Bandwidth	1	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		2	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		3	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		4	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		5	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		6	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		7	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		8	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		9	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		10	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		11	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		12	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
		13	8.50	7.00	8.00	6.50	8.00	6.50	NS	NS


Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3a/3b active

-Simultaneous conditions with Inter-Band ULCA active


Mode/ Band		Channel	IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 3a	20 MHz Bandwidth	1	8.50	7.00	8.50	7.00	8.50	7.00
		2	8.50	7.00	8.50	7.00	8.50	7.00
		3	8.50	7.00	8.50	7.00	8.50	7.00
		4	8.50	7.00	8.50	7.00	8.50	7.00
		5	8.50	7.00	8.50	7.00	8.50	7.00
		6	8.50	7.00	8.50	7.00	8.50	7.00
		7	8.50	7.00	8.50	7.00	8.50	7.00
		8	8.50	7.00	8.50	7.00	8.50	7.00
		9	8.50	7.00	8.50	7.00	8.50	7.00
		10	8.50	7.00	8.50	7.00	8.50	7.00
		11	8.50	7.00	8.50	7.00	8.50	7.00
		12	8.50	7.00	8.50	7.00	8.50	7.00
		13	7.50	6.00	7.50	6.00	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

FCC ID: BCGA2568	 PCTEST <small>Proud to be part of</small>		SAR EVALUATION REPORT	Approved by: Quality Manager
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Below table is applicable in the following conditions:
 -Simultaneous conditions with Licensed Bands Antenna 3a active
 -Simultaneous conditions with Inter-Band ULCA active


Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average Single Tx Chain (dBm) - 5GHz Antenna 5T	20 MHz Bandwidth	36	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		40	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		44	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		48	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		52	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		56	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		60	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		64	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		100	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	140	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	
	144	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	
	149	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	153	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	157	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	161	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	165	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	40 MHz Bandwidth	38			11.50	10.00	11.50	10.00	11.50	10.00
		46			11.50	10.00	11.50	10.00	11.50	10.00
		54			10.75	9.25	10.75	9.25	10.75	9.25
		62			10.75	9.25	10.75	9.25	10.75	9.25
		102			10.25	8.75	10.25	8.75	10.25	8.75
		110			10.25	8.75	10.25	8.75	10.25	8.75
		118			10.25	8.75	10.25	8.75	10.25	8.75
		126			10.25	8.75	10.25	8.75	10.25	8.75
		134			10.25	8.75	10.25	8.75	10.25	8.75
		142			10.25	8.75	10.25	8.75	10.25	8.75
	80 MHz Bandwidth	151			10.75	9.25	10.75	9.25	10.75	9.25
		159			10.75	9.25	10.75	9.25	10.75	9.25
		42					11.50	10.00	11.50	10.00
		58					10.75	9.25	10.75	9.25
		106					10.25	8.75	10.25	8.75
		122					10.25	8.75	10.25	8.75
		138					10.25	8.75	10.25	8.75
	155					10.75	9.25	10.75	9.25	

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Below table is applicable in the following conditions:
 -Simultaneous conditions with Licensed Bands Antenna 3a active
 -Simultaneous conditions with Inter-Band ULCA active

Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average 2 Tx Chain (dBm) CDD - 5GHz Antenna 5T	20 MHz Bandwidth	36	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		40	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		44	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		48	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		52	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		56	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		60	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		64	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		100	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	140	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	
	144	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	
	149	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	153	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	157	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	161	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	165	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25	
	40 MHz Bandwidth	38			11.50	10.00	11.50	10.00	11.50	10.00
		46			11.50	10.00	11.50	10.00	11.50	10.00
		54			10.75	9.25	10.75	9.25	10.75	9.25
		62			10.75	9.25	10.75	9.25	10.75	9.25
		102			10.25	8.75	10.25	8.75	10.25	8.75
		110			10.25	8.75	10.25	8.75	10.25	8.75
		118			10.25	8.75	10.25	8.75	10.25	8.75
		126			10.25	8.75	10.25	8.75	10.25	8.75
		134			10.25	8.75	10.25	8.75	10.25	8.75
		142			10.25	8.75	10.25	8.75	10.25	8.75
	80 MHz Bandwidth	42					11.50	10.00	11.50	10.00
		58					10.75	9.25	10.75	9.25
		106					10.25	8.75	10.25	8.75
		122					10.25	8.75	10.25	8.75
		138					10.25	8.75	10.25	8.75
	155					10.75	9.25	10.75	9.25	


Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:
 -Simultaneous conditions with Licensed Bands Antenna 3a active
 -Simultaneous conditions with Inter-Band ULCA active

Mode/ Band		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average 2 Tx Chain (dBm) SDM - 5GHz Antenna 5T	20 MHz Bandwidth	36	11.50	10.00	11.50	10.00	11.50	10.00
		40	11.50	10.00	11.50	10.00	11.50	10.00
		44	11.50	10.00	11.50	10.00	11.50	10.00
		48	11.50	10.00	11.50	10.00	11.50	10.00
		52	10.75	9.25	10.75	9.25	10.75	9.25
		56	10.75	9.25	10.75	9.25	10.75	9.25
		60	10.75	9.25	10.75	9.25	10.75	9.25
		64	10.75	9.25	10.75	9.25	10.75	9.25
		100	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75
	140	10.25	8.75	10.25	8.75	10.25	8.75	
	144	10.25	8.75	10.25	8.75	10.25	8.75	
	149	10.75	9.25	10.75	9.25	10.75	9.25	
	153	10.75	9.25	10.75	9.25	10.75	9.25	
	157	10.75	9.25	10.75	9.25	10.75	9.25	
	161	10.75	9.25	10.75	9.25	10.75	9.25	
	165	10.75	9.25	10.75	9.25	10.75	9.25	
	40 MHz Bandwidth	38	11.50	10.00	11.50	10.00	11.50	10.00
		46	11.50	10.00	11.50	10.00	11.50	10.00
		54	10.75	9.25	10.75	9.25	10.75	9.25
		62	10.75	9.25	10.75	9.25	10.75	9.25
		102	10.25	8.75	10.25	8.75	10.25	8.75
		110	10.25	8.75	10.25	8.75	10.25	8.75
		118	10.25	8.75	10.25	8.75	10.25	8.75
		126	10.25	8.75	10.25	8.75	10.25	8.75
		134	10.25	8.75	10.25	8.75	10.25	8.75
		142	10.25	8.75	10.25	8.75	10.25	8.75
	151	10.75	9.25	10.75	9.25	10.75	9.25	
	159	10.75	9.25	10.75	9.25	10.75	9.25	
	80 MHz Bandwidth	42			11.50	10.00	11.50	10.00
		58			10.75	9.25	10.75	9.25
		106			10.25	8.75	10.25	8.75
		122			10.25	8.75	10.25	8.75
		138			10.25	8.75	10.25	8.75
		155			10.75	9.25	10.75	9.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.


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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4 active

-Simultaneous conditions with Inter-Band ULCA active

Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average Single Tx Chain (dBm) - 5GHz Antenna 3b	20 MHz Bandwidth	36	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		40	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		44	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		48	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		52	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		56	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		60	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		64	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		100	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		104	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		108	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		112	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		116	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		120	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		124	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		128	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		132	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		136	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
	140	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50	
	144	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50	
	149	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75	
	153	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75	
	157	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75	
	161	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75	
	165	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75	
	40 MHz Bandwidth	38			6.75	5.25	6.75	5.25	6.75	5.25
		46			6.75	5.25	6.75	5.25	6.75	5.25
		54			7.00	5.50	7.00	5.50	7.00	5.50
		62			7.00	5.50	7.00	5.50	7.00	5.50
		102			7.00	5.50	7.00	5.50	7.00	5.50
		110			7.00	5.50	7.00	5.50	7.00	5.50
		118			7.00	5.50	7.00	5.50	7.00	5.50
		126			7.00	5.50	7.00	5.50	7.00	5.50
		134			7.00	5.50	7.00	5.50	7.00	5.50
		142			7.00	5.50	7.00	5.50	7.00	5.50
	80 MHz Bandwidth	151			7.25	5.75	7.25	5.75	7.25	5.75
		159			7.25	5.75	7.25	5.75	7.25	5.75
		42					6.75	5.25	6.75	5.25
		58					7.00	5.50	7.00	5.50
		106					7.00	5.50	7.00	5.50
		122					7.00	5.50	7.00	5.50
		138					7.00	5.50	7.00	5.50
	155					7.25	5.75	7.25	5.75	

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4 active

-Simultaneous conditions with Inter-Band ULCA active

Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average 2 Tx Chain (dBm) CDD - 5GHz Antenna 3b	20 MHz Bandwidth	36	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		40	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		44	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		48	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		52	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		56	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		60	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		64	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		100	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		104	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		108	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		112	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		116	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		120	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		124	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		128	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		132	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		136	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
	140	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50	
	144	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50	
	149	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75	
	153	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75	
	157	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75	
	161	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75	
	165	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75	
	40 MHz Bandwidth	38			6.75	5.25	6.75	5.25	6.75	5.25
		46			6.75	5.25	6.75	5.25	6.75	5.25
		54			7.00	5.50	7.00	5.50	7.00	5.50
		62			7.00	5.50	7.00	5.50	7.00	5.50
		102			7.00	5.50	7.00	5.50	7.00	5.50
		110			7.00	5.50	7.00	5.50	7.00	5.50
		118			7.00	5.50	7.00	5.50	7.00	5.50
		126			7.00	5.50	7.00	5.50	7.00	5.50
		134			7.00	5.50	7.00	5.50	7.00	5.50
		142			7.00	5.50	7.00	5.50	7.00	5.50
	80 MHz Bandwidth	151			7.25	5.75	7.25	5.75	7.25	5.75
		159			7.25	5.75	7.25	5.75	7.25	5.75
		42					6.75	5.25	6.75	5.25
		58					7.00	5.50	7.00	5.50
		106					7.00	5.50	7.00	5.50
		122					7.00	5.50	7.00	5.50
		138					7.00	5.50	7.00	5.50
	155					7.25	5.75	7.25	5.75	

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3a/3b/4 active

-Simultaneous conditions with Inter-Band ULCA active

Mode/ Band		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)			
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	
Modulated Average 2 Tx Chain (dBm) SDM - 5GHz Antenna 3b	20 MHz Bandwidth	36	6.75	5.25	6.75	5.25	6.75	5.25	
		40	6.75	5.25	6.75	5.25	6.75	5.25	
		44	6.75	5.25	6.75	5.25	6.75	5.25	
		48	6.75	5.25	6.75	5.25	6.75	5.25	
		52	7.00	5.50	7.00	5.50	7.00	5.50	
		56	7.00	5.50	7.00	5.50	7.00	5.50	
		60	7.00	5.50	7.00	5.50	7.00	5.50	
		64	7.00	5.50	7.00	5.50	7.00	5.50	
		100	7.00	5.50	7.00	5.50	7.00	5.50	
		104	7.00	5.50	7.00	5.50	7.00	5.50	
		108	7.00	5.50	7.00	5.50	7.00	5.50	
		112	7.00	5.50	7.00	5.50	7.00	5.50	
		116	7.00	5.50	7.00	5.50	7.00	5.50	
		120	7.00	5.50	7.00	5.50	7.00	5.50	
		124	7.00	5.50	7.00	5.50	7.00	5.50	
		128	7.00	5.50	7.00	5.50	7.00	5.50	
		132	7.00	5.50	7.00	5.50	7.00	5.50	
		136	7.00	5.50	7.00	5.50	7.00	5.50	
		140	7.00	5.50	7.00	5.50	7.00	5.50	
		144	7.00	5.50	7.00	5.50	7.00	5.50	
	149	7.25	5.75	7.25	5.75	7.25	5.75		
	153	7.25	5.75	7.25	5.75	7.25	5.75		
	157	7.25	5.75	7.25	5.75	7.25	5.75		
	161	7.25	5.75	7.25	5.75	7.25	5.75		
	165	7.25	5.75	7.25	5.75	7.25	5.75		
		40 MHz Bandwidth	38	6.75	5.25	6.75	5.25	6.75	5.25
	46		6.75	5.25	6.75	5.25	6.75	5.25	
	54		7.00	5.50	7.00	5.50	7.00	5.50	
	62		7.00	5.50	7.00	5.50	7.00	5.50	
	102		7.00	5.50	7.00	5.50	7.00	5.50	
	110		7.00	5.50	7.00	5.50	7.00	5.50	
	118		7.00	5.50	7.00	5.50	7.00	5.50	
	126		7.00	5.50	7.00	5.50	7.00	5.50	
	134		7.00	5.50	7.00	5.50	7.00	5.50	
	142		7.00	5.50	7.00	5.50	7.00	5.50	
	151	7.25	5.75	7.25	5.75	7.25	5.75		
	159	7.25	5.75	7.25	5.75	7.25	5.75		
		80 MHz Bandwidth	42			6.75	5.25	6.75	5.25
	58				7.00	5.50	7.00	5.50	
	106				7.00	5.50	7.00	5.50	
	122				7.00	5.50	7.00	5.50	
	138				7.00	5.50	7.00	5.50	
	155				7.25	5.75	7.25	5.75	

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.


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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2 active

-Simultaneous conditions with Inter-Band ULCA active

Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average Single Tx Chain (dBm) - 5GHz Antenna 1b	20 MHz Bandwidth	36	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
		40	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
		44	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
		48	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
		52	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		56	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		60	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		64	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		100	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		104	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		108	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		112	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		116	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		120	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		124	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
		128	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25
	132	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
	136	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
	140	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
	144	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
	149	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25	
	153	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25	
	157	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25	
	161	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25	
	165	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25	
	40 MHz Bandwidth	38			5.25	3.75	5.25	3.75	5.25	3.75
		46			5.25	3.75	5.25	3.75	5.25	3.75
		54			5.75	4.25	5.75	4.25	5.75	4.25
		62			5.75	4.25	5.75	4.25	5.75	4.25
		102			5.75	4.25	5.75	4.25	5.75	4.25
		110			5.75	4.25	5.75	4.25	5.75	4.25
		118			5.75	4.25	5.75	4.25	5.75	4.25
		126			5.75	4.25	5.75	4.25	5.75	4.25
		134			5.75	4.25	5.75	4.25	5.75	4.25
		142			5.75	4.25	5.75	4.25	5.75	4.25
	80 MHz Bandwidth	151			6.75	5.25	6.75	5.25	6.75	5.25
		159			6.75	5.25	6.75	5.25	6.75	5.25
		42					5.25	3.75	5.25	3.75
		58					5.75	4.25	5.75	4.25
		106					5.75	4.25	5.75	4.25
		122					5.75	4.25	5.75	4.25
		138					5.75	4.25	5.75	4.25
	155					6.75	5.25	6.75	5.25	

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2 active

-Simultaneous conditions with Inter-Band ULCA active

Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)			
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	
Modulated Average - 2 Tx Chain (dBm) CDD - 5GHz Antenna 1b	20 MHz Bandwidth	36	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	
		40	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	
		44	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	
		48	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	
		52	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		56	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		60	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		64	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		100	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		104	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		108	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		112	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		116	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		120	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		124	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		128	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		132	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		136	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		140	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
		144	5.75	4.25	5.75	4.25	5.75	4.25	5.75	4.25	
	149	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25		
	153	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25		
	157	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25		
	161	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25		
	165	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25		
		40 MHz Bandwidth	38			5.25	3.75	5.25	3.75	5.25	3.75
	46				5.25	3.75	5.25	3.75	5.25	3.75	
	54				5.75	4.25	5.75	4.25	5.75	4.25	
	62				5.75	4.25	5.75	4.25	5.75	4.25	
	102				5.75	4.25	5.75	4.25	5.75	4.25	
	110				5.75	4.25	5.75	4.25	5.75	4.25	
	118				5.75	4.25	5.75	4.25	5.75	4.25	
	126				5.75	4.25	5.75	4.25	5.75	4.25	
	134				5.75	4.25	5.75	4.25	5.75	4.25	
	142				5.75	4.25	5.75	4.25	5.75	4.25	
		80 MHz Bandwidth	42					5.25	3.75	5.25	3.75
	58							5.75	4.25	5.75	4.25
	106							5.75	4.25	5.75	4.25
	122							5.75	4.25	5.75	4.25
	138							5.75	4.25	5.75	4.25
			155					6.75	5.25	6.75	5.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 1a/1b/2 active

-Simultaneous conditions with Inter-Band ULCA active

Mode/ Band		IEEE 802.11n (5 GHz)			IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average 2 Tx Chain (dBm) SDM - 5GHz Antenna 1b	20 MHz Bandwidth	36	5.25	3.75	5.25	3.75	5.25	3.75
		40	5.25	3.75	5.25	3.75	5.25	3.75
		44	5.25	3.75	5.25	3.75	5.25	3.75
		48	5.25	3.75	5.25	3.75	5.25	3.75
		52	5.75	4.25	5.75	4.25	5.75	4.25
		56	5.75	4.25	5.75	4.25	5.75	4.25
		60	5.75	4.25	5.75	4.25	5.75	4.25
		64	5.75	4.25	5.75	4.25	5.75	4.25
		100	5.75	4.25	5.75	4.25	5.75	4.25
		104	5.75	4.25	5.75	4.25	5.75	4.25
		108	5.75	4.25	5.75	4.25	5.75	4.25
		112	5.75	4.25	5.75	4.25	5.75	4.25
		116	5.75	4.25	5.75	4.25	5.75	4.25
		120	5.75	4.25	5.75	4.25	5.75	4.25
		124	5.75	4.25	5.75	4.25	5.75	4.25
		128	5.75	4.25	5.75	4.25	5.75	4.25
		132	5.75	4.25	5.75	4.25	5.75	4.25
		136	5.75	4.25	5.75	4.25	5.75	4.25
	140	5.75	4.25	5.75	4.25	5.75	4.25	
	144	5.75	4.25	5.75	4.25	5.75	4.25	
	149	6.75	5.25	6.75	5.25	6.75	5.25	
	153	6.75	5.25	6.75	5.25	6.75	5.25	
	157	6.75	5.25	6.75	5.25	6.75	5.25	
	161	6.75	5.25	6.75	5.25	6.75	5.25	
	165	6.75	5.25	6.75	5.25	6.75	5.25	
	40 MHz Bandwidth	38	5.25	3.75	5.25	3.75	5.25	3.75
		46	5.25	3.75	5.25	3.75	5.25	3.75
		54	5.75	4.25	5.75	4.25	5.75	4.25
		62	5.75	4.25	5.75	4.25	5.75	4.25
		102	5.75	4.25	5.75	4.25	5.75	4.25
		110	5.75	4.25	5.75	4.25	5.75	4.25
		118	5.75	4.25	5.75	4.25	5.75	4.25
		126	5.75	4.25	5.75	4.25	5.75	4.25
134		5.75	4.25	5.75	4.25	5.75	4.25	
142		5.75	4.25	5.75	4.25	5.75	4.25	
80 MHz Bandwidth	42			5.25	3.75	5.25	3.75	
	58			5.75	4.25	5.75	4.25	
	106			5.75	4.25	5.75	4.25	
	122			5.75	4.25	5.75	4.25	
	138			5.75	4.25	5.75	4.25	
	155			6.75	5.25	6.75	5.25	


Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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1.4.4 Bluetooth Maximum and Reduced Output Power


Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 1a
Bluetooth BDR/LE	Maximum	13.00
	Nominal	11.50
Bluetooth EDR	Maximum	13.00
	Nominal	11.50
Bluetooth HDR	Maximum	11.00
	Nominal	9.50
Mode / Band		Modulated Average - TXBF (dBm) - Antenna 1a
Bluetooth BDR/LE	Maximum	13.00
	Nominal	11.50
Bluetooth EDR	Maximum	13.00
	Nominal	11.50
Bluetooth HDR	Maximum	11.00
	Nominal	9.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 3a
Bluetooth BDR/LE	Maximum	13.00
	Nominal	11.50
Bluetooth EDR	Maximum	13.00
	Nominal	11.50
Bluetooth HDR	Maximum	11.00
	Nominal	9.50
Mode / Band		Modulated Average - TXBF (dBm) - Antenna 3a
Bluetooth BDR/LE	Maximum	13.00
	Nominal	11.50
Bluetooth EDR	Maximum	13.00
	Nominal	11.50
Bluetooth HDR	Maximum	11.00
	Nominal	9.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 1a/1b active


Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 1a
Bluetooth BDR/LE Reduced	Maximum	10.00
	Nominal	8.50
Bluetooth EDR Reduced	Maximum	10.00
	Nominal	8.50
Bluetooth HDR Reduced	Maximum	10.00
	Nominal	8.50

Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 1a/1b active

Mode / Band		Modulated Average - TXBF (dBm) - Antenna 1a
Bluetooth BDR/LE Reduced	Maximum	10.00
	Nominal	8.50
Bluetooth EDR Reduced	Maximum	10.00
	Nominal	8.50
Bluetooth HDR Reduced	Maximum	10.00
	Nominal	8.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:
 -Simultaneous conditions with 5 GHz WLAN active

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 1a
Bluetooth BDR/LE Reduced	Maximum	8.00
	Nominal	6.50
Bluetooth EDR Reduced	Maximum	8.00
	Nominal	6.50
Bluetooth HDR Reduced	Maximum	8.00
	Nominal	6.50

Below table is applicable in the following conditions:
 -Simultaneous conditions with 5 GHz WLAN active

Mode / Band		Modulated Average - TXBF (dBm) - Antenna 1a
Bluetooth BDR/LE Reduced	Maximum	8.00
	Nominal	6.50
Bluetooth EDR Reduced	Maximum	8.00
	Nominal	6.50
Bluetooth HDR Reduced	Maximum	8.00
	Nominal	6.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands and 5 GHz WLAN active
- Simultaneous conditions with Inter-Band ULCA active


Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 1a
Bluetooth BDR/LE Reduced	Maximum	6.00
	Nominal	4.50
Bluetooth EDR Reduced	Maximum	6.00
	Nominal	4.50
Bluetooth HDR Reduced	Maximum	6.00
	Nominal	4.50

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands and 5 GHz WLAN active
- Simultaneous conditions with Inter-Band ULCA active

Mode / Band		Modulated Average - TXBF (dBm) - Antenna 1a
Bluetooth BDR/LE Reduced	Maximum	6.00
	Nominal	4.50
Bluetooth EDR Reduced	Maximum	6.00
	Nominal	4.50
Bluetooth HDR Reduced	Maximum	6.00
	Nominal	4.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3a/3b active


Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 3a
Bluetooth BDR/LE Reduced	Maximum	10.00
	Nominal	8.50
Bluetooth EDR Reduced	Maximum	10.00
	Nominal	8.50
Bluetooth HDR Reduced	Maximum	10.00
	Nominal	8.50

Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3a/3b active

Mode / Band		Modulated Average - TXBF (dBm) - Antenna 3a
Bluetooth BDR/LE Reduced	Maximum	10.00
	Nominal	8.50
Bluetooth EDR Reduced	Maximum	10.00
	Nominal	8.50
Bluetooth HDR Reduced	Maximum	10.00
	Nominal	8.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:
 -Simultaneous conditions with 5 GHz WLAN active

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 3a
Bluetooth BDR/LE Reduced	Maximum	7.50
	Nominal	6.00
Bluetooth EDR Reduced	Maximum	7.50
	Nominal	6.00
Bluetooth HDR Reduced	Maximum	7.50
	Nominal	6.00

Below table is applicable in the following conditions:
 -Simultaneous conditions with 5 GHz WLAN active

Mode / Band		Modulated Average - TXBF (dBm) - Antenna 3a
Bluetooth BDR/LE Reduced	Maximum	7.50
	Nominal	6.00
Bluetooth EDR Reduced	Maximum	7.50
	Nominal	6.00
Bluetooth HDR Reduced	Maximum	7.50
	Nominal	6.00

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b and 5 GHz WLAN active
- Simultaneous conditions with Licensed Bands Antenna 2 and 5 GHz WLAN active
- Simultaneous conditions with Licensed Bands Antenna 3b and 5 GHz WLAN active
- Simultaneous conditions with Licensed Bands Antenna 4 and 5 GHz WLAN active


Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 3a
Bluetooth BDR/LE Reduced	Maximum	7.00
	Nominal	5.50
Bluetooth EDR Reduced	Maximum	7.00
	Nominal	5.50
Bluetooth HDR Reduced	Maximum	7.00
	Nominal	5.50

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b and 5 GHz WLAN active
- Simultaneous conditions with Licensed Bands Antenna 2 and 5 GHz WLAN active
- Simultaneous conditions with Licensed Bands Antenna 3b and 5 GHz WLAN active
- Simultaneous conditions with Licensed Bands Antenna 4 and 5 GHz WLAN active

Mode / Band		Modulated Average - TXBF (dBm) - Antenna 3a
Bluetooth BDR/LE Reduced	Maximum	7.00
	Nominal	5.50
Bluetooth EDR Reduced	Maximum	7.00
	Nominal	5.50
Bluetooth HDR Reduced	Maximum	7.00
	Nominal	5.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a and 5 GHz WLAN active
- Simultaneous conditions with Inter-Band ULCA active


Mode / Band		Modulated Average - Single Tx Chain (dBm) - Antenna 3a
Bluetooth BDR/LE Reduced	Maximum	6.00
	Nominal	4.50
Bluetooth EDR Reduced	Maximum	6.00
	Nominal	4.50
Bluetooth HDR Reduced	Maximum	6.00
	Nominal	4.50

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a and 5 GHz WLAN active
- Simultaneous conditions with Inter-Band ULCA active

Mode / Band		Modulated Average - TXBF (dBm) - Antenna 3a
Bluetooth BDR/LE Reduced	Maximum	6.00
	Nominal	4.50
Bluetooth EDR Reduced	Maximum	6.00
	Nominal	4.50
Bluetooth HDR Reduced	Maximum	6.00
	Nominal	4.50

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.


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1.5 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 E. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

**Table 1-6
Device Edges/Sides for SAR Testing**


Mode	Back	Top	Bottom	Right	Left
LTE Band 48 Antenna 1a	Yes	No	Yes	No	Yes
NR Band n77 DoD Antenna 1a	Yes	No	Yes	No	Yes
NR Band n77 C Antenna 1a	Yes	No	Yes	No	Yes
UMTS 1750 Antenna 1b	Yes	No	Yes	No	No
UTMS 1900 Antenna 1b	Yes	No	Yes	No	No
LTE Band 66 (AWS) Antenna 1b	Yes	No	Yes	No	No
LTE Band 25 (PCS) Antenna 1b	Yes	No	Yes	No	No
LTE Band 30 Antenna 1b	Yes	No	Yes	No	No
LTE Band 7 Antenna 1b	Yes	No	Yes	No	No
LTE Band 41 Antenna 1b	Yes	No	Yes	No	No
NR Band n66 (AWS) Antenna 1b	Yes	No	Yes	No	No
NR Band n25 (PCS) Antenna 1b	Yes	No	Yes	No	No
NR Band n30 Antenna 1b	Yes	No	Yes	No	No
NR Band n7 Antenna 1b	Yes	No	Yes	No	No
NR Band n41 Antenna 1b	Yes	No	Yes	No	No
UMTS 850 Antenna 2	Yes	No	Yes	Yes	No
UTMS 1750 Antenna 2	Yes	No	Yes	Yes	No
UMTS 1900 Antenna 2	Yes	No	Yes	Yes	No
LTE Band 71 Antenna 2	Yes	No	Yes	Yes	No
LTE Band 12 Antenna 2	Yes	No	Yes	Yes	No
LTE Band 13 Antenna 2	Yes	No	Yes	Yes	No
LTE Band 14 Antenna 2	Yes	No	Yes	Yes	No
LTE Band 26 (Cell) Antenna 2	Yes	No	Yes	Yes	No
LTE Band 5 (Cell) Antenna 2	Yes	No	Yes	Yes	No
LTE Band 66 (AWS) Antenna 2	Yes	No	Yes	Yes	No
LTE Band 25 (PCS) Antenna 2	Yes	No	Yes	Yes	No
LTE Band 30 Antenna 2	Yes	No	Yes	Yes	No
LTE Band 7 Antenna 2	Yes	No	Yes	Yes	No
LTE Band 41 Antenna 2	Yes	No	Yes	Yes	No
LTE Band 48 Antenna 2	Yes	No	Yes	Yes	No
NR Band n71 Antenna 2	Yes	No	Yes	Yes	No
NR Band n12 Antenna 2	Yes	No	Yes	Yes	No
NR Band n5 (Cell) Antenna 2	Yes	No	Yes	Yes	No
NR Band n66 (AWS) Antenna 2	Yes	No	Yes	Yes	No
NR Band n25 (PCS) Antenna 2	Yes	No	Yes	Yes	No
NR Band n30 Antenna 2	Yes	No	Yes	Yes	No
NR Band n7 Antenna 2	Yes	No	Yes	Yes	No
NR Band n41 Antenna 2	Yes	No	Yes	Yes	No
NR Band n77 DoD Antenna 2	Yes	No	Yes	Yes	No
NR Band n77 C Antenna 2	Yes	No	Yes	Yes	No

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**Table 1-7
Device Edges/Sides for SAR Testing Cont'd**

Mode	Back	Top	Bottom	Right	Left
LTE Band 48 Antenna 3a	Yes	Yes	No	Yes	No
NR Band n77 DoD Antenna 3a	Yes	Yes	No	Yes	No
NR Band n77 C Antenna 3a	Yes	Yes	No	Yes	No
UMTS 1750 Antenna 3b	Yes	Yes	No	No	No
UTMS 1900 Antenna 3b	Yes	Yes	No	No	No
LTE Band 66 (AWS) Antenna 3b	Yes	Yes	No	No	No
LTE Band 25 (PCS) Antenna 3b	Yes	Yes	No	No	No
LTE Band 30 Antenna 3b	Yes	Yes	No	No	No
LTE Band 7 Antenna 3b	Yes	Yes	No	No	No
LTE Band 41 Antenna 3b	Yes	Yes	No	No	No
NR Band n66 (AWS) Antenna 3b	Yes	Yes	No	No	No
NR Band n25 (PCS) Antenna 3b	Yes	Yes	No	No	No
NR Band n30 Antenna 3b	Yes	Yes	No	No	No
NR Band n7 Antenna 3b	Yes	Yes	No	No	No
NR Band n41 Antenna 3b	Yes	Yes	No	No	No
UMTS 850 Antenna 4	Yes	Yes	No	No	Yes
UTMS 1750 Antenna 4	Yes	Yes	No	No	Yes
UTMS 1900 Antenna 4	Yes	Yes	No	No	Yes
LTE Band 71 Antenna 4	Yes	Yes	No	No	Yes
LTE Band 12 Antenna 4	Yes	Yes	No	No	Yes
LTE Band 13 Antenna 4	Yes	Yes	No	No	Yes
LTE Band 14 Antenna 4	Yes	Yes	No	No	Yes
LTE Band 26 (Cell) Antenna 4	Yes	Yes	No	No	Yes
LTE Band 5 (Cell) Antenna 4	Yes	Yes	No	No	Yes
LTE Band 66 (AWS) Antenna 4	Yes	Yes	No	No	Yes
LTE Band 25 (PCS) Antenna 4	Yes	Yes	No	No	Yes
LTE Band 30 Antenna 4	Yes	Yes	No	No	Yes
LTE Band 7 Antenna 4	Yes	Yes	No	No	Yes
LTE Band 41 Antenna 4	Yes	Yes	No	No	Yes
LTE Band 48 Antenna 4	Yes	Yes	No	No	Yes
NR Band n71 Antenna 4	Yes	Yes	No	No	Yes
NR Band n12 Antenna 4	Yes	Yes	No	No	Yes
NR Band n5 (Cell) Antenna 4	Yes	Yes	No	No	Yes
NR Band n66 (AWS) Antenna 4	Yes	Yes	No	No	Yes
NR Band n25 (PCS) Antenna 4	Yes	Yes	No	No	Yes
NR Band n30 Antenna 4	Yes	Yes	No	No	Yes
NR Band n7 Antenna 4	Yes	Yes	No	No	Yes
NR Band n41 Antenna 4	Yes	Yes	No	No	Yes
NR Band n77 DoD Antenna 4	Yes	Yes	No	No	Yes
NR Band n77 C Antenna 4	Yes	Yes	No	No	Yes
2.4 GHz WLAN Antenna 1a	Yes	No	Yes	No	Yes
2.4 GHz WLAN Antenna 3a	Yes	Yes	No	Yes	No
5 GHz WLAN Antenna 1b	Yes	No	Yes	No	No
5 GHz WLAN Antenna 3b	Yes	Yes	No	No	No
5 GHz WLAN Antenna 5T	Yes	Yes	No	Yes	No
Bluetooth Antenna 1a	Yes	No	Yes	No	Yes
Bluetooth Antenna 3a	Yes	Yes	No	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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1.6 Simultaneous Transmission Capabilities

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

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


**Table 1-8
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 (TxBF)	Yes
7	Cellular Band + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
8	Cellular Band + 2.4 GHz Bluetooth (TxBF) + 5 GHz WI-FI	Yes
9	Cellular Band + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes
10	Cellular Band + 2.4 GHz Bluetooth (TxBF) + 5 GHz WI-FI MIMO	Yes
11	2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
12	2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz WI-FI	Yes
13	2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes
14	2.4 GHz Bluetooth (TxBF) + 5 GHz WI-FI MIMO	Yes

**Table 1-9
Simultaneous Transmission Scenarios of Inter-Band ULCA**

No.	Capable Transmit Configuration	Body	Notes
1	Cellular Antenna 2 LB + Cellular Antenna 1b MB/HB	Yes	LTE Bands transmitting from Antenna 2 LB: LTE B12/13/5 LTE Bands transmitting from Antenna 1b MB/HB: LTE B4/66/2/7
2	Cellular Antenna 2 LB + Cellular Antenna 3b MB/HB	Yes	LTE Bands transmitting from Antenna 2 LB: LTE B12/13/5 LTE Bands transmitting from Antenna 3b MB/HB: LTE B4/66/2/7
3	Cellular Antenna 2 LB + Cellular Antenna 4 MB/HB	Yes	LTE Bands transmitting from Antenna 2 LB: LTE B12/13/5 LTE Bands transmitting from Antenna 4 MB/HB: LTE B4/66/2/7
4	Cellular Antenna 4 LB + Cellular Antenna 1b MB/HB	Yes	LTE Bands transmitting from Antenna 4 LB: LTE B12/13/5 LTE Bands transmitting from Antenna 1b MB/HB: LTE B4/66/2/7
5	Cellular Antenna 4 LB + Cellular Antenna 2 MB/HB	Yes	LTE Bands transmitting from Antenna 4 LB: LTE B12/13/5 LTE Bands transmitting from Antenna 2 MB/HB: LTE B4/66/2/7
6	Cellular Antenna 4 LB + Cellular Antenna 3b MB/HB	Yes	LTE Bands transmitting from Antenna 4 LB: LTE B12/13/5 LTE Bands transmitting from Antenna 3b MB/HB: LTE B4/66/2/7

Note: The technical description includes all the possible Inter-band ULCA combinations.

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**Table 1-10
Simultaneous Transmission Scenarios with Inter-Band ULCA Active**

No.	Capable Transmit Configuration	Body
1	LTE Inter-Band ULCA + 2.4 GHz WI-FI	Yes
2	LTE Inter-Band ULCA + 5 GHz WI-FI	Yes
3	LTE Inter-Band ULCA + 2.4 GHz Bluetooth	Yes
4	LTE Inter-Band ULCA + 2.4 GHz WI-FI MIMO	Yes
5	LTE Inter-Band ULCA + 5 GHz WI-FI MIMO	Yes
6	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TxBF)	Yes
7	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes
8	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TxBF) + 5 GHz WI-FI	Yes
9	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes
10	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TxBF) + 5 GHz WI-FI MIMO	Yes

Note: LTE inter-band ULCA can operate in any of the combinations in Table 1-9

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 and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
3. For licensed bands, Ant 1a and Ant 1b cannot transmit simultaneously, and Ant 3a and Ant 3b cannot transmit simultaneously.
4. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
5. EN-DC operation is supported with LTE + 5G NR FR1 scenarios. The LTE anchor bands are shown in the NR FR1 checklist.
6. This device supports VoWiFi.


1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-1 was evaluated for Antenna 5T and U-NII-2A was evaluated for Antenna 1b and Antenna 3b. Additional testing for U-NII-2A Antenna 5T and for U-NII-1 Antenna 1b and Antenna 3b SAR was not required since all reported SAR was less than 1.2 W/kg per FCC KDB Publication 248227 D01v02r02.

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.

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This device supports IEEE 802.11ac with the following features:

- a) Up to 80 MHz Bandwidth only
- b) No aggregate channel configurations
- c) 1 2 Tx antenna output
- d) 256 QAM is supported
- e) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:

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

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

(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.


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

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

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

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

This device supports LTE/NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE/NR Band falls completely within an LTE/NR band with a larger transmission frequency range, both LTE/NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE/NR bands share the same

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transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41 and NR Band n41/77. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 13).

This device supports LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 48, LTE Band 5, LTE Band 66, and LTE Band 7 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports inter-band LTE Carrier Aggregation (CA) for LTE Bands 2/4/5/7/12/13/14/66 with two component carriers in the uplink

1.8 Guidance Applied


- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02 (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)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- October 2018 TCB Workshop Notes (Inter-band Uplink Carrier Aggregation)

1.9 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 10.


1.10 Bibliography

Report Type	Report Serial Number
SAR Part 0 Test Report	1C2106080049-27.BCG
RF Exposure Part 2 Test Report	1C2106080049-29.BCG
RF Exposure Compliance Summary Report	1C2106080049-31.BCG


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2 LTE INFORMATION

LTE Information						
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 26 (Cell) (814.7 - 848.3 MHz)					
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)					
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)					
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)					
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)					
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)					
	LTE Band 30 (2307.5 - 2312.5 MHz)					
	LTE Band 7 (2502.5 - 2567.5 MHz)					
	LTE Band 41 (2502.5 - 2687.5 MHz)					
	LTE Band 48 (3552.5 - 3697.5 MHz)					
	Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
		LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
		LTE Band 17: 5 MHz, 10 MHz				
		LTE Band 13: 5 MHz, 10 MHz				
		LTE Band 14: 5 MHz, 10 MHz				
LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz						
LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz						
LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz						
LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz						
LTE Band 2 (PCS): 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 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						
LTE Band 48: 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				
LTE Band 71: 10 MHz						
LTE Band 71: 15 MHz						
LTE Band 71: 20 MHz						
LTE Band 12: 1.4 MHz						
LTE Band 12: 3 MHz						
LTE Band 12: 5 MHz						
LTE Band 12: 10 MHz						
LTE Band 17: 5 MHz						
LTE Band 17: 10 MHz						
LTE Band 13: 5 MHz						
LTE Band 13: 10 MHz						
LTE Band 14: 5 MHz						
LTE Band 14: 10 MHz						
LTE Band 26 (Cell): 1.4 MHz						
LTE Band 26 (Cell): 3 MHz						
LTE Band 26 (Cell): 5 MHz						
LTE Band 26 (Cell): 10 MHz						
LTE Band 5 (Cell): 1.4 MHz						
LTE Band 5 (Cell): 3 MHz						
LTE Band 5 (Cell): 5 MHz						
LTE Band 5 (Cell): 10 MHz						
LTE Band 4 (AWS): 1.4 MHz						
LTE Band 4 (AWS): 3 MHz						
LTE Band 4 (AWS): 5 MHz						
LTE Band 4 (AWS): 10 MHz						
LTE Band 4 (AWS): 15 MHz						
LTE Band 4 (AWS): 20 MHz						
LTE Band 66 (AWS): 1.4 MHz						
LTE Band 66 (AWS): 3 MHz						
LTE Band 66 (AWS): 5 MHz						
LTE Band 66 (AWS): 10 MHz						
LTE Band 66 (AWS): 15 MHz						
LTE Band 66 (AWS): 20 MHz						
LTE Band 2 (PCS): 1.4 MHz						
LTE Band 2 (PCS): 3 MHz						
LTE Band 2 (PCS): 5 MHz						
LTE Band 2 (PCS): 10 MHz						
LTE Band 2 (PCS): 15 MHz						
LTE Band 2 (PCS): 20 MHz						
LTE Band 25 (PCS): 1.4 MHz						
LTE Band 25 (PCS): 3 MHz						
LTE Band 25 (PCS): 5 MHz						
LTE Band 25 (PCS): 10 MHz						
LTE Band 25 (PCS): 15 MHz						
LTE Band 25 (PCS): 20 MHz						
LTE Band 30: 5 MHz						
LTE Band 30: 10 MHz						
LTE Band 7: 5 MHz						
LTE Band 7: 10 MHz						
LTE Band 7: 15 MHz						
LTE Band 7: 20 MHz						
LTE Band 41: 5 MHz						
LTE Band 41: 10 MHz						
LTE Band 41: 15 MHz						
LTE Band 41: 20 MHz						
LTE Band 48: 5 MHz						
LTE Band 48: 10 MHz						
LTE Band 48: 15 MHz						
LTE Band 48: 20 MHz						
UE Category	DL UE Cat 20 (QPSK, 16QAM, 64QAM, 256QAM) UL UE Cat 18 (QPSK, 16QAM, 64QAM, 256QAM)					
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM					
LTE MPR (Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES					
A-MPR (Additional MPR) disabled for SAR Testing?	YES					
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations					
LTE Additional Information	This device does not support full CA features on 3GPP Release 15. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 15 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, WiFi Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.					

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NR Information				
Form Factor Frequency Range of each NR transmission band	Table Device			
	NR Band n71 (665.5 - 695.5 MHz)			
	NR Band n12 (701.5 - 713.5 MHz)			
	NR Band n25 (PCS) (1852.5 - 1912.5 MHz)			
	NR Band n66 (AWS) (1712.5 - 1777.5 MHz)			
	NR Band n2 (PCS) (1852.5 - 1907.5 MHz)			
	NR Band n25 (PCS) (1852.5 - 1912.5 MHz)			
	NR Band n30 (2307.5 - 2312.5 MHz)			
	NR Band n7 (2502.5 - 2567.5 MHz)			
	NR Band n4 (2502.0 - 2678.99 MHz)			
	NR Band n79 (2460.02 - 2639.99 MHz)			
	NR Band n77 DxD (2640.02 - 2646 MHz)			
	NR Band n77 C (2710.01 - 2659.99 MHz)			
	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n12: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz			
	NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz			
NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
NR Band n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz				
NR Band n4: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 60 MHz, 80 MHz, 100 MHz				
NR Band n77 DxD: 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 100 MHz				
NR Band n77 C: 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 100 MHz				
Channel Bandwidths	Low	Low-Mid	Mid	Mid-High
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High
NR Band n71: 5 MHz	665.5 (133147)	680.5 (136100)	695.5 (139447)	695.5 (139447)
NR Band n71: 10 MHz	668 (133600)	683 (136500)	698 (139800)	698 (139800)
NR Band n71: 15 MHz	670.5 (134100)	685.5 (137000)	700.5 (139800)	700.5 (139800)
NR Band n71: 20 MHz	673 (134600)	688 (137100)	703 (140200)	703 (140200)
NR Band n12: 5 MHz	701.5 (140300)	707 (141500)	713.5 (142700)	713.5 (142700)
NR Band n12: 10 MHz	704 (140800)	709.5 (141500)	716 (142200)	716 (142200)
NR Band n12: 15 MHz	706.5 (141300)	712 (141500)	718.5 (142700)	718.5 (142700)
NR Band n5 (Call): 5 MHz	826 (165200)	836 (167200)	846 (168200)	846 (168200)
NR Band n5 (Call): 10 MHz	829 (165500)	839 (167500)	849 (168500)	849 (168500)
NR Band n5 (Call): 15 MHz	831 (166000)	841 (167500)	851 (168500)	851 (168500)
NR Band n5 (Call): 20 MHz	834 (166500)	844 (167500)	854 (168500)	854 (168500)
NR Band n66 (AWS): 5 MHz	1712.5 (342500)	1745 (349000)	1777.5 (355500)	1777.5 (355500)
NR Band n66 (AWS): 10 MHz	1715 (343000)	1748 (349000)	1780 (355500)	1780 (355500)
NR Band n66 (AWS): 15 MHz	1717.5 (343500)	1750 (349000)	1782.5 (355500)	1782.5 (355500)
NR Band n66 (AWS): 20 MHz	1720 (344000)	1752 (349000)	1785 (355500)	1785 (355500)
NR Band n66 (AWS): 30 MHz	1725 (345000)	1757 (349000)	1790 (355500)	1790 (355500)
NR Band n66 (AWS): 40 MHz	1730 (346000)	1762 (349000)	1795 (355500)	1795 (355500)
NR Band n25 (PCS): 5 MHz	1852.5 (370500)	1862.5 (376500)	1892 (381000)	1892 (381000)
NR Band n25 (PCS): 10 MHz	1855 (371000)	1862.5 (376500)	1895 (381000)	1895 (381000)
NR Band n25 (PCS): 15 MHz	1857.5 (371500)	1865 (376500)	1897.5 (381000)	1897.5 (381000)
NR Band n25 (PCS): 20 MHz	1860 (372000)	1867.5 (376500)	1900 (381000)	1900 (381000)
NR Band n25 (PCS): 30 MHz	1862.5 (372500)	1867.5 (376500)	1902.5 (381000)	1902.5 (381000)
NR Band n25 (PCS): 40 MHz	1865 (373000)	1867.5 (376500)	1905 (381000)	1905 (381000)
NR Band n2 (PCS): 5 MHz	1892 (376500)	1892.5 (376500)	1902 (381000)	1902 (381000)
NR Band n2 (PCS): 10 MHz	1895 (377000)	1895 (376500)	1905 (381000)	1905 (381000)
NR Band n2 (PCS): 15 MHz	1897.5 (377500)	1895 (376500)	1907.5 (381000)	1907.5 (381000)
NR Band n2 (PCS): 20 MHz	1900 (378000)	1895 (376500)	1910 (381000)	1910 (381000)
NR Band n30: 10 MHz	2307.5 (461500)	2310 (462000)	2312.5 (462000)	2312.5 (462000)
NR Band n7: 5 MHz	2502.5 (500500)	2535 (507000)	2567.5 (513500)	2567.5 (513500)
NR Band n7: 10 MHz	2505 (501000)	2535 (507000)	2565 (513000)	2565 (513000)
NR Band n7: 15 MHz	2507.5 (501500)	2535 (507000)	2562.5 (512500)	2562.5 (512500)
NR Band n7: 20 MHz	2510 (502000)	2535 (507000)	2560 (512000)	2560 (512000)
NR Band n7: 25 MHz	2512.5 (502500)	2535 (507000)	2557.5 (511500)	2557.5 (511500)
NR Band n7: 30 MHz	2515 (503000)	2535 (507000)	2555 (511000)	2555 (511000)
NR Band n7: 40 MHz	2520 (504000)	2535 (507000)	2550 (510000)	2550 (510000)
NR Band n41: 20 MHz	2528.02 (505604)	2549.49 (508898)	2592.99 (518938)	2638.49 (527298)
NR Band n41: 30 MHz	2511 (502200)	2523.01 (510400)	2592.99 (518938)	2634 (526800)
NR Band n41: 40 MHz	2516.01 (503201)	2567.34 (513468)	N/A	2618.67 (523734)
NR Band n41: 50 MHz	2521 (504204)	2541 (508500)	2592.99 (518938)	2644.99 (529998)
NR Band n41: 60 MHz	2526 (505200)	2546 (509500)	2592.99 (518938)	2650.99 (530998)
NR Band n41: 80 MHz	2536.02 (507204)	N/A	N/A	2649.99 (529998)
NR Band n41: 100 MHz	2541 (508500)	N/A	N/A	2644.99 (529998)
NR Band n77 DxD: 20 MHz	3450.02 (690006)	3465 (691000)	3500.01 (693334)	3540 (696000)
NR Band n77 DxD: 30 MHz	3465 (691000)	3465 (691000)	3500.01 (693334)	3534.99 (695998)
NR Band n77 DxD: 40 MHz	3470.01 (691334)	N/A	N/A	3529.99 (695332)
NR Band n77 DxD: 50 MHz	3475.02 (691668)	N/A	N/A	3525 (695000)
NR Band n77 DxD: 60 MHz	N/A	N/A	3500.01 (693334)	N/A
NR Band n77 DxD: 70 MHz	N/A	N/A	3500.01 (693334)	N/A
NR Band n77 DxD: 80 MHz	N/A	N/A	3500.01 (693334)	N/A
NR Band n77 DxD: 90 MHz	N/A	N/A	3500.01 (693334)	N/A
NR Band n77 DxD: 100 MHz	N/A	N/A	3500.01 (693334)	N/A
NR Band n77 C: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654268)	3868.01 (657734)
NR Band n77 C: 30 MHz	3715.02 (647668)	3765 (651000)	3815.01 (654334)	3864.99 (657668)
NR Band n77 C: 40 MHz	3720 (648000)	3769 (651200)	3818 (654500)	3864 (657800)
NR Band n77 C: 50 MHz	3725.01 (648334)	3762.49 (651168)	3820 (655000)	3872.51 (658334)
NR Band n77 C: 60 MHz	3730.02 (648668)	3803.34 (653558)	N/A	3876.68 (658444)
NR Band n77 C: 70 MHz	3735 (649000)	3804.99 (653666)	N/A	3875.01 (658334)
NR Band n77 C: 80 MHz	3740.01 (649334)	N/A	3820 (655000)	N/A
NR Band n77 C: 90 MHz	3745.02 (649668)	N/A	3840 (656000)	N/A
NR Band n77 C: 100 MHz	3750 (650000)	N/A	N/A	3830 (655000)
SCS for NR Band n71/n12/n66/n25/n2/n30/n7			15 MHz	
SCS for NR Band n41/n77 DxD/n77 C			30 kHz	
Modulations Supported in UL	DFT-s-OFDM: m2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM			
M-PRB (Additional MPRB) disabled for SAR Testing?	YES			
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations			
LTE Anchor Bands for NR Band n71	LTE Band 66/27			
LTE Anchor Bands for NR Band n12	LTE Band 66/2			
LTE Anchor Bands for NR Band n5 (Call)	LTE Band 66/2/30/7/48			
LTE Anchor Bands for NR Band n66 (AWS)	LTE Band 71/12/13/14/5/2/30/7/48			
LTE Anchor Bands for NR Band n2 (PCS)	LTE Band 12/66/48			
LTE Anchor Bands for NR Band n25 (PCS)	LTE Band 12/66/48			
LTE Anchor Bands for NR Band n30	LTE Band 12/14/5/6/6			
LTE Anchor Bands for NR Band n7	LTE Band 12/5/6/6			
LTE Anchor Bands for NR Band n38	LTE Band 71/12/5/4/6/2			
LTE Anchor Bands for NR Band n41	LTE Band 4/6/2/2/5			
LTE Anchor Bands for NR Band n77 DxD	LTE Band 7/41			
LTE Anchor Bands for NR Band n77 C	LTE Band 7/41			

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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.

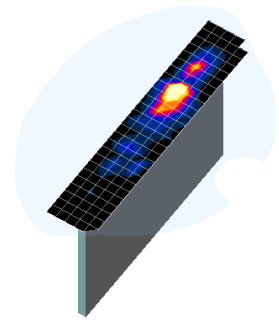



Figure 4-1
Sample SAR Area Scan

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		
			$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	$\Delta z_{\text{zoom}}(n>1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

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5 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.

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.

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. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

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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. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.


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

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. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.


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). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.


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. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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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

All conducted power measurements for 3G/4G/5G Sub6 WWAN technologies and bands in this section were performed by setting Reserve_power_margin (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (Plimit, maximum tune up output power Pmax).

8.1 UMTS Plimit Conducted Powers

**Table 8-1
Measured P_{limit} Antenna 2**

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	17.37	17.36	17.32	12.47	12.41	12.36	13.22	13.30	13.19	-
6	HSDPA	Subtest 1	17.14	17.13	17.11	12.38	12.37	12.24	13.01	12.95	12.88	0
6		Subtest 2	17.13	17.11	17.07	12.35	12.33	12.25	12.98	12.93	12.86	0
6		Subtest 3	16.66	16.64	16.62	11.86	11.87	11.78	12.45	12.43	12.38	0.5
6		Subtest 4	16.62	16.62	16.59	11.87	11.84	11.72	12.46	12.41	12.35	0.5
6	HSUPA	Subtest 1	17.12	17.14	17.13	12.13	12.14	12.28	12.97	12.95	12.86	0
6		Subtest 2	15.15	15.11	15.12	10.15	10.16	10.29	10.95	10.93	10.86	2
6		Subtest 3	16.17	16.15	16.16	11.14	11.15	11.29	11.99	11.93	11.84	1
6		Subtest 4	15.18	15.14	15.13	10.18	10.16	10.10	10.97	10.96	10.87	2
6		Subtest 5	17.13	17.15	17.14	12.15	12.17	12.11	13.00	12.95	12.88	0
8	DC-HSDPA	Subtest 1	17.16	17.14	17.09	12.37	12.38	12.25	13.22	13.19	13.15	0
8		Subtest 2	17.13	17.12	17.07	12.36	12.33	12.22	13.17	13.16	13.09	0
8		Subtest 3	16.67	16.65	16.61	11.83	11.85	11.75	12.68	12.66	12.65	0.5
8		Subtest 4	16.64	16.67	16.61	11.85	11.86	11.73	12.67	12.63	12.66	0.5

**Table 8-2
Measured P_{limit} Antenna 4**

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	17.87	17.89	17.85	13.26	13.15	12.90	12.32	12.17	12.24	-
6	HSDPA	Subtest 1	17.69	17.71	17.67	13.12	13.10	12.94	12.15	12.08	12.13	0
6		Subtest 2	17.70	17.72	17.68	13.11	13.09	12.97	12.17	12.04	12.05	0
6		Subtest 3	17.23	17.20	17.18	12.59	12.64	12.48	11.68	11.56	11.54	0.5
6		Subtest 4	17.19	17.21	17.18	12.59	12.63	12.46	11.66	11.57	11.57	0.5
6	HSUPA	Subtest 1	17.74	17.72	17.67	13.13	13.10	12.95	12.12	12.02	12.05	0
6		Subtest 2	15.71	15.73	15.65	11.13	11.12	10.97	10.15	10.06	10.05	2
6		Subtest 3	16.72	16.70	16.63	12.12	12.09	11.99	11.16	11.02	11.07	1
6		Subtest 4	15.74	15.73	15.68	11.14	11.15	10.98	10.17	10.05	10.03	2
6		Subtest 5	17.71	17.72	17.70	13.14	13.12	13.16	12.16	12.04	12.06	0
8	DC-HSDPA	Subtest 1	17.45	17.40	17.39	13.29	13.29	13.14	12.39	12.29	12.39	0
8		Subtest 2	17.45	17.43	17.40	13.29	13.28	13.09	12.37	12.28	12.30	0
8		Subtest 3	16.91	16.89	16.87	12.78	12.79	12.62	11.87	11.78	11.84	0.5
8		Subtest 4	16.93	16.92	16.88	12.90	12.79	12.63	11.87	11.77	11.86	0.5


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Table 8-3
Measured P_{limit} Antenna 1b

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	11.33	11.34	11.31	10.75	10.80	10.63	-
6	HSDPA	Subtest 1	11.04	11.01	10.87	10.36	10.41	10.37	0
6		Subtest 2	11.03	10.99	10.89	10.47	10.48	10.38	0
6		Subtest 3	10.56	10.50	10.41	9.97	9.96	9.89	0.5
6		Subtest 4	10.62	10.54	10.41	9.94	9.98	9.87	0.5
6	HSUPA	Subtest 1	10.98	10.96	10.87	10.56	10.45	10.40	0
6		Subtest 2	9.03	9.01	8.92	8.54	8.46	8.38	2
6		Subtest 3	10.01	10.02	9.89	9.52	9.41	9.35	1
6		Subtest 4	9.02	9.01	8.91	8.48	8.45	8.32	2
6		Subtest 5	11.01	11.01	10.92	10.48	10.41	10.32	0
8	DC-HSDPA	Subtest 1	11.09	11.05	10.98	10.45	10.44	10.38	0
8		Subtest 2	11.10	11.06	10.93	10.45	10.38	10.30	0
8		Subtest 3	10.54	10.54	10.41	9.99	9.91	9.84	0.5
8		Subtest 4	10.57	10.55	10.44	9.96	9.89	9.85	0.5

Table 8-4
Measured P_{limit} Antenna 3b


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	11.73	11.70	11.72	11.32	11.26	11.30	-
6	HSDPA	Subtest 1	11.59	11.61	11.47	11.21	11.19	11.15	0
6		Subtest 2	11.59	11.58	11.48	11.20	11.14	11.11	0
6		Subtest 3	11.11	11.07	10.96	10.68	10.63	10.59	0.5
6		Subtest 4	11.10	11.07	10.98	10.70	10.64	10.58	0.5
6	HSUPA	Subtest 1	11.56	11.57	11.46	11.13	11.07	11.01	0
6		Subtest 2	9.56	9.58	9.46	9.15	9.08	9.02	2
6		Subtest 3	10.59	10.56	10.48	10.13	10.06	10.01	1
6		Subtest 4	9.60	9.61	9.46	9.14	9.11	9.03	2
6		Subtest 5	11.58	11.56	11.47	11.12	11.09	11.05	0
8	DC-HSDPA	Subtest 1	11.58	11.57	11.49	11.17	11.20	11.12	0
8		Subtest 2	11.63	11.58	11.50	11.21	11.15	11.09	0
8		Subtest 3	11.11	11.10	11.02	10.72	10.66	10.58	0.5
8		Subtest 4	11.12	11.10	11.00	10.70	10.64	10.59	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 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

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

8.2.1 LTE Band 71

Table 8-5
LTE Band 71 Measured P_{limit} Antenna 2 - 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	17.45	0	0
	1	50	17.37		0
	1	99	17.26		0
	50	0	17.47	0-1	0
	50	25	17.45		0
	50	50	17.34		0
	100	0	17.44		0
16QAM	1	0	17.32	0-1	0
	1	50	17.28		0
	1	99	17.11		0
	50	0	17.57	0-2	0
	50	25	17.60		0
	50	50	17.51		0
	100	0	17.55		0
64QAM	1	0	17.52	0-2	0
	1	50	17.53		0
	1	99	17.37		0
	50	0	17.09	0-3	0
	50	25	17.13		0
	50	50	17.05		0
	100	0	17.07		0
256QAM	1	0	17.18	0-5	0
	1	50	17.17		0
	1	99	17.16		0
	50	0	17.11		0
	50	25	17.13		0
	50	50	17.12		0
	100	0	17.12		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 8-6
LTE Band 71 Measured P_{limit} Antenna 4 - 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	19.33	0	0
	1	50	19.28		0
	1	99	19.13		0
	50	0	19.32	0-1	0
	50	25	19.35		0
	50	50	19.22		0
	100	0	19.30		0
16QAM	1	0	19.45	0-1	0
	1	50	19.40		0
	1	99	19.37		0
	50	0	19.16	0-2	0
	50	25	19.15		0
	50	50	19.06		0
	100	0	19.15		0
64QAM	1	0	18.90	0-2	0
	1	50	18.87		0
	1	99	18.70		0
	50	0	19.20	0-3	0
	50	25	19.23		0
	50	50	19.13		0
	100	0	19.18		0
256QAM	1	0	19.13	0-5	0
	1	50	19.16		0
	1	99	19.13		0
	50	0	19.20		0
	50	25	19.24		0
	50	50	19.11		0
	100	0	19.19		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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LTE Band 12

Table 8-7
 LTE Band 12 Measured P_{limit} Antenna 2 - 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	17.22	0	0
	1	25	17.18		0
	1	49	17.27		0
	25	0	17.33	0-1	0
	25	12	17.31		0
	25	25	17.38		0
	50	0	17.26		0
16QAM	1	0	17.36	0-1	0
	1	25	17.20		0
	1	49	17.33		0
	25	0	17.24	0-2	0
	25	12	17.27		0
	25	25	17.25		0
	50	0	17.17		0
64QAM	1	0	17.18	0-2	0
	1	25	17.26		0
	1	49	17.25		0
	25	0	17.22	0-3	0
	25	12	17.28		0
	25	25	17.20		0
	50	0	17.19		0
256QAM	1	0	17.25	0-5	0
	1	25	17.20		0
	1	49	17.26		0
	25	0	17.10		0
	25	12	17.11		0
	25	25	17.05		0
	50	0	17.26		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.



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Table 8-8
LTE Band 12 Measured P_{limit} Antenna 4 - 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	17.51	0	0
	1	25	17.46		0
	1	49	17.48		0
	25	0	17.68	0-1	0
	25	12	17.72		0
	25	25	17.64		0
16QAM	50	0	17.50	0-1	0
	1	0	17.79		0
	1	25	17.71		0
	1	49	17.68	0-2	0
	25	0	17.60		0
	25	12	17.65		0
64QAM	25	25	17.58	0-2	0
	50	0	17.51		0
	1	0	17.68		0-2
	1	25	17.66	0	
	1	49	17.72	0	
	256QAM	25	0	17.62	0-3
25		12	17.65	0	
25		25	17.61	0	
50		0	17.56	0-5	0
1		0	17.13		0
1		25	17.10		0
256QAM	1	49	17.02	0-5	0
	25	0	17.39		0
	25	12	17.46		0
	25	25	17.36	0	
	50	0	17.38	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.

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LTE Band 13

Table 8-9
LTE Band 13 Measured P_{limit} Antenna 2 - 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	16.98	0	0
	1	25	16.80		0
	1	49	16.70		0
	25	0	17.08	0-1	0
	25	12	17.15		0
	25	25	17.11		0
	50	0	16.97		0
16QAM	1	0	17.11	0-1	0
	1	25	16.96		0
	1	49	16.90		0
	25	0	16.89	0-2	0
	25	12	16.97		0
	25	25	16.89		0
	50	0	16.84		0
64QAM	1	0	16.79	0-2	0
	1	25	16.91		0
	1	49	16.83		0
	25	0	16.92	0-3	0
	25	12	16.95		0
	25	25	16.89		0
	50	0	16.88		0
256QAM	1	0	16.41	0-5	0
	1	25	16.42		0
	1	49	16.49		0
	25	0	16.84		0
	25	12	16.91		0
	25	25	16.81		0
	50	0	16.87		0

Table 8-10
LTE Band 13 Measured P_{limit} Antenna 4 - 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	17.99	0	0
	1	25	17.80		0
	1	49	17.76		0
	25	0	18.10	0-1	0
	25	12	18.03		0
	25	25	18.00		0
	50	0	17.98		0
16QAM	1	0	18.03	0-1	0
	1	25	17.91		0
	1	49	17.88		0
	25	0	18.07	0-2	0
	25	12	18.20		0
	25	25	18.06		0
	50	0	18.05		0
64QAM	1	0	17.97	0-2	0
	1	25	17.80		0
	1	49	17.84		0
	25	0	18.11	0-3	0
	25	12	18.12		0
	25	25	18.08		0
	50	0	18.12		0
256QAM	1	0	17.92	0-5	0
	1	25	18.14		0
	1	49	18.11		0
	25	0	17.75		0
	25	12	17.77		0
	25	25	17.81		0
	50	0	17.71		0

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LTE Band 14

Table 8-11
LTE Band 14 Measured P_{limit} Antenna 2 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth						
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			2330			
			(793.0 MHz) Conducted Power [dBm]			
QPSK	1	0	17.14	0	0	
	1	25	17.11		0	
	1	49	17.07		0	
	25	0	17.25	0-1	0	
	25	12	17.31		0	
	25	25	17.26		0	
16QAM	50	0	17.12	0	0	
	1	0	17.76		0-1	0
	1	25	17.54			0
	1	49	17.51	0		
	25	0	17.11	0-2	0	
	25	12	17.18		0	
25	25	17.15	0			
64QAM	50	0	17.09	0	0	
	1	0	16.95		0-2	0
	1	25	17.00			0
	1	49	16.97	0		
	25	0	17.12	0-3	0	
	25	12	17.17		0	
25	25	17.14	0			
256QAM	50	0	17.11	0	0	
	1	0	17.28		0-5	0
	1	25	17.41			0
	1	49	17.40	0		
	25	0	16.87	0		
	25	12	16.96	0		
256QAM	25	25	16.90	0		
	50	0	16.93	0		

Table 8-12
LTE Band 14 Measured P_{limit} Antenna 4 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth						
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			2330			
			(793.0 MHz) Conducted Power [dBm]			
QPSK	1	0	18.80	0	0	
	1	25	18.45		0	
	1	49	18.44		0	
	25	0	18.60	0-1	0	
	25	12	18.77		0	
	25	25	18.61		0	
16QAM	50	0	18.74	0	0	
	1	0	18.49		0-1	0
	1	25	18.48			0
	1	49	18.30	0		
	25	0	18.20	0-2	0	
	25	12	18.26		0	
25	25	18.21	0			
64QAM	50	0	18.15	0	0	
	1	0	18.43		0-2	0
	1	25	18.32			0
	1	49	18.42	0		
	25	0	18.18	0-3	0	
	25	12	18.25		0	
25	25	18.23	0			
256QAM	50	0	18.20	0	0	
	1	0	18.30		0-5	0
	1	25	18.32			0
	1	49	18.37	0		
	25	0	18.52	0		
	25	12	18.58	0		
256QAM	25	25	18.57	0		
	50	0	18.56	0		

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LTE Band 26

Table 8-13
LTE Band 26 Measured P_{limit} Antenna 2 - 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	16.49	16.31	16.35	0	0	
	1	25	16.31	16.30	16.34		0	
	1	49	16.30	16.34	16.36		0	
	QPSK	25	0	16.42	16.45	16.52	0-1	0
		25	12	16.63	16.51	16.57		0
		25	25	16.44	16.47	16.54		0
		50	0	16.36	16.35	16.34		0
50		0	16.36	16.35	16.34	0		
16QAM	1	0	16.47	16.65	16.31	0-1	0	
	1	25	16.47	16.51	16.33		0	
	1	49	16.38	16.52	16.24		0	
	16QAM	25	0	16.31	16.34	16.34	0-2	0
		25	12	16.33	16.42	16.45		0
		25	25	16.26	16.33	16.35		0
		50	0	16.24	16.24	16.30		0
64QAM	1	0	16.35	16.48	16.21	0-2	0	
	1	25	16.38	16.44	16.28		0	
	1	49	16.31	16.42	16.24		0	
	64QAM	25	0	16.32	16.33	16.45	0-3	0
		25	12	16.39	16.44	16.51		0
		25	25	16.31	16.35	16.46		0
256QAM	50	0	16.28	16.35	16.35	0-5	0	
	1	0	15.94	16.20	15.90		0	
	1	25	15.96	16.27	16.03		0	
	1	49	15.93	16.30	16.07		0	
	25	0	16.28	16.24	16.42		0	
	25	12	16.36	16.33	16.39		0	
256QAM	25	25	16.24	16.23	16.37	0-5	0	
	50	0	16.28	16.24	16.33		0	

Table 8-14
LTE Band 26 Measured P_{limit} Antenna 4 - 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	17.40	17.48	17.50	0	0	
	1	25	17.39	17.45	17.60		0	
	1	49	17.37	17.46	17.45		0	
	QPSK	25	0	17.55	17.58	17.67	0-1	0
		25	12	17.70	17.62	17.73		0
		25	25	17.50	17.54	17.66		0
		50	0	17.55	17.50	17.59		0
50		0	17.55	17.50	17.59	0		
16QAM	1	0	17.38	17.62	17.22	0-1	0	
	1	25	17.34	17.58	17.23		0	
	1	49	17.30	17.61	17.15		0	
	16QAM	25	0	17.17	17.19	17.24	0-2	0
		25	12	17.22	17.24	17.35		0
		25	25	17.17	17.20	17.26		0
		50	0	17.10	17.15	17.21		0
64QAM	1	0	17.14	17.22	17.58	0-2	0	
	1	25	17.17	17.23	17.64		0	
	1	49	17.12	17.32	17.55		0	
	64QAM	25	0	17.30	17.39	17.52	0-3	0
		25	12	17.38	17.41	17.57		0
		25	25	17.29	17.42	17.51		0
256QAM	50	0	17.31	17.38	17.41	0-5	0	
	1	0	16.91	17.12	17.20		0	
	1	25	16.97	17.07	17.26		0	
	1	49	16.85	17.20	17.32		0	
	25	0	17.15	17.14	17.24		0	
	25	12	17.27	17.19	17.30		0	
256QAM	25	25	17.16	17.11	17.19	0-5	0	
	50	0	17.17	17.13	17.18		0	

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LTE Band 5

Table 8-15
LTE Band 5 Measured P_{limit} Antenna 2 - 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	16.43	0	0
	1	25	16.35		0
	1	49	16.44		0
	25	0	16.41	0-1	0
	25	12	16.48		0
	25	25	16.47		0
	50	0	16.42		0
16QAM	1	0	16.46	0-1	0
	1	25	16.38		0
	1	49	16.32		0
	25	0	16.46	0-2	0
	25	12	16.50		0
	25	25	16.49		0
	50	0	16.46		0
64QAM	1	0	16.33	0-2	0
	1	25	16.30		0
	1	49	16.34		0
	25	0	16.48	0-3	0
	25	12	16.58		0
	25	25	16.54		0
	50	0	16.51		0
256QAM	1	0	16.54	0-5	0
	1	25	16.53		0
	1	49	16.47		0
	25	0	16.50		0
	25	12	16.55		0
	25	25	16.56		0
	50	0	16.47		0

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



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Table 8-16
LTE Band 5 Measured P_{limit} Antenna 4 - 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	17.51	0	0
	1	25	17.39		0
	1	49	17.48		0
	25	0	17.54	0-1	0
	25	12	17.62		0
	25	25	17.61		0
16QAM	50	0	17.50	0-1	0
	1	0	17.46		0
	1	25	17.40		0
	1	49	17.38	0-2	0
	25	0	17.22		0
	25	12	17.28		0
64QAM	25	25	17.26	0-2	0
	50	0	17.20		0
	1	0	17.30		0-2
	1	25	17.34	0	
	1	49	17.30	0	
	256QAM	25	0	17.21	0-3
25		12	17.31	0	
25		25	17.29	0	
50		0	17.21	0-5	0
1		0	17.52		0
1		25	17.60		0
256QAM	1	49	17.57	0-5	0
	25	0	17.19		0
	25	12	17.22		0
	25	25	17.17	0	
	50	0	17.20	0	

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

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LTE Band 66

Table 8-17
LTE Band 66 Measured *P*_{limit} Antenna 1b - 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	11.30	11.28	11.20	0	0
	1	50	11.19	11.26	10.90		0
	1	99	11.23	11.20	10.88		0
	50	0	11.28	11.22	11.31	0-1	0
	50	25	11.36	11.30	11.35		0
	50	50	11.28	11.25	11.23		0
16QAM	100	0	11.29	11.24	11.21	0-1	0
	1	0	11.18	11.63	11.42		0
	1	50	11.15	11.53	11.37		0
	1	99	11.04	11.52	11.35	0-2	0
	50	0	11.09	11.05	11.00		0
	50	25	11.15	11.07	11.04		0
64QAM	50	50	11.14	11.06	11.05	0-2	0
	100	0	11.13	11.07	11.06		0
	1	0	11.50	11.12	10.80		0-2
	1	50	11.60	11.10	10.86	0	
	1	99	11.51	11.02	10.70	0	
	256QAM	50	0	11.23	11.14	11.05	0-3
50		25	11.22	11.17	11.16	0	
50		50	11.13	11.06	11.10	0	
100		0	11.17	11.10	11.02	0-5	0
1		0	11.18	11.11	11.01		0
1		50	11.21	10.98	11.04		0
256QAM	1	99	11.19	11.00	11.01	0-5	0
	50	0	11.20	11.02	10.99		0
	50	25	11.21	11.01	11.02		0
	50	50	11.22	11.03	11.01	0	
	100	0	11.20	11.04	10.98	0	

Table 8-18
LTE Band 66 Measured *P*_{limit} Antenna 1b - 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	11.17	11.14	11.22	0	0
	1	25	11.15	11.06	11.16		0
	1	49	11.17	11.04	11.12		0
	25	0	11.12	11.29	11.33	0-1	0
	25	12	11.19	11.29	11.23		0
	25	25	11.16	11.25	11.22		0
16QAM	50	0	11.20	11.30	11.22	0-1	0
	1	0	11.51	11.62	11.57		0
	1	25	11.50	11.60	11.58		0
	1	49	11.51	11.56	11.54	0-2	0
	25	0	10.96	11.12	11.02		0
	25	12	11.05	11.15	11.05		0
64QAM	25	25	10.99	11.10	11.09	0-2	0
	50	0	10.97	11.07	11.00		0
	1	0	11.05	11.22	10.98		0-2
	1	25	11.12	11.23	11.01	0	
	1	49	11.13	11.22	10.97	0	
	256QAM	25	0	11.30	11.25	11.17	0-3
25		12	11.32	11.25	11.21	0	
25		25	11.29	11.20	11.20	0	
50		0	11.28	11.14	11.08	0-5	0
1		0	10.89	11.12	11.47		0
1		25	10.94	11.07	11.49		0
256QAM	1	49	10.87	11.01	11.41	0-5	0
	25	0	11.30	11.13	11.22		0
	25	12	11.32	11.14	11.20		0
	25	25	11.28	11.03	11.23	0	
	50	0	11.25	11.10	11.14	0	


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Table 8-19
LTE Band 66 Measured P_{limit} Antenna 2 - 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	13.25	13.29	13.09	0	0
	1	50	13.30	13.24	12.96		0
	1	99	13.28	13.24	12.84		0
	50	0	13.25	13.25	13.22	0-1	0
	50	25	13.28	13.26	13.26		0
	50	50	13.27	13.21	13.20		0
16QAM	100	0	13.25	13.24	13.18	0-1	0
	1	0	12.75	12.95	12.78		0
	1	50	12.74	12.92	12.80		0
	1	99	12.70	12.84	12.60	0-2	0
	50	0	13.00	12.96	12.82		0
	50	25	13.10	13.00	12.81		0
64QAM	50	50	13.02	12.93	12.77	0-2	0
	100	0	13.06	12.96	12.76		0
	1	0	13.25	12.73	13.11		0-3
	1	50	13.26	12.70	13.09	0	
	1	99	13.20	12.60	12.90	0	
	256QAM	50	0	13.05	13.01	12.80	0-3
50		25	13.11	13.06	12.81	0	
50		50	13.08	13.00	12.79	0	
100		0	13.09	13.02	12.78	0-5	0
1		0	12.99	12.93	12.81		0
1		50	13.00	12.95	12.83		0
256QAM	1	99	12.98	12.96	12.80	0-5	0
	50	0	12.99	12.95	12.82		0
	50	25	13.01	12.94	12.81		0
	50	50	12.97	12.93	12.79	0	
	100	0	12.95	12.96	12.82	0	

Table 8-20
LTE Band 66 Measured P_{limit} Antenna 2 - 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	13.00	12.89	12.81	0	0
	1	25	12.92	12.86	12.70		0
	1	49	12.98	12.80	12.65		0
	25	0	13.11	13.09	12.81	0-1	0
	25	12	13.20	13.09	12.83		0
	25	25	13.15	12.97	12.80		0
16QAM	50	0	13.17	13.03	12.80	0-1	0
	1	0	13.18	12.79	13.16		0
	1	25	13.10	12.69	13.03		0
	1	49	13.08	12.62	12.97	0-2	0
	25	0	12.95	12.83	12.61		0
	25	12	13.04	12.83	12.62		0
64QAM	25	25	12.96	12.73	12.64	0-2	0
	50	0	12.88	12.75	12.53		0
	1	0	13.06	12.61	12.61		0-3
	1	25	13.11	12.61	12.59	0	
	1	49	13.02	12.60	12.41	0	
	256QAM	25	0	12.93	12.88	12.64	0-3
25		12	13.05	12.85	12.64	0	
25		25	13.00	12.78	12.67	0	
50		0	12.92	12.83	12.56	0-5	0
1		0	12.73	12.84	13.15		0
1		25	12.65	12.76	13.25		0
256QAM	1	49	12.68	12.71	13.12	0-5	0
	25	0	13.12	12.84	12.70		0
	25	12	13.11	12.82	12.67		0
	25	25	13.05	12.74	12.68	0	
	50	0	13.03	12.72	12.60	0	


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Table 8-21
LTE Band 66 Measured P_{limit} Antenna 3b - 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	11.77	11.69	11.61	0	0
	1	50	11.74	11.60	11.67		0
	1	99	11.67	11.55	11.53		0
	50	0	11.83	11.71	11.66	0-1	0
	50	25	11.85	11.68	11.70		0
	50	50	11.69	11.59	11.55		0
16QAM	100	0	11.76	11.67	11.64	0-1	0
	1	0	12.07	11.96	11.90		0
	1	50	12.05	11.92	11.91		0
	1	99	11.98	11.84	11.81	0-2	0
	50	0	11.87	11.73	11.74		0
	50	25	11.89	11.76	11.78		0
64QAM	50	50	11.76	11.60	11.64	0-2	0
	100	0	11.83	11.68	11.71		0
	1	0	12.01	12.05	12.05		0-2
	1	50	12.03	12.04	12.07	0	
	1	99	11.99	11.90	11.93	0	
	256QAM	50	0	11.74	11.64	11.68	0-3
50		25	11.77	11.63	11.71	0	
50		50	11.66	11.55	11.58	0	
100		0	11.70	11.61	11.66	0-5	0
1		0	11.87	11.49	11.62		0
1		50	11.86	11.50	11.78		0
256QAM	1	99	11.78	11.39	11.66	0-5	0
	50	0	11.74	11.70	11.60		0
	50	25	11.80	11.72	11.62		0
	50	50	11.68	11.61	11.55	0	
	100	0	11.72	11.72	11.56	0	

Table 8-22
LTE Band 66 Measured P_{limit} Antenna 3b - 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	11.65	11.65	11.52	0	0
	1	25	11.59	11.37	11.48		0
	1	49	11.57	11.38	11.50		0
	25	0	11.77	11.63	11.66	0-1	0
	25	12	11.71	11.63	11.67		0
	25	25	11.66	11.60	11.63		0
16QAM	50	0	11.72	11.63	11.69	0-1	0
	1	0	12.21	11.96	11.62		0
	1	25	12.10	11.94	11.56		0
	1	49	12.10	11.72	11.56	0-2	0
	25	0	11.86	11.74	11.77		0
	25	12	11.84	11.77	11.77		0
64QAM	25	25	11.76	11.75	11.76	0-2	0
	50	0	11.75	11.68	11.68		0
	1	0	11.75	11.94	11.68		0-2
	1	25	11.76	11.88	11.72	0	
	1	49	11.67	11.74	11.66	0	
	256QAM	25	0	11.95	11.83	11.85	0-3
25		12	11.94	11.87	11.89	0	
25		25	11.88	11.82	11.81	0	
50		0	11.88	11.77	11.75	0-5	0
1		0	11.44	11.75	12.10		0
1		25	11.43	11.64	12.05		0
256QAM	1	49	11.42	11.58	12.09	0-5	0
	25	0	11.82	11.71	11.65		0
	25	12	11.78	11.70	11.66		0
	25	25	11.70	11.56	11.64	0	
	50	0	11.68	11.65	11.58	0	



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Table 8-23
LTE Band 66 Measured P_{limit} Antenna 4 - 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	13.52	13.39	13.30	0	0
	1	50	13.51	13.35	13.22		0
	1	99	13.39	13.22	13.15		0
	50	0	13.54	13.54	13.47	0-1	0
	50	25	13.51	13.56	13.30		0
	50	50	13.44	13.45	13.31		0
16QAM	100	0	13.47	13.41	13.28	0-1	0
	1	0	13.05	13.67	13.50		0
	1	50	13.00	13.60	13.47		0
	1	99	12.90	13.47	13.40	0-2	0
	50	0	13.22	13.26	13.07		0
	50	25	13.29	13.24	13.05		0
64QAM	50	50	13.21	13.17	13.00	0-2	0
	100	0	13.24	13.21	13.02		0
	1	0	12.99	13.00	13.06		0-2
	1	50	12.95	12.90	13.02	0	
	1	99	12.85	12.80	12.97	0	
	256QAM	50	0	13.21	13.22	13.04	0-3
50		25	13.27	13.28	13.10	0	
50		50	13.21	13.18	13.00	0	
100		0	13.24	13.17	13.04	0-5	0
1		0	13.30	13.26	12.85		0
1		50	13.36	13.35	12.90		0
256QAM	1	99	13.35	13.21	12.85	0-5	0
	50	0	13.15	13.22	12.94		0
	50	25	13.24	13.27	13.02		0
	50	50	13.21	13.16	12.97	0	
	100	0	13.17	13.15	13.02	0	

Table 8-24
LTE Band 66 Measured P_{limit} Antenna 4 - 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	13.39	13.38	13.23	0	0
	1	25	13.36	13.30	13.21		0
	1	49	13.33	13.30	13.18		0
	25	0	13.50	13.46	13.38	0-1	0
	25	12	13.46	13.47	13.40		0
	25	25	13.40	13.42	13.37		0
16QAM	50	0	13.44	13.45	13.40	0-1	0
	1	0	13.45	13.19	13.53		0
	1	25	13.42	13.10	13.39		0
	1	49	13.40	13.03	13.39	0-2	0
	25	0	13.28	13.20	13.06		0
	25	12	13.29	13.21	13.06		0
64QAM	25	25	13.29	13.16	13.02	0-2	0
	50	0	13.18	13.15	12.95		0
	1	0	13.39	13.04	12.90		0-2
	1	25	13.37	13.01	12.85	0	
	1	49	13.33	12.89	12.78	0	
	256QAM	25	0	13.28	13.25	13.06	0-3
25		12	13.28	13.21	13.08	0	
25		25	13.27	13.24	13.01	0	
50		0	13.21	13.19	12.96	0-5	0
1		0	12.81	13.15	13.33		0
1		25	12.87	13.06	13.40		0
256QAM	1	49	12.86	13.04	13.35	0-5	0
	25	0	13.20	13.14	12.98		0
	25	12	13.20	13.12	13.03		0
	25	25	13.18	13.03	13.09	0	
	50	0	13.16	13.08	13.01	0	

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LTE Band 25

Table 8-25
LTE Band 25 Measured P_{limit} Antenna 1b - 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	10.75	10.91	10.86	0	0	
	1	50	10.62	10.95	10.80		0	
	1	99	10.66	10.85	10.78		0	
	QPSK	50	0	10.94	10.98	10.85	0-1	0
		50	25	10.97	10.92	10.91		0
		50	50	10.96	10.96	10.93		0
		100	0	10.92	10.94	10.90		0
100		0	10.92	10.94	10.90	0		
16QAM	1	0	10.83	10.82	11.07	0-1	0	
	1	50	10.85	10.82	11.04		0	
	1	99	10.79	10.72	10.84		0	
	16QAM	50	0	10.70	10.63	10.47	0-2	0
		50	25	10.78	10.64	10.45		0
		50	50	10.74	10.59	10.44		0
		100	0	10.70	10.65	10.39		0
64QAM	1	0	10.56	11.01	10.21	0-2	0	
	1	50	10.68	11.07	10.18		0	
	1	99	10.66	10.93	10.08		0	
	64QAM	50	0	10.62	10.64	10.53	0-3	0
		50	25	10.75	10.61	10.56		0
		50	50	10.69	10.65	10.49		0
		100	0	10.71	10.64	10.57		0
256QAM	1	0	11.03	10.96	10.94	0-5	0	
	1	50	11.07	11.01	10.99		0	
	1	99	11.00	10.87	10.84		0	
	50	0	10.81	10.72	10.69		0	
	50	25	10.88	10.73	10.75		0	
	50	50	10.84	10.72	10.69		0	
	100	0	10.86	10.60	10.72		0	

Table 8-26
LTE Band 25 Measured P_{limit} Antenna 2 - 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	13.00	12.92	12.93	0	0	
	1	50	12.71	12.85	12.94		0	
	1	99	12.70	12.80	12.95		0	
	QPSK	50	0	13.01	12.86	12.91	0-1	0
		50	25	13.11	12.88	13.06		0
		50	50	13.00	12.95	13.02		0
		100	0	12.99	12.87	12.90		0
16QAM	1	0	13.15	12.95	12.21	0-1	0	
	1	50	13.15	13.03	12.34		0	
	1	99	13.07	12.91	12.32		0	
	16QAM	50	0	12.65	12.58	12.58	0-2	0
		50	25	12.70	12.63	12.69		0
		50	50	12.67	12.63	12.67		0
		100	0	12.71	12.63	12.62		0
64QAM	1	0	12.65	12.23	12.91	0-2	0	
	1	50	12.72	12.30	13.06		0	
	1	99	12.65	12.32	13.04		0	
	64QAM	50	0	12.68	12.60	12.60	0-3	0
		50	25	12.76	12.69	12.67		0
		50	50	12.68	12.65	12.69		0
		100	0	12.72	12.67	12.64		0
256QAM	1	0	12.67	12.60	12.60	0-5	0	
	1	50	12.68	12.60	12.61		0	
	1	99	12.67	12.66	12.57		0	
	50	0	12.67	12.66	12.56		0	
	50	25	12.66	12.66	12.65		0	
	50	50	12.67	12.65	12.64		0	
	100	0	12.66	12.64	12.64		0	



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Table 8-27
LTE Band 25 Measured P_{limit} Antenna 3b - 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	11.97	12.12	12.08	0	0	
	1	50	11.89	12.18	12.01		0	
	1	99	11.87	12.04	11.90		0	
	16QAM	50	0	12.17	12.20	12.14	0-1	0
		50	25	12.22	12.23	12.11		0
		50	50	12.17	12.11	12.00		0
		64QAM	100	0	12.14	12.15	12.07	0-1
1			0	12.10	12.00	11.63	0	
1			50	12.05	12.05	11.57	0	
256QAM			1	99	12.00	11.90	11.90	0-2
	50		0	11.98	11.93	11.91	0	
	50		25	12.03	11.95	11.92	0	
	QPSK		50	50	11.97	11.94	11.93	0-2
		100	0	11.96	11.96	11.92	0	
		1	0	11.87	11.83	12.11	0	
		16QAM	1	50	11.86	11.83	12.10	0-3
1			99	11.73	11.70	12.04	0	
50			0	11.93	11.85	11.82	0	
64QAM			50	25	11.97	11.90	11.83	0-5
	50		50	11.89	11.88	11.81	0	
	100		0	11.95	11.87	11.78	0	
	256QAM		1	0	11.68	11.87	11.92	0-5
		1	50	11.70	11.91	12.02	0	
		1	99	11.51	11.83	11.87	0	
		QPSK	50	0	11.94	11.78	11.87	0-5
50			25	11.92	11.81	11.95	0	
50			50	11.75	11.69	11.89	0	
16QAM			100	0	11.91	11.74	11.86	0-5
	1		0	11.87	11.83	12.11	0	
	1		50	11.86	11.83	12.10	0	
	64QAM		1	99	11.73	11.70	12.04	0-5
		50	0	11.93	11.85	11.82	0	
		50	25	11.97	11.90	11.83	0	
		256QAM	50	50	11.89	11.88	11.81	0-5
100			0	11.95	11.87	11.78	0	
1			0	11.68	11.87	11.92	0	
QPSK			1	50	11.70	11.91	12.02	0-5
	1		99	11.51	11.83	11.87	0	
	50		0	11.94	11.78	11.87	0	
	16QAM		50	25	11.92	11.81	11.95	0-5
		50	50	11.75	11.69	11.89	0	
		100	0	11.91	11.74	11.86	0	

Table 8-28
LTE Band 25 Measured P_{limit} Antenna 4 - 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	12.94	12.82	12.65	0	0	
	1	50	12.81	12.80	12.72		0	
	1	99	12.75	12.93	12.93		0	
	16QAM	50	0	13.09	12.87	12.93	0-1	0
		50	25	12.90	12.88	13.08		0
		50	50	12.92	13.02	12.98		0
		64QAM	100	0	12.93	12.85	12.76	0-1
1			0	13.19	13.11	13.09	0	
1			50	13.22	13.10	13.11	0	
256QAM			1	99	13.14	12.99	13.01	0-2
	50		0	12.96	12.94	12.80	0	
	50		25	13.04	12.93	12.90	0	
	QPSK		50	50	13.01	12.97	12.89	0-2
		100	0	13.00	12.92	12.88	0	
		1	0	13.04	13.07	13.03	0	
		16QAM	1	50	13.19	13.10	13.06	0-3
1			99	12.97	13.04	13.02	0	
50			0	12.99	12.91	12.87	0	
64QAM			50	25	13.05	12.92	12.93	0-5
	50		50	13.00	12.95	12.89	0	
	100		0	13.00	12.90	12.94	0	
	256QAM		1	0	13.07	13.06	13.01	0-5
		1	50	13.17	13.16	13.05	0	
		1	99	13.11	13.05	12.93	0	
		QPSK	50	0	12.78	12.85	12.74	0-5
50			25	12.89	12.86	12.82	0	
50			50	12.84	12.86	12.77	0	
16QAM			100	0	12.85	12.78	12.78	0-5
	1		0	13.04	13.07	13.03	0	
	1		50	13.19	13.10	13.06	0	
	64QAM		1	99	12.97	13.04	13.02	0-5
		50	0	12.99	12.91	12.87	0	
		50	25	13.05	12.92	12.93	0	
		256QAM	50	50	13.00	12.95	12.89	0-5
100			0	13.00	12.90	12.94	0	
1			0	13.07	13.06	13.01	0	
QPSK			1	50	13.17	13.16	13.05	0-5
	1		99	13.11	13.05	12.93	0	
	50		0	12.78	12.85	12.74	0	
	16QAM		50	25	12.89	12.86	12.82	0-5
		50	50	12.84	12.86	12.77	0	
		100	0	12.85	12.78	12.78	0	

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LTE Band 30

Table 8-29
LTE Band 30 Measured P_{limit} Antenna 1b - 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	11.72	0	0
	1	25	11.58		0
	1	49	11.61		0
	25	0	11.83	0-1	0
	25	12	11.98		0
	25	25	11.78		0
16QAM	50	0	11.70	0-1	0
	1	0	11.97		0
	1	25	11.90		0
	1	49	11.87	0-2	0
	25	0	11.75		0
	25	12	11.77		0
64QAM	25	25	11.74	0-2	0
	50	0	11.68		0
	1	0	11.61		0-2
	1	25	11.57	0	
	1	49	11.50	0	
	256QAM	25	0	11.72	0-3
25		12	11.85	0	
25		25	11.70	0	
50		0	11.76	0-5	0
1		0	11.82		0
1		25	11.87		0
256QAM	1	49	11.92	0-5	0
	25	0	11.44		0
	25	12	11.52		0
	25	25	11.54	0	
	50	0	11.55	0	

Table 8-30
LTE Band 30 Measured P_{limit} Antenna 2 - 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	12.67	0	0
	1	25	12.58		0
	1	49	12.55		0
	25	0	12.70	0-1	0
	25	12	12.73		0
	25	25	12.75		0
16QAM	50	0	12.66	0-1	0
	1	0	12.90		0
	1	25	12.81		0
	1	49	12.85	0-2	0
	25	0	12.66		0
	25	12	12.65		0
64QAM	25	25	12.69	0-2	0
	50	0	12.59		0
	1	0	12.72		0-2
	1	25	12.73	0	
	1	49	12.62	0	
	256QAM	25	0	12.67	0-3
25		12	12.65	0	
25		25	12.72	0	
50		0	12.60	0-5	0
1		0	12.55		0
1		25	12.52		0
256QAM	1	49	12.53	0-5	0
	25	0	12.50		0
	25	12	12.51		0
	25	25	12.49	0	
	50	0	12.55	0	



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Table 8-31
LTE Band 30 Measured P_{limit} Antenna 3b - 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	13.25	0	0	
	1	25	13.40		0	
	1	49	13.24		0	
	25	0	13.41	0-1	0	
	25	12	13.45		0	
	25	25	13.42		0	
16QAM	50	0	13.38	0	0	
	1	0	13.40		0	
	1	25	13.34		0-1	0
	1	49	13.36	0		
	25	0	13.00	0-2		0
	25	12	13.08		0	
25	25	13.05	0			
64QAM	50	0	12.92	0	0	
	1	0	13.16		0-2	0
	1	25	13.20			0
	1	49	13.15	0-3		0
	25	0	13.41		0	
	25	12	13.42		0	
256QAM	25	25	13.42	0	0	
	50	0	13.38		0	
	1	0	13.13		0-5	0
	1	25	13.20	0		
	1	49	13.25	0		
	25	0	13.01	0		
25	12	12.82	0			
25	25	12.83	0			
50	0	12.80	0			

Table 8-32
LTE Band 30 Measured P_{limit} Antenna 4 - 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	13.25	0	0	
	1	25	13.16		0	
	1	49	13.13		0	
	25	0	13.20	0-1	0	
	25	12	13.47		0	
	25	25	13.28		0	
16QAM	50	0	13.21	0	0	
	1	0	13.25		0-1	0
	1	25	13.20			0
	1	49	13.22	0-2		0
	25	0	13.16		0	
	25	12	13.20		0	
64QAM	25	25	13.21	0	0	
	50	0	13.24		0	
	1	0	13.11		0-2	0
	1	25	13.09	0		
	1	49	13.06	0-3		0
	25	0	13.12		0	
25	12	13.02	0			
256QAM	25	25	13.07	0	0	
	50	0	12.99		0	
	1	0	12.93		0-5	0
	1	25	12.96	0		
	1	49	12.95	0		
	25	0	13.03	0		
25	12	13.05	0			
25	25	13.03	0			
50	0	13.02	0			

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LTE Band 7

Table 8-33
LTE Band 7 Measured P_{limit} Antenna 1b - 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	11.66	12.00	12.06	0	0		
	1	50	11.64	11.99	12.03		0		
	1	99	11.87	11.87	11.95		0		
	QPSK	50	0	11.98	12.04	12.10	-1	0	
		50	25	11.97	12.04	12.08		0	
		50	50	12.09	12.03	12.04		0	
		100	0	11.96	12.05	12.03		0	
16QAM		1	0	12.20	12.40	11.70		-1	0
		1	50	12.30	12.47	11.69			0
	1	99	12.26	12.33	11.60	0			
	16QAM	50	0	11.93	11.95	11.94	-2	0	
		50	25	11.95	12.00	11.98		0	
		50	50	11.90	11.93	11.93		0	
		100	0	11.92	12.01	11.92		0	
64QAM		1	0	12.24	11.67	12.03		-2	0
	1	50	12.32	11.74	12.00	0			
	1	99	12.30	11.60	11.83	0			
	64QAM	50	0	11.95	12.05	12.02	-3	0	
		50	25	11.97	12.09	12.04		0	
		50	50	11.91	12.03	11.95		0	
		100	0	11.92	12.02	12.02		0	
256QAM	1	0	11.80	12.02	11.87	-5	0		
	1	50	11.95	12.04	12.00		0		
	1	99	11.95	12.02	12.02		0		
	50	0	11.98	12.05	12.01		0		
	50	25	11.96	12.07	12.03		0		
	50	50	12.00	12.10	11.95		0		
	100	0	11.96	12.07	12.07		0		

Table 8-34
LTE Band 7 Measured P_{limit} Antenna 2 - 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	11.31	11.30	11.34	0	0	
	1	50	11.32	11.29	11.27		0	
	1	99	11.35	11.27	11.33		0	
	QPSK	50	0	11.49	11.51	11.48	-1	0
		50	25	11.50	11.49	11.46		0
		50	50	11.52	11.46	11.44		0
		100	0	11.34	11.33	11.30		0
16QAM		1	0	11.45	11.29	11.24		-1
	1	50	11.49	11.32	11.29	0		
	1	99	11.44	11.29	11.31	0		
	16QAM	50	0	11.00	10.95	10.94	-2	0
		50	25	10.99	11.00	10.98		0
		50	50	10.93	10.96	10.96		0
		100	0	10.94	10.96	10.95		0
64QAM		1	0	11.04	10.76	10.64		-2
	1	50	11.00	10.91	10.85	0		
	1	99	10.98	10.78	10.80	0		
	64QAM	50	0	11.08	11.00	10.99	-3	0
		50	25	11.05	11.06	11.03		0
		50	50	11.02	11.02	11.00		0
		100	0	11.00	11.01	11.01		0
256QAM	1	0	11.02	11.03	10.95	-5	0	
	1	50	11.03	11.03	10.96		0	
	1	99	11.06	10.99	10.98		0	
	50	0	11.05	10.98	10.96		0	
	50	25	11.02	11.01	10.95		0	
	50	50	11.03	11.02	10.98		0	
	100	0	11.02	10.98	10.99		0	



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Table 8-35
LTE Band 7 Measured P_{limit} Antenna 3b - 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	13.46	13.40	13.52	0	0	
	1	50	13.60	13.42	13.51		0	
	1	99	13.46	13.30	13.34		0	
	QPSK	50	0	13.52	13.59	13.52	0-1	0
		50	25	13.60	13.58	13.54		0
		50	50	13.52	13.56	13.40		0
		100	0	13.51	13.58	13.51		0
100		0	13.55	13.54	13.88	0		
16QAM	1	0	13.55	13.54	13.88	0-1	0	
	1	50	13.59	13.55	13.82		0	
	1	99	13.54	13.44	13.75		0	
	16QAM	50	0	13.36	13.39	13.34	0-2	0
		50	25	13.38	13.37	13.35		0
		50	50	13.35	13.25	13.20		0
		100	0	13.34	13.33	13.28		0
100		0	12.96	12.72	13.40	0		
64QAM	1	0	12.98	12.82	13.41	0-2	0	
	1	50	12.98	12.82	13.41		0	
	1	99	12.91	12.70	13.30		0	
	64QAM	50	0	12.89	13.05	12.92	0-3	0
		50	25	13.02	13.15	13.01		0
		50	50	12.98	13.10	12.94		0
		100	0	12.99	13.03	12.97		0
100		0	13.21	13.22	13.23	0		
256QAM	1	0	13.30	13.33	13.22	0-5	0	
	1	50	13.30	13.33	13.22		0	
	1	99	13.34	13.26	13.24		0	
	256QAM	50	0	13.01	13.05	13.03	0-5	0
		50	25	13.04	13.13	13.01		0
		50	50	13.06	13.08	13.03		0
		100	0	13.00	13.04	12.90		0
100		0	13.00	13.04	12.90	0		

Table 8-36
LTE Band 7 Measured P_{limit} Antenna 4 - 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	11.70	11.53	11.35	0	0	
	1	50	11.76	11.58	11.48		0	
	1	99	11.65	11.57	11.41		0	
	QPSK	50	0	11.77	11.72	11.67	0-1	0
		50	25	11.81	11.77	11.73		0
		50	50	11.71	11.64	11.62		0
		100	0	11.75	11.70	11.69		0
100		0	11.51	11.47	11.60	0		
16QAM	1	0	11.51	11.47	11.60	0-1	0	
	1	50	11.62	11.58	11.70		0	
	1	99	11.55	11.61	11.67		0	
	16QAM	50	0	11.23	11.19	11.23	0-2	0
		50	25	11.25	11.27	11.25		0
		50	50	11.19	11.22	11.22		0
		100	0	11.20	11.25	11.21		0
100		0	11.55	11.11	11.15	0		
64QAM	1	0	11.55	11.11	11.15	0-2	0	
	1	50	11.61	11.30	11.34		0	
	1	99	11.46	11.10	11.20		0	
	64QAM	50	0	11.20	11.22	11.26	0-3	0
		50	25	11.19	11.27	11.33		0
		50	50	11.15	11.22	11.21		0
		100	0	11.16	11.27	11.29		0
100		0	11.23	11.22	11.24	0		
256QAM	1	0	11.23	11.22	11.24	0-5	0	
	1	50	11.30	11.49	11.40		0	
	1	99	11.16	11.26	11.33		0	
	256QAM	50	0	11.20	11.22	11.24	0-5	0
		50	25	11.22	11.30	11.31		0
		50	50	11.16	11.15	11.25		0
		100	0	11.17	11.20	11.26		0
100		0	11.17	11.20	11.26	0		

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LTE Band 41 PC3

Table 8-37
LTE Band 41 PC3 Measured P_{limit} Antenna 1b - 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	13.33	13.40	13.28	13.27	13.38	0	0
	1	50	13.25	13.36	13.16	13.29	13.29		0
	1	99	13.21	13.27	13.13	13.30	13.23		0
	50	0	13.49	13.51	13.37	13.42	13.42		0
	50	25	13.44	13.52	13.39	13.44	13.43		0
	50	50	13.35	13.42	13.33	13.40	13.34		0
16QAM	100	0	13.33	13.37	13.34	13.35	13.39	0-1	0
	1	0	13.20	13.35	13.16	13.15	13.26		0
	1	50	13.24	13.43	13.01	13.17	13.25		0
	1	99	13.25	13.39	13.06	13.30	13.22		0
	50	0	13.24	13.27	13.10	13.17	13.24		0
	50	25	13.29	13.24	13.22	13.18	13.23		0
64QAM	50	50	13.19	13.18	13.17	13.20	13.19	0-2	0
	100	0	13.20	13.18	13.19	13.15	13.18		0
	1	0	13.07	13.09	13.20	13.16	13.22		0
	1	50	13.14	13.10	13.15	13.12	13.18		0
	1	99	13.03	13.08	13.19	13.17	13.17		0
	50	0	13.13	13.17	13.18	13.08	13.18		0
256QAM	50	25	13.14	13.22	13.15	13.19	13.21	0-3	0
	50	50	13.15	13.16	13.20	13.17	13.13		0
	100	0	13.02	13.14	13.16	13.20	13.17		0
	1	0	13.51	13.45	13.37	13.41	13.22		0
	1	50	13.44	13.29	13.32	13.39	13.21		0
	1	99	13.38	13.24	13.26	13.38	13.19		0
256QAM	50	0	13.48	13.36	13.36	13.31	13.23	0-5	0
	50	25	13.50	13.37	13.38	13.34	13.25		0
	50	50	13.39	13.30	13.27	13.29	13.18		0
	100	0	13.38	13.29	13.30	13.28	13.22		0

Table 8-38
LTE Band 41 PC3 Measured P_{limit} Antenna 2 - 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	13.26	13.08	13.21	13.10	13.25	0	0
	1	50	13.14	13.11	13.12	12.87	13.16		0
	1	99	13.10	13.02	13.05	12.97	13.10		0
	50	0	13.34	13.25	13.28	13.11	13.15		0
	50	25	13.35	13.23	13.25	13.14	13.16		0
	50	50	13.21	13.16	13.21	13.12	13.14		0
16QAM	100	0	13.25	13.20	13.19	13.11	13.23	0-1	0
	1	0	13.22	13.18	13.51	13.36	13.31		0
	1	50	13.19	13.38	13.48	13.27	13.27		0
	1	99	13.13	13.37	13.39	13.29	13.22		0
	50	0	13.24	13.22	13.25	13.13	13.12		0
	50	25	13.31	13.20	13.23	13.06	13.11		0
64QAM	50	50	13.24	13.19	13.22	13.06	13.08	0-2	0
	100	0	13.30	13.13	13.21	13.07	13.07		0
	1	0	13.18	12.93	13.14	13.12	13.08		0
	1	50	13.25	12.91	13.04	13.10	12.98		0
	1	99	13.10	12.87	13.00	13.08	12.95		0
	50	0	13.21	13.19	13.36	13.10	13.15		0
256QAM	50	25	13.24	13.24	13.35	13.14	13.20	0-3	0
	50	50	13.20	13.13	13.26	13.11	13.13		0
	100	0	13.17	13.22	13.30	13.15	13.26		0
	1	0	13.31	13.17	13.40	13.15	13.35		0
	1	50	13.28	13.13	13.34	13.16	13.32		0
	1	99	13.20	13.12	13.21	13.21	13.21		0
256QAM	50	0	13.25	13.16	13.31	13.19	13.27	0-5	0
	50	25	13.23	13.22	13.29	13.22	13.36		0
	50	50	13.21	13.20	13.21	13.19	13.28		0
	100	0	13.22	13.17	13.25	13.17	13.29		0



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Table 8-39
LTE Band 41 PC3 Measured P_{limit} Antenna 3b - 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	14.28	14.25	14.13	14.26	14.25	0	0	
	1	50	14.42	14.15	14.12	14.22	14.10		0	
	1	99	14.29	14.10	14.21	14.17	14.12		0	
	16QAM	50	0	14.42	14.40	14.36	14.39	14.36	0-1	0
		50	25	14.40	14.41	14.37	14.41	14.41		0
		50	50	14.39	14.30	14.40	14.29	14.37		0
		64QAM	100	0	14.39	14.40	14.41	14.36	14.36	0-1
1			0	14.32	14.23	14.05	14.43	14.25	0	
1			50	14.30	14.25	14.01	14.31	14.26	0	
256QAM			1	99	14.24	14.15	14.05	14.30	14.31	0-2
	50		0	14.04	13.99	14.08	14.12	14.14	0	
	50		25	14.13	14.07	14.16	14.11	14.16	0	
	64QAM		50	50	14.07	14.03	14.12	14.07	14.09	0-2
		100	0	14.12	14.01	14.09	14.09	14.12	0	
		1	0	14.03	13.95	14.08	14.17	14.13	0	
		256QAM	1	50	14.08	14.03	14.09	14.11	14.11	0-3
1			99	14.06	13.96	14.06	14.09	14.12	0	
50			0	14.08	14.03	14.13	14.13	14.09	0	
256QAM			50	25	14.11	14.07	14.16	14.15	14.16	0-5
	50		50	14.07	14.04	14.08	14.09	14.12	0	
	100		0	14.12	14.05	14.07	14.11	14.17	0	
	256QAM		1	0	14.16	14.25	14.13	14.13	14.25	0-5
		1	50	14.07	14.21	14.13	14.08	14.22	0	
		1	99	14.05	14.16	14.07	14.04	14.21	0	
		256QAM	50	0	14.09	14.09	14.09	14.10	14.17	0-5
50			25	14.13	14.12	14.18	14.15	14.20	0	
50			50	14.10	14.11	14.13	14.09	14.15	0	
100			0	14.11	14.06	14.09	14.11	14.14	0	

Table 8-40
LTE Band 41 PC3 Measured P_{limit} Antenna 4 - 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	13.90	13.70	13.93	13.71	13.71	0	0	
	1	50	13.77	13.68	13.81	13.60	13.62		0	
	1	99	13.79	13.71	13.80	13.61	13.70		0	
	16QAM	50	0	14.00	13.78	14.00	13.76	13.84	0-1	0
		50	25	14.01	13.82	14.02	13.74	13.89		0
		50	50	13.92	13.79	13.86	13.66	13.80		0
		16QAM	100	0	13.91	13.73	13.92	13.70	13.90	0-2
1			0	13.61	13.43	13.62	13.37	13.90	0	
1			50	13.64	13.44	13.51	13.39	13.92	0	
64QAM			1	99	13.57	13.40	13.43	13.42	13.89	0-2
	50		0	13.74	13.65	13.83	13.37	13.77	0	
	50		25	13.79	13.68	13.80	13.44	13.76	0	
	256QAM		50	50	13.66	13.69	13.67	13.38	13.65	0-3
		100	0	13.77	13.59	13.74	13.43	13.75	0	
		1	0	13.78	13.59	13.58	13.67	13.62	0	
		256QAM	1	50	13.87	13.71	13.54	13.66	13.56	0-5
1			99	13.74	13.75	13.44	13.72	13.51	0	
50			0	13.56	13.51	13.55	13.43	13.64	0	
256QAM			50	25	13.63	13.52	13.62	13.41	13.71	0-5
	50		50	13.55	13.54	13.52	13.37	13.66	0	
	100		0	13.62	13.56	13.61	13.39	13.72	0	
	256QAM		1	0	13.92	13.73	14.00	13.63	13.95	0-5
		1	50	13.91	13.77	13.95	13.67	13.96	0	
		1	99	13.88	13.79	13.84	13.74	13.90	0	
		256QAM	50	0	13.72	13.60	13.77	13.40	13.79	0-5
50			25	13.79	13.58	13.76	13.44	13.80	0	
50			50	13.74	13.62	13.70	13.37	13.77	0	
100			0	13.71	13.58	13.72	13.36	13.78	0	

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LTE Band 41 PC2

Table 8-41
LTE Band 41 PC2 Measured P_{limit} Antenna 1b - 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	14.98	14.80	14.97	14.83	14.70	0	0
	1	50	15.00	14.83	14.92	14.80	14.65		0
	1	99	14.95	14.79	14.94	14.85	14.71		0
	50	0	15.17	15.10	14.96	14.95	14.93		0
	50	25	15.11	15.12	14.95	14.96	14.97		0
	50	50	15.06	15.01	14.98	14.93	14.85	0-1	0
	50	0	14.99	14.98	14.96	14.90	14.83		0

Table 8-42
LTE Band 41 PC2 Measured P_{limit} Antenna 2 - 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	14.77	14.60	14.98	14.77	14.86	0	0
	1	50	14.79	14.62	14.88	14.69	14.79		0
	1	99	14.72	14.56	14.91	14.67	14.78		0
	50	0	14.95	14.88	14.93	14.95	14.92		0
	50	25	14.89	14.85	14.94	14.96	14.95		0
	50	50	14.84	14.79	14.93	14.93	14.93	0-1	0
	100	0	14.86	14.84	14.90	14.92	14.89		0

Table 8-43
LTE Band 41 PC2 Measured P_{limit} Antenna 3b - 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	15.90	15.84	16.01	15.95	15.92	0	0
	1	50	16.12	15.85	15.97	15.99	15.93		0
	1	99	15.83	15.69	15.92	16.02	15.98		0
	50	0	16.20	16.04	16.12	15.99	16.15		0
	50	25	16.15	16.02	16.17	16.01	16.18		0
	50	50	16.14	15.97	16.05	15.96	16.16	0-1	0
	100	0	16.11	16.00	16.00	16.01	16.09		0

Table 8-44
LTE Band 41 PC2 Measured P_{limit} Antenna 4 - 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	15.08	14.92	15.27	14.85	14.95	0	0
	1	50	15.15	15.00	15.26	14.80	15.00		0
	1	99	15.10	14.99	15.24	14.82	15.05		0
	50	0	15.40	15.20	15.48	15.06	15.20		0
	50	25	15.44	15.30	15.54	15.10	15.27		0
	50	50	15.39	15.26	15.43	15.00	15.23	0-1	0
	100	0	15.29	15.27	15.30	15.04	15.25		0

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LTE Band 48

Table 8-45
LTE Band 48 Measured P_{limit} Antenna 1a - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
Conducted Power [dBm]								
QPSK	1	0	11.24	11.28	11.33	11.28	0	0
	1	50	11.23	11.25	11.28	11.19		0
	1	99	11.40	11.29	11.39	11.15		0
	50	0	11.42	11.37	11.38	11.38	0-1	0
	50	25	11.43	11.42	11.43	11.36		0
	50	50	11.46	11.43	11.45	11.30		0
	100	0	11.39	11.37	11.38	11.37		0
16QAM	1	0	11.34	11.22	11.29	11.19	0-1	0
	1	50	11.36	11.15	11.18	11.13		0
	1	99	11.30	11.20	11.16	11.14		0
	50	0	11.28	11.24	11.28	11.19	0-2	0
	50	25	11.30	11.31	11.34	11.23		0
	50	50	11.29	11.29	11.27	11.22		0
	100	0	11.27	11.32	11.29	11.24		0
64QAM	1	0	11.14	11.21	11.12	11.05	0-2	0
	1	50	11.09	11.28	11.07	11.01		0
	1	99	11.11	11.31	11.05	11.04		0
	50	0	11.33	11.24	11.28	11.26	0-3	0
	50	25	11.40	11.28	11.33	11.31		0
	50	50	11.39	11.30	11.29	11.32		0
	100	0	11.34	11.27	11.35	11.29		0
256QAM	1	0	11.42	11.24	11.33	11.28	0-5	0
	1	50	11.41	11.31	11.30	11.32		0
	1	99	11.40	11.29	11.24	11.35		0
	50	0	11.34	11.30	11.25	11.27	0-5	0
	50	25	11.42	11.32	11.34	11.31		0
	50	50	11.36	11.35	11.33	11.36		0
	100	0	11.32	11.30	11.29	11.26		0

Table 8-46
LTE Band 48 Measured P_{limit} Antenna 2 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
Conducted Power [dBm]								
QPSK	1	0	12.20	12.20	12.37	12.31	0	0
	1	50	12.10	12.21	12.30	12.19		0
	1	99	12.14	12.38	12.23	12.22		0
	50	0	12.26	12.32	12.42	12.30	0-1	0
	50	25	12.30	12.34	12.40	12.32		0
	50	50	12.28	12.33	12.39	12.34		0
	100	0	12.19	12.37	12.36	12.28		0
16QAM	1	0	12.17	12.03	12.50	12.05	0-1	0
	1	50	12.11	12.01	12.47	11.99		0
	1	99	12.09	12.03	12.45	12.01		0
	50	0	12.20	12.06	12.25	12.01	0-2	0
	50	25	12.22	12.11	12.33	12.03		0
	50	50	12.14	12.09	12.31	12.06		0
	100	0	12.17	12.14	12.29	12.01		0
64QAM	1	0	12.01	12.07	12.16	11.90	0-2	0
	1	50	11.94	12.05	12.11	11.85		0
	1	99	11.93	12.13	12.09	11.84		0
	50	0	12.17	12.06	12.33	12.05	0-3	0
	50	25	12.22	12.10	12.44	12.01		0
	50	50	12.19	12.13	12.37	12.06		0
	100	0	12.21	12.08	12.35	12.07		0
256QAM	1	0	12.18	12.21	12.32	12.07	0-5	0
	1	50	12.20	12.20	12.28	12.09		0
	1	99	12.16	12.23	12.23	12.06		0
	50	0	12.17	12.12	12.27	12.09	0-5	0
	50	25	12.29	12.16	12.25	12.04		0
	50	50	12.24	12.18	12.28	12.11		0
	100	0	12.21	12.13	12.26	12.03		0



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Table 8-47
LTE Band 48 Measured P_{limit} Antenna 3a - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	11.32	11.38	11.33	11.31	0	0
	1	50	11.33	11.22	11.26	11.24		0
	1	99	11.30	11.26	11.28	11.20		0
	50	0	11.48	11.44	11.37	11.36	0-1	0
	50	25	11.53	11.46	11.46	11.37		0
	50	50	11.47	11.41	11.45	11.38		0
	100	0	11.35	11.37	11.34	11.30		0
16QAM	1	0	11.43	11.35	11.12	11.36	0-1	0
	1	50	11.35	11.31	11.08	11.28		0
	1	99	11.37	11.34	11.09	11.24		0
	50	0	11.25	11.16	11.14	11.10	0-2	0
	50	25	11.24	11.19	11.16	11.05		0
	50	50	11.20	11.17	11.19	11.08		0
	100	0	11.22	11.20	11.14	11.04		0
64QAM	1	0	11.29	11.24	11.00	11.16	0-2	0
	1	50	11.25	11.18	10.99	11.14		0
	1	99	11.25	11.23	11.03	11.09		0
	50	0	11.22	11.21	11.24	11.13	0-3	0
	50	25	11.26	11.23	11.24	11.08		0
	50	50	11.27	11.20	11.27	11.14		0
	100	0	11.25	11.22	11.18	11.09		0
256QAM	1	0	11.36	11.21	11.14	11.33	0-5	0
	1	50	11.32	11.17	11.09	11.32		0
	1	99	11.35	11.19	11.13	11.30		0
	50	0	11.32	11.24	11.11	11.24	0-5	0
	50	25	11.36	11.27	11.14	11.27		0
	50	50	11.31	11.23	11.16	11.29		0
	100	0	11.27	11.21	11.06	11.18		0

Table 8-48
LTE Band 48 Measured P_{limit} Antenna 4 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	10.32	10.14	10.28	10.05	0	0
	1	50	10.16	10.16	10.25	9.97		0
	1	99	10.21	10.22	10.22	9.97		0
	50	0	10.37	10.32	10.38	10.12	0-1	0
	50	25	10.38	10.41	10.37	10.05		0
	50	50	10.42	10.35	10.32	10.07		0
	100	0	10.28	10.10	10.12	10.03		0
16QAM	1	0	10.45	10.32	10.42	10.18	0-1	0
	1	50	10.40	10.29	10.31	10.12		0
	1	99	10.37	10.30	10.26	10.10		0
	50	0	10.51	10.42	10.45	10.19	0-2	0
	50	25	10.55	10.44	10.46	10.25		0
	50	50	10.47	10.37	10.41	10.26		0
	100	0	10.51	10.41	10.40	10.23		0
64QAM	1	0	10.27	10.20	10.33	10.24	0-2	0
	1	50	10.29	10.22	10.20	10.22		0
	1	99	10.28	10.23	10.15	10.25		0
	50	0	10.47	10.45	10.44	10.23	0-3	0
	50	25	10.49	10.50	10.46	10.24		0
	50	50	10.47	10.47	10.40	10.21		0
	100	0	10.50	10.46	10.47	10.18		0
256QAM	1	0	10.46	10.44	10.50	10.24	0-5	0
	1	50	10.48	10.47	10.36	10.22		0
	1	99	10.45	10.46	10.34	10.23		0
	50	0	10.53	10.45	10.44	10.18	0-5	0
	50	25	10.52	10.49	10.47	10.23		0
	50	50	10.51	10.45	10.38	10.24		0
	100	0	10.42	10.41	10.35	10.17		0

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8.2.14 LTE Uplink Carrier Aggregation Conducted Powers

Table 8-49
LTE Uplink Carrier Aggregation Measured P_{limit} – Antenna 1a

Combination	PCC								SCC						Power	
	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_48C	LTE B48	20	55340	3560.0	QPSK	100	0	LTE B48	20	55538	3579.8	QPSK	100	0	11.07	11.39

Table 8-50
LTE Uplink Carrier Aggregation Measured P_{limit} – Antenna 1b

Combination	PCC								SCC						Power					
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	50	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	50	50	11.22	11.31
CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	25	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	25	25	11.25	11.33
CA_7C	LTE B7	20	21100	2535.0	3100	2655.0	QPSK	50	0	LTE B7	20	20902	2515.2	2902	2635.2	QPSK	50	50	12.19	12.04
CA_41C	LTE B41	20	41490	2680	QPSK	100	0	LTE B41	20	41292	2660.2	QPSK	100	0	13.32	13.39				
CA_41C	LTE B41 PC2	20	41490	2680	QPSK	100	0	LTE B41 PC2	20	41292	2660.2	QPSK	100	0	15.18	14.83				

Table 8-51
LTE Uplink Carrier Aggregation Measured P_{limit} – Antenna 2

Combination	PCC								SCC						Power					
	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	25	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	12	13	16.89	16.41
CA_66C	LTE B66	20	132072	1720.0	66536	2120.0	QPSK	50	50	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	50	0	13.11	13.27
CA_66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	25	25	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	25	0	13.06	13.15
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	11.58	11.34
CA_41C	LTE B41	20	41490	2680.0	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	13.11	13.15				
CA_41C	LTE B41 PC2	20	41490	2680.0	QPSK	50	0	LTE B41 PC2	20	41292	2660.2	QPSK	50	50	14.92	14.92				
CA_48C	LTE B48	20	55773	3603.3	QPSK	50	50	LTE B48	20	55971	3623.1	QPSK	50	0	12.41	12.33				


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Table 8-52
LTE Uplink Carrier Aggregation Measured P_{limit} – Antenna 3a


Combination	PCC							SCC							Power	
	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_48C	LTE B48	20	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	11.16	11.47

Table 8-53
LTE Uplink Carrier Aggregation Measured P_{limit} – Antenna 3b

Combination	PCC							SCC							Power					
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132322	1745.0	66786	2145.0	QPSK	1	0	LTE B66	20	132124	1725.2	66588	2125.2	QPSK	1	99	11.80	11.69
CA_66B	LTE B66	10	132322	1745.0	66786	2145.0	QPSK	1	0	LTE B66	10	132223	1735.1	66687	2135.1	QPSK	1	49	11.61	11.65
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	13.59	13.52
CA_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	14.25	14.25				
CA_41C	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	15.96	15.92				

Table 8-54
LTE Uplink Carrier Aggregation Measured P_{limit} – Antenna 4

Combination	PCC							SCC							Power					
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	17.66	17.50
CA_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	50	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	50	50	13.11	13.47
CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	25	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	25	25	13.12	13.38
CA_7C	LTE B7	20	21100	2535.0	3100	2655.0	QPSK	1	99	LTE B7	20	21298	2554.8	3298	2674.8	QPSK	1	0	11.14	11.57
CA_41C	LTE B41	20	40620	2593.0	QPSK	1	0	LTE B41	20	40422	2573.2	QPSK	1	99	13.74	13.93				
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	1	0	LTE B41 PC2	20	40422	2573.2	QPSK	1	99	15.85	15.27				
CA_48C	LTE B48	20	55773	3603.3	QPSK	50	50	LTE B48	20	55971	3623.1	QPSK	50	0	10.93	10.35				


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Notes:

1. This device supports uplink carrier aggregation for LTE CA_7C, LTE CA_5B, LTE CA_66C, LTE CA_66B, LTE CA_41C and LTE CA_48C with a maximum of two component carriers. For intra-band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.



Figure 8-2
Power Measurement Setup

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8.3 NR Plimit Conducted Powers


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

8.3.1 NR Band n71

Table 8-55
NR Band n71 Measured P_{limit} Antenna 2 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.54	0	0.0
	1	53	17.35		0.0
	1	104	17.31		0.0
	50	0	17.44	0-0.5	0.0
	50	28	17.26	0	0.0
	50	56	17.24	0-0.5	0.0
	100	0	17.25		0.0
DFT-s-OFDM QPSK	1	1	17.42	0	0.0
	1	53	17.25		0.0
	1	104	17.10		0.0
	50	0	17.46	0-1	0.0
	50	28	17.28	0	0.0
	50	56	17.21	0-1	0.0
	100	0	17.27		0.0
DFT-s-OFDM 16QAM	1	1	17.42	0-1	0.0
CP-OFDM QPSK	1	1	17.33	0-1.5	0.0


Note: NR Band n71 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 8-56
NR Band n71 Measured P_{limit} Antenna 4 - 20 MHz Bandwidth**

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.40	0	0.0
	1	53	19.34		0.0
	1	104	19.30		0.0
	50	0	19.29	0-0.5	0.0
	50	28	19.25	0	0.0
	50	56	19.16	0-0.5	0.0
	100	0	19.26		0.0
DFT-s-OFDM QPSK	1	1	19.27	0	0.0
	1	53	19.23		0.0
	1	104	19.24		0.0
	50	0	19.30	0-1	0.0
	50	28	19.28	0	0.0
	50	56	19.26	0-1	0.0
	100	0	19.25		0.0
DFT-s-OFDM 16QAM	1	1	19.22	0-1	0.0
CP-OFDM QPSK	1	1	19.32	0-1.5	0.0

Note: NR Band n71 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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8.3.2

NR Band n12

Table 8-57
NR Band n12 Measured P_{limit} Antenna 2 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.12	0	0.0
	1	40	18.03		0.0
	1	77	17.89		0.0
	36	0	18.09	0-0.5	0.0
	36	22	17.93	0	0.0
	36	43	17.87	0-0.5	0.0
	75	0	18.01		0.0
DFT-s-OFDM QPSK	1	1	18.26	0	0.0
	1	40	18.11		0.0
	1	77	17.94		0.0
	36	0	18.12	0	0.0
	36	22	18.05	0	0.0
	36	43	17.95	0	0.0
	75	0	18.04		0.0
DFT-s-OFDM 16QAM	1	1	17.88	0-1	0.0
CP-OFDM QPSK	1	1	18.24	0	0.0


Note: NR Band n12 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 8-58
NR Band n12 Measured P_{limit} Antenna 4 - 15 MHz Bandwidth**

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.81	0	0.0
	1	40	17.64		0.0
	1	77	17.60		0.0
	36	0	17.47	0-0.5	0.0
	36	22	17.45	0	0.0
	36	43	17.48	0-0.5	0.0
	75	0	17.47		0.0
DFT-s-OFDM QPSK	1	1	17.74	0	0.0
	1	40	17.60		0.0
	1	77	17.57		0.0
	36	0	17.65	0-1	0.0
	36	22	17.52	0	0.0
	36	43	17.50	0-1	0.0
	75	0	17.56		0.0
DFT-s-OFDM 16QAM	1	1	17.59	0-1	0.0
CP-OFDM QPSK	1	1	17.63	0-1.5	0.0

Note: NR Band n12 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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8.3.3

NR Band n5

Table 8-59
NR Band n5 Measured P_{limit} Antenna 2 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.51	0	0.0
	1	53	17.38		0.0
	1	104	17.32		0.0
	50	0	17.43	0-0.5	0.0
	50	28	17.38	0	0.0
	50	56	17.26	0-0.5	0.0
	100	0	17.35		0.0
DFT-s-OFDM QPSK	1	1	17.46	0	0.0
	1	53	17.37		0.0
	1	104	17.27		0.0
	50	0	17.34	0-1	0.0
	50	28	17.33	0	0.0
	50	56	17.27	0-1	0.0
	100	0	17.29		0.0
DFT-s-OFDM 16QAM	1	1	17.46	0-1	0.0
CP-OFDM QPSK	1	1	17.29	0-1.5	0.0


Note: NR Band n5 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 8-60
NR Band n5 Measured P_{limit} Antenna 4 - 20 MHz Bandwidth**

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.43	0	0.0
	1	53	17.36		0.0
	1	104	17.24		0.0
	50	0	17.37	0-0.5	0.0
	50	28	17.32	0	0.0
	50	56	17.30	0-0.5	0.0
	100	0	17.35		0.0
DFT-s-OFDM QPSK	1	1	17.34	0	0.0
	1	53	17.40		0.0
	1	104	17.32		0.0
	50	0	17.44	0-1	0.0
	50	28	17.34	0	0.0
	50	56	17.23	0-1	0.0
	100	0	17.39		0.0
DFT-s-OFDM 16QAM	1	1	17.31	0-1	0.0
CP-OFDM QPSK	1	1	17.60	0-1.5	0.0

Note: NR Band n5 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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8.3.4

NR Band n66

Table 8-61
NR Band n66 Measured P_{limit} Antenna 1b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.24	0	0.0
	1	108	11.17		0.0
	1	214	11.11		0.0
	108	0	11.26	0-0.5	0.0
	108	54	11.17	0	0.0
	108	108	11.15	0-0.5	0.0
	216	0	11.19		0.0
DFT-s-OFDM QPSK	1	1	11.37	0	0.0
	1	108	11.25		0.0
	1	214	11.20		0.0
	108	0	11.27	0-1	0.0
	108	54	11.16	0	0.0
	108	108	11.20	0-1	0.0
	216	0	11.18		0.0
DFT-s-OFDM 16QAM	1	1	11.40	0-1	0.0
CP-OFDM QPSK	1	1	11.37	0-1.5	0.0

Note: NR Band n66 at 40 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 8-62
NR Band n66 Measured P_{limit} Antenna 2 - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	13.11	0	0.0
	1	108	12.97		0.0
	1	214	12.95		0.0
	108	0	13.12	0-0.5	0.0
	108	54	12.99	0	0.0
	108	108	12.98	0-0.5	0.0
	216	0	13.06		0.0
DFT-s-OFDM QPSK	1	1	13.16	0	0.0
	1	108	13.09		0.0
	1	214	13.05		0.0
	108	0	13.17	0-1	0.0
	108	54	13.08	0	0.0
	108	108	13.04	0-1	0.0
	216	0	13.06		0.0
DFT-s-OFDM 16QAM	1	1	13.33	0-1	0.0
CP-OFDM QPSK	1	1	13.15	0-1.5	0.0


Note: NR Band n66 at 40 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 8-63
NR Band n66 Measured P_{limit} Antenna 3b - 40 MHz Bandwidth**

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.83	0	0.0
	1	108	11.72		0.0
	1	214	11.75		0.0
	108	0	11.90	0-0.5	0.0
	108	54	11.71	0	0.0
	108	108	11.74	0-0.5	0.0
	216	0	11.78		0.0
DFT-s-OFDM QPSK	1	1	11.84	0	0.0
	1	108	11.74		0.0
	1	214	11.72		0.0
	108	0	11.89	0-1	0.0
	108	54	11.71	0	0.0
	108	108	11.80	0-1	0.0
	216	0	11.79		0.0
DFT-s-OFDM 16QAM	1	1	12.00	0-1	0.0
CP-OFDM QPSK	1	1	11.79	0-1.5	0.0


Note: NR Band n66 at 40 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 8-64
NR Band n66 Measured P_{limit} Antenna 4 - 40 MHz Bandwidth**

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	13.45	0	0.0
	1	108	13.39		0.0
	1	214	13.36		0.0
	108	0	13.49	0-0.5	0.0
	108	54	13.37	0	0.0
	108	108	13.35	0-0.5	0.0
	216	0	13.41		0.0
DFT-s-OFDM QPSK	1	1	13.50	0	0.0
	1	108	13.41		0.0
	1	214	13.29		0.0
	108	0	13.52	0-1	0.0
	108	54	13.42	0	0.0
	108	108	13.37	0-1	0.0
	216	0	13.44		0.0
DFT-s-OFDM 16QAM	1	1	13.50	0-1	0.0
CP-OFDM QPSK	1	1	13.50	0-1.5	0.0

Note: NR Band n66 at 40 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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NR Band n25

Table 8-65
NR Band n25 Measured P_{limit} Antenna 1b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	10.80	0	0.0
	1	108	10.62		0.0
	1	214	10.72		0.0
	108	0	10.67	0-0.5	0.0
	108	54	10.64	0	0.0
	108	108	10.72	0-0.5	0.0
	216	0	10.70		0.0
DFT-s-OFDM QPSK	1	1	11.08	0	0.0
	1	108	10.68		0.0
	1	214	10.71		0.0
	108	0	10.69	0-1	0.0
	108	54	10.60	0	0.0
	108	108	10.60	0-1	0.0
	216	0	10.64		0.0
DFT-s-OFDM 16QAM	1	1	11.11	0-1	0.0
CP-OFDM QPSK	1	1	10.92	0-1.5	0.0

Note: NR Band n25 at 40 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 8-66
NR Band n25 Measured P_{limit} Antenna 2 – 40 MHz Bandwidth**

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	12.90	0	0.0
	1	108	12.56		0.0
	1	214	12.90		0.0
	108	0	12.72	0-0.5	0.0
	108	54	12.68	0	0.0
	108	108	12.81	0-0.5	0.0
	216	0	12.72		0.0
DFT-s-OFDM QPSK	1	1	12.96	0	0.0
	1	108	12.63		0.0
	1	214	12.91		0.0
	108	0	12.71	0-1	0.0
	108	54	12.66	0	0.0
	108	108	12.86	0-1	0.0
	216	0	12.75		0.0
DFT-s-OFDM 16QAM	1	1	12.75	0-1	0.0
CP-OFDM QPSK	1	1	12.98	0-1.5	0.0

Note: NR Band n25 at 40 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 8-67
NR Band n25 Measured P_{limit} Antenna 3b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.25	0	0.0
	1	108	11.00		0.0
	1	214	10.60		0.0
	108	0	11.13	0-0.5	0.0
	108	54	11.10	0	0.0
	108	108	11.16	0-0.5	0.0
	216	0	11.12		0.0
DFT-s-OFDM QPSK	1	1	11.28	0	0.0
	1	108	11.17		0.0
	1	214	10.64		0.0
	108	0	11.20	0-1	0.0
	108	54	11.10	0	0.0
	108	108	11.15	0-1	0.0
	216	0	11.14		0.0
DFT-s-OFDM 16QAM	1	1	11.08	0-1	0.0
CP-OFDM QPSK	1	1	11.29	0-1.5	0.0


Note: NR Band n25 at 40 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 8-68
NR Band n25 Measured P_{limit} Antenna 4 - 40 MHz Bandwidth**

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	13.05	0	0.0
	1	108	12.85		0.0
	1	214	13.08		0.0
	108	0	13.01	0-0.5	0.0
	108	54	12.80	0	0.0
	108	108	12.91	0-0.5	0.0
	216	0	12.99		0.0
DFT-s-OFDM QPSK	1	1	13.24	0	0.0
	1	108	13.08		0.0
	1	214	13.16		0.0
	108	0	13.16	0-1	0.0
	108	54	13.08	0	0.0
	108	108	13.13	0-1	0.0
	216	0	13.12		0.0
DFT-s-OFDM 16QAM	1	1	13.12	0-1	0.0
CP-OFDM QPSK	1	1	13.20	0-1.5	0.0

Note: NR Band n25 at 40 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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NR Band n30

Table 8-69
NR Band n30 Measured P_{limit} Antenna 1b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.93	0	0.0
	1	26	11.92		0.0
	1	50	11.87		0.0
	25	0	11.81	0-0.5	0.0
	25	14	11.78	0	0.0
	25	27	11.81	0-0.5	0.0
	50	0	11.83		0.0
DFT-s-OFDM QPSK	1	1	11.82	0	0.0
	1	26	11.76		0.0
	1	50	11.86		0.0
	25	0	11.77	0-1	0.0
	25	14	11.82	0	0.0
	25	27	11.87	0-1	0.0
	50	0	11.78		0.0
DFT-s-OFDM 16QAM	1	1	11.53	0-1	0.0
CP-OFDM QPSK	1	1	11.81	0-1.5	0.0



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Table 8-70
NR Band n30 Measured P_{limit} Antenna 2 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	12.23	0	0.0
	1	26	12.10		0.0
	1	50	12.21		0.0
	25	0	12.22	0-0.5	0.0
	25	14	12.16	0	0.0
	25	27	12.14	0-0.5	0.0
	50	0	12.13		0.0
DFT-s-OFDM QPSK	1	1	12.32	0	0.0
	1	26	12.15		0.0
	1	50	12.18		0.0
	25	0	12.14	0-1	0.0
	25	14	12.25	0	0.0
	25	27	12.16	0-1	0.0
	50	0	12.22		0.0
DFT-s-OFDM 16QAM	1	1	11.80	0-1	0.0
CP-OFDM QPSK	1	1	12.27	0-1.5	0.0

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**Table 8-71
NR Band n30 Measured P_{limit} Antenna 3b - 10 MHz Bandwidth**

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	13.43	0	0.0
	1	26	13.47		0.0
	1	50	13.39		0.0
	25	0	13.39	0-0.5	0.0
	25	14	13.37	0	0.0
	25	27	13.39	0-0.5	0.0
	50	0	13.31		0.0
DFT-s-OFDM QPSK	1	1	13.35	0	0.0
	1	26	13.33		0.0
	1	50	13.42		0.0
	25	0	13.37	0-1	0.0
	25	14	13.35	0	0.0
	25	27	13.41	0-1	0.0
	50	0	13.36		0.0
DFT-s-OFDM 16QAM	1	1	13.45	0-1	0.0
CP-OFDM QPSK	1	1	13.51	0-1.5	0.0



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Table 8-72
NR Band n30 Measured P_{limit} Antenna 4 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	13.13	0	0.0
	1	26	13.27		0.0
	1	50	13.21		0.0
	25	0	13.24	0-0.5	0.0
	25	14	13.25	0	0.0
	25	27	13.29	0-0.5	0.0
	50	0	13.28		0.0
DFT-s-OFDM QPSK	1	1	13.24	0	0.0
	1	26	13.34		0.0
	1	50	13.31		0.0
	25	0	13.21	0-1	0.0
	25	14	13.30	0	0.0
	25	27	13.23	0-1	0.0
	50	0	13.22		0.0
DFT-s-OFDM 16QAM	1	1	13.02	0-1	0.0
CP-OFDM QPSK	1	1	13.18	0-1.5	0.0

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NR Band n7

Table 8-73
NR Band n7 Measured P_{limit} Antenna 1b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.98	0	0.0
	1	108	12.02		0.0
	1	214	11.94		0.0
	108	0	12.03	0-0.5	0.0
	108	54	11.99	0	0.0
	108	108	12.09	0-0.5	0.0
	216	0	12.02		0.0
DFT-s-OFDM QPSK	1	1	12.01	0	0.0
	1	108	12.09		0.0
	1	214	11.95		0.0
	108	0	12.00	0-1	0.0
	108	54	12.07	0	0.0
	108	108	12.11	0-1	0.0
	216	0	12.06		0.0
DFT-s-OFDM 16QAM	1	1	12.00	0-1	0.0
CP-OFDM QPSK	1	1	11.92	0-1.5	0.0

Note: NR Band n7 at 40 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 8-74
NR Band n7 Measured P_{limit} Antenna 2 - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.28	0	0.0
	1	108	11.28		0.0
	1	214	11.35		0.0
	108	0	11.31	0-0.5	0.0
	108	54	11.22	0	0.0
	108	108	11.32	0-0.5	0.0
	216	0	11.20		0.0
DFT-s-OFDM QPSK	1	1	11.42	0	0.0
	1	108	11.33		0.0
	1	214	11.40		0.0
	108	0	11.23	0-1	0.0
	108	54	11.19	0	0.0
	108	108	11.28	0-1	0.0
	216	0	11.25		0.0
DFT-s-OFDM 16QAM	1	1	11.35	0-1	0.0
CP-OFDM QPSK	1	1	11.39	0-1.5	0.0

Note: NR Band n7 at 40 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 8-75
NR Band n7 Measured P_{limit} Antenna 3b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	13.38	0	0.0
	1	108	13.41		0.0
	1	214	13.24		0.0
	108	0	13.43	0-0.5	0.0
	108	54	13.35	0	0.0
	108	108	13.30	0-0.5	0.0
	216	0	13.40		0.0
DFT-s-OFDM QPSK	1	1	13.35	0	0.0
	1	108	13.39		0.0
	1	214	13.20		0.0
	108	0	13.36	0-1	0.0
	108	54	13.37	0	0.0
	108	108	13.27	0-1	0.0
	216	0	13.36		0.0
DFT-s-OFDM 16QAM	1	1	13.37	0-1	0.0
CP-OFDM QPSK	1	1	13.38	0-1.5	0.0


Note: NR n7 at 40 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 8-76
NR Band n7 Measured P_{limit} Antenna 4 - 40 MHz Bandwidth**

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.80	0	0.0
	1	108	11.74		0.0
	1	214	11.81		0.0
	108	0	11.85	0-0.5	0.0
	108	54	11.75	0	0.0
	108	108	11.71	0-0.5	0.0
	216	0	11.79		0.0
DFT-s-OFDM QPSK	1	1	11.88	0	0.0
	1	108	11.81		0.0
	1	214	11.89		0.0
	108	0	11.87	0-1	0.0
	108	54	11.81	0	0.0
	108	108	11.77	0-1	0.0
	216	0	11.80		0.0
DFT-s-OFDM 16QAM	1	1	11.92	0-1	0.0
CP-OFDM QPSK	1	1	11.67	0-1.5	0.0

Note: NR n7 at 40 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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NR Band n41 PC2

Table 8-77
NR Band n41 PC2 Measured P_{limit} Antenna 1b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.41	0	0.0
	1	137	11.35		0.0
	1	271	11.30		0.0
	135	0	11.34	0-0.5	0.0
	135	69	11.32	0	0.0
	135	138	11.35	0-0.5	0.0
	270	0	11.37		0.0
DFT-s-OFDM QPSK	1	1	11.40	0	0.0
	1	137	11.41		0.0
	1	271	11.30		0.0
	135	0	11.29	0-1	0.0
	135	69	11.26	0	0.0
	135	138	11.31	0-1	0.0
	270	0	11.30		0.0
DFT-s-OFDM 16QAM	1	1	11.60	0-1	0.0
CP-OFDM QPSK	1	1	11.34	0-1.5	0.0

Note: NR n41 PC2 at 100 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 8-78
NR Band n41 PC2 Measured P_{limit} Antenna 2 - 100 MHz Bandwidth**

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	10.92	0	0.0
	1	137	11.20		0.0
	1	271	10.94		0.0
	135	0	11.22	0-0.5	0.0
	135	69	11.16	0	0.0
	135	138	11.02	0-0.5	0.0
	270	0	11.10		0.0
DFT-s-OFDM QPSK	1	1	11.30	0	0.0
	1	137	11.56		0.0
	1	271	11.31		0.0
	135	0	11.49	0-1	0.0
	135	69	11.60	0	0.0
	135	138	11.35	0-1	0.0
	270	0	11.54		0.0
DFT-s-OFDM 16QAM	1	1	11.20	0-1	0.0
CP-OFDM QPSK	1	1	11.61	0-1.5	

Note: NR n41 PC2 at 100 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 8-79
NR Band n41 PC2 Measured P_{limit} Antenna 3b - 100 MHz Bandwidth
NR Band n41
100 MHz Bandwidth

Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	13.56	0	0.0
	1	137	13.51		0.0
	1	271	13.35		0.0
	135	0	13.51	0-0.5	0.0
	135	69	13.48	0	0.0
	135	138	13.41	0-0.5	0.0
	270	0	13.53		0.0
DFT-s-OFDM QPSK	1	1	13.50	0	0.0
	1	137	13.77		0.0
	1	271	13.55		0.0
	135	0	13.58	0-1	0.0
	135	69	13.63	0	0.0
	135	138	13.50	0-1	0.0
	270	0	13.60		0.0
DFT-s-OFDM 16QAM	1	1	13.42	0-1	0.0
CP-OFDM QPSK	1	1	13.60	0-1.5	0.0

Note: NR n41 PC2 at 100 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 8-80
NR n41 Band PC2 Measured P_{limit} Antenna 4 - 100 MHz Bandwidth
NR Band n41
100 MHz Bandwidth

Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.34	0	0.0
	1	137	11.59		0.0
	1	271	11.23		0.0
	135	0	11.44	0-0.5	0.0
	135	69	11.48	0	0.0
	135	138	11.32	0-0.5	0.0
	270	0	11.38		0.0
DFT-s-OFDM QPSK	1	1	11.32	0	0.0
	1	137	11.51		0.0
	1	271	11.30		0.0
	135	0	11.36	0-1	0.0
	135	69	11.40	0	0.0
	135	138	11.26	0-1	0.0
	270	0	11.20		0.0
DFT-s-OFDM 16QAM	1	1	11.42	0-1	0.0
CP-OFDM QPSK	1	1	11.38	0-1.5	0.0

Note: NR n41 PC2 at 100 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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NR Band n77 DoD PC2

Table 8-81
NR Band n77 DoD PC2 Measured P_{limit} Antenna 1a - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	9.47	0	0.0
	1	137	9.46		0.0
	1	271	9.44		0.0
	135	0	9.48	0-0.5	0.0
	135	69	9.56	0	0.0
	135	138	9.51	0-0.5	0.0
	270	0	9.52		0.0
DFT-s-OFDM QPSK	1	1	9.40	0	0.0
	1	137	9.47		0.0
	1	271	9.49		0.0
	135	0	9.45	0-1	0.0
	135	69	9.51	0	0.0
	135	138	9.53	0-1	0.0
	270	0	9.48		0.0
DFT-s-OFDM 16QAM	1	1	9.54	0-1	0.0
CP-OFDM QPSK	1	1	9.37	0-1.5	0.0

Note: NR n77 DoD PC2 at 100 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 8-82
NR Band n77 DoD PC2 Measured P_{limit} Antenna 2 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	10.53	0	0.0
	1	137	10.62		0.0
	1	271	10.66		0.0
	135	0	10.45	0-0.5	0.0
	135	69	10.50	0	0.0
	135	138	10.45	0-0.5	0.0
	270	0	10.52		0.0
DFT-s-OFDM QPSK	1	1	10.62	0	0.0
	1	137	10.65		0.0
	1	271	10.63		0.0
	135	0	10.61	0-1	0.0
	135	69	10.75	0	0.0
	135	138	10.69	0-1	0.0
	270	0	10.60		0.0
DFT-s-OFDM 16QAM	1	1	10.67	0-1	0.0
CP-OFDM QPSK	1	1	10.68	0-1.5	0.0

Note: NR n77 DoD PC2 at 100 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 8-83
NR Band n77 DoD PC2 Measured P_{limit} Antenna 3a - 100 MHz Bandwidth
NR Band n77
100 MHz Bandwidth

Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	9.90	0	0.0
	1	137	10.15		0.0
	1	271	10.04		0.0
	135	0	9.98	0-0.5	0.0
	135	69	10.04	0	0.0
	135	138	10.08	0-0.5	0.0
	270	0	9.96		0.0
DFT-s-OFDM QPSK	1	1	9.81	0	0.0
	1	137	10.01		0.0
	1	271	9.99		0.0
	135	0	9.96	0-1	0.0
	135	69	10.06	0	0.0
	135	138	10.08	0-1	0.0
	270	0	10.00		0.0
DFT-s-OFDM 16QAM	1	1	10.11	0-1	0.0
CP-OFDM QPSK	1	1	9.95	0-1.5	0.0


Note: NR n77 DoD PC2 at 100 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 8-84
NR Band n77 DoD PC2 Measured P_{limit} Antenna 4 - 100 MHz Bandwidth**

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	10.25	0	0.0
	1	137	10.14		0.0
	1	271	10.32		0.0
	135	0	10.09	0-0.5	0.0
	135	69	10.13	0	0.0
	135	138	10.23	0-0.5	0.0
	270	0	10.22		0.0
DFT-s-OFDM QPSK	1	1	10.53	0	0.0
	1	137	10.66		0.0
	1	271	10.73		0.0
	135	0	10.51	0-1	0.0
	135	69	10.56	0	0.0
	135	138	10.60	0-1	0.0
	270	0	10.58		0.0
DFT-s-OFDM 16QAM	1	1	10.64	0-1	0.0
CP-OFDM QPSK	1	1	10.74	0-1.5	0.0

Note: NR n77 DoD PC2 at 100 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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NR Band n77 C PC2

Table 8-85
NR Band n77 C PC2 Measured P_{limit} Antenna 1a - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	10.15	10.30	0	0.0
	1	137	10.37	10.22		0.0
	1	271	10.25	10.30		0.0
	135	0	10.30	10.07	0-0.5	0.0
	135	69	10.26	10.10	0	0.0
	135	138	10.16	10.22	0-0.5	0.0
	270	0	10.24	10.15		0.0
DFT-s-OFDM QPSK	1	1	10.28	10.31	0	0.0
	1	137	10.25	10.12		0.0
	1	271	10.21	10.29		0.0
	135	0	10.30	10.31	0-1	0.0
	135	69	10.22	10.02	0	0.0
	135	138	10.16	10.05	0-1	0.0
	270	0	10.30	10.12		0.0
DFT-s-OFDM 16QAM	1	1	10.19	10.26	0-1	0.0
CP-OFDM QPSK	1	1	10.01	10.30	0-1.5	0.0

Table 8-86
NR Band n77 C PC2 Measured P_{limit} Antenna 2 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	9.82	9.57	0	0.0
	1	137	10.00	9.54		0.0
	1	271	9.70	9.61		0.0
	135	0	9.80	9.50	0-0.5	0.0
	135	69	9.85	9.56	0	0.0
	135	138	9.73	9.58	0-0.5	0.0
	270	0	9.82	9.55		0.0
DFT-s-OFDM QPSK	1	1	9.95	9.60	0	0.0
	1	137	9.93	9.64		0.0
	1	271	9.85	9.61		0.0
	135	0	10.00	9.63	0-1	0.0
	135	69	9.98	9.61	0	0.0
	135	138	9.73	9.64	0-1	0.0
	270	0	9.90	9.66		0.0
DFT-s-OFDM 16QAM	1	1	9.92	9.62	0-1	0.0
CP-OFDM QPSK	1	1	9.99	9.97	0-1.5	0.0



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Table 8-87
NR Band n77 C PC2 Measured P_{limit} Antenna 3a - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	10.75	10.76	0	0.0
	1	137	10.93	10.56		0.0
	1	271	10.74	10.60		0.0
	135	0	10.83	10.26	0-0.5	0.0
	135	69	10.87	10.40	0	0.0
	135	138	10.71	10.60	0-0.5	0.0
	270	0	10.85	10.52		0.0
DFT-s-OFDM QPSK	1	1	10.82	10.72	0	0.0
	1	137	10.81	10.65		0.0
	1	271	10.74	10.66		0.0
	135	0	10.89	10.40	0-1	0.0
	135	69	10.85	10.62	0	0.0
	135	138	10.70	10.77	0-1	0.0
	270	0	10.81	10.52		0.0
DFT-s-OFDM 16QAM	1	1	10.45	10.72	0-1	0.0
CP-OFDM QPSK	1	1	10.75	10.70	0-1.5	0.0

Table 8-88
NR Band n77 C PC2 Measured P_{limit} Antenna 4 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	10.71	11.04	0	0.0
	1	137	11.14	11.12		0.0
	1	271	11.28	11.15		0.0
	135	0	10.91	11.06	0-0.5	0.0
	135	69	11.26	11.01	0	0.0
	135	138	11.36	10.98	0-0.5	0.0
	270	0	11.21	10.99		0.0
DFT-s-OFDM QPSK	1	1	10.49	10.80	0	0.0
	1	137	10.86	10.71		0.0
	1	271	11.03	10.84		0.0
	135	0	10.67	10.82	0-1	0.0
	135	69	10.84	10.81	0	0.0
	135	138	11.04	10.85	0-1	0.0
	270	0	10.82	10.79		0.0
DFT-s-OFDM 16QAM	1	1	10.58	10.62	0-1	0.0
CP-OFDM QPSK	1	1	10.47	10.41	0-1.5	0.0

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8.4 WLAN Maximum Time-Averaged Conducted Powers

Table 8-89
2.4 GHz WLAN Maximum Average RF Power – Antenna 1a, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412.00	1	11.09	11.23	11.39	11.32
2437.00	6	11.23	11.40	11.37	11.20
2462.00	11	11.22	11.31	11.28	11.23

Table 8-90
2.4 GHz WLAN Maximum Average RF Power – Antenna 1a, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	10.97	11.30	11.32	11.33
2437	6	11.02	11.28	11.30	11.29
2462	11	10.99	11.14	11.11	11.21

Table 8-91
2.4 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412.00	1	10.38	10.55	10.60	10.57
2437.00	6	10.37	10.62	10.45	10.55
2462.00	11	10.50	10.45	10.47	10.53

Table 8-92
2.4 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	10.33	10.60	10.61	10.45
2437	6	10.38	10.65	10.60	10.60
2462	11	10.54	10.43	10.40	10.63


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Table 8-93
5 GHz WLAN Maximum Average RF Power – Antenna 5T, Variant 1

5GHz (40MHz) Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11n	802.11ac	802.11ax (SU)
		Average	Average	Average
5190	38	13.45	14.27	12.93
5230	46	14.33	14.40	14.50
5270	54	13.71	13.64	13.74
5310	62	13.67	13.68	13.72

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5530	106	13.63	13.23
5610	122	13.83	13.30
5690	138	13.65	13.24
5775	155	14.45	13.73

Table 8-94
5 GHz WLAN Maximum Average RF Power – Antenna 5T, Variant 2

5GHz (40MHz) Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11n	802.11ac	802.11ax (SU)
		Average	Average	Average
5190	38	13.54	14.21	13.09
5230	46	14.50	14.60	14.44
5270	54	13.77	13.76	13.69
5310	62	13.72	13.71	13.76

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5530	106	13.35	13.33
5610	122	13.50	13.28
5690	138	13.30	13.36
5775	155	14.52	13.70


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Table 8-95
5 GHz WLAN Maximum Average RF Power – Antenna 3b, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	10.30	9.70
5290	58	10.30	10.09
5530	106	10.41	9.90
5610	122	10.48	10.00
5690	138	10.47	9.93
5775	155	10.41	10.28

Table 8-96
5 GHz WLAN Maximum Average RF Power – Antenna 3b, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	10.07	9.79
5290	58	10.28	10.04
5530	106	10.35	9.97
5610	122	10.47	10.07
5690	138	10.40	10.03
5775	155	10.45	10.31



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Table 8-97
5 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	8.30	8.24
5290	58	8.86	8.70
5530	106	8.82	8.67
5610	122	8.87	8.81
5690	138	8.84	8.87
5775	155	9.76	9.70

Table 8-98
5 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	8.36	8.30
5290	58	8.85	8.67
5530	106	8.96	8.85
5610	122	8.84	8.82
5690	138	8.76	8.83
5775	155	9.72	9.73

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8.5 WLAN Reduced Time-Averaged Conducted Powers

Table 8-99
2.4 GHz WLAN 3dB Reduced Average RF Power – Antenna 1a, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	8.30	8.20	8.19	8.20
2437	6	8.25	8.21	8.32	8.29
2462	11	8.22	8.28	8.20	8.21

Table 8-100
2.4 GHz WLAN 3dB Reduced Average RF Power – Antenna 1a, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	8.30	8.35	8.30	8.30
2437	6	8.40	8.28	8.22	8.26
2462	11	8.26	8.23	8.26	8.25

Table 8-101
2.4 GHz WLAN 3dB Reduced Average RF Power – Antenna 3a, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	7.47	7.37	7.66	7.58
2437	6	7.48	7.59	7.57	7.48
2462	11	7.58	7.53	7.44	7.57

Table 8-102
2.4 GHz WLAN 3dB Reduced Average RF Power – Antenna 3a, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	7.56	7.46	7.45	7.44
2437	6	7.61	7.60	7.56	7.49
2462	11	7.53	7.44	7.62	7.45



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Table 8-103
5 GHz WLAN 4dB Reduced Average RF Power – Antenna 5T, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	10.65	9.06
5290	58	9.77	9.18
5530	106	9.28	9.23
5610	122	9.18	9.22
5690	138	9.15	9.26
5775	155	9.78	9.75

Table 8-104
5 GHz WLAN 4dB Reduced Average RF Power – Antenna 5T, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	10.59	9.05
5290	58	9.64	9.06
5530	106	9.26	9.38
5610	122	9.30	9.20
5690	138	9.21	9.15
5775	155	9.67	9.62


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Table 8-105
5 GHz WLAN 4dB Reduced Average RF Power – Antenna 3b, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	5.73	5.68
5290	58	6.21	6.10
5530	106	6.03	5.98
5610	122	6.07	6.12
5690	138	6.11	6.11
5775	155	6.60	6.20

Table 8-106
5 GHz WLAN 4dB Reduced Average RF Power – Antenna 3b, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	5.92	5.63
5290	58	6.32	6.00
5530	106	6.10	6.03
5610	122	6.07	6.14
5690	138	6.20	6.09
5775	155	6.26	6.35


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Table 8-107
5 GHz WLAN 4dB Reduced Average RF Power – Antenna 1b, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	4.25	4.20
5290	58	4.72	4.73
5530	106	4.75	4.78
5610	122	4.85	4.79
5690	138	4.80	4.70
5775	155	5.74	5.86

Table 8-108
5 GHz WLAN 4dB Reduced Average RF Power – Antenna 1b, Variant 2


5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	4.35	4.20
5290	58	4.70	4.32
5530	106	4.77	4.76
5610	122	4.70	4.71
5690	138	4.82	4.73
5775	155	5.63	5.70

8.6 WLAN Power Reduction Verification Summary

Table 8-109
WLAN Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Target Power	Reduced Target Power	Maximum	Reduced	Verdict	
					[dBm]	[dBm]	Measured Power	Measured Power		
					(Tolerance [dB])	(Tolerance [dB])	[dBm]	[dBm]		
Ant 3A	2.4 GHz WLAN	Main Band 3A ON	11.50	8.50	10.00 (+1.5/-1.5)	7.00 (+1.5/-1.5)	10.75	7.74	PASS	
	2.4 GHz WLAN	Main Band 3B ON	11.50	8.50	10.00 (+1.5/-1.5)	7.00 (+1.5/-1.5)	10.75	8.02	PASS	
	2.4 GHz WLAN	ULCA ON	11.50	8.50	10.00 (+1.5/-1.5)	7.00 (+1.5/-1.5)	10.75	8.27	PASS	
Ant 1A	2.4 GHz WLAN	Main Band 1A ON	12.25	9.25	10.75 (+1.5/-1.5)	7.75 (+1.5/-1.5)	11.10	8.90	PASS	
	2.4 GHz WLAN	Main Band 1B ON	12.25	9.25	10.75 (+1.5/-1.5)	7.75 (+1.5/-1.5)	11.10	8.75	PASS	
	2.4 GHz WLAN	ULCA ON	12.25	9.25	10.75 (+1.5/-1.5)	7.75 (+1.5/-1.5)	11.10	9.15	PASS	
Ant 3B	5 GHz WLAN	Main Band Ant 4 ON	11.25	7.25	9.75 (+1.5/-1.5)	5.75 (+1.5/-1.5)	10.11	6.71	PASS	
	5 GHz WLAN	Main Band Ant 3A ON	11.25	7.25	9.75 (+1.5/-1.5)	5.75 (+1.5/-1.5)	10.11	6.10	PASS	
	5 GHz WLAN	Main Band Ant 3B ON	11.25	7.25	9.75 (+1.5/-1.5)	5.75 (+1.5/-1.5)	10.11	6.05	PASS	
Ant 5T	5 GHz WLAN	ULCA ON	11.25	7.25	9.75 (+1.5/-1.5)	5.75 (+1.5/-1.5)	10.11	6.21	PASS	
	5 GHz WLAN	Main Band Ant 3A ON	15.50	11.50	14.00 (+1.5/-1.5)	10.00 (+1.5/-1.5)	13.62	9.98	PASS	
	5 GHz WLAN	ULCA ON	15.50	11.50	14.00 (+1.5/-1.5)	10.00 (+1.5/-1.5)	13.62	9.24	PASS	
Ant 1B	5 GHz WLAN	Main Band Ant 1B	10.75	6.75	9.25 (+1.5/-1.5)	5.25 (+1.5/-1.5)	10.12	5.50	PASS	
	5 GHz WLAN	Main Band Ant 2 ON	10.75	6.75	9.25 (+1.5/-1.5)	5.25 (+1.5/-1.5)	10.12	6.30	PASS	
	5 GHz WLAN	Main Band Ant 1A ON	10.75	6.75	9.25 (+1.5/-1.5)	5.25 (+1.5/-1.5)	10.12	6.32	PASS	
	5 GHz WLAN	ULCA ON	10.75	6.75	9.25 (+1.5/-1.5)	5.25 (+1.5/-1.5)	10.12	6.02	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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8.7 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.

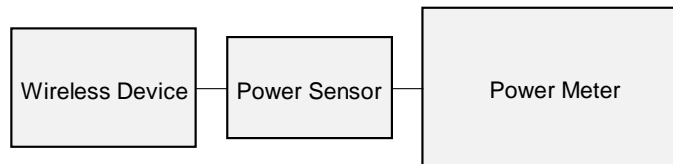


Figure 8-3
Power Measurement Setup

8.8 Bluetooth Maximum Conducted Powers

Table 8-110
Bluetooth Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.40	13.804
2441	GFSK	1.0	39	11.38	13.740
2480	GFSK	1.0	78	11.37	13.709


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Table 8-111
Bluetooth Average RF Power – Antenna 1a, Variant 2


Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.56	14.322
2441	GFSK	1.0	39	11.77	15.031
2480	GFSK	1.0	78	11.58	14.388

Table 8-112
Bluetooth Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.71	14.825
2441	GFSK	1.0	39	11.99	15.812
2480	GFSK	1.0	78	12.01	15.885

Table 8-113
Bluetooth Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.30	16.982
2441	GFSK	1.0	39	12.13	16.331
2480	GFSK	1.0	78	12.21	16.634

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8.9 Bluetooth Reduced Conducted Powers

Table 8-114
Bluetooth 3dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	9.18	8.279
2441	GFSK	1.0	39	8.91	7.780
2480	GFSK	1.0	78	8.93	7.816

Table 8-115
Bluetooth 3dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	9.05	8.035
2441	GFSK	1.0	39	9.15	8.222
2480	GFSK	1.0	78	8.90	7.762

Table 8-116
Bluetooth 5dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.96	4.966
2441	GFSK	1.0	39	7.25	5.309
2480	GFSK	1.0	78	6.91	4.909



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Table 8-117
Bluetooth 5dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.20	5.248
2441	GFSK	1.0	39	7.09	5.117
2480	GFSK	1.0	78	6.95	4.955

Table 8-118
Bluetooth 7dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.35	3.428
2441	GFSK	1.0	39	5.01	3.170
2480	GFSK	1.0	78	5.30	3.388

Table 8-119
Bluetooth 7dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.50	3.548
2441	GFSK	1.0	39	5.03	3.184
2480	GFSK	1.0	78	4.91	3.097


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Table 8-120
Bluetooth 3dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	9.18	8.279
2441	GFSK	1.0	39	9.09	8.110
2480	GFSK	1.0	78	9.07	8.072

Table 8-121
Bluetooth 3dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	9.18	8.279
2441	GFSK	1.0	39	9.14	8.204
2480	GFSK	1.0	78	9.10	8.128

Table 8-122
Bluetooth 5.5dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.04	5.058
2441	GFSK	1.0	39	6.93	4.932
2480	GFSK	1.0	78	7.10	5.129


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Table 8-123
Bluetooth 5.5dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.08	5.105
2441	GFSK	1.0	39	7.20	5.248
2480	GFSK	1.0	78	7.02	5.035

Table 8-124
Bluetooth 6dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.09	4.064
2441	GFSK	1.0	39	5.93	3.917
2480	GFSK	1.0	78	6.19	4.159

Table 8-125
Bluetooth 6dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.05	4.027
2441	GFSK	1.0	39	6.14	4.111
2480	GFSK	1.0	78	6.27	4.236



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Table 8-126
Bluetooth 7dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.07	3.214
2441	GFSK	1.0	39	5.01	3.170
2480	GFSK	1.0	78	4.92	3.105

Table 8-127
Bluetooth 7dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.07	3.214
2441	GFSK	1.0	39	5.37	3.443
2480	GFSK	1.0	78	5.30	3.388

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8.10 Bluetooth Duty Cycle Plots

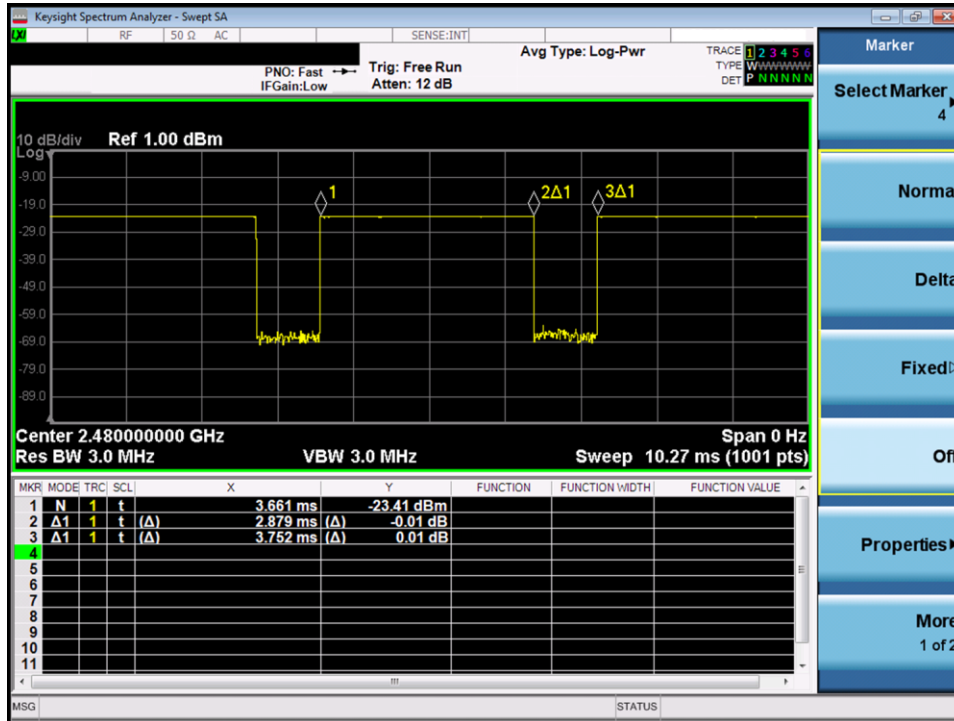




Figure 8-4
Bluetooth Transmission Plot – Antenna 1a, Variant 1

Equation 8-1
Bluetooth Duty Cycle Calculation – Antenna 1a, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.879\text{ms}}{3.752\text{ms}} * 100\% = 76.7\%$$

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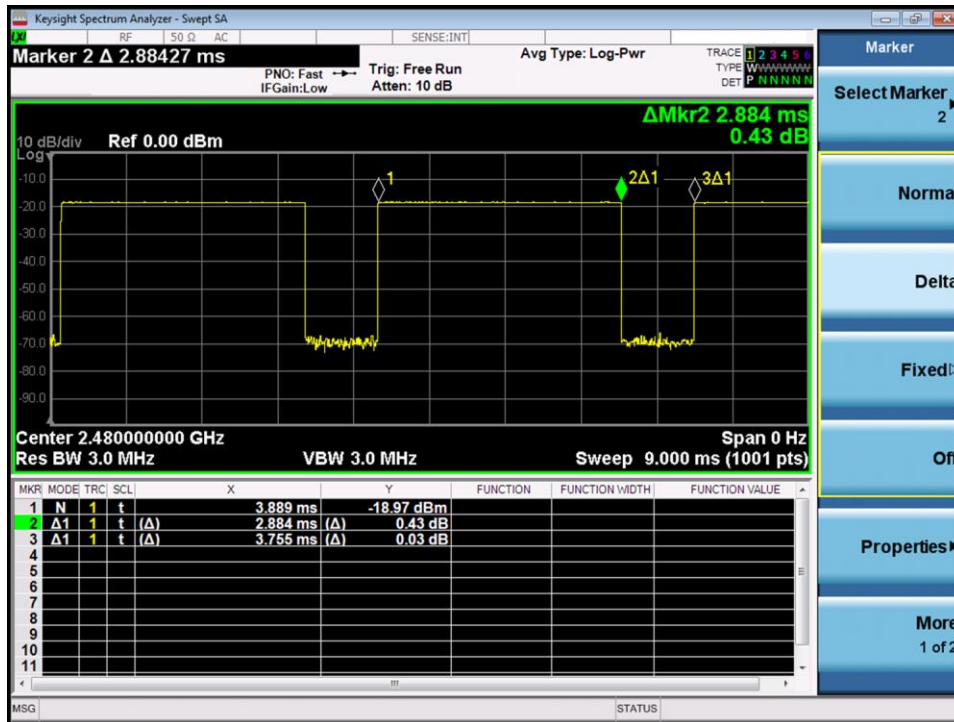




Figure 8-5
Bluetooth Transmission Plot – Antenna 1a, Variant 2

Equation 8-2
Bluetooth Duty Cycle Calculation – Antenna 1a, Variant 2

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

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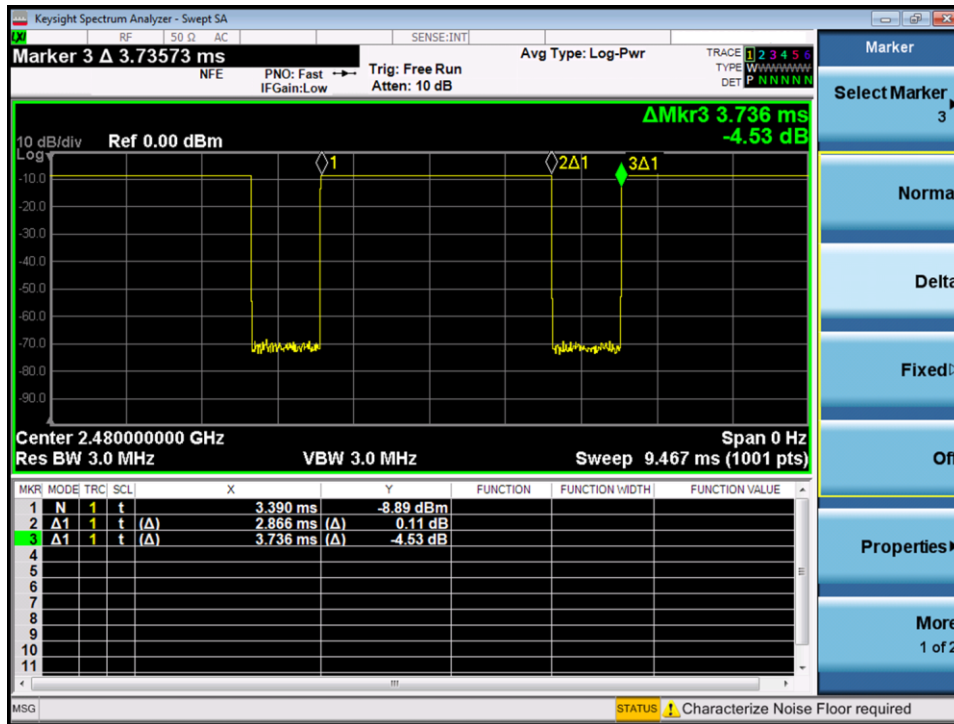



Figure 8-6
Bluetooth Transmission Plot – Antenna 3a, Variant 1

Equation 8-3
Bluetooth Duty Cycle Calculation – Antenna 3a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.866ms}{3.736ms} * 100\% = 76.7\%$$

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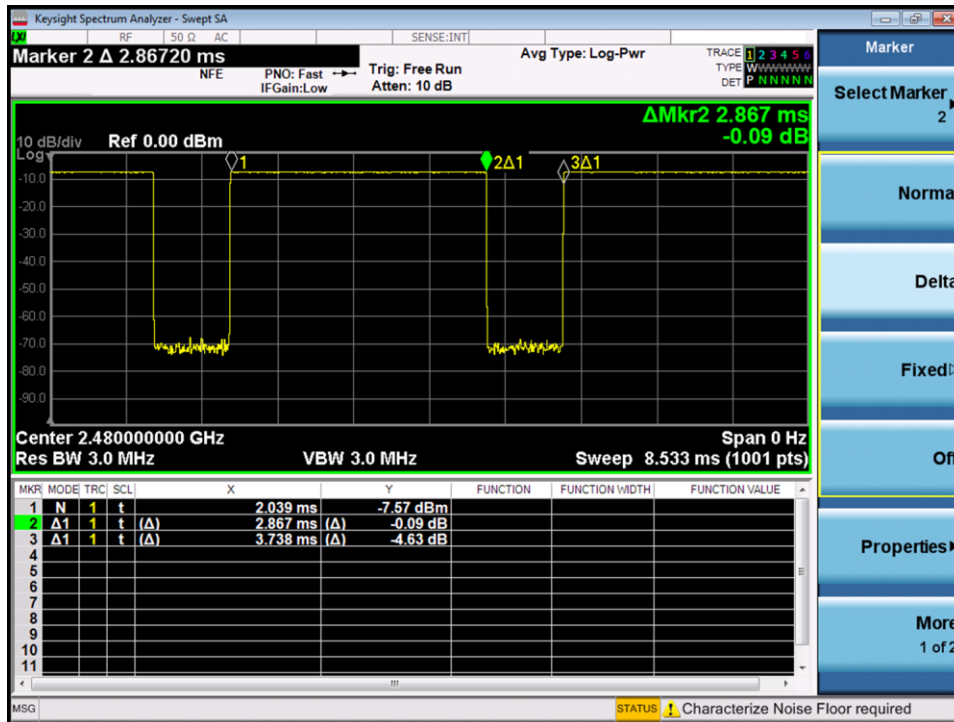




Figure 8-7
Bluetooth Transmission Plot – Antenna 3a, Variant 2

Equation 8-4
Bluetooth Duty Cycle Calculation – Antenna 3a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.867ms}{3.738ms} * 100\% = 76.7\%$$

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8.11 Bluetooth Power Reduction Verification Summary

Table 8-128
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Target Power	Reduced Target Power	Maximum	Reduced	Verdict
					[dBm]	[dBm]	Measured Power	Measured Power	
Ant 3A	2.4 GHz Bluetooth	Main Band 3B ON	13	10	11.50 (+1.5/-2)	8.50 (+1.5/-2)	12.09	9.84	PASS
	2.4 GHz Bluetooth	Main Band 3A ON	13	10	11.50 (+1.5/-2)	8.50 (+1.5/-2)	12.09	9.90	PASS
	2.4 GHz Bluetooth	ULCA ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.09	4.25	PASS
	2.4 GHz Bluetooth	ULCA ON and 5 GHz WLAN 3B/5T/1B ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.09	4.25	PASS
	2.4 GHz Bluetooth	Main band Ant 4 ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	7	11.50 (+1.5/-2)	5.50 (+1.5/-2)	12.09	5.10	PASS
	2.4 GHz Bluetooth	Main band Ant 3A ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.09	4.40	PASS
	2.4 GHz Bluetooth	Main band Ant 3B ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	7	11.50 (+1.5/-2)	5.50 (+1.5/-2)	12.09	5.10	PASS
	2.4 GHz Bluetooth	Main Band Ant 1a ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	7	11.50 (+1.5/-2)	5.50 (+1.5/-2)	12.09	5.04	PASS
	2.4 GHz Bluetooth	Main Band Ant 2 ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	7	11.50 (+1.5/-2)	5.50 (+1.5/-2)	12.09	4.90	PASS
	2.4 GHz Bluetooth	Main Band Ant 1B ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	7	11.50 (+1.5/-2)	5.50 (+1.5/-2)	12.09	5.09	PASS
	2.4 GHz Bluetooth	5 GHz WLAN Ant 3B/5T/1B ON	13	7.5	11.50 (+1.5/-2)	6.00 (+1.5/-2)	12.09	6.11	PASS
	2.4 GHz Bluetooth	Main Band 1A ON	13	10	11.50 (+1.5/-2)	8.50 (+1.5/-2)	12.20	8.49	PASS
	2.4 GHz Bluetooth	Main Band 1B ON	13	10	11.50 (+1.5/-2)	8.50 (+1.5/-2)	12.20	8.54	PASS
	2.4 GHz Bluetooth	ULCA ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.20	4.85	PASS
Ant 1A	2.4 GHz Bluetooth	ULCA ON and 5 GHz WLAN 3B/5T/1B ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.20	4.85	PASS
	2.4 GHz Bluetooth	Main band Ant 4 ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.20	4.85	PASS
	2.4 GHz Bluetooth	Main band Ant 3A ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.20	4.45	PASS
	2.4 GHz Bluetooth	Main band Ant 3B ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.20	4.74	PASS
	2.4 GHz Bluetooth	Main Band Ant 1a ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.20	4.91	PASS
	2.4 GHz Bluetooth	Main Band Ant 2 ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.20	4.22	PASS
	2.4 GHz Bluetooth	Main Band Ant 1B ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	12.20	4.63	PASS
	2.4 GHz Bluetooth	Main Band Ant 1B ON and 5 GHz WLAN Ant 3B/5T/1B ON	13	8	11.50 (+1.5/-2)	6.50 (+1.5/-2)	12.20	6.60	PASS

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

8.12 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.

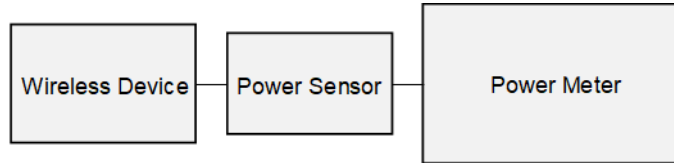




Figure 8-8
Power Measurement Setup


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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
7/6/2021	750 Body	21.0	680	0.911	56.335	0.958	55.804	-4.91%	0.95%
			695	0.916	56.310	0.959	55.745	-4.48%	1.01%
			700	0.918	56.304	0.959	55.726	-4.28%	1.04%
			710	0.921	56.288	0.960	55.687	-4.06%	1.08%
			725	0.927	56.268	0.961	55.629	-3.54%	1.15%
			750	0.937	56.228	0.964	55.531	-2.80%	1.26%
			770	0.944	56.194	0.965	55.453	-2.18%	1.34%
			785	0.949	56.157	0.966	55.395	-1.76%	1.38%
			800	0.954	56.123	0.967	55.336	-1.34%	1.42%
			800	0.954	56.123	0.967	55.336	-1.34%	1.42%
7/9/2021	750 Body	20.1	680	0.933	53.891	0.958	55.804	-2.61%	-3.43%
			695	0.938	53.863	0.959	55.745	-2.19%	-3.38%
			700	0.940	53.854	0.959	55.726	-1.98%	-3.36%
			710	0.943	53.835	0.960	55.687	-1.77%	-3.33%
			725	0.948	53.804	0.961	55.629	-1.35%	-3.28%
			750	0.958	53.752	0.964	55.531	-0.62%	-3.20%
			770	0.966	53.719	0.965	55.453	0.10%	-3.13%
			785	0.971	53.691	0.966	55.395	0.52%	-3.08%
			800	0.977	53.655	0.967	55.336	1.03%	-3.04%
			800	0.977	53.655	0.967	55.336	1.03%	-3.04%
7/9/2021	750 Body	20.8	680	0.924	56.884	0.958	55.804	-3.55%	1.94%
			695	0.929	56.877	0.959	55.745	-3.13%	2.03%
			700	0.931	56.873	0.959	55.726	-2.92%	2.06%
			710	0.934	56.861	0.960	55.687	-2.71%	2.11%
			725	0.941	56.819	0.961	55.629	-2.08%	2.14%
			750	0.951	56.724	0.964	55.531	-1.35%	2.15%
			770	0.959	56.691	0.965	55.453	-0.62%	2.23%
			785	0.964	56.672	0.966	55.395	-0.21%	2.31%
			800	0.970	56.644	0.967	55.336	0.31%	2.36%
			800	0.970	56.644	0.967	55.336	0.31%	2.36%
7/11/2021	750 Body	18.9	680	0.943	54.151	0.958	55.804	-1.57%	-2.96%
			695	0.948	54.118	0.959	55.745	-1.15%	-2.92%
			700	0.950	54.104	0.959	55.726	-0.94%	-2.91%
			710	0.954	54.076	0.960	55.687	-0.63%	-2.89%
			725	0.959	54.028	0.961	55.629	-0.21%	-2.88%
			750	0.970	53.946	0.964	55.531	0.62%	-2.85%
			770	0.977	53.907	0.965	55.453	1.24%	-2.79%
			785	0.982	53.884	0.966	55.395	1.66%	-2.73%
			800	0.988	53.858	0.967	55.336	2.17%	-2.67%
			800	0.988	53.858	0.967	55.336	2.17%	-2.67%
8/3/2021	750 Body	20.8	680	0.956	53.306	0.958	55.804	-0.21%	-4.48%
			695	0.961	53.281	0.959	55.745	0.21%	-4.42%
			700	0.963	53.273	0.959	55.726	0.42%	-4.40%
			710	0.966	53.256	0.960	55.687	0.63%	-4.37%
			725	0.972	53.224	0.961	55.629	1.14%	-4.32%
			750	0.982	53.153	0.964	55.531	1.87%	-4.28%
			770	0.990	53.108	0.965	55.453	2.59%	-4.23%
			785	0.996	53.081	0.966	55.395	3.11%	-4.18%
			800	1.002	53.045	0.967	55.336	3.62%	-4.14%
			800	1.002	53.045	0.967	55.336	3.62%	-4.14%
7/4/2021	835 Body	20.8	820	0.984	53.648	0.969	55.258	1.55%	-2.91%
			835	1.000	53.488	0.970	55.200	3.09%	-3.10%
			850	1.015	53.339	0.988	55.154	2.73%	-3.29%
			820	0.979	53.901	0.969	55.258	1.03%	-2.46%
7/12/2021	835 Body	21.1	835	0.994	53.744	0.970	55.200	2.47%	-2.64%
			850	1.010	53.598	0.988	55.154	2.23%	-2.82%
			820	0.984	52.762	0.969	55.258	1.55%	-4.52%
			835	1.001	52.583	0.970	55.200	3.20%	-4.74%
7/14/2021	835 Body	21	850	1.016	52.414	0.988	55.154	2.83%	-4.97%
			815	0.963	53.983	0.968	55.271	-0.52%	-2.33%
			820	0.968	53.937	0.969	55.258	-0.10%	-2.39%
			835	0.984	53.788	0.970	55.200	1.44%	-2.56%
7/21/2021	835 Body	21.3	850	0.997	53.646	0.988	55.154	0.91%	-2.73%
			1710	1.464	53.187	1.463	53.537	0.07%	-0.65%
			1720	1.471	53.171	1.469	53.511	0.14%	-0.64%
			1745	1.489	53.142	1.485	53.445	0.27%	-0.57%
7/13/2021	1750 Body	21.2	1750	1.492	53.135	1.488	53.432	0.27%	-0.56%
			1770	1.506	53.102	1.501	53.379	0.33%	-0.52%
			1790	1.520	53.063	1.514	53.326	0.40%	-0.49%
			1790	1.520	53.063	1.514	53.326	0.40%	-0.49%

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**Table 9-2
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
7/16/2021	1750 Body	21.7	1710	1.473	51.974	1.463	53.537	0.68%	-2.92%
			1720	1.480	51.960	1.469	53.511	0.75%	-2.90%
			1745	1.497	51.928	1.485	53.445	0.81%	-2.84%
			1750	1.500	51.923	1.488	53.432	0.81%	-2.82%
			1770	1.513	51.897	1.501	53.379	0.80%	-2.78%
			1790	1.526	51.863	1.514	53.326	0.79%	-2.74%
08/23/2021	1750 Body	21.5	1710	1.431	52.018	1.463	53.537	-2.19%	-2.84%
			1720	1.441	51.987	1.469	53.511	-1.91%	-2.85%
			1745	1.465	51.907	1.485	53.445	-1.35%	-2.88%
			1750	1.470	51.893	1.488	53.432	-1.21%	-2.88%
			1770	1.498	51.831	1.501	53.379	-0.87%	-2.90%
			1790	1.507	51.764	1.514	53.326	-0.46%	-2.93%
6/30/2021	1900 Body	21.9	1850	1.583	53.247	1.520	53.300	2.17%	-0.10%
			1860	1.589	53.225	1.520	53.300	2.57%	-0.14%
			1880	1.573	53.183	1.520	53.300	3.49%	-0.22%
			1900	1.587	53.16	1.520	53.300	4.41%	-0.26%
			1905	1.59	53.157	1.520	53.300	4.61%	-0.27%
			1910	1.593	53.152	1.520	53.300	4.80%	-0.28%
7/11/2021	1900 Body	23.0	1850	1.541	52.547	1.520	53.300	1.38%	-1.41%
			1860	1.548	52.528	1.520	53.300	1.84%	-1.45%
			1880	1.562	52.494	1.520	53.300	2.76%	-1.51%
			1900	1.575	52.474	1.520	53.300	3.62%	-1.55%
			1905	1.579	52.472	1.520	53.300	3.88%	-1.55%
			1910	1.582	52.469	1.520	53.300	4.08%	-1.56%
7/5/2021	2300 Body	22.5	2300	1.827	52.297	1.809	52.900	1.00%	-1.14%
			2310	1.840	52.257	1.816	52.887	1.32%	-1.19%
			2320	1.853	52.219	1.826	52.873	1.49%	-1.24%
8/2/2021	2300 Body	20.6	2300	1.852	51.651	1.809	52.900	2.39%	-2.36%
			2310	1.861	51.636	1.816	52.887	2.48%	-2.37%
			2320	1.871	51.623	1.826	52.873	2.46%	-2.36%
7/6/2021	2450 Body	21.4	2400	1.975	52.004	1.902	52.767	3.84%	-1.45%
			2450	2.030	51.983	1.950	52.700	4.10%	-1.36%
			2480	2.061	51.949	1.993	52.662	3.41%	-1.35%
			2500	2.083	51.930	2.021	52.636	3.07%	-1.34%
7/29/2021	2450 Body	21.0	2400	1.946	51.447	1.902	52.767	2.31%	-2.50%
			2450	1.992	51.397	1.950	52.700	2.15%	-2.47%
			2480	2.017	51.353	1.993	52.662	1.20%	-2.49%
			2500	2.035	51.327	2.021	52.636	0.69%	-2.49%
7/4/2021	2450-2600 Body	22.2	2400	1.978	52.171	1.902	52.767	4.00%	-1.13%
			2450	2.027	52.115	1.950	52.700	3.95%	-1.11%
			2480	2.050	52.048	1.993	52.662	2.86%	-1.17%
			2500	2.068	52.013	2.021	52.636	2.33%	-1.18%
			2510	2.080	52.002	2.035	52.623	2.21%	-1.18%
			2535	2.103	51.976	2.071	52.592	1.55%	-1.17%
			2550	2.115	51.957	2.092	52.573	1.10%	-1.17%
			2560	2.126	51.953	2.106	52.560	0.95%	-1.15%
			2600	2.162	51.864	2.163	52.509	-0.05%	-1.23%
			2650	2.210	51.804	2.234	52.445	-1.07%	-1.22%
			2680	2.238	51.740	2.277	52.407	-1.71%	-1.27%
			2700	2.257	51.706	2.305	52.382	-2.08%	-1.29%
7/6/2021	2450-2600 Body	22.7	2400	1.977	51.694	1.902	52.767	3.94%	-2.03%
			2450	2.024	51.639	1.950	52.700	3.79%	-2.01%
			2480	2.050	51.585	1.993	52.662	2.86%	-2.05%
			2500	2.069	51.544	2.021	52.636	2.38%	-2.07%
			2510	2.079	51.527	2.035	52.623	2.16%	-2.08%
			2535	2.104	51.494	2.071	52.592	1.59%	-2.09%
			2550	2.117	51.468	2.092	52.573	1.20%	-2.10%
			2560	2.126	51.448	2.106	52.560	0.95%	-2.12%
			2600	2.164	51.377	2.163	52.509	0.05%	-2.16%
			2650	2.209	51.294	2.234	52.445	-1.12%	-2.19%
			2680	2.237	51.237	2.277	52.407	-1.76%	-2.23%
			2700	2.256	51.197	2.305	52.382	-2.13%	-2.26%
7/9/2021	2450-2600 Body	23.8	2400	1.919	52.029	1.902	52.767	0.89%	-1.40%
			2450	1.986	51.842	1.950	52.700	1.65%	-1.63%
			2480	2.026	51.739	1.993	52.662	1.66%	-1.75%
			2500	2.051	51.661	2.021	52.636	1.49%	-1.85%
			2510	2.065	51.623	2.035	52.623	1.47%	-1.90%
			2535	2.099	51.530	2.071	52.592	1.35%	-2.02%
			2550	2.121	51.476	2.092	52.573	1.39%	-2.09%
			2560	2.135	51.440	2.106	52.560	1.38%	-2.13%
			2600	2.188	51.299	2.163	52.509	1.16%	-2.30%
			2650	2.261	51.112	2.234	52.445	1.21%	-2.54%
			2680	2.303	51.000	2.277	52.407	1.14%	-2.68%
			2700	2.330	50.911	2.305	52.382	1.08%	-2.81%
7/14/2021	2450-2600 Body	22.6	2400	1.986	52.556	1.902	52.767	4.42%	-0.40%
			2450	2.034	52.496	1.950	52.700	4.31%	-0.39%
			2480	2.059	52.434	1.993	52.662	3.31%	-0.43%
			2500	2.079	52.392	2.021	52.636	2.87%	-0.46%
			2510	2.089	52.378	2.035	52.623	2.65%	-0.47%
			2535	2.112	52.349	2.071	52.592	1.98%	-0.46%
			2550	2.124	52.324	2.092	52.573	1.53%	-0.47%
			2560	2.132	52.301	2.106	52.560	1.23%	-0.49%
			2600	2.171	52.224	2.163	52.509	0.37%	-0.54%
			2650	2.217	52.158	2.234	52.445	-0.76%	-0.55%
			2680	2.244	52.090	2.277	52.407	-1.45%	-0.60%
			2700	2.265	52.050	2.305	52.382	-1.74%	-0.63%

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**Table 9-3
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			
7/12/2021	3500-3700 Body	18.0	3500	3.221	51.228	3.314	51.321	-2.81%	-0.18%			
			3550	3.282	51.170	3.372	51.254	-2.67%	-0.16%			
			3560	3.294	51.143	3.384	51.240	-2.66%	-0.19%			
			3650	3.408	50.972	3.489	51.118	-2.32%	-0.29%			
			3690	3.459	50.908	3.536	51.063	-2.18%	-0.30%			
			3700	3.471	50.884	3.548	51.050	-2.17%	-0.33%			
			3750	3.537	50.797	3.606	50.982	-1.91%	-0.36%			
7/13/2021	3500-3900 Body	19.4	3500	3.275	51.084	3.314	51.321	-1.18%	-0.46%			
			3550	3.336	51.003	3.372	51.254	-1.07%	-0.49%			
			3560	3.348	50.976	3.384	51.240	-1.06%	-0.52%			
			3600	3.397	50.899	3.431	51.186	-0.99%	-0.56%			
			3650	3.459	50.801	3.489	51.118	-0.86%	-0.62%			
			3690	3.510	50.723	3.536	51.063	-0.74%	-0.67%			
			3700	3.522	50.707	3.548	51.050	-0.73%	-0.67%			
			3750	3.588	50.606	3.606	50.982	-0.50%	-0.74%			
			3900	3.784	50.338	3.781	50.779	0.08%	-0.87%			
			3930	3.824	50.279	3.816	50.738	0.21%	-0.90%			
			7/15/2021	3500-3900 Body	22	3500	3.372	49.646	3.314	51.321	1.75%	-3.26%
						3550	3.421	49.601	3.372	51.254	1.45%	-3.23%
3560	3.432	49.588				3.384	51.240	1.42%	-3.22%			
3600	3.474	49.500				3.431	51.186	1.25%	-3.29%			
3650	3.526	49.461				3.489	51.118	1.06%	-3.24%			
3690	3.566	49.363				3.536	51.063	0.85%	-3.33%			
3700	3.576	49.362				3.548	51.050	0.79%	-3.31%			
3750	3.639	49.334				3.606	50.982	0.92%	-3.23%			
3900	3.808	49.098				3.781	50.779	0.71%	-3.31%			
3930	3.839	49.083				3.816	50.738	0.60%	-3.26%			
6/23/2021	5200-5800 Body	22				5180	5.259	48.020	5.276	49.041	-0.32%	-2.08%
						5190	5.275	47.999	5.288	49.028	-0.25%	-2.10%
			5200	5.284	47.983	5.299	49.014	-0.28%	-2.10%			
			5210	5.294	47.976	5.311	49.001	-0.32%	-2.09%			
			5220	5.309	47.955	5.323	48.987	-0.26%	-2.11%			
			5240	5.339	47.896	5.346	48.960	-0.13%	-2.17%			
			5250	5.350	47.875	5.358	48.947	-0.15%	-2.19%			
			5260	5.365	47.860	5.369	48.933	-0.07%	-2.19%			
			5270	5.383	47.837	5.381	48.919	0.04%	-2.21%			
			5280	5.401	47.812	5.393	48.906	0.15%	-2.24%			
			5290	5.414	47.784	5.404	48.892	0.19%	-2.27%			
			5300	5.427	47.767	5.416	48.879	0.20%	-2.28%			
			5310	5.441	47.761	5.428	48.865	0.24%	-2.26%			
			5320	5.456	47.748	5.439	48.851	0.31%	-2.26%			
			5500	5.713	47.418	5.650	48.607	1.12%	-2.45%			
			5510	5.723	47.395	5.661	48.594	1.10%	-2.47%			
			5520	5.734	47.375	5.673	48.580	1.08%	-2.48%			
			5530	5.750	47.360	5.685	48.566	1.14%	-2.48%			
			5540	5.768	47.339	5.696	48.553	1.26%	-2.50%			
			5550	5.783	47.319	5.708	48.539	1.31%	-2.51%			
			5560	5.796	47.302	5.720	48.526	1.33%	-2.52%			
			5580	5.825	47.279	5.743	48.499	1.43%	-2.52%			
			5600	5.852	47.228	5.766	48.471	1.49%	-2.56%			
			5610	5.867	47.211	5.778	48.458	1.54%	-2.57%			
			5620	5.885	47.195	5.790	48.444	1.64%	-2.58%			
			5640	5.912	47.150	5.813	48.417	1.70%	-2.62%			
			5660	5.937	47.119	5.837	48.390	1.71%	-2.63%			
			5670	5.958	47.106	5.848	48.376	1.88%	-2.63%			
			5680	5.974	47.085	5.860	48.363	1.95%	-2.64%			
			5690	5.984	47.063	5.872	48.349	1.91%	-2.66%			
			5700	5.996	47.039	5.883	48.336	1.92%	-2.68%			
			5710	6.013	47.011	5.895	48.322	2.00%	-2.71%			
			5720	6.030	46.986	5.907	48.309	2.08%	-2.74%			
5745	6.064	46.951	5.936	48.275	2.16%	-2.74%						
5750	6.071	46.946	5.942	48.268	2.17%	-2.74%						
5755	6.081	46.934	5.947	48.261	2.25%	-2.75%						
5765	6.095	46.910	5.959	48.248	2.28%	-2.77%						
5775	6.107	46.885	5.971	48.234	2.28%	-2.80%						
5785	6.121	46.863	5.982	48.220	2.32%	-2.81%						
5795	6.136	46.846	5.994	48.207	2.37%	-2.82%						
5800	6.146	46.839	6.000	48.200	2.43%	-2.82%						
5805	6.153	46.821	6.006	48.193	2.45%	-2.85%						
5825	6.178	46.775	6.029	48.166	2.47%	-2.89%						

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.

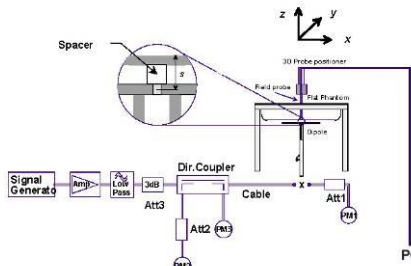
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9.2 Test System Verification

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 D.

**Table 9-4
System Verification Results – 1g**


System Verification TARGET & MEASURED												
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source	Probe SN	Measured SAR1g (W/kg)	1W Target SAR1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation1g (%)
AM9	750	BODY	07/06/2021	21.1	21.1	0.20	1097	7638	1.72	8.41	8.600	2.26%
AM6	750	BODY	07/09/2021	22.1	20.0	0.20	1097	7416	1.75	8.41	8.750	4.04%
AM9	750	BODY	07/09/2021	22.9	21.0	0.20	1097	7638	1.68	8.41	8.400	-0.12%
AM6	750	BODY	07/11/2021	20.3	18.9	0.20	1097	7416	1.73	8.41	8.650	2.85%
AM6	750	BODY	08/03/2021	21.9	19.2	0.20	1097	7416	1.77	8.41	8.850	5.23%
AM5	835	BODY	07/21/2021	20.8	21.9	0.20	40400	3949	1.81	9.53	9.050	-5.04%
AM3	850	BODY	07/04/2021	21.0	20.5	0.20	1010	7421	2.13	9.97	10.650	6.82%
AM3	850	BODY	07/12/2021	21.0	21.1	0.20	1010	7490	2.11	9.97	10.550	5.82%
AM3	850	BODY	07/14/2021	21.2	21.0	0.20	1010	3949	2.03	9.97	10.150	1.81%
AM4B	1750	BODY	07/13/2021	23.3	21.2	0.10	1083	7640	3.86	37.10	38.600	4.04%
AM4B	1750	BODY	07/16/2021	24.0	21.8	0.10	1083	7640	3.92	37.10	39.200	5.66%
AM10	1750	BODY	08/23/2021	21.0	21.3	0.10	1104	7639	3.48	36.30	34.800	-4.13%
AM4B	1900	BODY	06/30/2021	22.9	21.2	0.10	50030	7640	4.12	39.90	41.200	3.26%
AM4B	1900	BODY	07/11/2021	23.1	23.0	0.10	50030	7640	4.30	39.90	43.000	7.77%
AM1	2300	BODY	07/05/2021	21.1	20.7	0.10	1064	3837	4.74	48.40	47.400	-2.07%
AM2	2300	BODY	08/02/2021	20.9	20.7	0.10	1064	7532	4.83	48.40	48.300	-0.21%
AM8	2450	BODY	07/04/2021	22.5	21.8	0.10	750	7558	5.40	51.00	54.000	5.88%
AM8	2450	BODY	07/06/2021	22.3	21.4	0.10	750	7558	5.10	51.00	51.000	0.00%
AM2	2450	BODY	07/06/2021	21.8	21.2	0.10	750	7532	5.13	51.00	51.300	0.59%
AM5	2450	BODY	07/09/2021	21.8	21.8	0.10	750	3949	4.86	51.00	48.600	-4.71%
AM8	2450	BODY	07/14/2021	22.1	21.1	0.10	750	7558	5.32	51.00	53.200	4.31%
AM2	2450	BODY	07/29/2021	21.8	21.2	0.10	921	7532	5.23	50.80	52.300	2.95%
AM8	2600	BODY	07/04/2021	22.5	21.8	0.10	1042	7558	6.01	55.20	60.100	8.88%
AM8	2600	BODY	07/06/2021	22.3	21.4	0.10	1042	7558	5.50	55.20	55.000	-0.36%
AM5	2600	BODY	07/09/2021	21.8	21.8	0.10	1042	3949	5.47	55.20	54.700	-0.91%
AM8	2600	BODY	07/14/2021	22.1	21.1	0.10	1042	7558	5.75	55.20	57.500	4.17%
AM10	3500	BODY	07/12/2021	21.2	19.8	0.10	1055	7639	6.32	65.00	63.200	-2.77%
AM5	3500	BODY	07/13/2021	20.3	20.5	0.10	1055	7490	6.30	65.00	63.000	-3.08%
AM1	3500	BODY	07/15/2021	21.8	20.4	0.10	1055	3837	6.89	65.00	68.900	6.00%
AM10	3700	BODY	07/12/2021	21.2	19.8	0.10	1002	7639	6.36	64.70	63.600	-1.70%
AM5	3700	BODY	07/13/2021	20.3	20.5	0.10	1002	7490	6.28	64.70	62.800	-2.94%
AM1	3700	BODY	07/15/2021	21.8	20.4	0.10	1002	3837	6.57	64.70	65.700	1.55%
AM5	3900	BODY	07/13/2021	20.3	20.5	0.10	1062	7490	6.37	66.30	63.700	-3.92%
AM1	3900	BODY	07/15/2021	21.8	20.4	0.10	1062	3837	6.40	66.30	64.000	-3.47%
AM9	5250	BODY	06/23/2021	21.5	20.6	0.05	1123	7638	3.72	73.50	74.400	1.22%
AM9	5600	BODY	06/23/2021	21.5	20.6	0.05	1123	7638	4.01	77.40	80.200	3.62%
AM9	5750	BODY	06/23/2021	21.5	20.6	0.05	1123	7638	3.82	73.10	76.400	4.51%



**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 SAR Data

Table 10-1
UMTS 850 MHz Antenna 2 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dbr (dB)	Position	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	17.70	17.37	0.01	Body	0 mm	Antenna 2	LOG94JW07G	1:1	back	0.814	1.079	0.878	0.365	0.394	A1
836.60	4183	UMTS 850	RMC	17.70	17.36	0.01	Body	0 mm	Antenna 2	LOG94JW07G	1:1	back	0.717	1.081	0.775	0.327	0.353	
846.60	4233	UMTS 850	RMC	17.70	17.32	0.00	Body	0 mm	Antenna 2	LOG94JW07G	1:1	back	0.685	1.091	0.747	0.312	0.340	
826.40	4132	UMTS 850	RMC	17.70	17.37	-0.09	Body	0 mm	Antenna 2	LOG94JW07G	1:1	top	0.009	1.079	0.010	0.004	0.004	
826.40	4132	UMTS 850	RMC	17.70	17.37	0.05	Body	0 mm	Antenna 2	LOG94JW07G	1:1	bottom	0.466	1.079	0.503	0.226	0.244	
826.40	4132	UMTS 850	RMC	17.70	17.37	0.01	Body	0 mm	Antenna 2	LOG94JW07G	1:1	right	0.410	1.079	0.442	0.164	0.177	
826.40	4132	UMTS 850	RMC	17.70	17.37	0.19	Body	0 mm	Antenna 2	LOG94JW07G	1:1	left	0.038	1.079	0.041	0.019	0.021	
826.40	4132	UMTS 850	RMC	17.70	17.37	0.01	Body	0 mm	Antenna 2	LOG94JW07G	1:1	back	0.780	1.079	0.842	0.363	0.392	
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 entry represents variability measurement.

Table 10-2
UMTS 850 MHz Antenna 4 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dbr (dB)	Position	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	18.80	17.87	-0.08	Body	0 mm	Antenna 4	WVY4QW7W9Q	1:1	back	0.786	1.239	0.974	0.385	0.477	
836.60	4183	UMTS 850	RMC	18.80	17.89	-0.05	Body	0 mm	Antenna 4	WVY4QW7W9Q	1:1	back	0.743	1.233	0.916	0.365	0.450	
846.60	4233	UMTS 850	RMC	18.80	17.85	-0.05	Body	0 mm	Antenna 4	WVY4QW7W9Q	1:1	back	0.710	1.245	0.884	0.350	0.436	
836.60	4183	UMTS 850	RMC	18.80	17.89	0.03	Body	0 mm	Antenna 4	WVY4QW7W9Q	1:1	top	0.457	1.233	0.563	0.241	0.297	
836.60	4183	UMTS 850	RMC	18.80	17.89	0.15	Body	0 mm	Antenna 4	WVY4QW7W9Q	1:1	bottom	0.012	1.233	0.015	0.006	0.007	
836.60	4183	UMTS 850	RMC	18.80	17.89	0.19	Body	0 mm	Antenna 4	WVY4QW7W9Q	1:1	right	0.046	1.233	0.057	0.023	0.028	
836.60	4183	UMTS 850	RMC	18.80	17.89	0.00	Body	0 mm	Antenna 4	WVY4QW7W9Q	1:1	left	0.543	1.233	0.670	0.232	0.286	
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
UMTS 1750 MHz Antenna 2 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dbr (dB)	Position	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	14.10	12.47	-0.03	Body	0 mm	Antenna 2	YDHKFG44JX	1:1	back	0.531	1.455	0.773	0.253	0.368	
1712.40	1312	UMTS 1750	RMC	14.10	12.47	0.00	Body	0 mm	Antenna 2	YDHKFG44JX	1:1	top	0.000	1.455	0.000	0.000	0.000	
1712.40	1312	UMTS 1750	RMC	14.10	12.47	-0.01	Body	0 mm	Antenna 2	YDHKFG44JX	1:1	bottom	0.584	1.455	0.850	0.242	0.352	
1732.40	1412	UMTS 1750	RMC	14.10	12.41	-0.01	Body	0 mm	Antenna 2	YDHKFG44JX	1:1	bottom	0.583	1.476	0.861	0.243	0.359	
1752.60	1513	UMTS 1750	RMC	14.10	12.36	0.03	Body	0 mm	Antenna 2	YDHKFG44JX	1:1	bottom	0.550	1.493	0.821	0.231	0.345	
1712.40	1312	UMTS 1750	RMC	14.10	12.47	-0.05	Body	0 mm	Antenna 2	YDHKFG44JX	1:1	right	0.505	1.455	0.735	0.198	0.288	
1712.40	1312	UMTS 1750	RMC	14.10	12.47	0.16	Body	0 mm	Antenna 2	YDHKFG44JX	1:1	left	0.001	1.455	0.001	0.000	0.000	
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
UMTS 1750 MHz Antenna 4 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY MHz	Ch.	Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dirt (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR	SAR (10g)	Reported SAR	Plot #
													(W/kg)		(1g)	(W/kg)	(10g)	
1712.40	1312	UMTS 1750	RMC	14.30	13.26	-0.01	Body	0 mm	Antenna 4	D6WL24FM99	1:1	back	0.690	1.271	0.877	0.302	0.384	
1732.40	1412	UMTS 1750	RMC	14.30	13.15	-0.03	Body	0 mm	Antenna 4	D6WL24FM99	1:1	back	0.595	1.303	0.775	0.284	0.370	
1752.60	1513	UMTS 1750	RMC	14.30	12.90	0.00	Body	0 mm	Antenna 4	D6WL24FM99	1:1	back	0.650	1.380	0.897	0.282	0.389	
1712.40	1312	UMTS 1750	RMC	14.30	13.26	-0.01	Body	0 mm	Antenna 4	D6WL24FM99	1:1	top	0.696	1.271	0.885	0.288	0.366	
1732.40	1412	UMTS 1750	RMC	14.30	13.15	-0.05	Body	0 mm	Antenna 4	D6WL24FM99	1:1	top	0.651	1.303	0.848	0.263	0.343	
1752.60	1513	UMTS 1750	RMC	14.30	12.90	-0.04	Body	0 mm	Antenna 4	D6WL24FM99	1:1	top	0.622	1.380	0.858	0.259	0.357	
1712.40	1312	UMTS 1750	RMC	14.30	13.26	0.21	Body	0 mm	Antenna 4	D6WL24FM99	1:1	bottom	0.007	1.271	0.009	0.003	0.004	
1712.40	1312	UMTS 1750	RMC	14.30	13.26	-0.04	Body	0 mm	Antenna 4	D6WL24FM99	1:1	right	0.057	1.271	0.072	0.027	0.034	
1712.40	1312	UMTS 1750	RMC	14.30	13.26	0.03	Body	0 mm	Antenna 4	D6WL24FM99	1:1	left	0.526	1.271	0.669	0.215	0.273	
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
UMTS 1750 MHz Antenna 1b Body SAR


MEASUREMENT RESULTS																		
FREQUENCY MHz	Ch.	Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dirt (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR	SAR (10g)	Reported SAR	Plot #
													(W/kg)		(1g)	(W/kg)	(10g)	
1712.40	1312	UMTS 1750	RMC	12.20	11.33	0.03	Body	0 mm	Antenna 1b	F52K46MAN3	1:1	back	0.729	1.222	0.891	0.292	0.357	
1732.40	1412	UMTS 1750	RMC	12.20	11.34	0.01	Body	0 mm	Antenna 1b	F52K46MAN3	1:1	back	0.734	1.219	0.895	0.292	0.356	A2
1752.60	1513	UMTS 1750	RMC	12.20	11.31	-0.02	Body	0 mm	Antenna 1b	F52K46MAN3	1:1	back	0.730	1.227	0.896	0.291	0.357	
1732.40	1412	UMTS 1750	RMC	12.20	11.34	0.16	Body	0 mm	Antenna 1b	F52K46MAN3	1:1	top	0.003	1.219	0.004	0.001	0.001	
1732.40	1412	UMTS 1750	RMC	12.20	11.34	-0.05	Body	0 mm	Antenna 1b	F52K46MAN3	1:1	bottom	0.507	1.219	0.618	0.208	0.254	
1732.40	1412	UMTS 1750	RMC	12.20	11.34	0.12	Body	0 mm	Antenna 1b	F52K46MAN3	1:1	right	0.016	1.219	0.020	0.007	0.009	
1732.40	1412	UMTS 1750	RMC	12.20	11.34	0.11	Body	0 mm	Antenna 1b	F52K46MAN3	1:1	left	0.031	1.219	0.038	0.014	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 10-6
UMTS 1750 MHz Antenna 3b Body SAR

MEASUREMENT RESULTS																		
FREQUENCY MHz	Ch.	Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dirt (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR	SAR (10g)	Reported SAR	Plot #
													(W/kg)		(1g)	(W/kg)	(10g)	
1712.40	1312	UMTS 1750	RMC	13.20	11.73	0.04	Body	0 mm	Antenna 3b	T3Y6XQC446	1:1	back	0.675	1.403	0.947	0.279	0.391	
1732.40	1412	UMTS 1750	RMC	13.20	11.70	-0.02	Body	0 mm	Antenna 3b	T3Y6XQC446	1:1	back	0.693	1.413	0.979	0.285	0.403	
1752.60	1513	UMTS 1750	RMC	13.20	11.72	0.01	Body	0 mm	Antenna 3b	T3Y6XQC446	1:1	back	0.710	1.406	0.998	0.290	0.408	
1712.40	1312	UMTS 1750	RMC	13.20	11.73	-0.06	Body	0 mm	Antenna 3b	T3Y6XQC446	1:1	top	0.671	1.403	0.941	0.285	0.400	
1732.40	1412	UMTS 1750	RMC	13.20	11.70	-0.02	Body	0 mm	Antenna 3b	T3Y6XQC446	1:1	top	0.646	1.413	0.913	0.275	0.389	
1752.60	1513	UMTS 1750	RMC	13.20	11.72	0.01	Body	0 mm	Antenna 3b	T3Y6XQC446	1:1	top	0.620	1.406	0.872	0.262	0.368	
1712.40	1312	UMTS 1750	RMC	13.20	11.73	0.11	Body	0 mm	Antenna 3b	T3Y6XQC446	1:1	bottom	0.099	1.403	0.139	0.044	0.062	
1712.40	1312	UMTS 1750	RMC	13.20	11.73	0.13	Body	0 mm	Antenna 3b	T3Y6XQC446	1:1	right	0.049	1.403	0.069	0.023	0.032	
1712.40	1312	UMTS 1750	RMC	13.20	11.73	0.18	Body	0 mm	Antenna 3b	T3Y6XQC446	1:1	left	0.025	1.403	0.035	0.013	0.018	
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 10-7
UMTS 1900 MHz Antenna 2 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY MHz	Ch.	Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dirt (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR	SAR (10g)	Reported SAR	Plot #
													(W/kg)		(1g)	(W/kg)	(10g)	
1880.00	9400	UMTS 1900	RMC	13.80	13.30	0.06	Body	0 mm	Antenna 2	352797110566556	1:1	back	0.625	1.122	0.701	0.273	0.306	
1880.00	9400	UMTS 1900	RMC	13.80	13.30	-0.14	Body	0 mm	Antenna 2	352797110566556	1:1	top	0.012	1.122	0.013	0.002	0.002	
1880.00	9400	UMTS 1900	RMC	13.80	13.30	0.01	Body	0 mm	Antenna 2	352797110566556	1:1	bottom	0.628	1.122	0.705	0.259	0.291	
1852.40	9282	UMTS 1900	RMC	13.80	13.22	0.03	Body	0 mm	Antenna 2	352797110566556	1:1	right	0.717	1.143	0.820	0.284	0.325	
1880.00	9400	UMTS 1900	RMC	13.80	13.30	-0.03	Body	0 mm	Antenna 2	352797110566556	1:1	right	0.694	1.122	0.779	0.278	0.312	
1907.60	9538	UMTS 1900	RMC	13.80	13.19	0.02	Body	0 mm	Antenna 2	352797110566556	1:1	right	0.667	1.151	0.768	0.266	0.306	
1880.00	9400	UMTS 1900	RMC	13.80	13.30	0.17	Body	0 mm	Antenna 2	352797110566556	1:1	left	0.005	1.122	0.006	0.002	0.002	
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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Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 143 of 201

**Table 10-8
UMTS 1900 MHz Antenna 4 Body SAR**

MEASUREMENT RESULTS																		
FREQUENCY MHz	Ch.	Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dirt (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR	SAR (10g)	Reported SAR	Plot #
													(W/kg)		(W/kg)	(10g)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	14.00	12.32	-0.05	Body	0 mm	Antenna 4	352797110566556	1:1	back	0.491	1.472	0.723	0.213	0.314	
1852.40	9262	UMTS 1900	RMC	14.00	12.32	0.00	Body	0 mm	Antenna 4	352797110566556	1:1	top	0.596	1.472	0.877	0.245	0.361	
1880.00	9400	UMTS 1900	RMC	14.00	12.17	0.02	Body	0 mm	Antenna 4	352797110566556	1:1	top	0.592	1.524	0.902	0.243	0.370	
1907.60	9538	UMTS 1900	RMC	14.00	12.24	-0.01	Body	0 mm	Antenna 4	352797110566556	1:1	top	0.585	1.500	0.878	0.240	0.360	
1852.40	9262	UMTS 1900	RMC	14.00	12.32	0.00	Body	0 mm	Antenna 4	352797110566556	1:1	bottom	0.000	1.472	0.000	0.000	0.000	
1852.40	9262	UMTS 1900	RMC	14.00	12.32	0.12	Body	0 mm	Antenna 4	352797110566556	1:1	right	0.000	1.472	0.000	0.000	0.000	
1852.40	9262	UMTS 1900	RMC	14.00	12.32	0.04	Body	0 mm	Antenna 4	352797110566556	1:1	left	0.634	1.472	0.933	0.259	0.381	
1880.00	9400	UMTS 1900	RMC	14.00	12.17	0.06	Body	0 mm	Antenna 4	352797110566556	1:1	left	0.642	1.524	0.978	0.260	0.396	
1907.60	9538	UMTS 1900	RMC	14.00	12.24	0.04	Body	0 mm	Antenna 4	352797110566556	1:1	left	0.662	1.500	0.993	0.268	0.402	
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 1900 MHz Antenna 1b Body SAR**


MEASUREMENT RESULTS																		
FREQUENCY MHz	Ch.	Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dirt (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR	SAR (10g)	Reported SAR	Plot #
													(W/kg)		(W/kg)	(10g)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	11.20	10.75	0.04	Body	0 mm	Antenna 1b	352797110566556	1:1	back	0.700	1.109	0.776	0.282	0.313	
1880.00	9400	UMTS 1900	RMC	11.20	10.80	0.02	Body	0 mm	Antenna 1b	352797110566556	1:1	back	0.713	1.096	0.781	0.281	0.308	
1907.60	9538	UMTS 1900	RMC	11.20	10.63	0.06	Body	0 mm	Antenna 1b	352797110566556	1:1	back	0.645	1.140	0.735	0.257	0.293	
1880.00	9400	UMTS 1900	RMC	11.20	10.80	0.14	Body	0 mm	Antenna 1b	352797110566556	1:1	top	0.010	1.096	0.011	0.001	0.001	
1880.00	9400	UMTS 1900	RMC	11.20	10.80	0.02	Body	0 mm	Antenna 1b	352797110566556	1:1	bottom	0.392	1.096	0.430	0.165	0.181	
1880.00	9400	UMTS 1900	RMC	11.20	10.80	-0.12	Body	0 mm	Antenna 1b	352797110566556	1:1	right	0.015	1.096	0.016	0.006	0.007	
1880.00	9400	UMTS 1900	RMC	11.20	10.80	0.14	Body	0 mm	Antenna 1b	352797110566556	1:1	left	0.043	1.096	0.047	0.020	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 10-10
UMTS 1900 MHz Antenna 3b Body SAR**

MEASUREMENT RESULTS																		
FREQUENCY MHz	Ch.	Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dirt (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR	SAR (10g)	Reported SAR	Plot #
													(W/kg)		(W/kg)	(10g)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	12.50	11.32	-0.13	Body	0 mm	Antenna 3b	352797110566556	1:1	back	0.696	1.312	0.913	0.283	0.371	
1880.00	9400	UMTS 1900	RMC	12.50	11.26	-0.13	Body	0 mm	Antenna 3b	352797110566556	1:1	back	0.709	1.330	0.943	0.289	0.384	
1907.60	9538	UMTS 1900	RMC	12.50	11.30	-0.14	Body	0 mm	Antenna 3b	352797110566556	1:1	back	0.754	1.318	0.994	0.303	0.399	A3
1852.40	9262	UMTS 1900	RMC	12.50	11.32	0.05	Body	0 mm	Antenna 3b	352797110566556	1:1	top	0.615	1.312	0.807	0.258	0.338	
1880.00	9400	UMTS 1900	RMC	12.50	11.26	-0.01	Body	0 mm	Antenna 3b	352797110566556	1:1	top	0.633	1.330	0.842	0.265	0.352	
1907.60	9538	UMTS 1900	RMC	12.50	11.30	-0.03	Body	0 mm	Antenna 3b	352797110566556	1:1	top	0.647	1.318	0.853	0.271	0.357	
1852.40	9262	UMTS 1900	RMC	12.50	11.32	-0.12	Body	0 mm	Antenna 3b	352797110566556	1:1	bottom	0.004	1.312	0.005	0.001	0.001	
1852.40	9262	UMTS 1900	RMC	12.50	11.32	0.11	Body	0 mm	Antenna 3b	352797110566556	1:1	right	0.048	1.312	0.060	0.021	0.028	
1852.40	9262	UMTS 1900	RMC	12.50	11.32	-0.09	Body	0 mm	Antenna 3b	352797110566556	1:1	left	0.015	1.312	0.020	0.007	0.009	
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
LTE Band 71 Antenna 2 Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY MHz	Ch.	Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dirt (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR	SAR (10g)	Reported SAR	Plot #	
																(W/kg)		(W/kg)	(10g)	(W/kg)		
680.50	133297	Mtd	LTE Band 71	20	18.50	17.45	0.00	0	Antenna 2	N14X7RHQHY	QPSK	1	0	0 mm	back	1:1	0.678	1.274	0.884	0.251	0.320	
680.50	133297	Mtd	LTE Band 71	20	18.50	17.47	-0.02	0	Antenna 2	N14X7RHQHY	QPSK	50	0	0 mm	back	1:1	0.630	1.268	0.799	0.239	0.303	
680.50	133297	Mtd	LTE Band 71	20	18.50	17.44	-0.01	0	Antenna 2	N14X7RHQHY	QPSK	100	0	0 mm	back	1:1	0.671	1.276	0.856	0.246	0.314	
680.50	133297	Mtd	LTE Band 71	20	18.50	17.45	0.15	0	Antenna 2	N14X7RHQHY	QPSK	1	0	0 mm	top	1:1	0.013	1.274	0.017	0.006	0.008	
680.50	133297	Mtd	LTE Band 71	20	18.50	17.47	-0.05	0	Antenna 2	N14X7RHQHY	QPSK	50	0	0 mm	top	1:1	0.012	1.268	0.015	0.006	0.008	
680.50	133297	Mtd	LTE Band 71	20	18.50	17.45	-0.07	0	Antenna 2	N14X7RHQHY	QPSK	1	0	0 mm	bottom	1:1	0.415	1.274	0.529	0.185	0.236	
680.50	133297	Mtd	LTE Band 71	20	18.50	17.47	0.01	0	Antenna 2	N14X7RHQHY	QPSK	50	0	0 mm	bottom	1:1	0.432	1.268	0.549	0.180	0.241	
680.50	133297	Mtd	LTE Band 71	20	18.50	17.45	-0.07	0	Antenna 2	N14X7RHQHY	QPSK	1	0	0 mm	right	1:1	0.361	1.274	0.460	0.158	0.163	
680.50	133297	Mtd	LTE Band 71	20	18.50	17.47	-0.03	0	Antenna 2	N14X7RHQHY	QPSK	50	0	0 mm	right	1:1	0.356	1.268	0.451	0.159	0.164	
680.50	133297	Mtd	LTE Band 71	20	18.50	17.45	-0.19	0	Antenna 2	N14X7RHQHY	QPSK	1	0	0 mm	left	1:1	0.038	1.274	0.048	0.017	0.022	
680.50	133297	Mtd	LTE Band 71	20	18.50	17.47	-0.02	0	Antenna 2	N14X7RHQHY	QPSK	50	0	0 mm	left	1:1	0.036	1.268	0.044	0.017	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 10-12
LTE Band 71 Antenna 4 Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (E6) (W/kg)	SAR (W/kg)	Reported SAR (E6) (W/kg)	Pass #	
Mhz	Ch.																					
680.50	133297	M4	LTE Band 71	20	20.50	19.33	-0.16	0	Antenna 4	DRWL24FM99	QPSK	1	0	0 mm	back	1:1	0.741	1.309	0.970	0.351	0.459	A4
680.50	133297	M4	LTE Band 71	20	20.50	19.35	-0.17	0	Antenna 4	DRWL24FM99	QPSK	50	25	0 mm	back	1:1	0.652	1.303	0.850	0.320	0.417	
680.50	133297	M4	LTE Band 71	20	20.50	19.30	-0.16	0	Antenna 4	DRWL24FM99	QPSK	100	0	0 mm	back	1:1	0.659	1.318	0.869	0.321	0.423	
680.50	133297	M4	LTE Band 71	20	20.50	19.33	0.02	0	Antenna 4	DRWL24FM99	QPSK	1	0	0 mm	top	1:1	0.339	1.309	0.440	0.162	0.212	
680.50	133297	M4	LTE Band 71	20	20.50	19.35	-0.02	0	Antenna 4	DRWL24FM99	QPSK	50	25	0 mm	top	1:1	0.344	1.303	0.448	0.165	0.215	
680.50	133297	M4	LTE Band 71	20	20.50	19.33	-0.11	0	Antenna 4	DRWL24FM99	QPSK	1	0	0 mm	bottom	1:1	0.026	1.309	0.034	0.013	0.017	
680.50	133297	M4	LTE Band 71	20	20.50	19.35	0.04	0	Antenna 4	DRWL24FM99	QPSK	50	25	0 mm	bottom	1:1	0.025	1.303	0.033	0.012	0.016	
680.50	133297	M4	LTE Band 71	20	20.50	19.33	-0.21	0	Antenna 4	DRWL24FM99	QPSK	1	0	0 mm	right	1:1	0.055	1.309	0.072	0.024	0.031	
680.50	133297	M4	LTE Band 71	20	20.50	19.35	-0.09	0	Antenna 4	DRWL24FM99	QPSK	50	25	0 mm	right	1:1	0.067	1.303	0.087	0.029	0.038	
680.50	133297	M4	LTE Band 71	20	20.50	19.33	-0.01	0	Antenna 4	DRWL24FM99	QPSK	1	0	0 mm	left	1:1	0.468	1.309	0.613	0.175	0.229	
680.50	133297	M4	LTE Band 71	20	20.50	19.35	-0.10	0	Antenna 4	DRWL24FM99	QPSK	50	25	0 mm	left	1:1	0.434	1.303	0.566	0.166	0.216	
ANSI / IEEE C62.1 1992 - SAFETY LIMIT Spatial Peak											Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																						

**Table 10-13
LTE Band 12 Antenna 2 Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (E6) (W/kg)	SAR (W/kg)	Reported SAR (E6) (W/kg)	Pass #	
Mhz	Ch.																					
707.50	23095	M4	LTE Band 12	10	18.50	17.27	-0.01	0	Antenna 2	N14X7HR9FY	QPSK	1	49	0 mm	back	1:1	0.643	1.327	0.853	0.273	0.362	
707.50	23095	M4	LTE Band 12	10	18.50	17.38	-0.01	0	Antenna 2	N14X7HR9FY	QPSK	25	25	0 mm	back	1:1	0.657	1.294	0.850	0.263	0.366	
707.50	23095	M4	LTE Band 12	10	18.50	17.26	-0.03	0	Antenna 2	N14X7HR9FY	QPSK	50	0	0 mm	back	1:1	0.670	1.330	0.891	0.292	0.388	A5
707.50	23095	M4	LTE Band 12	10	18.50	17.27	-0.12	0	Antenna 2	N14X7HR9FY	QPSK	1	49	0 mm	top	1:1	0.014	1.327	0.019	0.007	0.009	
707.50	23095	M4	LTE Band 12	10	18.50	17.38	-0.13	0	Antenna 2	N14X7HR9FY	QPSK	25	25	0 mm	top	1:1	0.012	1.294	0.016	0.006	0.006	
707.50	23095	M4	LTE Band 12	10	18.50	17.27	-0.04	0	Antenna 2	N14X7HR9FY	QPSK	1	49	0 mm	bottom	1:1	0.485	1.327	0.644	0.209	0.277	
707.50	23095	M4	LTE Band 12	10	18.50	17.38	0.02	0	Antenna 2	N14X7HR9FY	QPSK	25	25	0 mm	bottom	1:1	0.506	1.294	0.655	0.218	0.282	
707.50	23095	M4	LTE Band 12	10	18.50	17.27	-0.04	0	Antenna 2	N14X7HR9FY	QPSK	1	49	0 mm	right	1:1	0.519	1.327	0.689	0.176	0.234	
707.50	23095	M4	LTE Band 12	10	18.50	17.38	-0.01	0	Antenna 2	N14X7HR9FY	QPSK	25	25	0 mm	right	1:1	0.525	1.294	0.679	0.175	0.238	
707.50	23095	M4	LTE Band 12	10	18.50	17.27	-0.12	0	Antenna 2	N14X7HR9FY	QPSK	1	49	0 mm	left	1:1	0.045	1.327	0.060	0.020	0.027	
707.50	23095	M4	LTE Band 12	10	18.50	17.38	-0.02	0	Antenna 2	N14X7HR9FY	QPSK	25	25	0 mm	left	1:1	0.042	1.294	0.054	0.016	0.023	
ANSI / IEEE C62.1 1992 - SAFETY LIMIT Spatial Peak											Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																						

**Table 10-14
LTE Band 12 Antenna 4 Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (E6) (W/kg)	SAR (W/kg)	Reported SAR (E6) (W/kg)	Pass #	
Mhz	Ch.																					
707.50	23095	M4	LTE Band 12	10	18.90	17.51	-0.17	0	Antenna 4	T3Y8XQC446	QPSK	1	0	0 mm	back	1:1	0.580	1.377	0.799	0.285	0.392	
707.50	23095	M4	LTE Band 12	10	18.90	17.72	-0.10	0	Antenna 4	T3Y8XQC446	QPSK	25	12	0 mm	back	1:1	0.588	1.312	0.771	0.304	0.399	
707.50	23095	M4	LTE Band 12	10	18.90	17.51	-0.08	0	Antenna 4	T3Y8XQC446	QPSK	1	0	0 mm	top	1:1	0.299	1.377	0.412	0.145	0.200	
707.50	23095	M4	LTE Band 12	10	18.90	17.72	0.01	0	Antenna 4	T3Y8XQC446	QPSK	25	12	0 mm	top	1:1	0.305	1.312	0.400	0.147	0.193	
707.50	23095	M4	LTE Band 12	10	18.90	17.51	-0.13	0	Antenna 4	T3Y8XQC446	QPSK	1	0	0 mm	bottom	1:1	0.018	1.377	0.025	0.009	0.012	
707.50	23095	M4	LTE Band 12	10	18.90	17.72	-0.17	0	Antenna 4	T3Y8XQC446	QPSK	25	12	0 mm	bottom	1:1	0.020	1.312	0.026	0.010	0.013	
707.50	23095	M4	LTE Band 12	10	18.90	17.51	-0.14	0	Antenna 4	T3Y8XQC446	QPSK	1	0	0 mm	right	1:1	0.028	1.377	0.039	0.013	0.018	
707.50	23095	M4	LTE Band 12	10	18.90	17.72	-0.01	0	Antenna 4	T3Y8XQC446	QPSK	25	12	0 mm	right	1:1	0.033	1.312	0.043	0.015	0.020	
707.50	23095	M4	LTE Band 12	10	18.90	17.51	-0.14	0	Antenna 4	T3Y8XQC446	QPSK	1	0	0 mm	left	1:1	0.369	1.377	0.494	0.133	0.183	
707.50	23095	M4	LTE Band 12	10	18.90	17.72	-0.10	0	Antenna 4	T3Y8XQC446	QPSK	25	12	0 mm	left	1:1	0.382	1.312	0.501	0.140	0.184	
ANSI / IEEE C62.1 1992 - SAFETY LIMIT Spatial Peak											Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																						

**Table 10-15
LTE Band 13 Antenna 2 Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (E6) (W/kg)	SAR (W/kg)	Reported SAR (E6) (W/kg)	Pass #	
Mhz	Ch.																					
782.00	23230	M4	LTE Band 13	10	18.25	16.98	-0.02	0	Antenna 2	N14X7HR9FY	QPSK	1	0	0 mm	back	1:1	0.663	1.340	0.888	0.267	0.358	
782.00	23230	M4	LTE Band 13	10	18.25	17.15	-0.08	0	Antenna 2	N14X7HR9FY	QPSK	25	12	0 mm	back	1:1	0.658	1.288	0.848	0.267	0.344	
782.00	23230	M4	LTE Band 13	10	18.25	16.97	-0.08	0	Antenna 2	N14X7HR9FY	QPSK	50	0	0 mm	back	1:1	0.669	1.343	0.888	0.269	0.361	
782.00	23230	M4	LTE Band 13	10	18.25	16.98	0.02	0	Antenna 2	N14X7HR9FY	QPSK	1	0	0 mm	top	1:1	0.021	1.340	0.028	0.011	0.015	
782.00	23230	M4	LTE Band 13	10	18.25	17.15	-0.03	0	Antenna 2	N14X7HR9FY	QPSK	25	12	0 mm	top	1:1	0.020	1.288	0.026	0.010	0.013	
782.00	23230	M4	LTE Band 13	10	18.25	16.98	-0.06	0	Antenna 2	N14X7HR9FY	QPSK	1	0	0 mm	bottom	1:1	0.496	1.340	0.665	0.224	0.300	
782.00	23230	M4	LTE Band 13	10	18.25	17.15	-0.08	0	Antenna 2	N14X7HR9FY	QPSK	25	12	0 mm	bottom	1:1	0.534	1.288	0.688	0.243	0.313	
782.00	23230	M4	LTE Band 13	10	18.25	16.98	0.02	0	Antenna 2	N14X7HR9FY	QPSK	1	0	0 mm	right	1:1	0.466	1.340	0.624	0.168	0.225	
782.00	23230	M4	LTE Band 13	10	18.25	17.15	-0.02	0	Antenna 2	N14X7HR9FY	QPSK	25	12	0 mm	right	1:1	0.468	1.288	0.603	0.169	0.218	
782.00	23230	M4	LTE Band 13	10	18.25	16.98	-0.12	0	Antenna 2	N14X7HR9FY	QPSK	1	0	0 mm	left	1:1	0.042	1.340	0.056	0.019	0.024	
782.00	23230	M4	LTE Band 13	10	18.25	17.15	-0.12	0	Antenna 2	N14X7HR9FY	QPSK	25	12	0 mm	left	1:1	0.038	1.288	0.049	0.016	0.021	
ANSI / IEEE C62.1 1992 - SAFETY LIMIT Spatial Peak											Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																						


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Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 145 of 201

Table 10-16
LTE Band 13 Antenna 4 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [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) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot #	
Mhz	Ch.																					
782.00	23230	Md	LTE Band 13	10	19.50	17.99	-0.13	0	Antenna 4	MHFS6WKTXX	QPSK	1	0	0 mm	back	1:1	0.657	1.416	0.930	0.324	0.459	
782.00	23230	Md	LTE Band 13	10	19.50	18.10	-0.19	0	Antenna 4	MHFS6WKTXX	QPSK	25	0	0 mm	back	1:1	0.650	1.380	0.987	0.323	0.446	
782.00	23230	Md	LTE Band 13	10	19.50	17.98	-0.14	0	Antenna 4	MHFS6WKTXX	QPSK	50	0	0 mm	back	1:1	0.698	1.419	0.950	0.321	0.470	A6
782.00	23230	Md	LTE Band 13	10	19.50	17.99	-0.09	0	Antenna 4	MHFS6WKTXX	QPSK	1	0	0 mm	top	1:1	0.364	1.416	0.515	0.189	0.288	
782.00	23230	Md	LTE Band 13	10	19.50	18.10	-0.06	0	Antenna 4	MHFS6WKTXX	QPSK	25	0	0 mm	top	1:1	0.363	1.380	0.501	0.188	0.259	
782.00	23230	Md	LTE Band 13	10	19.50	17.99	-0.08	0	Antenna 4	MHFS6WKTXX	QPSK	1	0	0 mm	bottom	1:1	0.020	1.416	0.028	0.010	0.014	
782.00	23230	Md	LTE Band 13	10	19.50	18.10	0.12	0	Antenna 4	MHFS6WKTXX	QPSK	25	0	0 mm	bottom	1:1	0.020	1.380	0.028	0.010	0.014	
782.00	23230	Md	LTE Band 13	10	19.50	17.99	0.07	0	Antenna 4	MHFS6WKTXX	QPSK	1	0	0 mm	right	1:1	0.049	1.416	0.069	0.022	0.031	
782.00	23230	Md	LTE Band 13	10	19.50	18.10	0.04	0	Antenna 4	MHFS6WKTXX	QPSK	25	0	0 mm	right	1:1	0.052	1.380	0.072	0.022	0.030	
782.00	23230	Md	LTE Band 13	10	19.50	17.99	-0.04	0	Antenna 4	MHFS6WKTXX	QPSK	1	0	0 mm	left	1:1	0.490	1.416	0.684	0.191	0.270	
782.00	23230	Md	LTE Band 13	10	19.50	18.10	-0.03	0	Antenna 4	MHFS6WKTXX	QPSK	25	0	0 mm	left	1:1	0.502	1.380	0.693	0.194	0.268	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak																	Body 1.6 W/kg (mW/g) averaged over 1 gram					
Uncontrolled Exposure/General Population																						

Table 10-17
LTE Band 14 Antenna 2 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [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) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot #	
Mhz	Ch.																					
793.00	23330	Md	LTE Band 14	10	18.25	17.14	-0.02	0	Antenna 2	HQWTR4Q31P	QPSK	1	0	0 mm	back	1:1	0.482	1.291	0.622	0.221	0.285	
793.00	23330	Md	LTE Band 14	10	18.25	17.31	0.00	0	Antenna 2	HQWTR4Q31P	QPSK	25	12	0 mm	back	1:1	0.475	1.242	0.590	0.218	0.271	
793.00	23330	Md	LTE Band 14	10	18.25	17.14	0.01	0	Antenna 2	HQWTR4Q31P	QPSK	1	0	0 mm	top	1:1	0.009	1.291	0.012	0.005	0.006	
793.00	23330	Md	LTE Band 14	10	18.25	17.31	-0.15	0	Antenna 2	HQWTR4Q31P	QPSK	25	12	0 mm	top	1:1	0.007	1.242	0.009	0.004	0.005	
793.00	23330	Md	LTE Band 14	10	18.25	17.14	0.01	0	Antenna 2	HQWTR4Q31P	QPSK	1	0	0 mm	bottom	1:1	0.536	1.291	0.692	0.233	0.301	
793.00	23330	Md	LTE Band 14	10	18.25	17.31	0.02	0	Antenna 2	HQWTR4Q31P	QPSK	25	12	0 mm	bottom	1:1	0.555	1.242	0.689	0.243	0.302	
793.00	23330	Md	LTE Band 14	10	18.25	17.14	0.08	0	Antenna 2	HQWTR4Q31P	QPSK	1	0	0 mm	right	1:1	0.453	1.291	0.585	0.172	0.222	
793.00	23330	Md	LTE Band 14	10	18.25	17.31	-0.04	0	Antenna 2	HQWTR4Q31P	QPSK	25	12	0 mm	right	1:1	0.448	1.242	0.556	0.170	0.211	
793.00	23330	Md	LTE Band 14	10	18.25	17.14	-0.20	0	Antenna 2	HQWTR4Q31P	QPSK	1	0	0 mm	left	1:1	0.026	1.291	0.034	0.011	0.014	
793.00	23330	Md	LTE Band 14	10	18.25	17.31	-0.04	0	Antenna 2	HQWTR4Q31P	QPSK	25	12	0 mm	left	1:1	0.032	1.242	0.040	0.014	0.017	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak																	Body 1.6 W/kg (mW/g) averaged over 1 gram					
Uncontrolled Exposure/General Population																						

Table 10-18
LTE Band 14 Antenna 4 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [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) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot #	
Mhz	Ch.																					
793.00	23330	Md	LTE Band 14	10	19.50	18.80	0.01	0	Antenna 4	WY4QW7W9G	QPSK	1	0	0 mm	back	1:1	0.788	1.175	0.924	0.371	0.436	
793.00	23330	Md	LTE Band 14	10	19.50	18.77	-0.01	0	Antenna 4	WY4QW7W9G	QPSK	25	12	0 mm	back	1:1	0.841	1.183	0.995	0.403	0.477	A7
793.00	23330	Md	LTE Band 14	10	19.50	18.74	0.01	0	Antenna 4	WY4QW7W9G	QPSK	50	0	0 mm	back	1:1	0.834	1.191	0.983	0.389	0.475	
793.00	23330	Md	LTE Band 14	10	19.50	18.80	-0.03	0	Antenna 4	WY4QW7W9G	QPSK	1	0	0 mm	top	1:1	0.534	1.175	0.627	0.255	0.300	
793.00	23330	Md	LTE Band 14	10	19.50	18.77	0.00	0	Antenna 4	WY4QW7W9G	QPSK	25	12	0 mm	top	1:1	0.583	1.183	0.680	0.279	0.330	
793.00	23330	Md	LTE Band 14	10	19.50	18.80	0.15	0	Antenna 4	WY4QW7W9G	QPSK	1	0	0 mm	bottom	1:1	0.012	1.175	0.014	0.007	0.008	
793.00	23330	Md	LTE Band 14	10	19.50	18.77	0.11	0	Antenna 4	WY4QW7W9G	QPSK	25	12	0 mm	bottom	1:1	0.006	1.183	0.009	0.004	0.005	
793.00	23330	Md	LTE Band 14	10	19.50	18.80	-0.16	0	Antenna 4	WY4QW7W9G	QPSK	1	0	0 mm	right	1:1	0.045	1.175	0.053	0.021	0.025	
793.00	23330	Md	LTE Band 14	10	19.50	18.77	0.11	0	Antenna 4	WY4QW7W9G	QPSK	25	12	0 mm	right	1:1	0.052	1.183	0.062	0.024	0.028	
793.00	23330	Md	LTE Band 14	10	19.50	18.80	-0.12	0	Antenna 4	WY4QW7W9G	QPSK	1	0	0 mm	left	1:1	0.671	1.175	0.788	0.268	0.303	
793.00	23330	Md	LTE Band 14	10	19.50	18.77	0.00	0	Antenna 4	WY4QW7W9G	QPSK	25	12	0 mm	left	1:1	0.889	1.183	0.815	0.263	0.311	
793.00	23330	Md	LTE Band 14	10	19.50	18.74	0.00	0	Antenna 4	WY4QW7W9G	QPSK	50	0	0 mm	left	1:1	0.677	1.191	0.836	0.261	0.311	
793.00	23230	Md	LTE Band 14	10	19.50	18.77	-0.01	0	Antenna 4	WY4QW7W9G	QPSK	25	12	0 mm	back	1:1	0.791	1.183	0.924	0.374	0.442	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak																	Body 1.6 W/kg (mW/g) averaged over 1 gram					
Uncontrolled Exposure/General Population																						

Note: Blue entry represents variability measurement.


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Table 10-19
LTE Band 26 (Cell) Antenna 2 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens (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) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pwr #	
Mhz	Ch.																					
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.49	0.08	0	Antenna 2	QW4VQV2CF	QPSK	1	0	0 mm	back	1:1	0.662	1.321	0.875	0.290	0.383	
831.50	26865	Mid	LTE Band 26 (Cell)	10	17.70	16.34	0.08	0	Antenna 2	QW4VQV2CF	QPSK	1	49	0 mm	back	1:1	0.564	1.368	0.772	0.255	0.349	
844.00	26990	High	LTE Band 26 (Cell)	10	17.70	16.36	0.04	0	Antenna 2	QW4VQV2CF	QPSK	1	49	0 mm	back	1:1	0.524	1.361	0.713	0.237	0.323	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.63	0.04	0	Antenna 2	QW4VQV2CF	QPSK	25	12	0 mm	back	1:1	0.652	1.279	0.834	0.294	0.376	
831.50	26865	Mid	LTE Band 26 (Cell)	10	17.70	16.51	0.03	0	Antenna 2	QW4VQV2CF	QPSK	25	12	0 mm	back	1:1	0.605	1.315	0.796	0.273	0.359	
844.00	26990	High	LTE Band 26 (Cell)	10	17.70	16.57	0.04	0	Antenna 2	QW4VQV2CF	QPSK	25	12	0 mm	back	1:1	0.561	1.297	0.728	0.263	0.328	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.36	0.03	0	Antenna 2	QW4VQV2CF	QPSK	50	0	0 mm	back	1:1	0.614	1.361	0.836	0.269	0.366	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.49	0.13	0	Antenna 2	QW4VQV2CF	QPSK	1	0	0 mm	top	1:1	0.909	1.321	0.612	0.004	0.005	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.63	0.15	0	Antenna 2	QW4VQV2CF	QPSK	25	13	0 mm	top	1:1	0.912	1.279	0.615	0.005	0.006	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.49	0.06	0	Antenna 2	QW4VQV2CF	QPSK	1	0	0 mm	bottom	1:1	0.391	1.321	0.517	0.189	0.250	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.63	0.02	0	Antenna 2	QW4VQV2CF	QPSK	25	12	0 mm	bottom	1:1	0.406	1.279	0.519	0.195	0.249	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.49	0.00	0	Antenna 2	QW4VQV2CF	QPSK	1	0	0 mm	right	1:1	0.297	1.321	0.392	0.119	0.157	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.63	-0.18	0	Antenna 2	QW4VQV2CF	QPSK	25	12	0 mm	right	1:1	0.317	1.279	0.405	0.127	0.162	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.49	0.12	0	Antenna 2	QW4VQV2CF	QPSK	1	0	0 mm	left	1:1	0.021	1.321	0.028	0.010	0.013	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	16.63	0.20	0	Antenna 2	QW4VQV2CF	QPSK	25	12	0 mm	left	1:1	0.023	1.279	0.029	0.011	0.014	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-20
LTE Band 26 (Cell) Antenna 4 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens (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) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pwr #	
Mhz	Ch.																					
819.00	26740	Low	LTE Band 26 (Cell)	10	18.80	17.40	0.05	0	Antenna 4	D5Y77GFJ83	QPSK	1	0	0 mm	back	1:1	0.690	1.380	0.952	0.345	0.476	
831.50	26865	Mid	LTE Band 26 (Cell)	10	18.80	17.48	-0.02	0	Antenna 4	D5Y77GFJ83	QPSK	1	0	0 mm	back	1:1	0.625	1.355	0.847	0.320	0.434	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.60	-0.05	0	Antenna 4	D5Y77GFJ83	QPSK	1	25	0 mm	back	1:1	0.634	1.318	0.836	0.314	0.414	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.80	17.70	-0.07	0	Antenna 4	D5Y77GFJ83	QPSK	25	12	0 mm	back	1:1	0.733	1.288	0.844	0.369	0.475	AB
831.50	26865	Mid	LTE Band 26 (Cell)	10	18.80	17.62	-0.03	0	Antenna 4	D5Y77GFJ83	QPSK	25	13	0 mm	back	1:1	0.642	1.312	0.842	0.327	0.429	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.73	0.01	0	Antenna 4	D5Y77GFJ83	QPSK	25	12	0 mm	back	1:1	0.657	1.279	0.840	0.326	0.417	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.59	-0.02	0	Antenna 4	D5Y77GFJ83	QPSK	50	0	0 mm	back	1:1	0.643	1.321	0.849	0.320	0.423	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.60	-0.03	0	Antenna 4	D5Y77GFJ83	QPSK	1	25	0 mm	top	1:1	0.465	1.318	0.613	0.230	0.303	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.73	0.04	0	Antenna 4	D5Y77GFJ83	QPSK	25	12	0 mm	top	1:1	0.491	1.279	0.628	0.241	0.308	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.60	0.15	0	Antenna 4	D5Y77GFJ83	QPSK	1	25	0 mm	bottom	1:1	0.016	1.318	0.021	0.008	0.011	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.73	0.13	0	Antenna 4	D5Y77GFJ83	QPSK	25	12	0 mm	bottom	1:1	0.017	1.279	0.022	0.008	0.010	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.60	0.08	0	Antenna 4	D5Y77GFJ83	QPSK	1	25	0 mm	right	1:1	0.047	1.318	0.062	0.024	0.032	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.73	0.04	0	Antenna 4	D5Y77GFJ83	QPSK	25	12	0 mm	right	1:1	0.051	1.279	0.065	0.026	0.033	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.60	0.00	0	Antenna 4	D5Y77GFJ83	QPSK	1	25	0 mm	left	1:1	0.481	1.318	0.634	0.199	0.262	
844.00	26990	High	LTE Band 26 (Cell)	10	18.80	17.73	0.01	0	Antenna 4	D5Y77GFJ83	QPSK	25	12	0 mm	left	1:1	0.500	1.279	0.640	0.208	0.266	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-21
LTE Band 5 (Cell) Antenna 2 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens (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) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pwr #			
Mhz	Ch.																							
1 CC Upkwn 12 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.44	0.04	0	Antenna 2	LOG94/W07G	QPSK	1	49	0 mm	back	1:1	0.583	1.337	0.779	0.255	0.341	
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.41	-0.01	0	Antenna 2	LOG94/W07G	QPSK	25	0	0 mm	back	1:1	0.663	1.346	0.892	0.305	0.411	
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.48	-0.20	0	Antenna 2	LOG94/W07G	QPSK	25	12	0 mm	back	1:1	0.621	1.324	0.822	0.277	0.367	
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.42	0.00	0	Antenna 2	LOG94/W07G	QPSK	50	0	0 mm	back	1:1	0.584	1.343	0.784	0.262	0.352	
2 CC Upkwn	PCC	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.89	-0.08	0	Antenna 2	LOG94/W07G	QPSK	25	0	0 mm	back	1:1	0.733	1.205	0.883	0.361	0.435	AG
2 CC Upkwn	SOC	829.30	2043	Mid	LTE Band 5 (Cell)	5	17.70	16.89	-0.08	0	Antenna 2	LOG94/W07G	QPSK	12	13	0 mm	back	1:1	0.733	1.205	0.883	0.361	0.435	AG
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.44	0.13	0	Antenna 2	LOG94/W07G	QPSK	1	49	0 mm	top	1:1	0.911	1.337	0.915	0.005	0.007	
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.48	0.10	0	Antenna 2	LOG94/W07G	QPSK	25	12	0 mm	top	1:1	0.912	1.324	0.916	0.005	0.007	
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.44	0.05	0	Antenna 2	LOG94/W07G	QPSK	1	49	0 mm	bottom	1:1	0.434	1.337	0.549	0.195	0.261	
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.48	0.05	0	Antenna 2	LOG94/W07G	QPSK	25	12	0 mm	bottom	1:1	0.432	1.324	0.559	0.204	0.270	
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.44	0.01	0	Antenna 2	LOG94/W07G	QPSK	1	49	0 mm	right	1:1	0.537	1.337	0.637	0.178	0.198	
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.48	0.03	0	Antenna 2	LOG94/W07G	QPSK	25	12	0 mm	right	1:1	0.543	1.324	0.644	0.146	0.163	
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.44	0.12	0	Antenna 2	LOG94/W07G	QPSK	1	49	0 mm	left	1:1	0.040	1.337	0.053	0.020	0.027	
1 CC Upkwn	NA	836.50	2025	Mid	LTE Band 5 (Cell)	10	17.70	16.48	0.20	0	Antenna 2	LOG94/W07G	QPSK	25	12	0 mm	left	1:1	0.026	1.324	0.048	0.016	0.024	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram								


FCC ID: BCGA2568		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 147 of 201

Table 10-22
LTE Band 5 (Cell) Antenna 4 Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [dBm]	MPE [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Dry Cycle	SAR (Tst) [W/kg]	Scaling Factor	Reported SAR (Tst) [W/kg]	SAR (Rtg) [W/kg]	Reported SAR (Rtg) [W/kg]	Part #	
		Mhz	Ch.																					
1 CC Uplink	NA	836.50	20525	Mid	LTE Band 5 (Cell)	10	18.80	17.51	-0.59	0	Antenna 4	DWLL24FM99	QPSK	1	0	0 mm	back	1.1	0.859	1.346	0.860	0.334	0.450	
1 CC Uplink	NA	836.50	20525	Mid	LTE Band 5 (Cell)	10	18.80	17.62	-0.67	0	Antenna 4	DWLL24FM99	QPSK	25	12	0 mm	back	1.1	0.866	1.312	0.874	0.340	0.446	
1 CC Uplink	NA	836.50	20525	Mid	LTE Band 5 (Cell)	10	18.80	17.50	-0.56	0	Antenna 4	DWLL24FM99	QPSK	50	0	0 mm	back	1.1	0.706	1.349	0.952	0.337	0.455	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	5	18.80	17.68	-0.57	0	Antenna 4	DWLL24FM99	QPSK	50	0	0 mm	back	1.1	0.712	1.300	0.928	0.330	0.439	
2 CC Uplink	SCC	829.30	20463	Mid	LTE Band 5 (Cell)	5	18.80	17.61	-0.61	0	Antenna 4	DWLL24FM99	QPSK	25	0	0 mm	top	1.1	0.433	1.346	0.583	0.224	0.302	
1 CC Uplink	NA	836.50	20525	Mid	LTE Band 5 (Cell)	10	18.80	17.62	-0.61	0	Antenna 4	DWLL24FM99	QPSK	25	12	0 mm	top	1.1	0.460	1.312	0.590	0.233	0.306	
1 CC Uplink	NA	836.50	20525	Mid	LTE Band 5 (Cell)	10	18.80	17.51	0.19	0	Antenna 4	DWLL24FM99	QPSK	1	0	0 mm	bottom	1.1	0.015	1.346	0.020	0.007	0.009	
1 CC Uplink	NA	836.50	20525	Mid	LTE Band 5 (Cell)	10	18.80	17.62	0.12	0	Antenna 4	DWLL24FM99	QPSK	25	12	0 mm	bottom	1.1	0.015	1.312	0.020	0.007	0.009	
1 CC Uplink	NA	836.50	20525	Mid	LTE Band 5 (Cell)	10	18.80	17.51	0.10	0	Antenna 4	DWLL24FM99	QPSK	1	0	0 mm	right	1.1	0.045	1.346	0.061	0.023	0.031	
1 CC Uplink	NA	836.50	20525	Mid	LTE Band 5 (Cell)	10	18.80	17.62	-0.55	0	Antenna 4	DWLL24FM99	QPSK	25	12	0 mm	right	1.1	0.548	1.312	0.563	0.204	0.281	
1 CC Uplink	NA	836.50	20525	Mid	LTE Band 5 (Cell)	10	18.80	17.51	0.50	0	Antenna 4	DWLL24FM99	QPSK	1	0	0 mm	left	1.1	0.480	1.346	0.640	0.201	0.271	
1 CC Uplink	NA	836.50	20525	Mid	LTE Band 5 (Cell)	10	18.80	17.62	0.01	0	Antenna 4	DWLL24FM99	QPSK	25	12	0 mm	left	1.1	0.509	1.312	0.668	0.211	0.277	
ANSI / IEEE C63.1-1997 - SAFETY LIMIT																Body								
Spatial Peak																1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 1 gram								

Table 10-23
LTE Band 66 (AWS) Antenna 1b Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [dBm]	MPE [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Dry Cycle	SAR (Tst) [W/kg]	Scaling Factor	Reported SAR (Tst) [W/kg]	SAR (Rtg) [W/kg]	Reported SAR (Rtg) [W/kg]	Part #	
		Mhz	Ch.																					
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.30	-0.00	0	Antenna 1b	YDHF64ALX	QPSK	1	0	0 mm	back	1.1	0.689	1.230	0.647	0.277	0.341	
1 CC Uplink	NA	1745.00	130232	Mid	LTE Band 66 (AWS)	20	12.20	11.28	-0.00	0	Antenna 1b	YDHF64ALX	QPSK	1	0	0 mm	back	1.1	0.679	1.236	0.639	0.272	0.336	
1 CC Uplink	NA	1770.00	130270	High	LTE Band 66 (AWS)	20	12.20	11.20	-0.01	0	Antenna 1b	YDHF64ALX	QPSK	1	0	0 mm	back	1.1	0.709	1.259	0.683	0.281	0.354	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.36	-0.02	0	Antenna 1b	YDHF64ALX	QPSK	50	25	0 mm	back	1.1	0.869	1.213	0.848	0.280	0.340	
1 CC Uplink	NA	1745.00	130232	Mid	LTE Band 66 (AWS)	20	12.20	11.30	-0.07	0	Antenna 1b	YDHF64ALX	QPSK	50	25	0 mm	back	1.1	0.715	1.230	0.679	0.284	0.349	
1 CC Uplink	NA	1770.00	130270	High	LTE Band 66 (AWS)	20	12.20	11.31	-0.01	0	Antenna 1b	YDHF64ALX	QPSK	50	0	0 mm	back	1.1	0.730	1.227	0.696	0.291	0.357	
1 CC Uplink	NA	1770.00	130270	High	LTE Band 66 (AWS)	20	12.20	11.26	-0.00	0	Antenna 1b	YDHF64ALX	QPSK	50	25	0 mm	back	1.1	0.738	1.216	0.697	0.292	0.355	
1 CC Uplink	NA	1775.00	130262	High	LTE Band 66 (AWS)	10	12.20	11.20	-0.00	0	Antenna 1b	YDHF64ALX	QPSK	25	0	0 mm	back	1.1	0.734	1.222	0.697	0.291	0.356	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.20	-0.01	0	Antenna 1b	YDHF64ALX	QPSK	100	0	0 mm	back	1.1	0.713	1.233	0.679	0.284	0.350	
2 CC Uplink CA, MCC	PCC	1770.00	130270	High	LTE Band 66 (AWS)	20	12.20	11.22	-0.01	0	Antenna 1b	YDHF64ALX	QPSK	50	0	0 mm	back	1.1	0.702	1.253	0.680	0.280	0.351	
2 CC Uplink CA, MCC	SCC	1700.00	130234	High	LTE Band 66 (AWS)	20	12.20	11.22	-0.01	0	Antenna 1b	YDHF64ALX	QPSK	50	50	0 mm	back	1.1	0.702	1.253	0.680	0.280	0.351	
2 CC Uplink CA, MCC	PCC	1775.00	130262	High	LTE Band 66 (AWS)	10	12.20	11.25	-0.01	0	Antenna 1b	YDHF64ALX	QPSK	25	0	0 mm	back	1.1	0.719	1.245	0.695	0.284	0.354	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.30	-0.18	0	Antenna 1b	YDHF64ALX	QPSK	1	0	0 mm	top	1.1	0.003	1.230	0.003	0.001	0.001	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.36	-0.11	0	Antenna 1b	YDHF64ALX	QPSK	50	25	0 mm	top	1.1	0.003	1.213	0.004	0.001	0.001	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.30	-0.00	0	Antenna 1b	YDHF64ALX	QPSK	1	0	0 mm	bottom	1.1	0.004	1.230	0.005	0.001	0.001	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.36	-0.02	0	Antenna 1b	YDHF64ALX	QPSK	50	25	0 mm	bottom	1.1	0.003	1.213	0.003	0.001	0.001	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.30	0.12	0	Antenna 1b	YDHF64ALX	QPSK	1	0	0 mm	right	1.1	0.003	1.230	0.005	0.001	0.001	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.36	0.17	0	Antenna 1b	YDHF64ALX	QPSK	50	25	0 mm	right	1.1	0.015	1.213	0.016	0.006	0.007	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.30	0.13	0	Antenna 1b	YDHF64ALX	QPSK	1	0	0 mm	left	1.1	0.008	1.230	0.004	0.016	0.020	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	12.20	11.36	0.08	0	Antenna 1b	YDHF64ALX	QPSK	50	25	0 mm	left	1.1	0.038	1.213	0.046	0.018	0.022	
ANSI / IEEE C63.1-1997 - SAFETY LIMIT																Body								
Spatial Peak																1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 1 gram								

Table 10-24
LTE Band 66 (AWS) Antenna 2 Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [dBm]	MPE [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Dry Cycle	SAR (Tst) [W/kg]	Scaling Factor	Reported SAR (Tst) [W/kg]	SAR (Rtg) [W/kg]	Reported SAR (Rtg) [W/kg]	Part #	
		Mhz	Ch.																					
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	14.10	13.30	-0.03	0	Antenna 2	FPJ4R8KDC	QPSK	1	50	0 mm	back	1.1	0.672	1.202	0.668	0.276	0.334	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	14.10	13.28	-0.02	0	Antenna 2	FPJ4R8KDC	QPSK	50	25	0 mm	back	1.1	0.693	1.208	0.716	0.288	0.345	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	14.10	13.30	-0.18	0	Antenna 2	FPJ4R8KDC	QPSK	1	50	0 mm	top	1.1	0.010	1.202	0.012	0.005	0.006	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	14.10	13.28	-0.13	0	Antenna 2	FPJ4R8KDC	QPSK	50	25	0 mm	top	1.1	0.009	1.208	0.011	0.004	0.005	
1 CC Uplink	NA	1715.00	130022	Low	LTE Band 66 (AWS)	10	14.10	13.15	-0.01	0	Antenna 2	FPJ4R8KDC	QPSK	25	25	0 mm	bottom	1.1	0.695	1.245	0.615	0.273	0.340	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	14.10	13.30	-0.05	0	Antenna 2	FPJ4R8KDC	QPSK	1	50	0 mm	bottom	1.1	0.646	1.202	0.776	0.268	0.322	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	14.10	13.28	0.01	0	Antenna 2	FPJ4R8KDC	QPSK	50	25	0 mm	bottom	1.1	0.711	1.208	0.609	0.293	0.354	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	14.10	13.27	0.04	0	Antenna 2	FPJ4R8KDC	QPSK	50	50	0 mm	bottom	1.1	0.652	1.211	0.790	0.272	0.329	
1 CC Uplink	NA	1745.00	130232	Mid	LTE Band 66 (AWS)	20	14.10	13.26	0.06	0	Antenna 2	FPJ4R8KDC	QPSK	50	25	0 mm	bottom	1.1	0.646	1.213	0.784	0.271	0.329	
1 CC Uplink	NA	1770.00	130270	High	LTE Band 66 (AWS)	20	14.10	13.26	0.03	0	Antenna 2	FPJ4R8KDC	QPSK	50	25	0 mm	bottom	1.1	0.582	1.213	0.706	0.243	0.295	
1 CC Uplink	NA	1720.00	130070	Low	LTE Band 66 (AWS)	20	14.10	13.20	0.06	0	Antenna 2	FPJ4R8KDC	QPSK	100	0	0 mm	bottom	1.1	0.557	1.216	0.677	0.233	0.283	
2 CC Uplink CA, MCC	PCC	1720.00	13007																					

Table 10-25
LTE Band 66 (AWS) Antenna 3b Body SAR

MEASUREMENT RESULTS																							
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Spectral Density (dBm/5MHz)	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Dir. Cycle	SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (1g) (W/kg)	Reported SAR (10g) (W/kg)			
		MHz	Ch.																				
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.77	0.06	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	back	1:1	0.668	1.360	0.329	0.276	0.366
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.20	11.69	0.01	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	back	1:1	0.661	1.416	0.326	0.274	0.366
1 CC Uplink	NA	1770.00	132572	High	LTE Band 66 (AWS)	20	13.20	11.67	0.05	0	Antenna 3b	YDHF64ALX	QPSK	1	50	0 mm	back	1:1	0.652	1.422	0.320	0.262	0.401
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.80	0.03	0	Antenna 3b	YDHF64ALX	QPSK	50	25	0 mm	back	1:1	0.657	1.365	0.357	0.274	0.374
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.20	11.71	0.02	0	Antenna 3b	YDHF64ALX	QPSK	50	25	0 mm	back	1:1	0.677	1.409	0.354	0.261	0.396
1 CC Uplink	NA	1770.00	132572	High	LTE Band 66 (AWS)	20	13.20	11.70	0.02	0	Antenna 3b	YDHF64ALX	QPSK	50	25	0 mm	back	1:1	0.687	1.413	0.365	0.268	0.407
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.76	0.03	0	Antenna 3b	YDHF64ALX	QPSK	100	0	0 mm	back	1:1	0.670	1.363	0.333	0.276	0.387
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.77	0.02	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	top	1:1	0.689	1.360	0.358	0.292	0.406
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.20	11.69	0.10	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	top	1:1	0.703	1.416	0.395	0.299	0.432
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	10	13.20	11.65	0.01	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	top	1:1	0.688	1.429	0.363	0.301	0.416
1 CC Uplink	NA	1770.00	132572	High	LTE Band 66 (AWS)	20	13.20	11.67	0.05	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	top	1:1	0.665	1.422	0.346	0.280	0.398
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.85	0.00	0	Antenna 3b	YDHF64ALX	QPSK	50	25	0 mm	top	1:1	0.708	1.365	0.368	0.301	0.411
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.20	11.71	0.04	0	Antenna 3b	YDHF64ALX	QPSK	50	25	0 mm	top	1:1	0.700	1.409	0.386	0.299	0.421
1 CC Uplink	NA	1770.00	132572	High	LTE Band 66 (AWS)	20	13.20	11.70	0.01	0	Antenna 3b	YDHF64ALX	QPSK	50	25	0 mm	top	1:1	0.687	1.413	0.371	0.301	0.411
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.76	0.00	0	Antenna 3b	YDHF64ALX	QPSK	100	0	0 mm	top	1:1	0.713	1.363	0.363	0.301	0.419
2 CC Uplink (S-Band)	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.20	11.80	0.00	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	top	1:1	0.692	1.380	0.355	0.269	0.399
2 CC Uplink (S-Band)	SCC	1725.00	132124	Mid	LTE Band 66 (AWS)	20	13.20	11.80	0.00	0	Antenna 3b	YDHF64ALX	QPSK	1	90	0 mm	top	1:1	0.692	1.380	0.355	0.269	0.399
2 CC Uplink (S-Band)	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	10	13.20	11.81	0.01	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	top	1:1	0.648	1.442	0.334	0.273	0.394
2 CC Uplink (S-Band)	SCC	1735.15	132322	Mid	LTE Band 66 (AWS)	10	13.20	11.81	0.01	0	Antenna 3b	YDHF64ALX	QPSK	1	49	0 mm	top	1:1	0.648	1.442	0.334	0.273	0.394
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.77	0.06	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	bottom	1:1	0.214	1.366	0.019	0.005	0.007
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.80	0.13	0	Antenna 3b	YDHF64ALX	QPSK	50	25	0 mm	bottom	1:1	0.213	1.365	0.014	0.004	0.005
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.77	0.05	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	right	1:1	0.204	1.366	0.025	0.026	0.026
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.80	0.16	0	Antenna 3b	YDHF64ALX	QPSK	50	25	0 mm	right	1:1	0.204	1.365	0.024	0.024	0.023
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.97	0.14	0	Antenna 3b	YDHF64ALX	QPSK	1	0	0 mm	left	1:1	0.229	1.360	0.040	0.014	0.019
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	11.95	0.14	0	Antenna 3b	YDHF64ALX	QPSK	50	25	0 mm	left	1:1	0.228	1.365	0.038	0.014	0.019
ANSI / IEEE CS 1.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 10-26
LTE Band 66 (AWS) Antenna 4 Body SAR

MEASUREMENT RESULTS																							
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Spectral Density (dBm/5MHz)	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Dir. Cycle	SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (1g) (W/kg)	Reported SAR (10g) (W/kg)			
		MHz	Ch.																				
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	14.30	13.52	-0.14	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	back	1:1	0.667	1.197	0.256	0.256	0.254
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.30	13.30	-0.16	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	back	1:1	0.670	1.233	0.436	0.286	0.355
1 CC Uplink	NA	1770.00	132572	High	LTE Band 66 (AWS)	20	14.30	13.30	-0.05	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	back	1:1	0.639	1.259	0.792	0.291	0.366
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	14.30	13.54	-0.08	0	Antenna 4	FPJF49KDC	QPSK	50	0	0 mm	back	1:1	0.763	1.191	0.809	0.321	0.382
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.30	13.56	-0.08	0	Antenna 4	FPJF49KDC	QPSK	50	25	0 mm	back	1:1	0.680	1.186	0.818	0.303	0.358
1 CC Uplink	NA	1770.00	132572	High	LTE Band 66 (AWS)	20	14.30	13.47	-0.07	0	Antenna 4	FPJF49KDC	QPSK	50	0	0 mm	back	1:1	0.629	1.211	0.762	0.293	0.355
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	14.30	13.47	-0.04	0	Antenna 4	FPJF49KDC	QPSK	100	0	0 mm	back	1:1	0.675	1.211	0.817	0.305	0.369
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	14.30	13.52	-0.04	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	top	1:1	0.670	1.197	0.970	0.354	0.400
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.30	13.30	-0.09	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	top	1:1	0.601	1.233	0.968	0.332	0.400
1 CC Uplink	NA	1770.00	132572	High	LTE Band 66 (AWS)	20	14.30	13.30	0.01	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	top	1:1	0.751	1.259	0.996	0.327	0.412
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	14.30	13.54	-0.02	0	Antenna 4	FPJF49KDC	QPSK	50	0	0 mm	top	1:1	0.822	1.191	0.979	0.339	0.404
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.30	13.56	-0.01	0	Antenna 4	FPJF49KDC	QPSK	50	25	0 mm	top	1:1	0.816	1.186	0.968	0.338	0.401
1 CC Uplink	NA	1770.00	132572	High	LTE Band 66 (AWS)	20	14.30	13.47	-0.01	0	Antenna 4	FPJF49KDC	QPSK	50	0	0 mm	top	1:1	0.823	1.211	0.997	0.337	0.408
1 CC Uplink	NA	1770.00	132572	High	LTE Band 66 (AWS)	10	14.30	13.38	0.00	0	Antenna 4	FPJF49KDC	QPSK	25	0	0 mm	top	1:1	0.786	1.236	0.971	0.323	0.399
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	14.30	13.47	0.00	0	Antenna 4	FPJF49KDC	QPSK	100	0	0 mm	top	1:1	0.769	1.211	0.968	0.330	0.400
2 CC Uplink (S-Band)	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	14.30	13.11	0.03	0	Antenna 4	FPJF49KDC	QPSK	50	0	0 mm	top	1:1	0.741	1.315	0.974	0.308	0.405
2 CC Uplink (S-Band)	SCC	1750.20	132374	High	LTE Band 66 (AWS)	20	14.30	13.11	0.03	0	Antenna 4	FPJF49KDC	QPSK	50	50	0 mm	top	1:1	0.741	1.315	0.974	0.308	0.405
2 CC Uplink (S-Band)	PCC	1779.15	132622	High	LTE Band 66 (AWS)	10	14.30	13.12	0.02	0	Antenna 4	FPJF49KDC	QPSK	25	0	0 mm	top	1:1	0.706	1.312	0.926	0.292	0.383
2 CC Uplink (S-Band)	SCC	1769.15	132623	High	LTE Band 66 (AWS)	10	14.30	13.12	0.02	0	Antenna 4	FPJF49KDC	QPSK	25	25	0 mm	top	1:1	0.706	1.312	0.926	0.292	0.383
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	14.30	13.52	0.12	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	bottom	1:1	0.010	1.197	0.012	0.003	0.004
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.30	13.56	0.19	0	Antenna 4	FPJF49KDC	QPSK	50	25	0 mm	bottom	1:1	0.010	1.186	0.012	0.003	0.004
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	14.30	13.52	0.17	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	right	1:1	0.005	1.197	0.006	0.002	0.002
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.30	13.56	0.16	0	Antenna 4	FPJF49KDC	QPSK	50	25	0 mm	right	1:1	0.002	1.186	0.002	0.001	0.001
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	14.30	13.52	0.03	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	left	1:1	0.684	1.197	0.819	0.272	0.326
1 CC Uplink	NA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.30	13.39	0.01	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	left	1:1	0.714	1.233	0.880	0.285	0.351
1 CC Uplink	NA	1770.00	132572	High	LTE Band 66 (AWS)	20	14.30	13.30	0.02	0	Antenna 4	FPJF49KDC	QPSK	1	0	0 mm	left	1:1	0.689	1.259	0.880	0.280	0.353
1 CC Uplink	NA	1720.00	132072	Low	LTE Band 66 (AWS)	20	14.30	13.54	0.02	0	Antenna 4	FPJF49KDC	QPSK	50	0	0 mm	left	1:1	0.763	1.191	0.837	0.279	0.332
1 CC Uplink	NA	1745																					

**Table 10-27
LTE Band 25 (PCS) Antenna 1b Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Chg [dB]	MPR [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot #	
Mhz	Ch.																					
1860.00	26140	Low	LTE Band 25 (PCS)	20	11.20	10.75	-0.09	0	Antenna 1b	LOGSA-JW07G	QPSK	1	0	0 mm	back	1:1	0.809	1.109	0.807	0.318	0.353	A11
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.95	-0.12	0	Antenna 1b	LOGSA-JW07G	QPSK	1	50	0 mm	back	1:1	0.792	1.059	0.828	0.305	0.323	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.20	10.86	-0.11	0	Antenna 1b	LOGSA-JW07G	QPSK	1	0	0 mm	back	1:1	0.793	1.081	0.811	0.290	0.319	
1860.00	26140	Low	LTE Band 25 (PCS)	20	11.20	10.97	-0.08	0	Antenna 1b	LOGSA-JW07G	QPSK	50	25	0 mm	back	1:1	0.863	1.054	0.846	0.317	0.334	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.98	-0.09	0	Antenna 1b	LOGSA-JW07G	QPSK	50	0	0 mm	back	1:1	0.803	1.052	0.845	0.315	0.331	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.20	10.93	-0.16	0	Antenna 1b	LOGSA-JW07G	QPSK	50	50	0 mm	back	1:1	0.790	1.064	0.809	0.298	0.317	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.94	-0.14	0	Antenna 1b	LOGSA-JW07G	QPSK	100	0	0 mm	back	1:1	0.774	1.062	0.822	0.304	0.323	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.95	0.11	0	Antenna 1b	LOGSA-JW07G	QPSK	1	50	0 mm	top	1:1	0.008	1.059	0.008	0.002	0.002	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.98	0.18	0	Antenna 1b	LOGSA-JW07G	QPSK	50	0	0 mm	top	1:1	0.009	1.052	0.009	0.002	0.002	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.95	0.07	0	Antenna 1b	LOGSA-JW07G	QPSK	1	50	0 mm	bottom	1:1	0.430	1.059	0.455	0.182	0.193	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.98	-0.01	0	Antenna 1b	LOGSA-JW07G	QPSK	50	0	0 mm	bottom	1:1	0.462	1.052	0.476	0.191	0.201	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.95	0.11	0	Antenna 1b	LOGSA-JW07G	QPSK	1	50	0 mm	right	1:1	0.008	1.059	0.008	0.004	0.004	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.98	0.18	0	Antenna 1b	LOGSA-JW07G	QPSK	50	0	0 mm	right	1:1	0.009	1.052	0.009	0.005	0.005	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.95	0.09	0	Antenna 1b	LOGSA-JW07G	QPSK	1	50	0 mm	left	1:1	0.038	1.059	0.040	0.018	0.019	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	11.20	10.98	0.03	0	Antenna 1b	LOGSA-JW07G	QPSK	50	0	0 mm	left	1:1	0.039	1.052	0.041	0.018	0.019	
1860.00	26140	Low	LTE Band 25 (PCS)	20	11.20	10.75	-0.09	0	Antenna 1b	LOGSA-JW07G	QPSK	1	0	0 mm	back	1:1	0.797	1.109	0.873	0.312	0.346	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement.

**Table 10-28
LTE Band 25 (PCS) Antenna 2 Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Chg [dB]	MPR [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot #	
Mhz	Ch.																					
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	13.00	0.08	0	Antenna 2	LOGSA-JW07G	QPSK	1	0	0 mm	back	1:1	0.674	1.202	0.810	0.299	0.359	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	13.80	12.92	0.04	0	Antenna 2	LOGSA-JW07G	QPSK	1	0	0 mm	back	1:1	0.838	1.225	0.782	0.282	0.345	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.80	12.95	0.06	0	Antenna 2	LOGSA-JW07G	QPSK	1	99	0 mm	back	1:1	0.588	1.216	0.688	0.248	0.302	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	13.11	0.02	0	Antenna 2	LOGSA-JW07G	QPSK	50	25	0 mm	back	1:1	0.673	1.172	0.789	0.300	0.352	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	12.99	0.02	0	Antenna 2	LOGSA-JW07G	QPSK	100	0	0 mm	back	1:1	0.653	1.205	0.787	0.300	0.362	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	13.00	0.18	0	Antenna 2	LOGSA-JW07G	QPSK	1	0	0 mm	top	1:1	0.011	1.202	0.013	0.005	0.006	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	13.11	0.17	0	Antenna 2	LOGSA-JW07G	QPSK	50	25	0 mm	top	1:1	0.012	1.172	0.014	0.005	0.006	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	13.00	0.09	0	Antenna 2	LOGSA-JW07G	QPSK	1	0	0 mm	bottom	1:1	0.554	1.202	0.666	0.220	0.276	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	13.11	0.01	0	Antenna 2	LOGSA-JW07G	QPSK	50	25	0 mm	bottom	1:1	0.550	1.172	0.645	0.229	0.288	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	13.00	-0.02	0	Antenna 2	LOGSA-JW07G	QPSK	1	0	0 mm	right	1:1	0.713	1.202	0.857	0.287	0.345	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	13.80	12.92	0.02	0	Antenna 2	LOGSA-JW07G	QPSK	1	0	0 mm	right	1:1	0.732	1.225	0.897	0.284	0.348	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.80	12.95	-0.07	0	Antenna 2	LOGSA-JW07G	QPSK	1	99	0 mm	right	1:1	0.643	1.216	0.782	0.257	0.313	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	13.11	-0.03	0	Antenna 2	LOGSA-JW07G	QPSK	50	25	0 mm	right	1:1	0.724	1.172	0.849	0.282	0.342	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	13.80	12.95	-0.01	0	Antenna 2	LOGSA-JW07G	QPSK	50	50	0 mm	right	1:1	0.707	1.216	0.880	0.284	0.345	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.80	13.08	-0.02	0	Antenna 2	LOGSA-JW07G	QPSK	50	25	0 mm	right	1:1	0.688	1.186	0.816	0.276	0.327	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	12.99	-0.05	0	Antenna 2	LOGSA-JW07G	QPSK	100	0	0 mm	right	1:1	0.708	1.205	0.854	0.286	0.345	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	13.00	0.13	0	Antenna 2	LOGSA-JW07G	QPSK	1	0	0 mm	left	1:1	0.010	1.202	0.012	0.004	0.005	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.80	13.11	0.15	0	Antenna 2	LOGSA-JW07G	QPSK	50	25	0 mm	left	1:1	0.009	1.172	0.011	0.004	0.005	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram							

**Table 10-29
LTE Band 25 (PCS) Antenna 3b Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Chg [dB]	MPR [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot #	
Mhz	Ch.																					
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.50	11.97	0.01	0	Antenna 3b	YDHKFG4AJX	QPSK	1	0	0 mm	back	1:1	0.791	1.130	0.854	0.318	0.350	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	12.50	12.18	0.01	0	Antenna 3b	YDHKFG4AJX	QPSK	1	50	0 mm	back	1:1	0.739	1.076	0.795	0.303	0.326	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.50	12.08	0.01	0	Antenna 3b	YDHKFG4AJX	QPSK	1	0	0 mm	back	1:1	0.747	1.102	0.823	0.307	0.338	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.50	12.22	0.12	0	Antenna 3b	YDHKFG4AJX	QPSK	50	25	0 mm	back	1:1	0.790	1.067	0.843	0.320	0.341	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	12.50	12.23	0.03	0	Antenna 3b	YDHKFG4AJX	QPSK	50	25	0 mm	back	1:1	0.768	1.064	0.817	0.315	0.335	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.50	12.14	-0.01	0	Antenna 3b	YDHKFG4AJX	QPSK	50	0	0 mm	back	1:1	0.776	1.086	0.843	0.318	0.345	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	12.50	12.15	0.01	0	Antenna 3b	YDHKFG4AJX	QPSK	100	0	0 mm	back	1:1	0.760	1.084	0.824	0.312	0.338	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.50	11.97	-0.04	0	Antenna 3b	YDHKFG4AJX	QPSK	1	0	0 mm	top	1:1	0.883	1.130	0.772	0.287	0.324	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	12.50	12.18	0.01	0	Antenna 3b	YDHKFG4AJX	QPSK	1	50	0 mm	top	1:1	0.667	1.076	0.707	0.276	0.297	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.50	12.08	0.03	0	Antenna 3b	YDHKFG4AJX	QPSK	1	0	0 mm	top	1:1	0.685	1.102	0.733	0.279	0.307	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.50	12.22	-0.02	0	Antenna 3b	YDHKFG4AJX	QPSK	50	25	0 mm	top	1:1	0.679	1.067	0.724	0.284	0.303	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	12.50	12.23	0.04	0	Antenna 3b	YDHKFG4AJX	QPSK	50	25	0 mm	top	1:1	0.679	1.064	0.722	0.284	0.302	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.50	12.14	0.07	0	Antenna 3b	YDHKFG4AJX	QPSK	50	0	0 mm	top	1:1	0.678	1.086	0.738	0.285	0.310	
1862.50	26365	Mid	LTE Band 25 (PCS)	20	1																	

Table 10-30
LTE Band 25 (PCS) Antenna 4 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [dB]	MPR [dB]	Antenna Config	Device Serial Number	Modulation	#B Size	#B Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR	Reported SAR		
[MHz]	Ch.															(W/kg)		(W/kg)		(W/kg)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	12.94	0.01	0	Antenna 4	352797110564155	QPSK	1	0	0 mm	back	1.1	0.540	1.276	0.889	0.264	0.337
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	13.09	-0.04	0	Antenna 4	352797110564155	QPSK	50	0	0 mm	back	1.1	0.559	1.233	0.889	0.273	0.337
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	12.94	-0.02	0	Antenna 4	352797110564155	QPSK	1	0	0 mm	top	1.1	0.641	1.276	0.916	0.263	0.336
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.00	12.93	-0.01	0	Antenna 4	352797110564155	QPSK	1	99	0 mm	top	1.1	0.644	1.279	0.924	0.263	0.336
1905.00	26590	High	LTE Band 25 (PCS)	20	14.00	12.93	-0.01	0	Antenna 4	352797110564155	QPSK	1	99	0 mm	top	1.1	0.624	1.279	0.798	0.254	0.325
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	13.09	-0.02	0	Antenna 4	352797110564155	QPSK	50	0	0 mm	top	1.1	0.660	1.233	0.914	0.271	0.334
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.00	13.02	-0.04	0	Antenna 4	352797110564155	QPSK	50	50	0 mm	top	1.1	0.663	1.253	0.831	0.270	0.338
1905.00	26590	High	LTE Band 25 (PCS)	20	14.00	13.08	-0.01	0	Antenna 4	352797110564155	QPSK	50	25	0 mm	top	1.1	0.656	1.236	0.915	0.269	0.332
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	12.93	-0.01	0	Antenna 4	352797110564155	QPSK	100	0	0 mm	top	1.1	0.655	1.279	0.838	0.268	0.343
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	12.94	0.15	0	Antenna 4	352797110564155	QPSK	1	0	0 mm	bottom	1.1	0.002	1.276	0.003	0.000	0.000
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	13.09	0.15	0	Antenna 4	352797110564155	QPSK	50	0	0 mm	bottom	1.1	0.002	1.233	0.002	0.000	0.000
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	12.94	0.12	0	Antenna 4	352797110564155	QPSK	1	0	0 mm	right	1.1	0.001	1.276	0.001	0.000	0.000
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	13.09	0.11	0	Antenna 4	352797110564155	QPSK	50	0	0 mm	right	1.1	0.001	1.233	0.001	0.000	0.000
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	12.94	0.04	0	Antenna 4	352797110564155	QPSK	1	0	0 mm	left	1.1	0.673	1.276	0.859	0.274	0.350
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.00	12.93	0.02	0	Antenna 4	352797110564155	QPSK	1	99	0 mm	left	1.1	0.697	1.279	0.891	0.280	0.358
1905.00	26590	High	LTE Band 25 (PCS)	20	14.00	12.93	0.01	0	Antenna 4	352797110564155	QPSK	1	99	0 mm	left	1.1	0.700	1.279	0.895	0.279	0.357
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	13.09	-0.02	0	Antenna 4	352797110564155	QPSK	50	0	0 mm	left	1.1	0.696	1.233	0.858	0.283	0.349
1862.50	26365	Mid	LTE Band 25 (PCS)	20	14.00	13.02	0.03	0	Antenna 4	352797110564155	QPSK	50	50	0 mm	left	1.1	0.712	1.253	0.892	0.286	0.356
1905.00	26590	High	LTE Band 25 (PCS)	20	14.00	13.08	0.02	0	Antenna 4	352797110564155	QPSK	50	25	0 mm	left	1.1	0.724	1.236	0.895	0.289	0.357
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.00	12.93	-0.12	0	Antenna 4	352797110564155	QPSK	100	0	0 mm	left	1.1	0.699	1.279	0.894	0.284	0.363
ANSI / IEEE CS6.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-31
LTE Band 30 Antenna 1b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [dB]	MPR [dB]	Antenna Config	Device Serial Number	Modulation	#B Size	#B Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR	Reported SAR		
[MHz]	Ch.															(W/kg)		(W/kg)		(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	12.30	11.72	-0.02	0	Antenna 1b	LOG8AJW07G	QPSK	1	0	0 mm	back	1.1	0.759	1.143	0.868	0.276	0.315
2310.00	27710	Mid	LTE Band 30	10	12.30	11.98	0.21	0	Antenna 1b	LOG8AJW07G	QPSK	25	12	0 mm	back	1.1	0.754	1.076	0.822	0.268	0.289
2310.00	27710	Mid	LTE Band 30	10	12.30	11.70	-0.01	0	Antenna 1b	LOG8AJW07G	QPSK	50	0	0 mm	back	1.1	0.751	1.148	0.862	0.283	0.302
2310.00	27710	Mid	LTE Band 30	10	12.30	11.72	0.05	0	Antenna 1b	LOG8AJW07G	QPSK	1	0	0 mm	top	1.1	0.046	1.143	0.053	0.015	0.017
2310.00	27710	Mid	LTE Band 30	10	12.30	11.98	0.18	0	Antenna 1b	LOG8AJW07G	QPSK	25	12	0 mm	top	1.1	0.036	1.076	0.042	0.013	0.014
2310.00	27710	Mid	LTE Band 30	10	12.30	11.72	0.01	0	Antenna 1b	LOG8AJW07G	QPSK	1	0	0 mm	bottom	1.1	0.602	1.143	0.888	0.206	0.235
2310.00	27710	Mid	LTE Band 30	10	12.30	11.98	-0.02	0	Antenna 1b	LOG8AJW07G	QPSK	25	12	0 mm	bottom	1.1	0.634	1.076	0.862	0.217	0.233
2310.00	27710	Mid	LTE Band 30	10	12.30	11.72	-0.10	0	Antenna 1b	LOG8AJW07G	QPSK	1	0	0 mm	right	1.1	0.033	1.143	0.038	0.013	0.015
2310.00	27710	Mid	LTE Band 30	10	12.30	11.98	0.03	0	Antenna 1b	LOG8AJW07G	QPSK	25	12	0 mm	right	1.1	0.040	1.076	0.043	0.016	0.017
2310.00	27710	Mid	LTE Band 30	10	12.30	11.72	-0.08	0	Antenna 1b	LOG8AJW07G	QPSK	1	0	0 mm	left	1.1	0.026	1.143	0.030	0.010	0.011
2310.00	27710	Mid	LTE Band 30	10	12.30	11.98	-0.11	0	Antenna 1b	LOG8AJW07G	QPSK	25	12	0 mm	left	1.1	0.028	1.076	0.030	0.011	0.012
ANSI / IEEE CS6.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-32
LTE Band 30 Antenna 2 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [dB]	MPR [dB]	Antenna Config	Device Serial Number	Modulation	#B Size	#B Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR	Reported SAR		
[MHz]	Ch.															(W/kg)		(W/kg)		(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	13.20	12.67	-0.02	0	Antenna 2	YDRKFG44JX	QPSK	1	0	0 mm	back	1.1	0.763	1.130	0.882	0.310	0.350
2310.00	27710	Mid	LTE Band 30	10	13.20	12.75	0.01	0	Antenna 2	YDRKFG44JX	QPSK	25	25	0 mm	back	1.1	0.766	1.109	0.849	0.311	0.345
2310.00	27710	Mid	LTE Band 30	10	13.20	12.66	0.00	0	Antenna 2	YDRKFG44JX	QPSK	50	0	0 mm	back	1.1	0.764	1.132	0.867	0.319	0.361
2310.00	27710	Mid	LTE Band 30	10	13.20	12.67	0.03	0	Antenna 2	YDRKFG44JX	QPSK	1	0	0 mm	top	1.1	0.002	1.130	0.002	0.000	0.000
2310.00	27710	Mid	LTE Band 30	10	13.20	12.75	0.11	0	Antenna 2	YDRKFG44JX	QPSK	25	25	0 mm	top	1.1	0.001	1.109	0.001	0.000	0.000
2310.00	27710	Mid	LTE Band 30	10	13.20	12.67	-0.01	0	Antenna 2	YDRKFG44JX	QPSK	1	0	0 mm	bottom	1.1	0.465	1.130	0.525	0.163	0.184
2310.00	27710	Mid	LTE Band 30	10	13.20	12.75	0.03	0	Antenna 2	YDRKFG44JX	QPSK	25	25	0 mm	bottom	1.1	0.464	1.109	0.515	0.165	0.183
2310.00	27710	Mid	LTE Band 30	10	13.20	12.67	0.05	0	Antenna 2	YDRKFG44JX	QPSK	1	0	0 mm	right	1.1	0.729	1.130	0.924	0.285	0.299
2310.00	27710	Mid	LTE Band 30	10	13.20	12.75	0.03	0	Antenna 2	YDRKFG44JX	QPSK	25	25	0 mm	right	1.1	0.764	1.109	0.847	0.279	0.309
2310.00	27710	Mid	LTE Band 30	10	13.20	12.66	0.04	0	Antenna 2	YDRKFG44JX	QPSK	50	0	0 mm	right	1.1	0.773	1.132	0.875	0.281	0.316
2310.00	27710	Mid	LTE Band 30	10	13.20	12.67	-0.06	0	Antenna 2	YDRKFG44JX	QPSK	1	0	0 mm	left	1.1	0.031	1.130	0.035	0.012	0.014
2310.00	27710	Mid	LTE Band 30	10	13.20	12.75	-0.02	0	Antenna 2	YDRKFG44JX	QPSK	25	25	0 mm	left	1.1	0.034	1.109	0.038	0.014	0.016
ANSI / IEEE CS6.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram						


FCC ID: BCGA2568		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device		Page 151 of 201

Table 10-33
LTE Band 30 Antenna 3b Body SAR

MEASUREMENT RESULTS																							
FREQ (MHz)	CL	Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Dry Cycle	SAR (1g) (mW/kg)	Scaling Factor	Reported SAR (1g) (mW/kg)	SAR (10g) (mW/kg)	Reported SAR (10g) (mW/kg)	Pass #		
																						Reported SAR (1g) (mW/kg)	Reported SAR (10g) (mW/kg)
2310.00	27710	Mid	LTE Band 30	10	14.40	13.40	-0.02	0	Antenna 3b	T3Y8QC446	QPSK	1	25	0 mm	back	1:1	0.766	1.259	0.964	0.278	0.350		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.45	0.00	0	Antenna 3b	T3Y8QC446	QPSK	25	12	0 mm	back	1:1	0.763	1.245	0.975	0.285	0.355		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.38	0.00	0	Antenna 3b	T3Y8QC446	QPSK	50	0	0 mm	back	1:1	0.789	1.265	0.963	0.286	0.362		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.40	0.03	0	Antenna 3b	T3Y8QC446	QPSK	1	25	0 mm	top	1:1	0.725	1.259	0.913	0.252	0.317		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.45	0.02	0	Antenna 3b	T3Y8QC446	QPSK	25	12	0 mm	top	1:1	0.749	1.245	0.933	0.260	0.324		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.38	-0.02	0	Antenna 3b	T3Y8QC446	QPSK	50	0	0 mm	top	1:1	0.746	1.265	0.944	0.269	0.328		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.40	-0.11	0	Antenna 3b	T3Y8QC446	QPSK	1	25	0 mm	bottom	1:1	0.000	1.259	0.900	0.000	0.000		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.45	-0.19	0	Antenna 3b	T3Y8QC446	QPSK	25	12	0 mm	bottom	1:1	0.001	1.245	0.901	0.000	0.000		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.40	-0.04	0	Antenna 3b	T3Y8QC446	QPSK	1	25	0 mm	right	1:1	0.030	1.259	0.938	0.013	0.016		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.45	0.03	0	Antenna 3b	T3Y8QC446	QPSK	25	12	0 mm	right	1:1	0.031	1.245	0.939	0.013	0.016		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.40	-0.19	0	Antenna 3b	T3Y8QC446	QPSK	1	25	0 mm	left	1:1	0.015	1.259	0.919	0.007	0.006		
2310.00	27710	Mid	LTE Band 30	10	14.40	13.45	0.12	0	Antenna 3b	T3Y8QC446	QPSK	25	12	0 mm	left	1:1	0.015	1.245	0.919	0.006	0.007		
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/kg) averaged over 1 gram							

Table 10-34
LTE Band 30 Antenna 4 Body SAR

MEASUREMENT RESULTS																							
FREQ (MHz)	CL	Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Dry Cycle	SAR (1g) (mW/kg)	Scaling Factor	Reported SAR (1g) (mW/kg)	SAR (10g) (mW/kg)	Reported SAR (10g) (mW/kg)	Pass #		
																						Reported SAR (1g) (mW/kg)	Reported SAR (10g) (mW/kg)
2310.00	27710	Mid	LTE Band 30	10	14.20	13.25	0.00	0	Antenna 4	MHFY6WRTX	QPSK	1	0	0 mm	back	1:1	0.756	1.245	0.941	0.315	0.362		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.47	0.01	0	Antenna 4	MHFY6WRTX	QPSK	25	12	0 mm	back	1:1	0.768	1.183	0.936	0.319	0.377		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.21	-0.01	0	Antenna 4	MHFY6WRTX	QPSK	50	0	0 mm	back	1:1	0.762	1.256	0.957	0.318	0.369		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.25	-0.02	0	Antenna 4	MHFY6WRTX	QPSK	1	0	0 mm	top	1:1	0.504	1.245	0.627	0.206	0.256		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.47	0.04	0	Antenna 4	MHFY6WRTX	QPSK	25	12	0 mm	top	1:1	0.476	1.183	0.563	0.195	0.231		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.25	-0.04	0	Antenna 4	MHFY6WRTX	QPSK	1	0	0 mm	bottom	1:1	0.002	1.245	0.002	0.000	0.000		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.47	-0.11	0	Antenna 4	MHFY6WRTX	QPSK	25	12	0 mm	bottom	1:1	0.003	1.183	0.004	0.001	0.001		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.25	0.00	0	Antenna 4	MHFY6WRTX	QPSK	1	0	0 mm	right	1:1	0.003	1.245	0.004	0.000	0.000		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.47	0.00	0	Antenna 4	MHFY6WRTX	QPSK	25	12	0 mm	right	1:1	0.002	1.183	0.002	0.000	0.000		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.25	-0.06	0	Antenna 4	MHFY6WRTX	QPSK	1	0	0 mm	left	1:1	0.772	1.245	0.952	0.286	0.356		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.47	0.02	0	Antenna 4	MHFY6WRTX	QPSK	25	12	0 mm	left	1:1	0.841	1.183	0.995	0.304	0.369	A12	
2310.00	27710	Mid	LTE Band 30	10	14.20	13.21	-0.01	0	Antenna 4	MHFY6WRTX	QPSK	50	0	0 mm	left	1:1	0.788	1.256	0.990	0.291	0.365		
2310.00	27710	Mid	LTE Band 30	10	14.20	13.47	0.03	0	Antenna 4	MHFY6WRTX	QPSK	25	12	0 mm	left	1:1	0.792	1.183	0.937	0.292	0.345		
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/kg) averaged over 1 gram							

Note: Blue entry represents variability measurement.

Table 10-35
LTE Band 7 Antenna 1b Body SAR

MEASUREMENT RESULTS																									
FREQ (MHz)	CL	Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Dry Cycle	SAR (1g) (mW/kg)	Scaling Factor	Reported SAR (1g) (mW/kg)	SAR (10g) (mW/kg)	Reported SAR (10g) (mW/kg)	Pass #				
																						Reported SAR (1g) (mW/kg)	Reported SAR (10g) (mW/kg)		
1.00	Upk	NA	2510.00	20550	Low	LTE Band 7	20	13.00	11.87	-0.13	0	Antenna 1b	QW4K2QW144	QPSK	1	99	0 mm	back	1:1	0.684	1.297	0.887	0.228	0.296	
1.00	Upk	NA	2535.00	21100	Mid	LTE Band 7	20	13.00	12.00	-0.08	0	Antenna 1b	QW4K2QW144	QPSK	1	0	0 mm	back	1:1	0.694	1.259	0.874	0.230	0.290	
1.00	Upk	NA	2560.00	21350	High	LTE Band 7	20	13.00	12.06	-0.08	0	Antenna 1b	QW4K2QW144	QPSK	1	0	0 mm	back	1:1	0.707	1.242	0.878	0.232	0.288	
1.00	Upk	NA	2510.00	20550	Low	LTE Band 7	20	13.00	12.09	-0.08	0	Antenna 1b	QW4K2QW144	QPSK	50	50	0 mm	back	1:1	0.713	1.233	0.879	0.238	0.293	
1.00	Upk	NA	2535.00	21100	Mid	LTE Band 7	20	13.00	12.04	-0.08	0	Antenna 1b	QW4K2QW144	QPSK	50	0	0 mm	back	1:1	0.700	1.247	0.886	0.238	0.297	
1.00	Upk	NA	2560.00	21350	High	LTE Band 7	20	13.00	12.10	-0.07	0	Antenna 1b	QW4K2QW144	QPSK	50	0	0 mm	back	1:1	0.704	1.230	0.891	0.237	0.292	
1.00	Upk	NA	2535.00	21100	Mid	LTE Band 7	20	13.00	12.05	-0.08	0	Antenna 1b	QW4K2QW144	QPSK	100	0	0 mm	back	1:1	0.713	1.245	0.885	0.238	0.296	
2.00	Upk	PCC	2535.00	21100	Mid	LTE Band 7	20	13.00	12.19	-0.12	0	Antenna 1b	QW4K2QW144	QPSK	50	50	0 mm	back	1:1	0.744	1.205	0.897	0.247	0.298	
2.00	Upk	SDC	2515.20	20902	Mid	LTE Band 7	20	13.00	12.06	-0.12	0	Antenna 1b	QW4K2QW144	QPSK	1	0	0 mm	top	1:1	0.690	1.242	0.825	0.204	0.265	
1.00	Upk	NA	2560.00	21350	High	LTE Band 7	20	13.00	12.10	-0.07	0	Antenna 1b	QW4K2QW144	QPSK	50	0	0 mm	top	1:1	0.719	1.230	0.892	0.240	0.293	
1.00	Upk	NA	2560.00	21350	High	LTE Band 7	20	13.00	12.10	-0.07	0	Antenna 1b	QW4K2QW144	QPSK	50	0	0 mm	top	1:1	0.719	1.230	0.892	0.240	0.293	
1.00	Upk	NA	2510.00	20550	Low	LTE Band 7	20	13.00	11.87	-0.02	0	Antenna 1b	QW4K2QW144	QPSK	1	99	0 mm	bottom	1:1	0.693	1.297	0.881	0.210	0.272	
1.00	Upk	NA	2535.00	21100	Mid	LTE Band 7	20	13.00	12.00	-0.01	0	Antenna 1b	QW4K2QW144	QPSK	1	0	0 mm	bottom	1:1	0.651	1.259	0.820	0.214	0.269	
1.00	Upk	NA	2560.00	21350	High	LTE Band 7	20	13.00	12.06	-0.01	0	Antenna 1b	QW4K2QW144	QPSK	1	0	0 mm	bottom	1:1	0.703	1.242	0.872	0.232	0.288	
1.00	Upk	NA	2510.00	20550	Low	LTE Band 7	20	13.00	12.00	-0.03	0	Antenna 1b	QW4K2QW144	QPSK	50	50	0 mm	bottom	1:1	0.691	1.233	0.883	0.214	0.264	
1.00	Upk	NA	2535.00	21100	Mid	LTE Band 7	20	13.00	12.04	-0.08	0	Antenna 1b	QW4K2QW144	QPSK	50	0	0 mm	bottom	1:1	0.691	1.247	0.844	0.224	0.279	
1.00	Upk	NA	2560.00	21350	High	LTE Band 7	20	13.00	12.10	-0.01	0	Antenna 1b	QW4K2QW144	QPSK	50	0	0 mm	bottom	1:1	0.726	1.236	0.893	0.238	0.294	
1.00	Upk	NA	2535.00	21100	Mid	LTE Band 7	20	13.00	12.05	-0.00	0	Antenna 1b	QW4K2QW144	QPSK	100	0	0 mm	bottom	1:1	0.689	1.245	0.888	0.237	0.293	
1.00	Upk	NA	2560.00	21350	High	LTE Band 7	20	13.00	12.06	-0.01	0	Antenna 1b	QW4K2QW144	QPSK	1	0	0 mm	right	1:1	0.695	1.242	0.881	0.240	0.291	
1.00	Upk	NA	2560.00	21350	High	LTE Band 7	20	13.00	12.10	-0.16	0	Antenna 1b	QW4K2QW144	QPSK	50	0	0 mm	right	1:1	0.801	1.236	0.898	0.241	0.301	
1.00	Upk	NA	2560.00	21350	High	LTE Band 7	20	13.00	12.06	0.14	0	Antenna 1b	QW4K2QW144	QPSK	1	0	0 mm	left	1:1	0.678	1.242	0.822	0.204	0.265	
1.00	Upk	NA	2560.00	21350	High	LTE Band 7	20	13.00	12.10	0.14	0	Antenna 1b	QW4K2QW144	QPSK	50	0	0 mm	left	1:1	0.672	1.230	0.815	0.203	0.264	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/kg) averaged over 1 gram									


FCC ID: BCGA2568		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 152 of 201

Table 10-36
LTE Band 7 Antenna 2 Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	E2 Size	E8 Other	Spacing	Site	Duty Cycle	SAR (F) (W/kg)	Scaling Factor	Reported SAR (F) (W/kg)	SAR (H) (W/kg)	Reported SAR (H) (W/kg)	Pass #	
		Mhz	Ch.																					
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	13.80	11.36	-0.02	0	Antenna 2	QW42K0W944	QPSK	1	50	0 mm	back	1:1	0.876	1.109	0.790	0.251	0.278	
1 CC Uplink	NA	2535.00	21100	Mid	LTE Band 7	20	13.80	11.30	-0.09	0	Antenna 2	QW42K0W944	QPSK	1	0	0 mm	back	1:1	0.879	1.122	0.762	0.252	0.283	
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	13.80	11.34	0.11	0	Antenna 2	QW42K0W944	QPSK	1	0	0 mm	back	1:1	0.888	1.112	0.765	0.250	0.278	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	13.80	11.52	-0.10	0	Antenna 2	QW42K0W944	QPSK	50	50	0 mm	back	1:1	0.700	1.087	0.747	0.261	0.278	
2 CC Uplink	PCC	2560.00	21350	High	LTE Band 7	20	13.80	11.58	-0.01	0	Antenna 2	QW42K0W944	QPSK	1	0	0 mm	back	1:1	0.750	1.052	0.734	0.264	0.239	
2 CC Uplink	SCC	2540.20	21152	High	LTE Band 7	20	13.80	11.36	0.12	0	Antenna 2	QW42K0W944	QPSK	1	50	0 mm	top	1:1	0.923	1.109	0.826	0.006	0.007	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	13.80	11.52	-0.02	0	Antenna 2	QW42K0W944	QPSK	50	50	0 mm	top	1:1	0.921	1.087	0.822	0.005	0.005	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	13.80	11.35	0.08	0	Antenna 2	QW42K0W944	QPSK	1	50	0 mm	bottom	1:1	0.521	1.109	0.578	0.179	0.199	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	13.80	11.52	-0.05	0	Antenna 2	QW42K0W944	QPSK	50	50	0 mm	bottom	1:1	0.535	1.087	0.571	0.184	0.196	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	13.80	11.35	-0.04	0	Antenna 2	QW42K0W944	QPSK	1	50	0 mm	right	1:1	0.538	1.109	0.587	0.189	0.210	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	13.80	11.52	-0.03	0	Antenna 2	QW42K0W944	QPSK	50	50	0 mm	right	1:1	0.565	1.087	0.562	0.194	0.207	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	13.80	11.35	0.12	0	Antenna 2	QW42K0W944	QPSK	1	50	0 mm	left	1:1	0.223	1.109	0.228	0.006	0.007	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	13.80	11.52	0.01	0	Antenna 2	QW42K0W944	QPSK	50	50	0 mm	left	1:1	0.223	1.087	0.223	0.006	0.006	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT																								
Spatial Peak																								
Uncontrolled Exposure/General Population																								
Body																								
1.6 W/kg (mW/g)																								
averaged over 1 gram																								

Table 10-37
LTE Band 7 Antenna 3b Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	E2 Size	E8 Other	Spacing	Site	Duty Cycle	SAR (F) (W/kg)	Scaling Factor	Reported SAR (F) (W/kg)	SAR (H) (W/kg)	Reported SAR (H) (W/kg)	Pass #	
		Mhz	Ch.																					
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	14.70	13.60	-0.03	0	Antenna 3b	T3Y8K0C446	QPSK	1	50	0 mm	back	1:1	0.714	1.288	0.820	0.245	0.321	
1 CC Uplink	NA	2535.00	21100	Mid	LTE Band 7	20	14.70	13.42	-0.03	0	Antenna 3b	T3Y8K0C446	QPSK	1	50	0 mm	back	1:1	0.885	1.343	0.920	0.238	0.317	
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	14.70	13.52	-0.08	0	Antenna 3b	T3Y8K0C446	QPSK	1	0	0 mm	back	1:1	0.873	1.312	0.883	0.231	0.303	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	14.70	13.60	-0.02	0	Antenna 3b	T3Y8K0C446	QPSK	50	25	0 mm	back	1:1	0.742	1.288	0.827	0.257	0.331	
1 CC Uplink	NA	2535.00	21100	Mid	LTE Band 7	20	14.70	13.59	-0.03	0	Antenna 3b	T3Y8K0C446	QPSK	50	0	0 mm	back	1:1	0.714	1.291	0.822	0.247	0.319	
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	14.70	13.54	-0.04	0	Antenna 3b	T3Y8K0C446	QPSK	50	25	0 mm	back	1:1	0.873	1.306	0.879	0.232	0.303	
1 CC Uplink	NA	2535.00	21100	Mid	LTE Band 7	20	14.70	13.58	-0.03	0	Antenna 3b	T3Y8K0C446	QPSK	100	0	0 mm	back	1:1	0.711	1.294	0.820	0.248	0.317	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	14.70	13.60	-0.01	0	Antenna 3b	T3Y8K0C446	QPSK	1	50	0 mm	top	1:1	0.731	1.288	0.803	0.256	0.322	
1 CC Uplink	NA	2535.00	21100	Mid	LTE Band 7	20	14.70	13.42	-0.05	0	Antenna 3b	T3Y8K0C446	QPSK	1	50	0 mm	top	1:1	0.714	1.343	0.829	0.256	0.342	
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	14.70	13.52	-0.08	0	Antenna 3b	T3Y8K0C446	QPSK	1	0	0 mm	top	1:1	0.741	1.312	0.872	0.261	0.342	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	14.70	13.60	0.00	0	Antenna 3b	T3Y8K0C446	QPSK	50	25	0 mm	top	1:1	0.728	1.288	0.825	0.259	0.324	
1 CC Uplink	NA	2535.00	21100	Mid	LTE Band 7	20	14.70	13.59	-0.08	0	Antenna 3b	T3Y8K0C446	QPSK	50	0	0 mm	top	1:1	0.728	1.291	0.849	0.261	0.337	
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	14.70	13.52	-0.09	0	Antenna 3b	T3Y8K0C446	QPSK	50	0	0 mm	top	1:1	0.822	1.312	0.829	0.221	0.280	
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	14.70	13.54	-0.01	0	Antenna 3b	T3Y8K0C446	QPSK	50	25	0 mm	top	1:1	0.748	1.306	0.877	0.287	0.349	
1 CC Uplink	NA	2535.00	21100	Mid	LTE Band 7	20	14.70	13.58	-0.00	0	Antenna 3b	T3Y8K0C446	QPSK	100	0	0 mm	top	1:1	0.737	1.294	0.854	0.262	0.329	
2 CC Uplink	PCC	2560.00	21350	High	LTE Band 7	20	14.70	13.59	-0.08	0	Antenna 3b	T3Y8K0C446	QPSK	50	0	0 mm	top	1:1	0.873	1.291	0.889	0.233	0.301	
2 CC Uplink	SCC	2540.20	21152	High	LTE Band 7	20	14.70	13.59	-0.08	0	Antenna 3b	T3Y8K0C446	QPSK	50	50	0 mm	top	1:1	0.873	1.291	0.889	0.233	0.301	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	14.70	13.60	-0.18	0	Antenna 3b	T3Y8K0C446	QPSK	1	50	0 mm	bottom	1:1	0.920	1.288	0.920	0.000	0.000	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	14.70	13.60	-0.12	0	Antenna 3b	T3Y8K0C446	QPSK	50	25	0 mm	bottom	1:1	0.920	1.288	0.920	0.000	0.000	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	14.70	13.60	-0.07	0	Antenna 3b	T3Y8K0C446	QPSK	1	50	0 mm	right	1:1	0.920	1.288	0.923	0.010	0.013	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	14.70	13.60	-0.12	0	Antenna 3b	T3Y8K0C446	QPSK	50	25	0 mm	right	1:1	0.920	1.288	0.926	0.012	0.015	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	14.70	13.60	-0.09	0	Antenna 3b	T3Y8K0C446	QPSK	1	50	0 mm	left	1:1	0.922	1.288	0.926	0.009	0.012	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	14.70	13.60	-0.12	0	Antenna 3b	T3Y8K0C446	QPSK	50	25	0 mm	left	1:1	0.923	1.288	0.930	0.009	0.012	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT																								
Spatial Peak																								
Uncontrolled Exposure/General Population																								
Body																								
1.6 W/kg (mW/g)																								
averaged over 1 gram																								

Table 10-38
LTE Band 7 Antenna 4 Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	E2 Size	E8 Other	Spacing	Site	Duty Cycle	SAR (F) (W/kg)	Scaling Factor	Reported SAR (F) (W/kg)	SAR (H) (W/kg)	Reported SAR (H) (W/kg)	Pass #	
		Mhz	Ch.																					
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	12.00	11.76	0.13	0	Antenna 4	D7Y7GFJ3	QPSK	1	50	0 mm	back	1:1	0.907	1.057	0.959	0.331	0.350	
1 CC Uplink	NA	2535.00	21100	Mid	LTE Band 7	20	12.00	11.58	0.03	0	Antenna 4	D7Y7GFJ3	QPSK	1	50	0 mm	back	1:1	0.906	1.102	0.939	0.335	0.359	
1 CC Uplink	NA	2535.00	21100	Mid	LTE Band 7	20	12.00	11.57	-0.01	0	Antenna 4	D7Y7GFJ3	QPSK	1	50	0 mm	back	1:1	0.897	1.104	0.950	0.330	0.364	
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	12.00	11.48	-0.03	0	Antenna 4	D7Y7GFJ3	QPSK	1	50	0 mm	back	1:1	0.882	1.127	0.994	0.322	0.383	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	20	12.00	11.81	-0.18	0	Antenna 4	D7Y7GFJ3	QPSK	50	25	0 mm	back	1:1	0.918	1.045	0.959	0.345	0.381	
1 CC Uplink	NA	2535.00	21100	Mid	LTE Band 7	20	12.00	11.77	-0.11	0	Antenna 4	D7Y7GFJ3	QPSK	50	25	0 mm	back	1:1	0.928	1.054	0.978	0.338	0.356	AT3
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	12.00	11.73	-0.04	0	Antenna 4	D7Y7GFJ3	QPSK	50	25	0 mm	back	1:1	0.919	1.064	0.978	0.335	0.356	
1 CC Uplink	NA	2510.00	20850	Low	LTE Band 7	2																		

Table 10-39
LTE Band 41 Antenna 1b Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Spill (dB)	MPF (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Data Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Page #	
		Mhz	Ch.																					
1 CC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	14.20	13.33	-0.04	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	back	1:58	0.815	1.222	0.752	0.205	0.251	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.40	-0.01	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	back	1:58	0.809	1.202	0.720	0.198	0.236	
1 CC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	14.20	13.28	-0.02	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	back	1:58	0.830	1.236	0.779	0.205	0.253	
1 CC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	14.20	13.30	-0.01	0	Antenna 1b	N14X7RH0FY	QPSK	1	99	0 mm	back	1:58	0.850	1.230	0.800	0.208	0.256	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.20	13.38	-0.04	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	back	1:58	0.897	1.208	0.842	0.222	0.268	
1 CC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	14.20	13.49	0.00	0	Antenna 1b	N14X7RH0FY	QPSK	50	0	0 mm	back	1:58	0.839	1.178	0.753	0.211	0.249	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.52	-0.02	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	back	1:58	0.803	1.169	0.705	0.198	0.231	
1 CC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	14.20	13.39	0.00	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	back	1:58	0.836	1.205	0.786	0.208	0.248	
1 CC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	14.20	13.44	0.00	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	back	1:58	0.875	1.191	0.804	0.217	0.258	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.20	13.43	-0.05	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	back	1:58	0.714	1.194	0.853	0.227	0.271	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.20	13.39	0.01	0	Antenna 1b	N14X7RH0FY	QPSK	100	0	0 mm	back	1:58	0.728	1.205	0.877	0.232	0.280	
1 CC Uplink - Power Class 2	NA	2680.00	41490	High	LTE Band 41	20	15.85	14.63	0.02	0	Antenna 1b	N14X7RH0FY	QPSK	100	0	0 mm	back	1:21	0.850	1.265	0.797	0.208	0.263	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20																		
2 CC Uplink - Power Class 3	SCC	2680.00	41392	High	LTE Band 41	20	14.20	13.32	0.01	0	Antenna 1b	N14X7RH0FY	QPSK	100	0	0 mm	back	1:58	0.899	1.225	0.856	0.230	0.282	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20																		
2 CC Uplink - Power Class 3	SCC	2680.00	41392	High	LTE Band 41	20	15.85	15.18	0.03	0	Antenna 1b	N14X7RH0FY	QPSK	100	0	0 mm	back	1:21	0.714	1.167	0.833	0.240	0.280	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.40	-0.11	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	top	1:58	0.800	1.202	0.800	0.200	0.200	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.52	0.12	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	top	1:58	0.800	1.169	0.800	0.200	0.200	
1 CC Uplink - Power Class 3	NA	2593.00	40620	Low	LTE Band 41	20	14.20	13.33	-0.01	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	bottom	1:58	0.851	1.223	0.873	0.198	0.230	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.40	-0.05	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	bottom	1:58	0.853	1.203	0.865	0.199	0.238	
1 CC Uplink - Power Class 3	NA	2636.50	41055	Mid	LTE Band 41	20	14.20	13.28	-0.01	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	bottom	1:58	0.873	1.226	0.765	0.210	0.250	
1 CC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	14.20	13.30	0.00	0	Antenna 1b	N14X7RH0FY	QPSK	1	99	0 mm	bottom	1:58	0.862	1.220	0.814	0.210	0.259	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.20	13.38	0.00	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	bottom	1:58	0.724	1.208	0.875	0.229	0.289	
1 CC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	14.20	13.45	0.00	0	Antenna 1b	N14X7RH0FY	QPSK	50	0	0 mm	bottom	1:58	0.875	1.178	0.877	0.197	0.232	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.52	-0.03	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	bottom	1:58	0.867	1.169	0.863	0.198	0.229	
1 CC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	14.20	13.39	0.01	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	bottom	1:58	0.823	1.205	0.751	0.210	0.253	
1 CC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	14.20	13.44	0.03	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	bottom	1:58	0.858	1.191	0.794	0.218	0.260	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.20	13.43	0.02	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	bottom	1:58	0.723	1.194	0.863	0.241	0.288	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.20	13.39	0.00	0	Antenna 1b	N14X7RH0FY	QPSK	100	0	0 mm	bottom	1:58	0.726	1.205	0.875	0.240	0.289	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.40	-0.11	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	right	1:58	0.806	1.202	0.807	0.200	0.202	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.52	0.15	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	right	1:58	0.808	1.169	0.809	0.200	0.202	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.40	-0.10	0	Antenna 1b	N14X7RH0FY	QPSK	1	0	0 mm	left	1:58	0.823	1.202	0.828	0.200	0.011	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.52	0.00	0	Antenna 1b	N14X7RH0FY	QPSK	50	25	0 mm	left	1:58	0.821	1.169	0.825	0.200	0.009	

ANSI / IEEE C63.1 1992 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

Body
1.6 W/kg (mW/g)
averaged over 1 gram

Table 10-40
LTE Band 41 Antenna 2 Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Spill (dB)	MPF (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Data Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Page #	
		Mhz	Ch.																					
1 CC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	14.10	13.26	-0.01	0	Antenna 2	T3Y9XQ246	QPSK	1	0	0 mm	back	1:58	0.839	1.213	0.775	0.239	0.290	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.10	13.11	0.05	0	Antenna 2	T3Y9XQ246	QPSK	1	50	0 mm	back	1:58	0.809	1.256	0.765	0.226	0.284	
1 CC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	14.10	13.21	-0.01	0	Antenna 2	T3Y9XQ246	QPSK	1	0	0 mm	back	1:58	0.841	1.227	0.787	0.238	0.290	
1 CC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	14.10	13.10	0.00	0	Antenna 2	T3Y9XQ246	QPSK	1	0	0 mm	back	1:58	0.841	1.259	0.807	0.234	0.295	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.10	13.25	-0.05	0	Antenna 2	T3Y9XQ246	QPSK	1	0	0 mm	back	1:58	0.879	1.216	0.824	0.245	0.298	
1 CC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	14.10	13.35	0.01	0	Antenna 2	T3Y9XQ246	QPSK	50	25	0 mm	back	1:58	0.846	1.189	0.768	0.242	0.288	
1 CC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.10	13.28	-0.03	0	Antenna 2	T3Y9XQ246	QPSK	50	0	0 mm	back	1:58	0.855	1.216	0.796	0.242	0.294	
1 CC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	14.10	13.28	0.01	0	Antenna 2	T3Y9XQ246	QPSK	50	0	0 mm	back	1:58	0.846	1.208	0.780	0.239	0.289	
1 CC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	14.10	13.14	-0.02	0	Antenna 2	T3Y9XQ246	QPSK	50	25	0 mm	back	1:58	0.850	1.247	0.811	0.237	0.296	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.10	13.15	0.00	0	Antenna 2	T3Y9XQ246	QPSK	50	0	0 mm	back	1:58	0.817	1.245	0.768	0.232	0.289	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.10	13.16	-0.08	0	Antenna 2	T3Y9XQ246	QPSK	50	25	0 mm	back	1:58	0.864	1.242	0.825	0.240	0.298	
1 CC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	14.10	13.25	0.00	0	Antenna 2	T3Y9XQ246	QPSK	100	0	0 mm	back	1:58	0.847	1.216	0.877	0.241	0.293	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	15.75	14.92	0.02	0	Antenna 2	T3Y9XQ246	QPSK	50	0	0 mm	back	1:21	0.822	1.211	0.753	0.224	0.271	
1 CC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	15.75	14.95	0.00	0	Antenna 2	T3Y9XQ246	QPSK	50	25	0 mm	back	1:21	0.826	1.202	0.752	0.225	0.270	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20																		
2 CC Uplink - Power Class 3	SCC	2680.00	41392	High	LTE Band 41	20	14.10	13.11	0.04	0	Antenna 2	T3Y9XQ246	QPSK	50	0	0 mm	back	1:58	0.826	1.256	0.786	0.225	0.283	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20																		
2 CC Uplink - Power Class 3	SCC	2680.00	41392	High	LTE Band 41	20	15.75	14.92	0.02	0	Antenna 2	T3Y9XQ246	QPSK	50	50	0 mm	back	1:21	0.822	1.211	0.717	0.213	0.258	
1 CC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	14.10	13.26	-0.19	0	Antenna 2	T3Y9XQ246	QPSK	1	0	0 mm</								

Table 10-41
LTE Band 41 Antenna 3b Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink 12 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Out (dBm)	MPF (dB)	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Page #	
		Mhz	Ch.																					
TCC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	15.80	14.42	-0.09	0	Antenna 3b	YDRKFG4JX	QPSK	1	0	0 mm	back	1:58	0.460	1.374	0.632	0.167	0.229	
TCC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	14.25	-0.05	0	Antenna 3b	YDRKFG4JX	QPSK	1	0	0 mm	back	1:58	0.465	1.429	0.664	0.168	0.240	
TCC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	15.80	14.21	-0.06	0	Antenna 3b	YDRKFG4JX	QPSK	1	99	0 mm	back	1:58	0.438	1.442	0.632	0.155	0.224	
TCC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	15.80	14.26	-0.04	0	Antenna 3b	YDRKFG4JX	QPSK	1	0	0 mm	back	1:58	0.463	1.426	0.660	0.163	0.232	
TCC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	15.80	14.25	-0.00	0	Antenna 3b	YDRKFG4JX	QPSK	1	0	0 mm	back	1:58	0.493	1.429	0.704	0.173	0.247	
TCC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	15.80	14.42	-0.01	0	Antenna 3b	YDRKFG4JX	QPSK	50	0	0 mm	back	1:58	0.488	1.374	0.671	0.178	0.245	
TCC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	14.41	-0.01	0	Antenna 3b	YDRKFG4JX	QPSK	50	25	0 mm	back	1:58	0.451	1.377	0.621	0.162	0.223	
TCC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	15.80	14.40	-0.03	0	Antenna 3b	YDRKFG4JX	QPSK	50	50	0 mm	back	1:58	0.431	1.380	0.595	0.155	0.214	
TCC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	15.80	14.41	-0.06	0	Antenna 3b	YDRKFG4JX	QPSK	50	25	0 mm	back	1:58	0.430	1.377	0.578	0.150	0.207	
TCC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	15.80	14.41	-0.02	0	Antenna 3b	YDRKFG4JX	QPSK	50	25	0 mm	back	1:58	0.468	1.377	0.621	0.162	0.212	
TCC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	15.80	14.40	-0.00	0	Antenna 3b	YDRKFG4JX	QPSK	100	0	0 mm	back	1:58	0.430	1.377	0.582	0.154	0.212	
TCC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	15.80	14.42	-0.03	0	Antenna 3b	YDRKFG4JX	QPSK	1	50	0 mm	top	1:58	0.462	1.374	0.676	0.173	0.238	
TCC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	14.25	-0.01	0	Antenna 3b	YDRKFG4JX	QPSK	1	0	0 mm	top	1:58	0.501	1.429	0.716	0.176	0.252	
TCC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	15.80	14.21	-0.03	0	Antenna 3b	YDRKFG4JX	QPSK	1	99	0 mm	top	1:58	0.541	1.442	0.701	0.191	0.275	
TCC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	15.80	14.26	-0.02	0	Antenna 3b	YDRKFG4JX	QPSK	1	0	0 mm	top	1:58	0.580	1.426	0.827	0.205	0.292	
TCC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	15.80	14.25	-0.02	0	Antenna 3b	YDRKFG4JX	QPSK	1	0	0 mm	top	1:58	0.658	1.429	0.940	0.234	0.334	
TCC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	15.80	14.42	-0.01	0	Antenna 3b	YDRKFG4JX	QPSK	50	0	0 mm	top	1:58	0.516	1.374	0.530	0.161	0.240	
TCC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	14.41	-0.02	0	Antenna 3b	YDRKFG4JX	QPSK	50	25	0 mm	top	1:58	0.507	1.377	0.686	0.179	0.246	
TCC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	15.80	14.40	-0.00	0	Antenna 3b	YDRKFG4JX	QPSK	50	50	0 mm	top	1:58	0.564	1.380	0.766	0.196	0.270	
TCC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	15.80	14.41	-0.03	0	Antenna 3b	YDRKFG4JX	QPSK	50	25	0 mm	top	1:58	0.588	1.377	0.823	0.217	0.301	
TCC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	15.80	14.41	-0.06	0	Antenna 3b	YDRKFG4JX	QPSK	50	25	0 mm	top	1:58	0.671	1.377	0.924	0.227	0.326	
TCC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	15.80	14.41	-0.00	0	Antenna 3b	YDRKFG4JX	QPSK	100	0	0 mm	top	1:58	0.588	1.377	0.766	0.196	0.270	
TCC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	17.45	15.02	-0.04	0	Antenna 3b	YDRKFG4JX	QPSK	1	0	0 mm	top	1:23:11	0.681	1.422	0.963	0.222	0.320	
TCC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	15.80	14.25	-0.20	0	Antenna 3b	YDRKFG4JX	QPSK	1	0	0 mm	top	1:58	0.682	1.429	0.946	0.221	0.316	
TCC Uplink - Power Class 3	SCC	2680.00	41490	High	LTE Band 41	20	15.80	14.25	-0.20	0	Antenna 3b	YDRKFG4JX	QPSK	1	99	0 mm	top	1:58	0.682	1.429	0.946	0.221	0.316	
TCC Uplink - Power Class 3	SCC	2680.00	41490	High	LTE Band 41	20	17.45	15.96	-0.05	0	Antenna 3b	YDRKFG4JX	QPSK	1	0	0 mm	top	1:23:11	0.683	1.409	0.934	0.222	0.313	
TCC Uplink - Power Class 3	SCC	2680.00	41490	High	LTE Band 41	20	17.45	15.96	-0.05	0	Antenna 3b	YDRKFG4JX	QPSK	1	99	0 mm	top	1:23:11	0.683	1.409	0.934	0.222	0.313	
TCC Uplink - Power Class 3	SCC	2680.00	41490	High	LTE Band 41	20	15.80	14.42	-0.13	0	Antenna 3b	YDRKFG4JX	QPSK	1	50	0 mm	bottom	1:58	0.500	1.374	0.500	0.000	0.000	
TCC Uplink - Power Class 3	SCC	2680.00	41490	High	LTE Band 41	20	15.80	14.42	-0.14	0	Antenna 3b	YDRKFG4JX	QPSK	50	0	0 mm	bottom	1:58	0.500	1.374	0.500	0.000	0.000	
TCC Uplink - Power Class 3	SCC	2680.00	41490	High	LTE Band 41	20	15.80	14.42	-0.09	0	Antenna 3b	YDRKFG4JX	QPSK	1	50	0 mm	right	1:58	0.521	1.374	0.529	0.000	0.011	
TCC Uplink - Power Class 3	SCC	2680.00	41490	High	LTE Band 41	20	15.80	14.42	-0.09	0	Antenna 3b	YDRKFG4JX	QPSK	50	0	0 mm	right	1:58	0.522	1.374	0.530	0.000	0.012	
TCC Uplink - Power Class 3	SCC	2680.00	41490	High	LTE Band 41	20	15.80	14.42	-0.20	0	Antenna 3b	YDRKFG4JX	QPSK	1	50	0 mm	left	1:58	0.010	1.374	0.014	0.004	0.005	
TCC Uplink - Power Class 3	SCC	2680.00	41490	High	LTE Band 41	20	15.80	14.42	-0.15	0	Antenna 3b	YDRKFG4JX	QPSK	50	0	0 mm	left	1:58	0.010	1.374	0.014	0.004	0.005	

ANSI / IEEE C62.1.1992 - SAFETY LIMIT

Uncontrolled Exposure/General Population

Body

1.6 W/kg (W/kg) averaged over 1 gram

Table 10-42
LTE Band 41 Antenna 4 Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink 12 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Out (dBm)	MPF (dB)	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Site	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Page #	
		Mhz	Ch.																					
TCC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	14.70	13.90	-0.04	0	Antenna 4	DSY7FGJ83	QPSK	1	0	0 mm	back	1:58	0.507	1.202	0.609	0.171	0.261	
TCC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.70	13.71	-0.04	0	Antenna 4	DSY7FGJ83	QPSK	1	99	0 mm	back	1:58	0.606	1.256	0.761	0.242	0.304	
TCC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	14.70	13.93	-0.01	0	Antenna 4	DSY7FGJ83	QPSK	1	0	0 mm	back	1:58	0.790	1.194	0.943	0.297	0.355	
TCC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	14.70	13.71	-0.13	0	Antenna 4	DSY7FGJ83	QPSK	1	0	0 mm	back	1:58	0.579	1.256	0.723	0.233	0.293	
TCC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.70	13.71	-0.09	0	Antenna 4	DSY7FGJ83	QPSK	1	0	0 mm	back	1:58	0.640	1.256	0.804	0.250	0.314	
TCC Uplink - Power Class 3	NA	2508.00	39750	Low	LTE Band 41	20	14.70	14.01	-0.00	0	Antenna 4	DSY7FGJ83	QPSK	50	25	0 mm	back	1:58	0.524	1.172	0.614	0.122	0.260	
TCC Uplink - Power Class 3	NA	2549.50	40185	Low-Mid	LTE Band 41	20	14.70	13.82	-0.03	0	Antenna 4	DSY7FGJ83	QPSK	50	25	0 mm	back	1:58	0.634	1.225	0.777	0.203	0.310	
TCC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	14.70	14.02	-0.01	0	Antenna 4	DSY7FGJ83	QPSK	50	25	0 mm	back	1:58	0.603	1.169	0.639	0.303	0.354	
TCC Uplink - Power Class 3	NA	2636.50	41055	Mid-High	LTE Band 41	20	14.70	13.76	-0.02	0	Antenna 4	DSY7FGJ83	QPSK	50	0	0 mm	back	1:58	0.589	1.242	0.744	0.241	0.299	
TCC Uplink - Power Class 3	NA	2680.00	41490	High	LTE Band 41	20	14.70	13.89	-0.04	0	Antenna 4	DSY7FGJ83	QPSK	50	25	0 mm	back	1:58	0.697	1.205	0.840	0.275	0.331	
TCC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	14.70	13.92	-0.01	0	Antenna 4	DSY7FGJ83	QPSK	100	0	0 mm	back	1:58	0.544	1.197	0.651	0.222	0.278	
TCC Uplink - Power Class 3	NA	2593.00	40620	Mid	LTE Band 41	20	16.35	15.27	-0.11	0	Antenna 4	DSY7FGJ83	QPSK	1	0	0 mm	back	1:23:11	0.687	1.26				

Table 10-43
LTE Band 48 Antenna 1a Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dBm)	MPE (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Pass #	
		MHz	Ch.																					
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.40	-0.05	0	Antenna 1a	FSK48M4N3	QPSK	1	99	0 mm	back	1:5.58	0.486	1.230	0.573	0.148	0.162	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.46	-0.12	0	Antenna 1a	FSK48M4N3	QPSK	50	50	0 mm	back	1:5.58	0.553	1.213	0.671	0.188	0.226	
1 CC Uplink	NA	3603.30	55773	Low-Mid	LTE Band 48	20	12.30	11.43	-0.16	0	Antenna 1a	FSK48M4N3	QPSK	50	50	0 mm	back	1:5.58	0.451	1.222	0.551	0.153	0.187	
1 CC Uplink	NA	3646.70	56207	Mid-High	LTE Band 48	20	12.30	11.45	-0.06	0	Antenna 1a	FSK48M4N3	QPSK	50	50	0 mm	back	1:5.58	0.482	1.216	0.586	0.152	0.185	
1 CC Uplink	NA	3689.00	56640	High	LTE Band 48	20	12.30	11.38	-0.20	0	Antenna 1a	FSK48M4N3	QPSK	50	0	0 mm	back	1:5.58	0.367	1.236	0.454	0.124	0.153	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.39	-0.17	0	Antenna 1a	FSK48M4N3	QPSK	100	0	0 mm	back	1:5.58	0.396	1.233	0.488	0.134	0.165	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.40	-0.13	0	Antenna 1a	FSK48M4N3	QPSK	1	99	0 mm	top	1:5.58	0.615	1.230	0.618	0.009	0.011	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.46	0.01	0	Antenna 1a	FSK48M4N3	QPSK	50	50	0 mm	top	1:5.58	0.616	1.213	0.619	0.009	0.011	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.40	-0.13	0	Antenna 1a	FSK48M4N3	QPSK	1	99	0 mm	bottom	1:5.58	0.179	1.230	0.220	0.054	0.066	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.46	-0.08	0	Antenna 1a	FSK48M4N3	QPSK	50	50	0 mm	bottom	1:5.58	0.185	1.213	0.224	0.056	0.068	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.40	-0.17	0	Antenna 1a	FSK48M4N3	QPSK	1	99	0 mm	right	1:5.58	0.610	1.230	0.612	0.008	0.010	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.46	0.12	0	Antenna 1a	FSK48M4N3	QPSK	50	50	0 mm	right	1:5.58	0.610	1.213	0.612	0.008	0.010	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.40	-0.02	0	Antenna 1a	FSK48M4N3	QPSK	1	99	0 mm	left	1:5.58	0.888	1.230	0.846	0.191	0.230	
1 CC Uplink	NA	3603.30	55773	Low-Mid	LTE Band 48	20	12.30	11.29	-0.05	0	Antenna 1a	FSK48M4N3	QPSK	1	99	0 mm	left	1:5.58	0.806	1.262	0.765	0.168	0.212	
1 CC Uplink	NA	3646.70	56207	Mid-High	LTE Band 48	20	12.30	11.39	-0.00	0	Antenna 1a	FSK48M4N3	QPSK	1	99	0 mm	left	1:5.58	0.542	1.233	0.468	0.150	0.185	
1 CC Uplink	NA	3689.00	56640	High	LTE Band 48	20	12.30	11.28	-0.02	0	Antenna 1a	FSK48M4N3	QPSK	1	0	0 mm	left	1:5.58	0.550	1.265	0.496	0.152	0.182	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.46	0.15	0	Antenna 1a	FSK48M4N3	QPSK	50	0	0 mm	left	1:5.58	0.710	1.213	0.681	0.168	0.206	
1 CC Uplink	NA	3603.30	55773	Low-Mid	LTE Band 48	20	12.30	11.43	0.00	0	Antenna 1a	FSK48M4N3	QPSK	50	50	0 mm	left	1:5.58	0.614	1.222	0.750	0.172	0.210	
1 CC Uplink	NA	3646.70	56207	Mid-High	LTE Band 48	20	12.30	11.45	0.11	0	Antenna 1a	FSK48M4N3	QPSK	50	50	0 mm	left	1:5.58	0.637	1.216	0.663	0.146	0.176	
1 CC Uplink	NA	3689.00	56640	High	LTE Band 48	20	12.30	11.38	-0.12	0	Antenna 1a	FSK48M4N3	QPSK	50	0	0 mm	left	1:5.58	0.541	1.236	0.609	0.148	0.180	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	12.30	11.39	-0.01	0	Antenna 1a	FSK48M4N3	QPSK	100	0	0 mm	left	1:5.58	0.728	1.233	0.801	0.202	0.249	
2 CC Uplink	PCC	3560.00	55340	Low	LTE Band 48	20	12.30	11.07	0.03	0	Antenna 1a	FSK48M4N3	QPSK	100	0	0 mm	left	1:5.58	0.662	1.327	0.878	0.166	0.220	
2 CC Uplink	SCC	3579.80	55538	Low	LTE Band 48	20	12.30	11.07	0.03	0	Antenna 1a	FSK48M4N3	QPSK	100	0	0 mm	left	1:5.58	0.662	1.327	0.878	0.166	0.220	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT																		Body						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						

Table 10-44
LTE Band 48 Antenna 2 Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dBm)	MPE (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Pass #	
		MHz	Ch.																					
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	13.00	12.20	-0.01	0	Antenna 2	YDHPG44X	QPSK	1	0	0 mm	back	1:5.58	0.635	1.202	0.763	0.200	0.240	
1 CC Uplink	NA	3603.30	55773	Low-Mid	LTE Band 48	20	13.00	12.38	-0.02	0	Antenna 2	YDHPG44X	QPSK	1	99	0 mm	back	1:5.58	0.695	1.153	0.801	0.205	0.236	
1 CC Uplink	NA	3646.70	56207	Mid-High	LTE Band 48	20	13.00	12.37	-0.01	0	Antenna 2	YDHPG44X	QPSK	1	0	0 mm	back	1:5.58	0.626	1.156	0.724	0.187	0.216	
1 CC Uplink	NA	3689.00	56640	High	LTE Band 48	20	13.00	12.31	-0.02	0	Antenna 2	YDHPG44X	QPSK	1	0	0 mm	back	1:5.58	0.650	1.172	0.762	0.187	0.219	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	13.00	12.30	-0.04	0	Antenna 2	YDHPG44X	QPSK	50	25	0 mm	back	1:5.58	0.629	1.175	0.739	0.204	0.240	
1 CC Uplink	NA	3603.30	55773	Low-Mid	LTE Band 48	20	13.00	12.34	-0.00	0	Antenna 2	YDHPG44X	QPSK	50	25	0 mm	back	1:5.58	0.729	1.164	0.849	0.213	0.248	
1 CC Uplink	NA	3646.70	56207	Mid-High	LTE Band 48	20	13.00	12.33	-0.01	0	Antenna 2	YDHPG44X	QPSK	50	50	0 mm	back	1:5.58	0.703	1.167	0.820	0.200	0.244	
1 CC Uplink	NA	3689.00	56640	High	LTE Band 48	20	13.00	12.42	-0.01	0	Antenna 2	YDHPG44X	QPSK	50	0	0 mm	back	1:5.58	0.607	1.143	0.694	0.182	0.208	
1 CC Uplink	NA	3560.00	55340	Low	LTE Band 48	20	13.00	12.34	-0.02	0	Antenna 2	YDHPG44X	QPSK	50	50	0 mm	back	1:5.58	0.602	1.164	0.701	0.174	0.203	
1 CC Uplink	NA	3603.30	55773	Low-Mid	LTE Band 48	20	13.00	12.37	-0.00	0	Antenna 2	YDHPG44X	QPSK	100	0	0 mm	back	1:5.58	0.732	1.156	0.846	0.214	0.247	A15
2 CC Uplink	PCC	3603.30	55773	Low-Mid	LTE Band 48	20	13.00	12.41	-0.01	0	Antenna 2	YDHPG44X	QPSK	50	50	0 mm	back	1:5.58	0.696	1.146	0.798	0.207	0.237	
2 CC Uplink	SCC	3623.10	55971	Low-Mid	LTE Band 48	20	13.00	12.41	-0.01	0	Antenna 2	YDHPG44X	QPSK	50	50	0 mm	back	1:5.58	0.696	1.146	0.798	0.207	0.237	
1 CC Uplink	NA	3603.30	55773	Low-Mid	LTE Band 48	20	13.00	12.38	-0.14	0	Antenna 2	YDHPG44X	QPSK	1	99	0 mm	top	1:5.58	0.601	1.153	0.601	0.000	0.000	
1 CC Uplink	NA	3646.70	56207	Mid-High	LTE Band 48	20	13.00	12.42	-0.12	0	Antenna 2	YDHPG44X	QPSK	50	0	0 mm	top	1:5.58	0.604	1.143	0.605	0.000	0.000	
1 CC Uplink	NA	3603.30	55773	Low-Mid	LTE Band 48	20	13.00	12.38	-0.02	0	Antenna 2	YDHPG44X	QPSK	1	99	0 mm	bottom	1:5.58	0.270	1.153	0.311	0.079	0.091	
1 CC Uplink	NA	3646.70	56207	Mid-High	LTE Band 48	20	13.00	12.42	-0.06	0	Antenna 2	YDHPG44X	QPSK	50	0	0 mm	bottom	1:5.58	0.288	1.143	0.329	0.085	0.097	
1 CC Uplink	NA	3603.30	55773	Low-Mid	LTE Band 48	20	13.00	12.38	-0.05	0	Antenna 2	YDHPG44X	QPSK	1	99	0 mm	right	1:5.58	0.215	1.153	0.248	0.063	0.073	
1 CC Uplink	NA	3646.70	56207	Mid-High	LTE Band 48	20	13.00	12.42	-0.06	0	Antenna 2	YDHPG44X	QPSK	50	0	0 mm	right	1:5.58	0.226	1.143	0.258	0.069	0.079	
1 CC Uplink	NA	3603.30	55773	Low-Mid	LTE Band 48	20	13.00	12.38	-0.00	0	Antenna 2	YDHPG44X	QPSK	1	99	0 mm	left	1:5.58	0.600	1.153	0.600	0.000	0.000	
1 CC Uplink	NA	3646.70	56207	Mid-High	LTE Band 48	20	13.00	12.42	-0.00	0	Antenna 2	YDHPG44X	QPSK	50	0	0 mm	left	1:5.58	0.600	1.143	0.600	0.000	0.000	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT																		Body						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						

Table 10-45
LTE Band 48 Antenna 3a Body SAR

MEASUREMENT RESULTS																							
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dBm)	MPE (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Pass #
		MHz																					

**Table 10-46
LTE Band 48 Antenna 4 Body SAR**

MEASUREMENT RESULTS																							
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Out (dB)	MPF (dB)	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pass #
		Mhz	Ch.																				
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.32	-0.05	0	Antenna 4	MHFSWWTX	QPSK	1	0	0 mm	back	1:58	0.807	1.429	0.873	0.181	0.260
1 CC Uplink	NA	3603.30	35773	Low-Mid	LTE Band 48	20	11.90	10.22	-0.01	0	Antenna 4	MHFSWWTX	QPSK	1	0	0 mm	back	1:58	0.586	1.472	0.880	0.171	0.252
1 CC Uplink	NA	3646.70	36207	Mid-High	LTE Band 48	20	11.90	10.28	-0.05	0	Antenna 4	MHFSWWTX	QPSK	1	0	0 mm	back	1:58	0.557	1.452	0.859	0.160	0.232
1 CC Uplink	NA	3689.00	36640	High	LTE Band 48	20	11.90	10.06	0.06	0	Antenna 4	MHFSWWTX	QPSK	1	0	0 mm	back	1:58	0.446	1.531	0.883	0.135	0.207
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.42	0.04	0	Antenna 4	MHFSWWTX	QPSK	50	50	0 mm	back	1:58	0.601	1.406	0.845	0.178	0.250
1 CC Uplink	NA	3603.30	35773	Low-Mid	LTE Band 48	20	11.90	10.41	-0.01	0	Antenna 4	MHFSWWTX	QPSK	50	25	0 mm	back	1:58	0.627	1.409	0.883	0.178	0.251
1 CC Uplink	NA	3603.30	35773	Low-Mid	LTE Band 48	20	11.90	10.36	-0.04	0	Antenna 4	MHFSWWTX	QPSK	50	50	0 mm	back	1:58	0.534	1.429	0.813	0.152	0.217
1 CC Uplink	NA	3646.70	36207	Mid-High	LTE Band 48	20	11.90	10.38	0.02	0	Antenna 4	MHFSWWTX	QPSK	50	0	0 mm	back	1:58	0.554	1.419	0.786	0.160	0.227
1 CC Uplink	NA	3689.00	36640	High	LTE Band 48	20	11.90	10.12	0.01	0	Antenna 4	MHFSWWTX	QPSK	50	0	0 mm	back	1:58	0.442	1.507	0.866	0.131	0.197
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.28	0.05	0	Antenna 4	MHFSWWTX	QPSK	100	0	0 mm	back	1:58	0.501	1.452	0.858	0.177	0.257
2 CC Uplink	PCC	3603.30	35773	Low-Mid	LTE Band 48	20	11.90	10.93	-0.14	0	Antenna 4	MHFSWWTX	QPSK	50	50	0 mm	back	1:58	0.583	1.250	0.729	0.168	0.210
2 CC Uplink	SOC	3621.60	35971	Low-Mid	LTE Band 48	20	11.90	10.93	-0.14	0	Antenna 4	MHFSWWTX	QPSK	50	0	0 mm	top	1:58	0.583	1.250	0.729	0.168	0.210
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.42	-0.11	0	Antenna 4	MHFSWWTX	QPSK	1	0	0 mm	top	1:58	0.114	1.429	0.250	0.059	0.085
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.42	-0.11	0	Antenna 4	MHFSWWTX	QPSK	50	50	0 mm	top	1:58	0.110	1.406	0.239	0.056	0.079
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.32	-0.15	0	Antenna 4	MHFSWWTX	QPSK	1	0	0 mm	bottom	1:58	0.209	1.429	0.313	0.069	0.099
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.42	-0.14	0	Antenna 4	MHFSWWTX	QPSK	50	50	0 mm	bottom	1:58	0.211	1.406	0.235	0.070	0.101
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.32	-0.11	0	Antenna 4	MHFSWWTX	QPSK	1	0	0 mm	right	1:58	0.212	1.429	0.217	0.011	0.016
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.42	-0.18	0	Antenna 4	MHFSWWTX	QPSK	50	50	0 mm	right	1:58	0.209	1.406	0.213	0.068	0.098
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.32	-0.08	0	Antenna 4	MHFSWWTX	QPSK	1	0	0 mm	left	1:58	0.219	1.429	0.215	0.067	0.096
1 CC Uplink	NA	3500.00	35340	Low	LTE Band 48	20	11.90	10.42	0.04	0	Antenna 4	MHFSWWTX	QPSK	50	50	0 mm	left	1:58	0.224	1.406	0.215	0.069	0.097

ANSI / IEEE C62.1 1992 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population
Body
1.6 W/kg (mW/g)
averaged over 1 gram

**Table 10-47
NR n71 Antenna 2 Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY	Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Out (dB)	MPF (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pass #	
																						Mhz
680.50	136100	Mid	NR Band n71	20	18.50	17.42	-0.02	0.0	F3K46MAN3	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.546	1.262	0.700	0.212	0.272	
680.50	136100	Mid	NR Band n71	20	18.50	17.46	-0.02	0.0	F3K46MAN3	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.519	1.271	0.660	0.198	0.252	
680.50	136100	Mid	NR Band n71	20	18.50	17.33	-0.04	0.0	F3K46MAN3	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.537	1.309	0.703	0.202	0.264	
680.50	136100	Mid	NR Band n71	20	18.50	17.42	-0.02	0.0	F3K46MAN3	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.014	1.262	0.018	0.007	0.009	
680.50	136100	Mid	NR Band n71	20	18.50	17.46	-0.02	0.0	F3K46MAN3	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.011	1.271	0.014	0.006	0.008	
680.50	136100	Mid	NR Band n71	20	18.50	17.42	-0.02	0.0	F3K46MAN3	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.386	1.262	0.495	0.172	0.221	
680.50	136100	Mid	NR Band n71	20	18.50	17.46	-0.02	0.0	F3K46MAN3	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.396	1.271	0.503	0.176	0.234	
680.50	136100	Mid	NR Band n71	20	18.50	17.42	-0.02	0.0	F3K46MAN3	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.342	1.262	0.438	0.121	0.156	
680.50	136100	Mid	NR Band n71	20	18.50	17.46	-0.05	0.0	F3K46MAN3	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.338	1.271	0.430	0.120	0.153	
680.50	136100	Mid	NR Band n71	20	18.50	17.42	-0.04	0.0	F3K46MAN3	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.039	1.262	0.050	0.018	0.023	
680.50	136100	Mid	NR Band n71	20	18.50	17.46	-0.02	0.0	F3K46MAN3	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.032	1.271	0.041	0.015	0.019	

ANSI / IEEE C62.1 1992 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population
Body
1.6 W/kg (mW/g)
averaged over 1 gram

**Table 10-48
NR n71 Antenna 4 Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY	Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Out (dB)	MPF (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pass #	
																						Mhz
680.50	136100	Mid	NR Band n71	20	20.50	19.27	-0.01	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.729	1.327	0.967	0.344	0.426	
680.50	136100	Mid	NR Band n71	20	20.50	19.30	-0.01	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.653	1.318	0.861	0.307	0.405	
680.50	136100	Mid	NR Band n71	20	20.50	19.25	-0.00	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.624	1.334	0.832	0.294	0.392	
680.50	136100	Mid	NR Band n71	20	20.50	19.32	-0.00	0.0	D6WL24FM99	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.758	1.312	0.994	0.362	0.462	
680.50	136100	Mid	NR Band n71	20	20.50	19.27	-0.03	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.363	1.327	0.482	0.172	0.228	
680.50	136100	Mid	NR Band n71	20	20.50	19.30	-0.02	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.359	1.318	0.473	0.172	0.227	
680.50	136100	Mid	NR Band n71	20	20.50	19.27	-0.11	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.030	1.327	0.040	0.016	0.021	
680.50	136100	Mid	NR Band n71	20	20.50	19.30	-0.02	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.028	1.318	0.037	0.014	0.018	
680.50	136100	Mid	NR Band n71	20	20.50	19.27	-0.13	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.028	1.327	0.077	0.027	0.036	
680.50	136100	Mid	NR Band n71	20	20.50	19.30	-0.15	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.069	1.318	0.091	0.031	0.041	
680.50	136100	Mid	NR Band n71	20	20.50	19.27	-0.03	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.455	1.327	0.604	0.163	0.216	
680.50	136100	Mid	NR Band n71	20	20.50	19.30	-0.09	0.0	D6WL24FM99	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.484	1.318	0.638	0.172	0.227	

ANSI / IEEE C62.1 1992 - SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population
Body
1.6 W/kg (mW/g)
averaged over 1 gram


FCC ID: BCGA2568	 PCTEST <small>Proud to be part of @intel</small>	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 157 of 201

Table 10-49
NR n12 Antenna 2 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Dens. (dB)	MFR (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Plot #	
Mhz	Ch																						
707.50	141500	MA	NR Band n12	15	18.50	18.38	Antenna 2	0.01	0.0	LOG94W07G	DFT-S-OFDM	QPSK	1	1	0 mm	back	1.1	0.071	1.057	0.709	0.290	0.307	
707.50	141500	MA	NR Band n12	15	18.50	18.12	Antenna 2	-0.02	0.0	LOG94W07G	DFT-S-OFDM	QPSK	36	0	0 mm	back	1.1	0.707	1.091	0.765	0.304	0.332	
707.50	141500	MA	NR Band n12	15	18.50	18.04	Antenna 2	0.03	0.0	LOG94W07G	DFT-S-OFDM	QPSK	75	0	0 mm	back	1.1	0.707	1.112	0.786	0.288	0.320	
707.50	141500	MA	NR Band n12	15	18.50	18.24	Antenna 2	0.00	0.0	LOG94W07G	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.806	1.062	0.858	0.305	0.324	A17
707.50	141500	MA	NR Band n12	15	18.50	18.26	Antenna 2	0.13	0.0	LOG94W07G	DFT-S-OFDM	QPSK	1	1	0 mm	top	1.1	0.011	1.057	0.012	0.005	0.005	
707.50	141500	MA	NR Band n12	15	18.50	18.12	Antenna 2	-0.07	0.0	LOG94W07G	DFT-S-OFDM	QPSK	36	0	0 mm	top	1.1	0.017	1.091	0.019	0.008	0.009	
707.50	141500	MA	NR Band n12	15	18.50	18.26	Antenna 2	-0.02	0.0	LOG94W07G	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1.1	0.615	1.057	0.544	0.230	0.243	
707.50	141500	MA	NR Band n12	15	18.50	18.12	Antenna 2	0.00	0.0	LOG94W07G	DFT-S-OFDM	QPSK	36	0	0 mm	bottom	1.1	0.524	1.091	0.572	0.230	0.251	
707.50	141500	MA	NR Band n12	15	18.50	18.26	Antenna 2	-0.04	0.0	LOG94W07G	DFT-S-OFDM	QPSK	1	1	0 mm	right	1.1	0.463	1.057	0.489	0.168	0.167	
707.50	141500	MA	NR Band n12	15	18.50	18.12	Antenna 2	0.00	0.0	LOG94W07G	DFT-S-OFDM	QPSK	36	0	0 mm	right	1.1	0.476	1.091	0.519	0.162	0.177	
707.50	141500	MA	NR Band n12	15	18.50	18.26	Antenna 2	0.13	0.0	LOG94W07G	DFT-S-OFDM	QPSK	1	1	0 mm	left	1.1	0.029	1.057	0.030	0.013	0.014	
707.50	141500	MA	NR Band n12	15	18.50	18.12	Antenna 2	-0.12	0.0	LOG94W07G	DFT-S-OFDM	QPSK	36	0	0 mm	left	1.1	0.029	1.091	0.032	0.014	0.015	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT																Body							
Spatial Peak																1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																averaged over 1 gram							

Table 10-50
NR n12 Antenna 4 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Dens. (dB)	MFR (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Plot #	
Mhz	Ch																						
707.50	141500	MA	NR Band n12	15	18.90	17.74	Antenna 4	0.00	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	1	1	0 mm	back	1.1	0.753	1.306	0.983	0.260	0.427	
707.50	141500	MA	NR Band n12	15	18.90	17.65	Antenna 4	0.02	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	36	0	0 mm	back	1.1	0.715	1.334	0.954	0.242	0.458	
707.50	141500	MA	NR Band n12	15	18.90	17.58	Antenna 4	-0.07	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	75	0	0 mm	back	1.1	0.649	1.361	0.883	0.216	0.430	
707.50	141500	MA	NR Band n12	15	18.90	17.63	Antenna 4	-0.05	0.0	T3Y6QC448	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.711	1.340	0.953	0.320	0.441	
707.50	141500	MA	NR Band n12	15	18.90	17.74	Antenna 4	-0.13	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	1	1	0 mm	top	1.1	0.324	1.306	0.423	0.163	0.200	
707.50	141500	MA	NR Band n12	15	18.90	17.65	Antenna 4	0.01	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	36	0	0 mm	top	1.1	0.309	1.334	0.439	0.156	0.208	
707.50	141500	MA	NR Band n12	15	18.90	17.74	Antenna 4	-0.11	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1.1	0.016	1.306	0.021	0.008	0.010	
707.50	141500	MA	NR Band n12	15	18.90	17.65	Antenna 4	0.04	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	36	0	0 mm	bottom	1.1	0.022	1.334	0.029	0.011	0.015	
707.50	141500	MA	NR Band n12	15	18.90	17.74	Antenna 4	-0.13	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	1	1	0 mm	right	1.1	0.033	1.306	0.043	0.016	0.021	
707.50	141500	MA	NR Band n12	15	18.90	17.65	Antenna 4	-0.21	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	36	0	0 mm	right	1.1	0.032	1.334	0.043	0.015	0.020	
707.50	141500	MA	NR Band n12	15	18.90	17.74	Antenna 4	0.02	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	1	1	0 mm	left	1.1	0.448	1.306	0.585	0.148	0.163	
707.50	141500	MA	NR Band n12	15	18.90	17.65	Antenna 4	0.03	0.0	T3Y6QC448	DFT-S-OFDM	QPSK	36	0	0 mm	left	1.1	0.433	1.334	0.578	0.144	0.192	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT																Body							
Spatial Peak																1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																averaged over 1 gram							

Table 10-51
NR n5 Antenna 2 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Dens. (dB)	MFR (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Plot #	
Mhz	Ch																						
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.46	Antenna 2	-0.01	0.0	N14K7RH0FY	DFT-S-OFDM	QPSK	1	1	0 mm	back	1.1	0.564	1.057	0.596	0.291	0.308	
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.24	Antenna 2	0.02	0.0	N14K7RH0FY	DFT-S-OFDM	QPSK	50	0	0 mm	back	1.1	0.677	1.086	0.735	0.298	0.324	
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.39	Antenna 2	0.00	0.0	N14K7RH0FY	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.736	1.099	0.809	0.329	0.362	A18
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.46	Antenna 2	0.12	0.0	N14K7RH0FY	DFT-S-OFDM	QPSK	1	1	0 mm	top	1.1	0.010	1.057	0.011	0.005	0.005	
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.34	Antenna 2	-0.14	0.0	N14K7RH0FY	DFT-S-OFDM	QPSK	50	0	0 mm	top	1.1	0.010	1.086	0.011	0.005	0.005	
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.46	Antenna 2	0.01	0.0	N14K7RH0FY	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1.1	0.437	1.057	0.462	0.221	0.234	
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.34	Antenna 2	0.01	0.0	N14K7RH0FY	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1.1	0.463	1.086	0.503	0.238	0.258	
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.46	Antenna 2	0.04	0.0	N14K7RH0FY	DFT-S-OFDM	QPSK	1	1	0 mm	right	1.1	0.363	1.057	0.384	0.152	0.161	
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.34	Antenna 2	-0.07	0.0	N14K7RH0FY	DFT-S-OFDM	QPSK	50	0	0 mm	right	1.1	0.366	1.086	0.397	0.158	0.172	
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.46	Antenna 2	0.18	0.0	N14K7RH0FY	DFT-S-OFDM	QPSK	1	1	0 mm	left	1.1	0.030	1.057	0.032	0.015	0.016	
836.50	167300	Mid	NR Band n5 (CA)	20	17.70	17.34	Antenna 2	0.12	0.0	N14K7RH0FY	DFT-S-OFDM	QPSK	50	0	0 mm	left	1.1	0.032	1.086	0.035	0.016	0.017	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT																Body							
Spatial Peak																1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																averaged over 1 gram							

Table 10-52
NR n5 Antenna 4 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Dens. (dB)	MFR (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Plot #	
Mhz	Ch																						
836.50	167300	Mid	NR Band n5 (CA)	20	18.80	17.40	Antenna 4	-0.02	0.0	HQWTR4331P	DFT-S-OFDM	QPSK	1	53	0 mm	back	1.1	0.624	1.360	0.861	0.302	0.417	
836.50	167300	Mid	NR Band n5 (CA)	20	18.80	17.44	Antenna 4	-0.16	0.0	HQWTR4331P	DFT-S-OFDM	QPSK	50	0	0 mm	back	1.1	0.632	1.368	0.865	0.301	0.412	
836.50	167300	Mid	NR Band n5 (CA)	20	18.80	17.39	Antenna 4	-0.03	0.0	HQWTR4331P	DFT-S-OFDM	QPSK	100	0	0 mm	back	1.1	0.568	1.384	0.796	0.288	0.399	
836.50	167300	Mid	NR Band n5 (CA)	20	18.80	17.60	Antenna 4	-0.01	0.0	HQWTR4331P	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.655	1.316	0.863	0.317	0.418	
836.50	167300	Mid	NR Band n5 (CA)	20	18.80	17.40	Antenna 4	0.05	0.0	HQWTR4331P	DFT-S-OFDM	QPSK	1	53	0 mm	top	1.1	0.386	1.360	0.533	0.202	0.279	
836.50	167300	Mid	NR Band n5 (CA)	20	18.80	17.44	Antenna 4	0.03	0.0	HQWTR4331P	DFT-S-OFDM	QPSK	50	0	0 mm	top	1.1	0.397	1.368	0.543	0.206	0.282	
836.50	167300	Mid	NR Band n5 (CA)	20	18.80	17.40	Antenna 4	0.03	0.0	HQWTR4331P	DFT-S-OFDM	QPSK	1	53	0 mm	bottom	1.1	0.010	1.360	0.014	0.004	0.006	
836.50	167300	Mid	NR Band n5 (CA)	20	18.8																		

**Table 10-53
NR n66 Antenna 1b Body SAR**


MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Dens [dB]	MFR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Port #	
Mhz	Ch.																(W/kg)	(W/kg)	(W/kg)	(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.37	Antenna 1b	0.10	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.717	1.211	0.868	0.265	0.345
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.27	Antenna 1b	0.04	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.719	1.239	0.891	0.286	0.354
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.16	Antenna 1b	-0.02	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.690	1.265	0.873	0.279	0.352
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.37	Antenna 1b	0.01	0.0	F52K48M4N3	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.698	1.211	0.845	0.263	0.343
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.37	Antenna 1b	0.19	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.003	1.211	0.004	0.001	0.001
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.27	Antenna 1b	0.17	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.002	1.239	0.002	0.000	0.000
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.37	Antenna 1b	0.02	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.490	1.211	0.593	0.203	0.246
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.27	Antenna 1b	0.02	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.488	1.239	0.602	0.201	0.240
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.37	Antenna 1b	0.13	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.016	1.211	0.019	0.007	0.008
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.27	Antenna 1b	0.13	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.015	1.239	0.019	0.007	0.009
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.37	Antenna 1b	0.19	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.035	1.211	0.042	0.016	0.019
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.20	11.27	Antenna 1b	0.12	0.0	F52K48M4N3	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.033	1.239	0.041	0.015	0.010
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 10-54
NR n66 Antenna 2 Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Dens [dB]	MFR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MFR [dB]	Duty Cycle	SAR (1g)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Port #	
Mhz	Ch.																(W/kg)	(W/kg)	(W/kg)	(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.16	Antenna 2	-0.03	0	YDHF644JX	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.706	1.242	0.877	0.309	0.384
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.17	Antenna 2	-0.06	0	YDHF644JX	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.707	1.239	0.876	0.306	0.379
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.06	Antenna 2	-0.03	0	YDHF644JX	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.688	1.271	0.849	0.304	0.374
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.16	Antenna 2	0.10	0	YDHF644JX	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.687	1.245	0.855	0.315	0.392
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.16	Antenna 2	0.11	0	YDHF644JX	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.000	1.242	0.000	0.000	0.000
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.17	Antenna 2	0.12	0.0	YDHF644JX	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.002	1.239	0.002	0.001	0.001
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.16	Antenna 2	-0.04	0	YDHF644JX	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.625	1.242	0.776	0.281	0.324
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.17	Antenna 2	-0.03	0	YDHF644JX	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.626	1.239	0.768	0.263	0.326
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.16	Antenna 2	0.00	0	YDHF644JX	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.607	1.242	0.754	0.232	0.288
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.17	Antenna 2	0.01	0	YDHF644JX	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.601	1.239	0.745	0.242	0.300
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.16	Antenna 2	0.17	0	YDHF644JX	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.003	1.242	0.004	0.001	0.001
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.10	13.17	Antenna 2	0.18	0	YDHF644JX	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.003	1.239	0.004	0.001	0.001
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 10-55
NR n66 Antenna 3b Body SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Dens [dB]	MFR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MFR [dB]	Duty Cycle	SAR (1g)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Port #	
Mhz	Ch.																(W/kg)	(W/kg)	(W/kg)	(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.84	Antenna 3b	0.02	0.0	YDHF644JX	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.646	1.368	0.884	0.269	0.368
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.89	Antenna 3b	0.01	0.0	YDHF644JX	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.636	1.352	0.860	0.265	0.350
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.79	Antenna 3b	0.01	0.0	YDHF644JX	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.617	1.384	0.854	0.257	0.356
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.79	Antenna 3b	-0.03	0.0	YDHF644JX	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.621	1.384	0.859	0.257	0.356
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.84	Antenna 3b	0.03	0.0	YDHF644JX	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.618	1.368	0.845	0.266	0.364
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.89	Antenna 3b	-0.01	0.0	YDHF644JX	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.595	1.352	0.804	0.255	0.345
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.79	Antenna 3b	0.03	0.0	YDHF644JX	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	0.625	1.384	0.865	0.265	0.367
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.84	Antenna 3b	0.15	0.0	YDHF644JX	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.010	1.368	0.014	0.003	0.004
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.89	Antenna 3b	0.14	0.0	YDHF644JX	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.012	1.352	0.016	0.004	0.005
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.84	Antenna 3b	-0.10	0.0	YDHF644JX	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.053	1.368	0.073	0.025	0.034
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.89	Antenna 3b	0.08	0.0	YDHF644JX	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.055	1.352	0.080	0.027	0.037
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.84	Antenna 3b	0.18	0.0	YDHF644JX	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.027	1.368	0.037	0.014	0.019
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.20	11.89	Antenna 3b	0.14	0.0	YDHF644JX	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.023	1.352	0.031	0.012	0.016
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
Body 1.6 W/kg (mW/g) averaged over 1 gram																						

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Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 159 of 201

**Table 10-56
NR n66 Antenna 4 Body SAR**

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power DnB (dB)	MPR (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MFR (dB)	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Pass #	
Mhz	Ch.																						
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.50	Antenna 4	-0.08	0	YDHF044JX	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.702	1.202	0.844	0.313	0.378	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.52	Antenna 4	-0.06	0	YDHF044JX	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.755	1.197	0.904	0.331	0.366	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.44	Antenna 4	-0.07	0	YDHF044JX	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.689	1.219	0.840	0.310	0.378	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.50	Antenna 4	0.02	0	YDHF044JX	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.793	1.202	0.953	0.326	0.362	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.52	Antenna 4	-0.08	0	YDHF044JX	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.720	1.197	0.862	0.307	0.354	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.44	Antenna 4	0.14	0	YDHF044JX	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	0.733	1.219	0.894	0.304	0.371	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.50	Antenna 4	0.00	0	YDHF044JX	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.825	1.202	0.892	0.334	0.401	A19
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.50	Antenna 4	0.12	0	YDHF044JX	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.605	1.202	0.606	0.002	0.002	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.52	Antenna 4	0.18	0	YDHF044JX	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.609	1.197	0.611	0.004	0.005	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.50	Antenna 4	0.15	0	YDHF044JX	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.608	1.202	0.610	0.003	0.004	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.52	Antenna 4	0.15	0	YDHF044JX	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.607	1.197	0.608	0.003	0.004	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.50	Antenna 4	0.03	0	YDHF044JX	DFT-S-OFDM	QPSK	1	1	0 mm	lft	1:1	0.714	1.202	0.858	0.285	0.343	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.52	Antenna 4	0.00	0	YDHF044JX	DFT-S-OFDM	QPSK	108	0	0 mm	lft	1:1	0.718	1.197	0.857	0.285	0.341	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.44	Antenna 4	0.02	0	YDHF044JX	DFT-S-OFDM	QPSK	216	0	0 mm	lft	1:1	0.708	1.219	0.863	0.282	0.344	
1745.00	349000	Mtd	NR Band n66 (AWG)	40	14.30	13.50	Antenna 4	0.00	0	YDHF044JX	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.790	1.202	0.950	0.324	0.389	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						


Note: Blue entry represents variability measurement.

**Table 10-57
NR n25 Antenna 1b Body SAR**

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power DnB (dB)	MPR (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MFR (dB)	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Pass #	
Mhz	Ch.																						
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	11.08	Antenna 1b	0.10	0.0	LOGS4W070	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.758	1.028	0.779	0.202	0.300	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	10.69	Antenna 1b	-0.12	0.0	LOGS4W070	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.670	1.125	0.754	0.279	0.314	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	10.92	Antenna 1b	-0.16	0.0	LOGS4W070	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.681	1.067	0.727	0.286	0.306	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	11.08	Antenna 1b	0.11	0.0	LOGS4W070	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.608	1.028	0.608	0.001	0.001	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	10.69	Antenna 1b	0.15	0.0	LOGS4W070	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.606	1.125	0.607	0.001	0.001	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	11.08	Antenna 1b	0.00	0.0	LOGS4W070	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.469	1.028	0.482	0.199	0.206	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	10.69	Antenna 1b	-0.04	0.0	LOGS4W070	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.408	1.125	0.482	0.182	0.205	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	11.08	Antenna 1b	0.13	0.0	LOGS4W070	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.619	1.028	0.620	0.008	0.008	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	10.69	Antenna 1b	0.17	0.0	LOGS4W070	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.616	1.125	0.618	0.007	0.008	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	11.08	Antenna 1b	0.15	0.0	LOGS4W070	DFT-S-OFDM	QPSK	1	1	0 mm	lft	1:1	0.639	1.028	0.640	0.018	0.019	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	11.20	10.69	Antenna 1b	0.08	0.0	LOGS4W070	DFT-S-OFDM	QPSK	108	0	0 mm	lft	1:1	0.607	1.125	0.642	0.017	0.019	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

**Table 10-58
NR n25 Antenna 2 Body SAR**

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power DnB (dB)	MPR (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MFR (dB)	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Pass #	
Mhz	Ch.																						
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.96	Antenna 2	0.03	0	LOGS4W070	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.627	1.213	0.761	0.278	0.337	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.86	Antenna 2	0.06	0	LOGS4W070	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	0.539	1.242	0.669	0.240	0.288	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.96	Antenna 2	0.14	0	LOGS4W070	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.609	1.213	0.611	0.002	0.002	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.86	Antenna 2	0.09	0	LOGS4W070	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	0.605	1.242	0.606	0.001	0.001	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.96	Antenna 2	0.15	0	LOGS4W070	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.523	1.213	0.634	0.219	0.286	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.86	Antenna 2	0.01	0	LOGS4W070	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	0.467	1.242	0.580	0.194	0.241	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.96	Antenna 2	0.17	0	LOGS4W070	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.670	1.213	0.813	0.280	0.315	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.86	Antenna 2	0.03	0	LOGS4W070	DFT-S-OFDM	QPSK	108	108	0 mm	right	1:1	0.552	1.242	0.686	0.225	0.279	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.75	Antenna 2	0.03	0	LOGS4W070	DFT-S-OFDM	QPSK	216	0	0 mm	right	1:1	0.610	1.274	0.777	0.239	0.304	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.96	Antenna 2	0.04	0	LOGS4W070	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.640	1.208	0.773	0.261	0.303	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.96	Antenna 2	-0.10	0	LOGS4W070	DFT-S-OFDM	QPSK	1	1	0 mm	lft	1:1	0.604	1.213	0.606	0.001	0.001	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	13.80	12.86	Antenna 2	0.13	0	LOGS4W070	DFT-S-OFDM	QPSK	108	108	0 mm	lft	1:1	0.601	1.242	0.601	0.000	0.000	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

FCC ID: BCGA2568		SAR EVALUATION REPORT	Approved by: Quality Manager
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**Table 10-59
NR n25 Antenna 3b Body SAR**


MEASUREMENT RESULTS																										
FREQ	MHz	Ch	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dens [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Pass #			
																								SAR (1g) [W/kg]	Reported SAR (1g) [W/kg]	Reported SAR (10g) [W/kg]
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.28	Antenna 3b	-0.08	0.0	LDG94JW070	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.577	1.324	0.754	0.230	0.316				
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.20	Antenna 3b	-0.03	0.0	LDG94JW070	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.553	1.349	0.746	0.237	0.306				
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.28	Antenna 3b	0.01	0.0	LDG94JW070	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.580	1.324	0.741	0.235	0.311				
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.20	Antenna 3b	-0.05	0.0	LDG94JW070	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.583	1.349	0.736	0.245	0.331				
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.20	Antenna 3b	0.03	0.0	LDG94JW070	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.581	1.321	0.768	0.243	0.321				
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.28	Antenna 3b	0.11	0.0	LDG94JW070	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.003	1.324	0.004	0.001	0.001				
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.20	Antenna 3b	0.14	0.0	LDG94JW070	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.004	1.349	0.005	0.001	0.001				
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.28	Antenna 3b	0.12	0.0	LDG94JW070	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.042	1.324	0.056	0.019	0.025				
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.20	Antenna 3b	0.12	0.0	LDG94JW070	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.042	1.349	0.057	0.018	0.024				
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.28	Antenna 3b	0.09	0.0	LDG94JW070	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.013	1.324	0.017	0.008	0.008				
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.50	11.20	Antenna 3b	-0.11	0.0	LDG94JW070	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.014	1.349	0.019	0.006	0.008				
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																	Body Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) averaged over 1 gram				

**Table 10-60
NR n25 Antenna 4 Body SAR**

MEASUREMENT RESULTS																										
FREQ	MHz	Ch	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dens [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Pass #			
																								SAR (1g) [W/kg]	Reported SAR (1g) [W/kg]	Reported SAR (10g) [W/kg]
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.24	Antenna 4	0.05	0	DW124FM99	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.726	1.191	0.865	0.331	0.394				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.16	Antenna 4	-0.09	0	DW124FM99	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.748	1.213	0.907	0.302	0.391				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.12	Antenna 4	0.15	0	DW124FM99	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.718	1.225	0.880	0.313	0.383				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.24	Antenna 4	0.03	0	DW124FM99	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.733	1.191	0.873	0.301	0.358				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.16	Antenna 4	0.08	0	DW124FM99	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.665	1.213	0.807	0.276	0.335				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.12	Antenna 4	0.10	0	DW124FM99	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	0.687	1.225	0.842	0.285	0.349				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.24	Antenna 4	0.16	0	DW124FM99	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.009	1.191	0.011	0.002	0.002				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.16	Antenna 4	0.11	0	DW124FM99	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.001	1.213	0.001	0.000	0.000				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.24	Antenna 4	-0.15	0	DW124FM99	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.001	1.191	0.001	0.000	0.000				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.16	Antenna 4	-0.11	0	DW124FM99	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.000	1.213	0.000	0.000	0.000				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.24	Antenna 4	-0.03	0	DW124FM99	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.858	1.191	0.960	0.335	0.387	A20			
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.16	Antenna 4	-0.03	0	DW124FM99	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.633	1.213	0.788	0.264	0.320				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.12	Antenna 4	0.00	0	DW124FM99	DFT-S-OFDM	QPSK	216	0	0 mm	left	1:1	0.635	1.225	0.778	0.264	0.323				
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.00	13.20	Antenna 4	-0.03	0	DW124FM99	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.636	1.202	0.764	0.271	0.326				
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																	Body Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) averaged over 1 gram				

**Table 10-61
NR n30 Antenna 1b Body SA**

MEASUREMENT RESULTS																										
FREQ	MHz	Ch	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dens [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Pass #			
																								SAR (1g) [W/kg]	Reported SAR (1g) [W/kg]	Reported SAR (10g) [W/kg]
2310.00	462000	Mid	NR Band n30	10	12.30	11.86	Antenna 1b	-0.02	0	YDHF644JX	DFT-S-OFDM	QPSK	1	50	0 mm	back	1:1	0.661	1.107	0.732	0.231	0.256				
2310.00	462000	Mid	NR Band n30	10	12.30	11.87	Antenna 1b	0.02	0	YDHF644JX	DFT-S-OFDM	QPSK	25	27	0 mm	back	1:1	0.679	1.104	0.746	0.236	0.261				
2310.00	462000	Mid	NR Band n30	10	12.30	11.81	Antenna 1b	0.08	0	YDHF644JX	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.679	1.119	0.760	0.238	0.266				
2310.00	462000	Mid	NR Band n30	10	12.30	11.86	Antenna 1b	-0.13	0	YDHF644JX	DFT-S-OFDM	QPSK	1	50	0 mm	top	1:1	0.600	1.107	0.600	0.000	0.000				
2310.00	462000	Mid	NR Band n30	10	12.30	11.87	Antenna 1b	0.11	0	YDHF644JX	DFT-S-OFDM	QPSK	25	27	0 mm	top	1:1	0.000	1.104	0.000	0.000	0.000				
2310.00	462000	Mid	NR Band n30	10	12.30	11.86	Antenna 1b	-0.11	0	YDHF644JX	DFT-S-OFDM	QPSK	1	50	0 mm	bottom	1:1	0.500	1.107	0.554	0.169	0.187				
2310.00	462000	Mid	NR Band n30	10	12.30	11.87	Antenna 1b	-0.01	0	YDHF644JX	DFT-S-OFDM	QPSK	25	27	0 mm	bottom	1:1	0.510	1.104	0.563	0.172	0.190				
2310.00	462000	Mid	NR Band n30	10	12.30	11.86	Antenna 1b	0.12	0	YDHF644JX	DFT-S-OFDM	QPSK	1	50	0 mm	right	1:1	0.006	1.107	0.007	0.002	0.002				
2310.00	462000	Mid	NR Band n30	10	12.30	11.87	Antenna 1b	0.17	0	YDHF644JX	DFT-S-OFDM	QPSK	25	27	0 mm	right	1:1	0.007	1.104	0.008	0.002	0.002				
2310.00	462000	Mid	NR Band n30	10	12.30	11.86	Antenna 1b	-0.04	0	YDHF644JX	DFT-S-OFDM	QPSK	1	50	0 mm	left	1:1	0.025	1.107	0.028	0.010	0.011				
2310.00	462000	Mid	NR Band n30	10	12.30	11.87	Antenna 1b	0.12	0	YDHF644JX	DFT-S-OFDM	QPSK	25	27	0 mm	left	1:1	0.028	1.104	0.029	0.010	0.011				
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																	Body Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) averaged over 1 gram				

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**Table 10-62
NR n30 Antenna 2 Body SAR**

FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Coeff	Power Dens (dB)	MPF (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR (dB)	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pass #
Mhz	Ch.																					
2310.00	462000	Mid	NR Band n30	10	13.20	13.30	Antenna 2	-0.03	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.734	1.225	0.890	0.288	0.365
2310.00	462000	Mid	NR Band n30	10	13.20	12.25	Antenna 2	-0.05	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	25	14	0 mm	back	1:1	0.709	1.245	0.883	0.285	0.355
2310.00	462000	Mid	NR Band n30	10	13.20	12.22	Antenna 2	0.01	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.715	1.253	0.896	0.287	0.360
2310.00	462000	Mid	NR Band n30	10	13.20	12.27	Antenna 2	-0.06	0	HQWTR4Q31P	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.709	1.239	0.878	0.283	0.351
2310.00	462000	Mid	NR Band n30	10	13.20	12.32	Antenna 2	0.13	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.000	1.225	0.000	0.000	0.000
2310.00	462000	Mid	NR Band n30	10	13.20	12.25	Antenna 2	0.13	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	25	14	0 mm	top	1:1	0.001	1.245	0.001	0.000	0.000
2310.00	462000	Mid	NR Band n30	10	13.20	12.32	Antenna 2	-0.02	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.464	1.225	0.566	0.161	0.197
2310.00	462000	Mid	NR Band n30	10	13.20	12.35	Antenna 2	-0.02	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	25	14	0 mm	bottom	1:1	0.430	1.246	0.535	0.152	0.189
2310.00	462000	Mid	NR Band n30	10	13.20	12.32	Antenna 2	-0.09	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.640	1.225	0.662	0.208	0.256
2310.00	462000	Mid	NR Band n30	10	13.20	12.25	Antenna 2	0.04	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	25	14	0 mm	right	1:1	0.654	1.245	0.814	0.236	0.294
2310.00	462000	Mid	NR Band n30	10	13.20	12.22	Antenna 2	-0.04	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.629	1.253	0.788	0.234	0.283
2310.00	462000	Mid	NR Band n30	10	13.20	12.32	Antenna 2	0.11	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.002	1.225	0.002	0.000	0.000
2310.00	462000	Mid	NR Band n30	10	13.20	12.25	Antenna 2	-0.11	0	HQWTR4Q31P	DFT-S-OFDM	QPSK	25	14	0 mm	left	1:1	0.002	1.245	0.002	0.000	0.000
ANSI / IEEE C65.1 1992 - SAFETY LIMIT																	Body					
Spatial Peak																	1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

**Table 10-63
NR n30 Antenna 3b Body SAR**

FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Coeff	Power Dens (dB)	MPF (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pass #
Mhz	Ch.																					
2310.00	462000	Mid	NR Band n30	10	14.40	13.42	Antenna 3b	0.00	0	T3Y8XQC448	DFT-S-OFDM	QPSK	1	50	0 mm	back	1:1	0.705	1.253	0.910	0.260	0.320
2310.00	462000	Mid	NR Band n30	10	14.40	13.41	Antenna 3b	-0.04	0	T3Y8XQC448	DFT-S-OFDM	QPSK	25	27	0 mm	back	1:1	0.709	1.256	0.891	0.258	0.324
2310.00	462000	Mid	NR Band n30	10	14.40	13.36	Antenna 3b	-0.01	0	T3Y8XQC448	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.687	1.271	0.873	0.249	0.316
2310.00	462000	Mid	NR Band n30	10	14.40	13.51	Antenna 3b	-0.06	0	T3Y8XQC448	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.658	1.227	0.807	0.239	0.293
2310.00	462000	Mid	NR Band n30	10	14.40	13.42	Antenna 3b	0.02	0	T3Y8XQC448	DFT-S-OFDM	QPSK	1	50	0 mm	top	1:1	0.664	1.253	0.832	0.239	0.299
2310.00	462000	Mid	NR Band n30	10	14.40	13.41	Antenna 3b	0.04	0	T3Y8XQC448	DFT-S-OFDM	QPSK	25	27	0 mm	top	1:1	0.666	1.256	0.836	0.237	0.298
2310.00	462000	Mid	NR Band n30	10	14.40	13.36	Antenna 3b	-0.02	0	T3Y8XQC448	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.653	1.271	0.830	0.236	0.300
2310.00	462000	Mid	NR Band n30	10	14.40	13.42	Antenna 3b	0.12	0	T3Y8XQC448	DFT-S-OFDM	QPSK	1	50	0 mm	bottom	1:1	0.000	1.253	0.000	0.000	0.000
2310.00	462000	Mid	NR Band n30	10	14.40	13.41	Antenna 3b	0.12	0	T3Y8XQC448	DFT-S-OFDM	QPSK	25	27	0 mm	bottom	1:1	0.000	1.256	0.000	0.000	0.000
2310.00	462000	Mid	NR Band n30	10	14.40	13.42	Antenna 3b	0.02	0	T3Y8XQC448	DFT-S-OFDM	QPSK	1	50	0 mm	right	1:1	0.026	1.253	0.033	0.011	0.014
2310.00	462000	Mid	NR Band n30	10	14.40	13.41	Antenna 3b	0.13	0	T3Y8XQC448	DFT-S-OFDM	QPSK	25	27	0 mm	right	1:1	0.029	1.256	0.036	0.012	0.015
2310.00	462000	Mid	NR Band n30	10	14.40	13.42	Antenna 3b	0.13	0	T3Y8XQC448	DFT-S-OFDM	QPSK	1	50	0 mm	left	1:1	0.022	1.253	0.028	0.008	0.010
2310.00	462000	Mid	NR Band n30	10	14.40	13.41	Antenna 3b	0.16	0	T3Y8XQC448	DFT-S-OFDM	QPSK	25	27	0 mm	left	1:1	0.022	1.256	0.028	0.009	0.011
ANSI / IEEE C65.1 1992 - SAFETY LIMIT																	Body					
Spatial Peak																	1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

**Table 10-64
NR n30 Antenna 4 Body SAR**

FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Coeff	Power Dens (dB)	MPF (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR (dB)	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pass #	
Mhz	Ch.																						
2310.00	462000	Mid	NR Band n30	10	14.20	13.34	Antenna 4	0.01	0	MHFY86WXTX	DFT-S-OFDM	QPSK	1	26	0 mm	back	1:1	0.756	1.219	0.924	0.307	0.374	A21
2310.00	462000	Mid	NR Band n30	10	14.20	13.30	Antenna 4	-0.04	0	MHFY86WXTX	DFT-S-OFDM	QPSK	25	14	0 mm	back	1:1	0.732	1.230	0.900	0.298	0.367	
2310.00	462000	Mid	NR Band n30	10	14.20	13.22	Antenna 4	-0.03	0	MHFY86WXTX	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.710	1.253	0.890	0.290	0.363	
2310.00	462000	Mid	NR Band n30	10	14.20	13.18	Antenna 4	0.01	0	MHFY86WXTX	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.727	1.265	0.900	0.288	0.377	
2310.00	462000	Mid	NR Band n30	10	14.20	13.34	Antenna 4	-0.08	0	MHFY86WXTX	DFT-S-OFDM	QPSK	1	26	0 mm	top	1:1	0.538	1.219	0.656	0.216	0.263	
2310.00	462000	Mid	NR Band n30	10	14.20	13.30	Antenna 4	-0.11	0	MHFY86WXTX	DFT-S-OFDM	QPSK	25	14	0 mm	top	1:1	0.503	1.239	0.619	0.203	0.250	
2310.00	462000	Mid	NR Band n30	10	14.20	13.34	Antenna 4	0.17	0	MHFY86WXTX	DFT-S-OFDM	QPSK	1	26	0 mm	bottom	1:1	0.002	1.219	0.002	0.000	0.000	
2310.00	462000	Mid	NR Band n30	10	14.20	13.30	Antenna 4	0.16	0	MHFY86WXTX	DFT-S-OFDM	QPSK	25	14	0 mm	bottom	1:1	0.002	1.230	0.002	0.000	0.000	
2310.00	462000	Mid	NR Band n30	10	14.20	13.34	Antenna 4	0.16	0	MHFY86WXTX	DFT-S-OFDM	QPSK	1	26	0 mm	right	1:1	0.002	1.219	0.002	0.000	0.000	
2310.00	462000	Mid	NR Band n30	10	14.20	13.30	Antenna 4	0.11	0	MHFY86WXTX	DFT-S-OFDM	QPSK	25	14	0 mm	right	1:1	0.001	1.230	0.001	0.000	0.000	
2310.00	462000	Mid	NR Band n30	10	14.20	13.34	Antenna 4	0.05	0	MHFY86WXTX	DFT-S-OFDM	QPSK	1	26	0 mm	left	1:1	0.635	1.219	0.774	0.246	0.300	
2310.00	462000	Mid	NR Band n30	10	14.20	13.30	Antenna 4	0.05	0	MHFY86WXTX	DFT-S-OFDM	QPSK	25	14	0 mm	left	1:1	0.722	1.230	0.888	0.274	0.337	
2310.00	462000	Mid	NR Band n30	10	14.20	13.22	Antenna 4	-0.08	0	MHFY86WXTX	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.705	1.253	0.883	0.270	0.338	
ANSI / IEEE C65.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						


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Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 162 of 201

Table 10-65
NR n7 Antenna 1b Body SAR


MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dns [dB]	MPR [dB]	Serial Number	Waveform	Modulation	#B Size	#B Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot #	
Mhz	Ch.																						
2535.00	507000	Mid	NR Band n7	40	13.0	12.00	Antenna 1b	-0.02	0	MHFY65WKT	DFT-S-OFDM	QPSK	1	108	0 mm	back	1.1	0.694	1.233	0.656	0.235	0.277	
2535.00	507000	Mid	NR Band n7	40	13.0	12.11	Antenna 1b	-0.15	0	MHFY65WKT	DFT-S-OFDM	QPSK	108	108	0 mm	back	1.1	0.704	1.227	0.684	0.236	0.277	
2535.00	507000	Mid	NR Band n7	40	13.0	12.06	Antenna 1b	-0.11	0	MHFY65WKT	DFT-S-OFDM	QPSK	216	0	0 mm	back	1.1	0.707	1.242	0.678	0.239	0.284	
2535.00	507000	Mid	NR Band n7	40	13.0	11.92	Antenna 1b	-0.16	0	MHFY65WKT	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.692	1.292	0.674	0.226	0.290	
2535.00	507000	Mid	NR Band n7	40	13.0	12.00	Antenna 1b	-0.06	0	MHFY65WKT	DFT-S-OFDM	QPSK	1	108	0 mm	top	1.1	0.627	1.233	0.633	0.008	0.010	
2535.00	507000	Mid	NR Band n7	40	13.0	12.11	Antenna 1b	0.04	0	MHFY65WKT	DFT-S-OFDM	QPSK	108	108	0 mm	top	1.1	0.624	1.227	0.629	0.008	0.010	
2535.00	507000	Mid	NR Band n7	40	13.0	12.09	Antenna 1b	0.04	0	MHFY65WKT	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1.1	0.609	1.233	0.751	0.201	0.248	
2535.00	507000	Mid	NR Band n7	40	13.0	12.11	Antenna 1b	0.12	0	MHFY65WKT	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1.1	0.611	1.227	0.750	0.201	0.247	
2535.00	507000	Mid	NR Band n7	40	13.0	12.00	Antenna 1b	0.17	0	MHFY65WKT	DFT-S-OFDM	QPSK	1	108	0 mm	right	1.1	0.627	1.233	0.633	0.010	0.012	
2535.00	507000	Mid	NR Band n7	40	13.0	12.11	Antenna 1b	0.06	0	MHFY65WKT	DFT-S-OFDM	QPSK	108	108	0 mm	right	1.1	0.624	1.227	0.629	0.009	0.011	
2535.00	507000	Mid	NR Band n7	40	13.0	12.09	Antenna 1b	-0.10	0	MHFY65WKT	DFT-S-OFDM	QPSK	1	108	0 mm	left	1.1	0.628	1.233	0.635	0.011	0.014	
2535.00	507000	Mid	NR Band n7	40	13.0	12.11	Antenna 1b	-0.08	0	MHFY65WKT	DFT-S-OFDM	QPSK	108	108	0 mm	left	1.1	0.628	1.227	0.634	0.012	0.015	
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 10-66
NR n7 Antenna 2 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dns [dB]	MPR [dB]	Serial Number	Waveform	Modulation	#B Size	#B Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot #	
Mhz	Ch.																						
2535.00	507000	Mid	NR Band n7	40	11.80	11.42	Antenna 2	-0.02	0	LOG9AJW0T	DFT-S-OFDM	QPSK	1	1	0 mm	back	1.1	0.720	1.091	0.787	0.276	0.301	
2535.00	507000	Mid	NR Band n7	40	11.80	11.28	Antenna 2	0.07	0	LOG9AJW0T	DFT-S-OFDM	QPSK	108	108	0 mm	back	1.1	0.734	1.127	0.884	0.293	0.320	
2535.00	507000	Mid	NR Band n7	40	11.80	11.25	Antenna 2	0.05	0	LOG9AJW0T	DFT-S-OFDM	QPSK	216	0	0 mm	back	1.1	0.786	1.135	0.892	0.294	0.334	
2535.00	507000	Mid	NR Band n7	40	11.80	11.39	Antenna 2	-0.05	0	LOG9AJW0T	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.750	1.099	0.824	0.292	0.310	
2535.00	507000	Mid	NR Band n7	40	11.80	11.42	Antenna 2	-0.13	0	LOG9AJW0T	DFT-S-OFDM	QPSK	1	1	0 mm	top	1.1	0.612	1.091	0.613	0.003	0.003	
2535.00	507000	Mid	NR Band n7	40	11.80	11.28	Antenna 2	0.13	0	LOG9AJW0T	DFT-S-OFDM	QPSK	108	108	0 mm	top	1.1	0.609	1.127	0.610	0.002	0.002	
2535.00	507000	Mid	NR Band n7	40	11.80	11.42	Antenna 2	0.00	0	LOG9AJW0T	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1.1	0.556	1.091	0.606	0.198	0.216	
2535.00	507000	Mid	NR Band n7	40	11.80	11.28	Antenna 2	0.03	0	LOG9AJW0T	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1.1	0.556	1.127	0.627	0.197	0.222	
2535.00	507000	Mid	NR Band n7	40	11.80	11.42	Antenna 2	0.01	0	LOG9AJW0T	DFT-S-OFDM	QPSK	1	1	0 mm	right	1.1	0.609	1.091	0.663	0.217	0.237	
2535.00	507000	Mid	NR Band n7	40	11.80	11.25	Antenna 2	-0.09	0	LOG9AJW0T	DFT-S-OFDM	QPSK	108	108	0 mm	right	1.1	0.683	1.127	0.747	0.221	0.260	
2535.00	507000	Mid	NR Band n7	40	11.80	11.42	Antenna 2	0.14	0	LOG9AJW0T	DFT-S-OFDM	QPSK	1	1	0 mm	left	1.1	0.611	1.091	0.612	0.003	0.003	
2535.00	507000	Mid	NR Band n7	40	11.80	11.28	Antenna 2	-0.14	0	LOG9AJW0T	DFT-S-OFDM	QPSK	108	108	0 mm	left	1.1	0.606	1.127	0.607	0.000	0.000	
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 10-67
NR n7 Antenna 3b Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dns [dB]	MPR [dB]	Serial Number	Waveform	Modulation	#B Size	#B Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot #	
Mhz	Ch.																						
2535.00	507000	Mid	NR Band n7	40	14.7	13.30	Antenna 3b	0.02	0	QW4VQVCF	DFT-S-OFDM	QPSK	1	108	0 mm	back	1.1	0.592	1.362	0.800	0.213	0.288	
2535.00	507000	Mid	NR Band n7	40	14.7	13.37	Antenna 3b	0.02	0	QW4VQVCF	DFT-S-OFDM	QPSK	108	54	0 mm	back	1.1	0.579	1.368	0.786	0.209	0.284	
2535.00	507000	Mid	NR Band n7	40	14.7	13.36	Antenna 3b	-0.03	0	QW4VQVCF	DFT-S-OFDM	QPSK	216	0	0 mm	back	1.1	0.530	1.361	0.721	0.191	0.260	
2535.00	507000	Mid	NR Band n7	40	14.7	13.30	Antenna 3b	0.07	0	QW4VQVCF	DFT-S-OFDM	QPSK	1	108	0 mm	top	1.1	0.629	1.362	0.850	0.215	0.291	
2535.00	507000	Mid	NR Band n7	40	14.7	13.37	Antenna 3b	0.04	0	QW4VQVCF	DFT-S-OFDM	QPSK	108	54	0 mm	top	1.1	0.631	1.368	0.857	0.214	0.291	
2535.00	507000	Mid	NR Band n7	40	14.7	13.36	Antenna 3b	-0.01	0	QW4VQVCF	DFT-S-OFDM	QPSK	216	0	0 mm	top	1.1	0.655	1.361	0.891	0.222	0.302	
2535.00	507000	Mid	NR Band n7	40	14.7	13.38	Antenna 3b	-0.04	0	QW4VQVCF	CP-OFDM	QPSK	1	1	0 mm	top	1.1	0.614	1.355	0.832	0.208	0.282	
2535.00	507000	Mid	NR Band n7	40	14.7	13.39	Antenna 3b	0.15	0	QW4VQVCF	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1.1	0.600	1.362	0.800	0.000	0.000	
2535.00	507000	Mid	NR Band n7	40	14.7	13.37	Antenna 3b	0.16	0	QW4VQVCF	DFT-S-OFDM	QPSK	108	54	0 mm	bottom	1.1	0.600	1.368	0.800	0.000	0.000	
2535.00	507000	Mid	NR Band n7	40	14.7	13.30	Antenna 3b	-0.18	0	QW4VQVCF	DFT-S-OFDM	QPSK	1	108	0 mm	right	1.1	0.628	1.362	0.836	0.011	0.015	
2535.00	507000	Mid	NR Band n7	40	14.7	13.37	Antenna 3b	-0.07	0	QW4VQVCF	DFT-S-OFDM	QPSK	108	54	0 mm	right	1.1	0.628	1.368	0.838	0.011	0.015	
2535.00	507000	Mid	NR Band n7	40	14.7	13.30	Antenna 3b	-0.12	0	QW4VQVCF	DFT-S-OFDM	QPSK	1	108	0 mm	left	1.1	0.617	1.362	0.823	0.007	0.009	
2535.00	507000	Mid	NR Band n7	40	14.7	13.37	Antenna 3b	-0.10	0	QW4VQVCF	DFT-S-OFDM	QPSK	108	54	0 mm	left	1.1	0.617	1.368	0.823	0.007	0.010	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																	Body 1.6 W/kg (mW/g) averaged over 1 gram						
Uncontrolled Exposure/General Population																							

FCC ID: BCGA2568	 <small>Should be part of @logo</small>	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 163 of 201

**Table 10-68
NR n7 Antenna 4 Body SAR**

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Coeff.	Power Out (dBm)	MPR (dB)	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR (dB)	Duty Cycle	SAR (1g) (mW/kg)	Scaling Factor	Reported SAR (1g) (mW/kg)	SAR (10g) (mW/kg)	Reported SAR (10g) (mW/kg)	Pass #	
Mhz	Ch.																						
2535.00	507000	Mid	NR Band n7	40	12.00	11.89	Antenna 4	-0.11	0	D57Y7GF.993	DFT-S-OFDM	QPSK	1	214	0 mm	back	1:1	0.845	1.026	0.867	0.295	0.303	
2535.00	507000	Mid	NR Band n7	40	12.00	11.87	Antenna 4	0.00	0	D57Y7GF.993	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.859	1.030	0.885	0.306	0.315	A22
2535.00	507000	Mid	NR Band n7	40	12.00	11.80	Antenna 4	0.11	0	D57Y7GF.993	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.826	1.047	0.865	0.293	0.307	
2535.00	507000	Mid	NR Band n7	40	12.00	11.67	Antenna 4	-0.12	0	D57Y7GF.993	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.838	1.079	0.904	0.296	0.319	
2535.00	507000	Mid	NR Band n7	40	12.00	11.89	Antenna 4	-0.04	0	D57Y7GF.993	DFT-S-OFDM	QPSK	1	214	0 mm	top	1:1	0.469	1.026	0.481	0.155	0.159	
2535.00	507000	Mid	NR Band n7	40	12.00	11.87	Antenna 4	0.03	0	D57Y7GF.993	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.446	1.030	0.459	0.147	0.151	
2535.00	507000	Mid	NR Band n7	40	12.00	11.89	Antenna 4	-0.11	0	D57Y7GF.993	DFT-S-OFDM	QPSK	1	214	0 mm	bottom	1:1	0.000	1.026	0.000	0.000	0.000	
2535.00	507000	Mid	NR Band n7	40	12.00	11.87	Antenna 4	-0.12	0	D57Y7GF.993	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.001	1.030	0.001	0.000	0.000	
2535.00	507000	Mid	NR Band n7	40	12.00	11.89	Antenna 4	0.11	0	D57Y7GF.993	DFT-S-OFDM	QPSK	1	214	0 mm	right	1:1	0.000	1.026	0.000	0.000	0.000	
2535.00	507000	Mid	NR Band n7	40	12.00	11.87	Antenna 4	-0.13	0	D57Y7GF.993	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.002	1.030	0.002	0.000	0.000	
2535.00	507000	Mid	NR Band n7	40	12.00	11.89	Antenna 4	0.03	0	D57Y7GF.993	DFT-S-OFDM	QPSK	1	214	0 mm	left	1:1	0.483	1.026	0.496	0.172	0.176	
2535.00	507000	Mid	NR Band n7	40	12.00	11.87	Antenna 4	0.02	0	D57Y7GF.993	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.578	1.030	0.595	0.202	0.208	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT																		Body					
Spatial Peak																		1.6 W/kg (mW/kg)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					

**Table 10-69
NR n41 PC2 Antenna 1b Body SAR**

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Coeff.	Power Out (dBm)	MPR (dB)	Power Class	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR (dB)	Duty Cycle	SAR (1g) (mW/kg)	Scaling Factor	Reported SAR (1g) (mW/kg)	SAR (10g) (mW/kg)	Reported SAR (10g) (mW/kg)	Pass #	
Mhz	Ch.																							
2592.99	518936	Mid	NR Band n41	100	12.70	11.41	Antenna 1b	0.00	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.626	1.346	0.652	0.225	0.276	
2592.99	518936	Mid	NR Band n41	100	12.70	11.31	Antenna 1b	-0.04	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	136	136	0 mm	back	1:1	0.609	1.377	0.630	0.198	0.273	
2592.99	518936	Mid	NR Band n41	100	12.70	11.30	Antenna 1b	-0.01	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.641	1.380	0.685	0.209	0.288	
2592.99	518936	Mid	NR Band n41	100	12.70	11.34	Antenna 1b	-0.07	0	PC2	N14X2RH9FY	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.646	1.368	0.688	0.214	0.293	
2592.99	518936	Mid	NR Band n41	100	12.70	11.41	Antenna 1b	0.11	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.000	1.346	0.000	0.000	0.000	
2592.99	518936	Mid	NR Band n41	100	12.70	11.31	Antenna 1b	-0.11	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	136	136	0 mm	top	1:1	0.000	1.377	0.000	0.000	0.000	
2592.99	518936	Mid	NR Band n41	100	12.70	11.41	Antenna 1b	-0.12	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.618	1.346	0.632	0.214	0.286	
2592.99	518936	Mid	NR Band n41	100	12.70	11.31	Antenna 1b	0.02	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	136	136	0 mm	bottom	1:1	0.615	1.377	0.647	0.209	0.288	
2592.99	518936	Mid	NR Band n41	100	12.70	11.30	Antenna 1b	-0.06	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	270	0	0 mm	bottom	1:1	0.621	1.380	0.657	0.213	0.294	
2592.99	518936	Mid	NR Band n41	100	12.70	11.41	Antenna 1b	-0.12	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.010	1.346	0.013	0.002	0.003	
2592.99	518936	Mid	NR Band n41	100	12.70	11.31	Antenna 1b	-0.14	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	136	136	0 mm	right	1:1	0.009	1.377	0.012	0.003	0.004	
2592.99	518936	Mid	NR Band n41	100	12.70	11.41	Antenna 1b	0.12	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.019	1.346	0.028	0.007	0.009	
2592.99	518936	Mid	NR Band n41	100	12.70	11.31	Antenna 1b	-0.17	0	PC2	N14X2RH9FY	DFT-S-OFDM	QPSK	136	136	0 mm	left	1:1	0.021	1.377	0.029	0.008	0.011	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT																		Body						
Spatial Peak																		1.6 W/kg (mW/kg)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						

**Table 10-70
NR n41 PC2 Antenna 2 Body SAR**

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Coeff.	Power Out (dBm)	MPR (dB)	Power Class	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR (dB)	Duty Cycle	SAR (1g) (mW/kg)	Scaling Factor	Reported SAR (1g) (mW/kg)	SAR (10g) (mW/kg)	Reported SAR (10g) (mW/kg)	Pass #	
Mhz	Ch.																							
2592.99	518936	Mid	NR Band n41	100	12.5	11.56	Antenna 2	-0.11	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.714	1.242	0.867	0.293	0.314	
2592.99	518936	Mid	NR Band n41	100	12.5	11.60	Antenna 2	-0.18	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	136	69	0 mm	back	1:1	0.719	1.230	0.873	0.290	0.308	
2592.99	518936	Mid	NR Band n41	100	12.5	11.54	Antenna 2	-0.16	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.717	1.247	0.894	0.292	0.314	
2592.99	518936	Mid	NR Band n41	100	12.5	11.61	Antenna 2	-0.16	0	PC2	DW4K2QW44	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.729	1.227	0.894	0.289	0.325	
2592.99	518936	Mid	NR Band n41	100	12.5	11.56	Antenna 2	0.12	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.000	1.242	0.000	0.000	0.000	
2592.99	518936	Mid	NR Band n41	100	12.5	11.60	Antenna 2	-0.12	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	136	69	0 mm	top	1:1	0.000	1.230	0.000	0.000	0.000	
2592.99	518936	Mid	NR Band n41	100	12.5	11.56	Antenna 2	-0.05	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.618	1.242	0.643	0.188	0.209	
2592.99	518936	Mid	NR Band n41	100	12.5	11.60	Antenna 2	-0.09	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	136	69	0 mm	bottom	1:1	0.531	1.230	0.663	0.171	0.210	
2592.99	518936	Mid	NR Band n41	100	12.5	11.54	Antenna 2	-0.17	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	270	0	0 mm	bottom	1:1	0.522	1.247	0.688	0.178	0.222	
2592.99	518936	Mid	NR Band n41	100	12.5	11.56	Antenna 2	0.02	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.616	1.242	0.765	0.212	0.263	
2592.99	518936	Mid	NR Band n41	100	12.5	11.60	Antenna 2	-0.08	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	136	69	0 mm	right	1:1	0.597	1.230	0.734	0.207	0.256	
2592.99	518936	Mid	NR Band n41	100	12.5	11.54	Antenna 2	-0.13	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	0.584	1.247	0.728	0.203	0.253	
2592.99	518936	Mid	NR Band n41	100	12.5	11.56	Antenna 2	-0.12	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.008	1.242	0.007	0.002	0.002	
2592.99	518936	Mid	NR Band n41	100	12.5	11.60	Antenna 2	-0.12	0	PC2	DW4K2QW44	DFT-S-OFDM	QPSK	136	69	0 mm	left	1:1	0.008	1.230	0.007	0.002	0.002	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT																		Body						
Spatial Peak																		1.6 W/kg (mW/kg)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						


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Table 10-71
NR n41 PC2 Antenna 3b Body SAR

MEASUREMENT RESULTS																								
FREQUENCY	Mn	Cn	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dens [dB]	MPE [dB]	Power Class	Serial Number	Waveform	Modulation	ES Size	ES Offset	Spacing	MPE [dB]	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Pass #
2502.99	518598	Mtd	NR Band n41	100	14.90	13.77	Antenna 3b	-0.21	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.609	1.207	0.750	0.207	0.268	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.63	Antenna 3b	0.02	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.608	1.340	0.815	0.208	0.270	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.60	Antenna 3b	0.04	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.621	1.340	0.838	0.211	0.265	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.77	Antenna 3b	0.01	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.769	1.207	0.927	0.285	0.344	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.63	Antenna 3b	-0.09	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.621	1.340	0.240	0.275	0.294	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.60	Antenna 3b	0.05	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	0.728	1.340	0.282	0.244	0.239	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.60	Antenna 3b	0.02	0	PC2	T3Y8XCQ448	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.727	1.340	0.294	0.257	0.347	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.77	Antenna 3b	0.15	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.628	1.207	0.034	0.008	0.010	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.63	Antenna 3b	0.13	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.622	1.340	0.029	0.007	0.009	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.77	Antenna 3b	0.12	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.622	1.207	0.029	0.006	0.008	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.63	Antenna 3b	0.15	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.627	1.340	0.036	0.007	0.009	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.77	Antenna 3b	0.20	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.628	1.207	0.026	0.005	0.006	
2502.99	518598	Mtd	NR Band n41	100	14.90	13.63	Antenna 3b	0.16	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.628	1.340	0.035	0.009	0.012	
ANSI / IEEE C63.1 1997 - SAFETY LIMIT																			Body					
Spatial Peak																			1.4 W/kg (mW/g)					
Uncontrolled Exposure/General Population																			averaged over 1 gram					

Table 10-72
NR n41 PC2 Antenna 4 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY	Mn	Cn	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dens [dB]	MPE [dB]	Power Class	Serial Number	Waveform	Modulation	ES Size	ES Offset	Spacing	MPE [dB]	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Pass #
2502.99	518598	Mtd	NR Band n41	100	12.10	11.51	Antenna 4	-0.07	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.814	1.146	0.953	0.296	0.339	A23
2502.99	518598	Mtd	NR Band n41	100	12.10	11.40	Antenna 4	-0.08	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.803	1.175	0.944	0.293	0.344	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.20	Antenna 4	-0.08	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.812	1.230	0.969	0.294	0.342	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.38	Antenna 4	-0.02	0	PC2	N140RH9FY	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.793	1.180	0.959	0.285	0.336	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.51	Antenna 4	0.12	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.478	1.146	0.545	0.163	0.187	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.40	Antenna 4	0.09	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.497	1.175	0.537	0.158	0.168	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.51	Antenna 4	-0.11	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.600	1.146	0.600	0.000	0.001	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.40	Antenna 4	0.11	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.606	1.175	0.606	0.001	0.001	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.51	Antenna 4	0.15	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.606	1.146	0.607	0.002	0.002	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.40	Antenna 4	0.10	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.606	1.175	0.607	0.001	0.001	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.51	Antenna 4	0.04	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.564	1.146	0.646	0.197	0.226	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.40	Antenna 4	0.08	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.552	1.175	0.649	0.193	0.227	
2502.99	518598	Mtd	NR Band n41	100	12.10	11.20	Antenna 4	-0.05	0	PC2	N140RH9FY	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.568	1.230	0.659	0.196	0.241	
ANSI / IEEE C63.1 1997 - SAFETY LIMIT																			Body					
Spatial Peak																			1.4 W/kg (mW/g)					
Uncontrolled Exposure/General Population																			averaged over 1 gram					

Table 10-73
NR n77 DoD PC2 Antenna 1a Body SAR

MEASUREMENT RESULTS																								
FREQUENCY	Mn	Cn	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dens [dB]	MPE [dB]	Power Class	Serial Number	Waveform	Modulation	ES Size	ES Offset	Spacing	MPE [dB]	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Pass #
3500.01	833334	Mtd	NR Band n77	100	10.40	9.40	Antenna 1a	-0.03	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.626	1.233	0.772	0.261	0.248	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.53	Antenna 1a	-0.06	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.620	1.222	0.758	0.260	0.244	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.40	Antenna 1a	-0.13	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	1	271	0 mm	top	1:1	0.602	1.233	0.600	0.000	0.000	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.53	Antenna 1a	-0.19	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.600	1.222	0.600	0.000	0.000	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.49	Antenna 1a	0.04	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.225	1.233	0.250	0.005	0.000	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.53	Antenna 1a	-0.03	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.225	1.222	0.275	0.002	0.000	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.40	Antenna 1a	0.17	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	0.600	1.233	0.600	0.000	0.000	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.53	Antenna 1a	0.11	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.600	1.222	0.600	0.000	0.001	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.49	Antenna 1a	-0.08	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.678	1.233	0.826	0.191	0.228	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.53	Antenna 1a	-0.07	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.684	1.222	0.846	0.195	0.228	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.48	Antenna 1a	-0.03	0	PC2	QW4XQW44	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.695	1.236	0.859	0.198	0.245	
3500.01	833334	Mtd	NR Band n77	100	10.40	9.37	Antenna 1a	-0.01	0	PC2	QW4XQW44	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.696	1.268	0.883	0.198	0.251	
ANSI / IEEE C63.1 1997 - SAFETY LIMIT																			Body					
Spatial Peak																			1.4 W/kg (mW/g)					
Uncontrolled Exposure/General Population																			averaged over 1 gram					

Table 10-74
NR n77 DoD PC2 Antenna 2 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY	Mn	Cn	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dens [dB]	MPE [dB]	Power Class	Serial Number	Waveform	Modulation	ES Size	ES Offset	Spacing	MPE [dB]	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Pass #
3500.01	833334	Mtd	NR Band n77	100	11.40	10.65	Antenna 2	0.01	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.746	1.189	0.887	0.233	0.277	
3500.01	833334	Mtd	NR Band n77	100	11.40	10.75	Antenna 2	0.00	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.754	1.161	0.875	0.226	0.274	A24
3500.01	833334	Mtd	NR Band n77	100	11.40	10.60	Antenna 2	0.02	0	PC2	T3Y8XCQ448	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.703	1.202	0.845	0.223	0.268	
3500.01	833334	Mtd	NR Band n77	100	11.40	10.68	Antenna 2	0.01	0	PC2	T3Y8XCQ448	CP-OFDM	QPSK	1	1	0 mm	back	1:1</						

**Table 10-75
NR n77 DoD PC2 Antenna 3a Body SAR**

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Coeff.	Power Dens. (dB)	MPE (dB)	Power Class	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPE (dB)	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (15g) (W/kg)	Reported SAR (15g) (W/kg)	Pass #	
Mhz	Ch.																							
3500.01	833334	Mid	NR Band n77	100	11.00	10.01	Antenna 3a	-0.50	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	1	137	0 mm	back	1.1	0.379	1.256	0.476	0.125	0.157	
3500.01	833334	Mid	NR Band n77	100	11.00	10.08	Antenna 3a	-0.51	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	136	138	0 mm	back	1.1	0.412	1.236	0.509	0.135	0.167	
3500.01	833334	Mid	NR Band n77	100	11.00	10.01	Antenna 3a	-0.12	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	1	137	0 mm	top	1.1	0.207	1.256	0.260	0.069	0.074	
3500.01	833334	Mid	NR Band n77	100	11.00	10.08	Antenna 3a	-0.20	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	136	138	0 mm	top	1.1	0.214	1.236	0.265	0.081	0.075	
3500.01	833334	Mid	NR Band n77	100	11.00	10.01	Antenna 3a	-0.11	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1.1	0.202	1.256	0.053	0.000	0.000	
3500.01	833334	Mid	NR Band n77	100	11.00	10.08	Antenna 3a	-0.19	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	136	138	0 mm	bottom	1.1	0.204	1.236	0.055	0.000	0.000	
3500.01	833334	Mid	NR Band n77	100	11.00	10.01	Antenna 3a	-0.06	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	1	137	0 mm	right	1.1	0.706	1.256	0.887	0.109	0.230	
3500.01	833334	Mid	NR Band n77	100	11.00	10.08	Antenna 3a	-0.06	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	136	138	0 mm	right	1.1	0.689	1.236	0.850	0.104	0.240	
3500.01	833334	Mid	NR Band n77	100	11.00	10.00	Antenna 3a	-0.06	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	270	0	0 mm	right	1.1	0.689	1.259	0.867	0.105	0.246	
3500.01	833334	Mid	NR Band n77	100	11.00	9.95	Antenna 3a	-0.00	0	PC2	QW42KQWPA4	CP-OFDM	QPSK	1	1	0 mm	right	1.1	0.704	1.274	0.897	0.109	0.254	
3500.01	833334	Mid	NR Band n77	100	11.00	10.01	Antenna 3a	0.07	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	1	137	0 mm	left	1.1	0.000	1.256	0.000	0.000	0.000	
3500.01	833334	Mid	NR Band n77	100	11.00	10.08	Antenna 3a	0.14	0	PC2	QW42KQWPA4	DFT-S-OFDM	QPSK	136	138	0 mm	left	1.1	0.000	1.236	0.004	0.000	0.000	

ANSI / IEEE C62.119-1 SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

Body
1.6 W/kg (mW/g)
averaged over 1 gram

**Table 10-76
NR n77 DoD PC2 Antenna 4 Body SAR**

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Coeff.	Power Dens. (dB)	MPE (dB)	Power Class	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPE (dB)	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (15g) (W/kg)	Reported SAR (15g) (W/kg)	Pass #	
Mhz	Ch.																							
3500.01	833334	Mid	NR Band n77	100	11.50	10.73	Antenna 4	0.01	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	1	271	0 mm	back	1.1	0.726	1.194	0.867	0.237	0.283	
3500.01	833334	Mid	NR Band n77	100	11.50	10.60	Antenna 4	-0.06	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	136	138	0 mm	back	1.1	0.730	1.230	0.868	0.233	0.287	
3500.01	833334	Mid	NR Band n77	100	11.50	10.58	Antenna 4	-0.05	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	270	0	0 mm	back	1.1	0.735	1.236	0.908	0.233	0.288	
3500.01	833334	Mid	NR Band n77	100	11.50	10.74	Antenna 4	-0.02	0	PC2	D57YGF33	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.734	1.191	0.874	0.234	0.279	
3500.01	833334	Mid	NR Band n77	100	11.50	10.73	Antenna 4	0.01	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	1	271	0 mm	top	1.1	0.200	1.194	0.848	0.078	0.093	
3500.01	833334	Mid	NR Band n77	100	11.50	10.60	Antenna 4	-0.06	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	136	138	0 mm	top	1.1	0.218	1.230	0.391	0.087	0.107	
3500.01	833334	Mid	NR Band n77	100	11.50	10.73	Antenna 4	-0.11	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1.1	0.000	1.194	0.000	0.000	0.000	
3500.01	833334	Mid	NR Band n77	100	11.50	10.60	Antenna 4	-0.09	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	136	138	0 mm	bottom	1.1	0.206	1.230	0.206	0.000	0.000	
3500.01	833334	Mid	NR Band n77	100	11.50	10.73	Antenna 4	-0.17	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	1	271	0 mm	right	1.1	0.000	1.194	0.004	0.000	0.000	
3500.01	833334	Mid	NR Band n77	100	11.50	10.60	Antenna 4	-0.18	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	136	138	0 mm	right	1.1	0.001	1.230	0.001	0.000	0.000	
3500.01	833334	Mid	NR Band n77	100	11.50	10.73	Antenna 4	0.02	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	1	271	0 mm	left	1.1	0.440	1.194	0.525	0.119	0.142	
3500.01	833334	Mid	NR Band n77	100	11.50	10.60	Antenna 4	-0.08	0	PC2	D57YGF33	DFT-S-OFDM	QPSK	136	138	0 mm	left	1.1	0.423	1.230	0.520	0.120	0.148	

ANSI / IEEE C62.119-1 SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population


Body
1.6 W/kg (mW/g)
averaged over 1 gram

**Table 10-77
NR n77 C PC2 Antenna 1a Body SAR**

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Coeff.	Power Dens. (dB)	MPE (dB)	Power Class	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPE (dB)	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (15g) (W/kg)	Reported SAR (15g) (W/kg)	Pass #	
Mhz	Ch.																							
3750.00	80000	Low	NR Band n77	100	10.40	10.28	Antenna 1a	-0.12	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	1	1	0 mm	back	1.1	0.602	1.028	0.619	0.179	0.184	
3900.00	80000	High	NR Band n77	100	10.40	10.31	Antenna 1a	-0.19	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	1	1	0 mm	back	1.1	0.712	1.021	0.727	0.202	0.206	
3750.00	80000	Low	NR Band n77	100	10.40	10.30	Antenna 1a	-0.09	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	136	0	0 mm	back	1.1	0.585	1.023	0.598	0.176	0.180	
3900.00	80000	High	NR Band n77	100	10.40	10.31	Antenna 1a	-0.00	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	136	0	0 mm	back	1.1	0.603	1.021	0.607	0.186	0.180	
3750.00	80000	Low	NR Band n77	100	10.40	10.30	Antenna 1a	-0.12	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	270	0	0 mm	back	1.1	0.602	1.023	0.607	0.191	0.195	
3900.00	80000	High	NR Band n77	100	10.40	10.31	Antenna 1a	-0.15	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	1	1	0 mm	top	1.1	0.000	1.021	0.000	0.000	0.000	
3900.00	80000	High	NR Band n77	100	10.40	10.31	Antenna 1a	-0.13	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	136	0	0 mm	top	1.1	0.000	1.021	0.000	0.000	0.000	
3900.00	80000	High	NR Band n77	100	10.40	10.31	Antenna 1a	-0.07	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1.1	0.233	1.021	0.238	0.062	0.063	
3900.00	80000	High	NR Band n77	100	10.40	10.31	Antenna 1a	-0.13	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	136	0	0 mm	bottom	1.1	0.180	1.021	0.184	0.048	0.047	
3900.00	80000	High	NR Band n77	100	10.40	10.31	Antenna 1a	0.00	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	1	1	0 mm	right	1.1	0.000	1.021	0.000	0.000	0.000	
3900.00	80000	High	NR Band n77	100	10.40	10.31	Antenna 1a	0.00	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	136	0	0 mm	right	1.1	0.000	1.021	0.000	0.000	0.000	
3750.00	80000	Low	NR Band n77	100	10.40	10.28	Antenna 1a	0.03	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	1	1	0 mm	left	1.1	0.604	1.028	0.713	0.182	0.187	
3900.00	80000	High	NR Band n77	100	10.40	10.31	Antenna 1a	0.03	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	1	1	0 mm	left	1.1	0.602	1.021	0.606	0.180	0.186	
3750.00	80000	Low	NR Band n77	100	10.40	10.30	Antenna 1a	-0.12	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	136	0	0 mm	left	1.1	0.607	1.023	0.676	0.180	0.189	
3900.00	80000	High	NR Band n77	100	10.40	10.31	Antenna 1a	-0.00	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	136	0	0 mm	left	1.1	0.587	1.021	0.593	0.180	0.186	
3750.00	80000	Low	NR Band n77	100	10.40	10.30	Antenna 1a	-0.03	0	PC2	FPF4R9DC	DFT-S-OFDM	QPSK	270	0	0 mm	left	1.1	0.743	1.023	0.760	0.194	0.198	A25
3900.00	80000	High	NR Band n77	100	10.40	10.30	Antenna 1a	0.03	0	PC2	FPF4R9DC	CP-OFDM	QPSK	1	1	0 mm	left	1.1	0.689	1.023	0.705	0.184	0.188	

ANSI / IEEE C62.119-1 SAFETY LIMIT
Spatial Peak
Uncontrolled Exposure/General Population

Body
1.6 W/kg (mW/g)
averaged over 1 gram

FCC ID: BCGA2568	 PCTEST Proud to be part of @emerson	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 166 of 201

**Table 10-78
NR n77 C PC2 Antenna 2 Body SAR**

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Div (dB)	MFR (dB)	Power Class	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MFR (dB)	Duty Cycle	SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Pass #		
Mhz	Ch																	Scaling Factor	10g (W/kg)	100g (W/kg)			
3750.00	850000	Low	NR Band n77	100	11.40	9.95	Antenna 2	0.19	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	1	1	0 mm	back	1.1	0.461	1.396	0.630	0.136	0.100
3930.00	862000	High	NR Band n77	100	11.40	9.64	Antenna 2	0.13	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	1	137	0 mm	back	1.1	0.443	1.500	0.665	0.152	0.228
3750.00	850000	Low	NR Band n77	100	11.40	10.00	Antenna 2	0.021	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	136	0	0 mm	back	1.1	0.456	1.380	0.559	0.123	0.170
3930.00	862000	High	NR Band n77	100	11.40	9.64	Antenna 2	0.14	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	136	138	0 mm	back	1.1	0.425	1.500	0.638	0.148	0.222
3750.00	850000	Low	NR Band n77	100	11.40	9.90	Antenna 2	0.11	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	270	0	0 mm	back	1.1	0.374	1.413	0.539	0.114	0.161
3750.00	850000	Low	NR Band n77	100	11.40	9.90	Antenna 2	-0.09	0	PC2	YDHRFG44X	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.920	1.384	0.699	0.147	0.203
3750.00	850000	Low	NR Band n77	100	11.40	9.90	Antenna 2	0.18	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	1	1	0 mm	top	1.1	0.502	1.396	0.603	0.000	0.000
3750.00	850000	Low	NR Band n77	100	11.40	10.00	Antenna 2	0.11	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	136	0	0 mm	top	1.1	0.501	1.380	0.601	0.000	0.000
3750.00	850000	Low	NR Band n77	100	11.40	9.95	Antenna 2	0.08	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1.1	0.188	1.396	0.290	0.063	0.074
3750.00	850000	Low	NR Band n77	100	11.40	10.00	Antenna 2	0.14	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	136	0	0 mm	bottom	1.1	0.170	1.380	0.235	0.048	0.066
3750.00	850000	Low	NR Band n77	100	11.40	9.95	Antenna 2	-0.01	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	1	1	0 mm	right	1.1	0.183	1.396	0.255	0.047	0.066
3750.00	850000	Low	NR Band n77	100	11.40	10.00	Antenna 2	0.00	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	136	0	0 mm	right	1.1	0.187	1.380	0.258	0.047	0.065
3750.00	850000	Low	NR Band n77	100	11.40	9.95	Antenna 2	0.00	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	1	1	0 mm	left	1.1	0.000	1.396	0.000	0.000	0.000
3750.00	850000	Low	NR Band n77	100	11.40	10.00	Antenna 2	0.00	0	PC2	YDHRFG44X	DFT-S-OFDM	QPSK	136	0	0 mm	left	1.1	0.000	1.380	0.000	0.000	0.000
ANSI / IEEE C63.1 1997 - SAFETY LIMIT										Body													
Spatial Peak										1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population										averaged over 1 gram													

**Table 10-79
NR n77 C PC2 Antenna 3a Body SAR**

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Div (dB)	MFR (dB)	Power Class	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MFR (dB)	Duty Cycle	SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Pass #		
Mhz	Ch																	Scaling Factor	10g (W/kg)	100g (W/kg)			
3750.00	850000	Low	NR Band n77	100	11.00	10.80	Antenna 3a	-0.04	0	PC2	35279115968556	DFT-S-OFDM	QPSK	1	1	0 mm	back	1.1	0.517	1.042	0.539	0.154	0.160
3930.00	862000	High	NR Band n77	100	11.00	10.70	Antenna 3a	-0.18	0	PC2	35279115968556	DFT-S-OFDM	QPSK	1	1	0 mm	back	1.1	0.498	1.067	0.435	0.118	0.124
3750.00	850000	Low	NR Band n77	100	11.00	10.80	Antenna 3a	-0.16	0	PC2	35279115968556	DFT-S-OFDM	QPSK	136	0	0 mm	back	1.1	0.513	1.026	0.525	0.151	0.155
3930.00	862000	High	NR Band n77	100	11.00	10.70	Antenna 3a	-0.14	0	PC2	35279115968556	DFT-S-OFDM	QPSK	136	138	0 mm	back	1.1	0.369	1.054	0.389	0.103	0.109
3750.00	850000	Low	NR Band n77	100	11.00	10.81	Antenna 3a	-0.04	0	PC2	35279115968556	DFT-S-OFDM	QPSK	270	0	0 mm	back	1.1	0.507	1.045	0.524	0.147	0.154
3750.00	850000	Low	NR Band n77	100	11.00	10.80	Antenna 3a	0.05	0	PC2	35279115968556	DFT-S-OFDM	QPSK	1	1	0 mm	top	1.1	0.215	1.042	0.224	0.058	0.060
3750.00	850000	Low	NR Band n77	100	11.00	10.80	Antenna 3a	-0.10	0	PC2	35279115968556	DFT-S-OFDM	QPSK	136	0	0 mm	top	1.1	0.200	1.036	0.205	0.052	0.053
3750.00	850000	Low	NR Band n77	100	11.00	10.80	Antenna 3a	-0.15	0	PC2	35279115968556	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1.1	0.002	1.042	0.002	0.000	0.000
3750.00	850000	Low	NR Band n77	100	11.00	10.80	Antenna 3a	-0.12	0	PC2	35279115968556	DFT-S-OFDM	QPSK	136	0	0 mm	bottom	1.1	0.001	1.026	0.001	0.000	0.000
3750.00	850000	Low	NR Band n77	100	11.00	10.80	Antenna 3a	-0.07	0	PC2	35279115968556	DFT-S-OFDM	QPSK	1	1	0 mm	right	1.1	0.715	1.042	0.745	0.203	0.212
3930.00	862000	High	NR Band n77	100	11.00	10.70	Antenna 3a	-0.12	0	PC2	35279115968556	DFT-S-OFDM	QPSK	1	1	0 mm	right	1.1	0.689	1.067	0.714	0.185	0.197
3750.00	850000	Low	NR Band n77	100	11.00	10.80	Antenna 3a	-0.11	0	PC2	35279115968556	DFT-S-OFDM	QPSK	136	0	0 mm	right	1.1	0.690	1.026	0.708	0.196	0.201
3930.00	862000	High	NR Band n77	100	11.00	10.70	Antenna 3a	-0.19	0	PC2	35279115968556	DFT-S-OFDM	QPSK	136	138	0 mm	right	1.1	0.641	1.054	0.676	0.174	0.183
3750.00	850000	Low	NR Band n77	100	11.00	10.81	Antenna 3a	-0.13	0	PC2	35279115968556	DFT-S-OFDM	QPSK	270	0	0 mm	right	1.1	0.676	1.045	0.706	0.190	0.199
3750.00	850000	Low	NR Band n77	100	11.00	10.70	Antenna 3a	-0.12	0	PC2	35279115968556	CP-OFDM	QPSK	1	1	0 mm	right	1.1	0.688	1.059	0.728	0.196	0.208
3750.00	850000	Low	NR Band n77	100	11.00	10.80	Antenna 3a	-0.13	0	PC2	35279115968556	DFT-S-OFDM	QPSK	1	1	0 mm	left	1.1	0.011	1.042	0.011	0.000	0.000
3750.00	850000	Low	NR Band n77	100	11.00	10.80	Antenna 3a	-0.11	0	PC2	35279115968556	DFT-S-OFDM	QPSK	136	0	0 mm	left	1.1	0.000	1.026	0.000	0.000	0.000
ANSI / IEEE C63.1 1997 - SAFETY LIMIT										Body													
Spatial Peak										1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population										averaged over 1 gram													

**Table 10-80
NR n77 C PC2 Antenna 4 Body SAR**

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Antenna Config	Power Div (dB)	MFR (dB)	Power Class	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MFR (dB)	Duty Cycle	SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Pass #		
Mhz	Ch																	Scaling Factor	10g (W/kg)	100g (W/kg)			
3750.00	850000	Low	NR Band n77	100	11.50	11.03	Antenna 4	0.00	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	1	271	0 mm	back	1.1	0.467	1.114	0.520	0.148	0.163
3930.00	862000	High	NR Band n77	100	11.50	10.84	Antenna 4	-0.07	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	1	271	0 mm	back	1.1	0.428	1.064	0.511	0.143	0.146
3750.00	850000	Low	NR Band n77	100	11.50	11.04	Antenna 4	0.00	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	136	138	0 mm	back	1.1	0.520	1.112	0.580	0.160	0.179
3930.00	862000	High	NR Band n77	100	11.50	10.85	Antenna 4	0.00	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	136	138	0 mm	back	1.1	0.447	1.061	0.519	0.143	0.166
3750.00	850000	Low	NR Band n77	100	11.50	10.82	Antenna 4	-0.01	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	270	0	0 mm	back	1.1	0.569	1.069	0.685	0.174	0.203
3750.00	850000	Low	NR Band n77	100	11.50	10.47	Antenna 4	-0.04	0	PC2	DHWGVVCF2	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.712	1.268	0.903	0.210	0.266
3750.00	850000	Low	NR Band n77	100	11.50	11.03	Antenna 4	-0.03	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	1	271	0 mm	top	1.1	0.137	1.114	0.153	0.034	0.038
3750.00	850000	Low	NR Band n77	100	11.50	11.04	Antenna 4	-0.03	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	136	138	0 mm	top	1.1	0.137	1.112	0.152	0.034	0.038
3750.00	850000	Low	NR Band n77	100	11.50	11.03	Antenna 4	0.00	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1.1	0.000	1.114	0.000	0.000	0.000
3750.00	850000	Low	NR Band n77	100	11.50	11.04	Antenna 4	0.00	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	136	138	0 mm	bottom	1.1	0.000	1.112	0.000	0.000	0.000
3750.00	850000	Low	NR Band n77	100	11.50	11.03	Antenna 4	0.00	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	1	271	0 mm	right	1.1	0.000	1.114	0.000	0.000	0.000
3750.00	850000	Low	NR Band n77	100	11.50	11.04	Antenna 4	0.00	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	136	138	0 mm	right	1.1	0.000	1.112	0.000	0.000	0.000
3750.00	850000	Low	NR Band n77	100	11.50	11.03	Antenna 4	-0.06	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	1	271	0 mm	left	1.1	0.379	1.114	0.422	0.098	0.109
3930.00	862000	High	NR Band n77	100	11.50	10.84	Antenna 4	-0.01	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	1	271	0 mm	left	1.1	0.570	1.064	0.683	0.147	0.171
3750.00	850000	Low	NR Band n77	100	11.50	11.04	Antenna 4	0.00	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	136	138	0 mm	left	1.1	0.389	1.112	0.399	0.094	0.105
3930.00	862000	High	NR Band n77	100	11.50	10.85	Antenna 4	-0.11	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	136	138	0 mm	left	1.1	0.564	1.061	0.650	0.141	0.164
3750.00	850000	Low	NR Band n77	100	11.50	10.82	Antenna 4	-0.04	0	PC2	DHWGVVCF2	DFT-S-OFDM	QPSK	270	0	0 mm	left	1.1	0.368	1.069	0.413	0.091	0.108
ANSI / IEEE C63.1 1997 - SAFETY LIMIT										Body													
Spatial Peak										1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population										averaged over 1 gram													


FCC ID: BCGA2568		SAR EVALUATION REPORT	Approved by
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Table 10-81
2.4 GHz WLAN Antenna 1a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY MHz	Mode Ch.	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power DnB (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #	
2412	1	802.11b	DSSS	22	12.25	11.09	0.08	0 mm	Antenna 1a	V1	DM62X4GWEP	1	back	99.6	0.846	1.306	1.004	1.109	0.324	0.425	
2437	6	802.11b	DSSS	22	12.25	11.23	0.03	0 mm	Antenna 1a	V1	DM62X4GWEP	1	back	99.6	0.887	1.265	1.004	1.127	0.340	0.432	
2462	11	802.11b	DSSS	22	12.25	11.22	0.02	0 mm	Antenna 1a	V1	DM62X4GWEP	1	back	99.6	0.859	1.268	1.004	1.094	0.338	0.430	
2437	6	802.11b	DSSS	22	12.25	11.23	-0.15	0 mm	Antenna 1a	V1	DM62X4GWEP	1	top	99.6	0.010	1.265	1.004	0.013	0.003	0.004	
2437	6	802.11b	DSSS	22	12.25	11.23	0.03	0 mm	Antenna 1a	V1	DM62X4GWEP	1	bottom	99.6	0.368	1.265	1.004	0.467	0.105	0.133	
2437	6	802.11b	DSSS	22	12.25	11.23	0.11	0 mm	Antenna 1a	V1	DM62X4GWEP	1	right	99.6	0.002	1.265	1.004	0.003	0.000	0.000	
2412	1	802.11b	DSSS	22	12.25	11.09	0.02	0 mm	Antenna 1a	V1	DM62X4GWEP	1	left	99.6	0.879	1.306	1.004	1.153	0.299	0.382	
2437	6	802.11b	DSSS	22	12.25	11.23	0.06	0 mm	Antenna 1a	V1	DM62X4GWEP	1	left	99.6	0.900	1.265	1.004	1.143	0.310	0.394	
2437	6	802.11b	DSSS	22	12.25	11.02	-0.05	0 mm	Antenna 1a	V2	TK72MLH4WF	1	left	99.5	0.815	1.327	1.005	1.087	0.275	0.367	
2462	11	802.11b	DSSS	22	12.25	11.22	0.00	0 mm	Antenna 1a	V1	DM62X4GWEP	1	left	99.6	0.929	1.268	1.004	1.183	0.314	0.400	A26
2437	6	802.11b	DSSS	22	9.25	8.40	0.01	0 mm	Antenna 1a	V1	DM62X4GWEP	1	back	99.6	0.470	1.216	1.004	0.574	0.177	0.216	
2437	6	802.11b	DSSS	22	9.25	8.40	-0.08	0 mm	Antenna 1a	V1	DM62X4GWEP	1	bottom	99.6	0.188	1.216	1.004	0.230	0.063	0.065	
2437	6	802.11b	DSSS	22	9.25	8.40	-0.02	0 mm	Antenna 1a	V1	DM62X4GWEP	1	left	99.6	0.480	1.216	1.004	0.586	0.166	0.203	
2462	11	802.11b	DSSS	22	12.25	11.22	-0.06	0 mm	Antenna 1a	V1	DM62X4GWEP	1	left	99.6	0.822	1.268	1.004	1.046	0.288	0.364	
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 entry represents variability measurement.

Table 10-82
2.4 GHz WLAN Antenna 3a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY MHz	Mode Ch.	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power DnB (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #	
2462	11	802.11b	DSSS	22	11.50	10.50	-0.19	0 mm	Antenna 3a	V1	FRHJHQXCL	1	back	99.5	0.443	1.259	1.005	0.561	0.192	0.243	
2462	11	802.11b	DSSS	22	11.50	10.50	-0.16	0 mm	Antenna 3a	V1	FRHJHQXCL	1	top	99.5	0.281	1.259	1.005	0.356	0.085	0.108	
2462	11	802.11b	DSSS	22	11.50	10.50	0.07	0 mm	Antenna 3a	V1	FRHJHQXCL	1	bottom	99.5	0.011	1.259	1.005	0.014	0.003	0.004	
2412	1	802.11b	DSSS	22	11.50	10.38	0.00	0 mm	Antenna 3a	V1	FRHJHQXCL	1	right	99.5	0.858	1.294	1.005	1.116	0.303	0.394	
2437	6	802.11b	DSSS	22	11.50	10.37	-0.01	0 mm	Antenna 3a	V1	FRHJHQXCL	1	right	99.5	0.807	1.297	1.005	1.182	0.319	0.416	
2462	11	802.11b	DSSS	22	11.50	10.50	0.09	0 mm	Antenna 3a	V1	FRHJHQXCL	1	right	99.5	0.927	1.259	1.005	1.173	0.318	0.402	
2462	11	802.11b	DSSS	22	11.50	10.54	-0.06	0 mm	Antenna 3a	V2	J4H3Q05VGN	1	right	99.5	0.879	1.247	1.005	1.102	0.306	0.383	
2462	11	802.11b	DSSS	22	11.50	10.50	-0.13	0 mm	Antenna 3a	V1	FRHJHQXCL	1	left	99.5	0.001	1.259	1.005	0.001	0.000	0.000	
2462	11	802.11b	DSSS	22	8.50	7.58	0.03	0 mm	Antenna 3a	V1	FRHJHQXCL	1	back	99.5	0.222	1.236	1.005	0.276	0.096	0.119	
2462	11	802.11b	DSSS	22	8.50	7.58	0.03	0 mm	Antenna 3a	V1	FRHJHQXCL	1	top	99.5	0.196	1.236	1.005	0.194	0.046	0.057	
2462	11	802.11b	DSSS	22	8.50	7.58	0.02	0 mm	Antenna 3a	V1	FRHJHQXCL	1	right	99.5	0.494	1.236	1.005	0.614	0.168	0.209	
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: BCGA2568	 PCTEST <small>Proud to be part of @emulab</small>	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 168 of 201

Table 10-83
5 GHz WLAN Antenna 5T Body SAR

MEASUREMENT RESULTS																					
FREQUENCY MHz	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (mW/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (mW/kg)	SAR (10g) (mW/kg)	Reported SAR (10g) (mW/kg)	Pos #	
5230	46	802.11n	OFDM	40	15.50	14.33	-0.20	0 mm	Antenna 5T	V1	VX8YW2L9FM	13.5	back	97.8	0.000	1.309	1.022	0.124	0.001	0.041	
5230	46	802.11n	OFDM	40	15.50	14.33	0.15	0 mm	Antenna 5T	V1	VX8YW2L9FM	13.5	top	97.8	0.000	1.309	1.022	0.004	0.000	0.000	
5230	46	802.11n	OFDM	40	15.50	14.33	0.19	0 mm	Antenna 5T	V1	VX8YW2L9FM	13.5	bottom	97.8	0.000	1.309	1.022	0.000	0.000	0.000	
5190	38	802.11n	OFDM	40	15.25	13.45	-0.08	0 mm	Antenna 5T	V1	VX8YW2L9FM	13.5	right	97.8	0.598	1.514	1.022	0.925	0.151	0.234	
5230	46	802.11n	OFDM	40	15.50	14.33	-0.03	0 mm	Antenna 5T	V1	VX8YW2L9FM	13.5	right	97.8	0.840	1.309	1.022	1.124	0.217	0.290	
5230	46	802.11n	OFDM	40	15.50	14.50	0.00	0 mm	Antenna 5T	V2	J4H3Q05YGN	13.5	right	97.8	0.773	1.259	1.022	0.995	0.194	0.250	
5230	46	802.11n	OFDM	40	15.50	14.33	0.00	0 mm	Antenna 5T	V1	VX8YW2L9FM	13.5	left	97.8	0.036	1.309	1.022	0.052	0.005	0.007	
5210	42	802.11ac	OFDM	80	11.50	10.65	0.06	0 mm	Antenna 5T	V1	VX8YW2L9FM	29.3	right	95.3	0.254	1.216	1.049	0.324	0.061	0.078	
5610	122	802.11ac	OFDM	80	14.25	13.83	-0.06	0 mm	Antenna 5T	V1	DN4TT2006F	29.3	back	95.3	0.087	1.102	1.049	0.101	0.032	0.037	
5610	122	802.11ac	OFDM	80	14.25	13.83	0.12	0 mm	Antenna 5T	V1	DN4TT2006F	29.3	top	95.3	0.001	1.102	1.049	0.001	0.000	0.000	
5610	122	802.11ac	OFDM	80	14.25	13.83	-0.14	0 mm	Antenna 5T	V1	DN4TT2006F	29.3	bottom	95.3	0.006	1.102	1.049	0.007	0.002	0.002	
5530	106	802.11ac	OFDM	80	14.25	13.63	0.21	0 mm	Antenna 5T	V1	DN4TT2006F	29.3	right	95.3	0.810	1.153	1.049	0.980	0.197	0.238	
5610	122	802.11ac	OFDM	80	14.25	13.83	-0.07	0 mm	Antenna 5T	V1	DN4TT2006F	29.3	right	95.3	0.983	1.102	1.049	1.136	0.247	0.286	
5610	122	802.11ac	OFDM	80	14.25	13.90	-0.13	0 mm	Antenna 5T	V2	TK72MLH4WF	29.3	right	95.3	0.892	1.189	1.049	1.113	0.235	0.293	
5690	138	802.11ac	OFDM	80	14.25	13.65	-0.01	0 mm	Antenna 5T	V1	DN4TT2006F	29.3	right	95.3	0.940	1.148	1.049	1.132	0.240	0.289	
5610	122	802.11ac	OFDM	80	14.25	13.83	0.12	0 mm	Antenna 5T	V1	DN4TT2006F	29.3	left	95.3	0.025	1.102	1.049	0.029	0.010	0.012	
5530	106	802.11ac	OFDM	80	10.25	9.28	-0.07	0 mm	Antenna 5T	V1	DN4TT2006F	29.3	right	95.3	0.228	1.250	1.049	0.299	0.065	0.072	
5775	155	802.11ac	OFDM	80	14.75	14.52	-0.20	0 mm	Antenna 5T	V2	TK72MLH4WF	29.3	back	95.3	0.061	1.054	1.049	0.067	0.025	0.028	
5775	155	802.11ac	OFDM	80	14.75	14.52	-0.18	0 mm	Antenna 5T	V2	TK72MLH4WF	29.3	top	95.3	0.002	1.054	1.049	0.002	0.000	0.000	
5775	155	802.11ac	OFDM	80	14.75	14.52	-0.19	0 mm	Antenna 5T	V2	TK72MLH4WF	29.3	bottom	95.3	0.000	1.054	1.049	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	14.75	14.45	0.14	0 mm	Antenna 5T	V1	DN4TT2006F	29.3	right	95.3	1.010	1.072	1.049	1.136	0.267	0.289	
5775	155	802.11ac	OFDM	80	14.75	14.52	0.07	0 mm	Antenna 5T	V2	TK72MLH4WF	29.3	right	95.3	1.030	1.054	1.049	1.139	0.265	0.293	A27
5775	155	802.11ac	OFDM	80	14.75	14.52	0.13	0 mm	Antenna 5T	V2	TK72MLH4WF	29.3	left	95.3	0.022	1.054	1.049	0.024	0.007	0.008	
5775	155	802.11ac	OFDM	80	10.75	9.67	0.10	0 mm	Antenna 5T	V2	TK72MLH4WF	29.3	right	95.3	0.294	1.282	1.049	0.382	0.070	0.094	
5775	155	802.11ac	OFDM	80	14.75	14.52	0.07	0 mm	Antenna 5T	V2	TK72MLH4WF	29.3	right	95.3	1.010	1.054	1.049	1.117	0.261	0.289	

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 entry represents variability measurement.

Table 10-84
5 GHz WLAN Antenna 3b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY MHz	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (mW/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (mW/kg)	SAR (10g) (mW/kg)	Reported SAR (10g) (mW/kg)	Pos #	
5230	58	802.11ac	OFDM	80	11.00	10.30	-0.16	0 mm	Antenna 3b	V1	VYXWK96PC	29.3	back	95.3	0.596	1.175	1.049	0.735	0.197	0.243	
5230	58	802.11ac	OFDM	80	11.00	10.30	-0.05	0 mm	Antenna 3b	V1	VYXWK96PC	29.3	top	95.3	0.959	1.175	1.049	1.182	0.206	0.254	
5230	58	802.11ac	OFDM	80	11.00	10.28	-0.02	0 mm	Antenna 3b	V2	J4H3Q05YGN	29.3	top	95.3	0.939	1.180	1.049	1.162	0.206	0.255	
5230	58	802.11ac	OFDM	80	11.00	10.30	-0.12	0 mm	Antenna 3b	V1	VYXWK96PC	29.3	bottom	95.3	0.000	1.175	1.049	0.000	0.000	0.000	
5230	58	802.11ac	OFDM	80	11.00	10.30	0.20	0 mm	Antenna 3b	V1	VYXWK96PC	29.3	right	95.3	0.030	1.175	1.049	0.037	0.000	0.007	
5230	58	802.11ac	OFDM	80	11.00	10.30	0.12	0 mm	Antenna 3b	V1	VYXWK96PC	29.3	left	95.3	0.084	1.175	1.049	0.104	0.014	0.017	
5230	58	802.11ac	OFDM	80	7.00	6.21	0.02	0 mm	Antenna 3b	V1	VYXWK96PC	29.3	back	95.3	0.208	1.199	1.049	0.262	0.058	0.073	
5230	58	802.11ac	OFDM	80	7.00	6.21	0.17	0 mm	Antenna 3b	V1	VYXWK96PC	29.3	top	95.3	0.367	1.199	1.049	0.462	0.079	0.099	
5230	58	802.11ac	OFDM	80	7.00	6.21	0.14	0 mm	Antenna 3b	V1	VYXWK96PC	29.3	left	95.3	0.033	1.199	1.049	0.042	0.005	0.006	
5530	106	802.11ac	OFDM	80	11.00	10.41	-0.16	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	back	95.3	0.484	1.146	1.049	0.582	0.163	0.196	
5610	122	802.11ac	OFDM	80	11.00	10.48	-0.17	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	back	95.3	0.687	1.127	1.049	0.812	0.235	0.278	
5690	138	802.11ac	OFDM	80	11.00	10.47	-0.17	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	back	95.3	0.557	1.130	1.049	0.690	0.196	0.232	
5530	106	802.11ac	OFDM	80	11.00	10.41	0.04	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	top	95.3	0.944	1.146	1.049	1.135	0.220	0.264	
5610	122	802.11ac	OFDM	80	11.00	10.48	0.11	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	top	95.3	1.000	1.127	1.049	1.182	0.238	0.281	
5610	122	802.11ac	OFDM	80	11.00	10.47	0.20	0 mm	Antenna 3b	V2	J4H3Q05YGN	29.3	top	95.3	0.937	1.130	1.049	1.111	0.218	0.258	
5690	138	802.11ac	OFDM	80	11.00	10.47	0.05	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	top	95.3	0.926	1.130	1.049	1.098	0.221	0.262	
5610	122	802.11ac	OFDM	80	11.00	10.48	-0.19	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	bottom	95.3	0.000	1.127	1.049	0.000	0.000	0.000	
5610	122	802.11ac	OFDM	80	11.00	10.48	0.15	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	right	95.3	0.036	1.127	1.049	0.045	0.008	0.009	
5610	122	802.11ac	OFDM	80	11.00	10.48	0.07	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	left	95.3	0.106	1.127	1.049	0.125	0.017	0.020	
5690	138	802.11ac	OFDM	80	7.00	6.11	0.00	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	back	95.3	0.227	1.227	1.049	0.292	0.077	0.099	
5690	138	802.11ac	OFDM	80	7.00	6.11	-0.14	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	top	95.3	0.300	1.227	1.049	0.386	0.069	0.089	
5690	138	802.11ac	OFDM	80	7.00	6.11	0.01	0 mm	Antenna 3b	V1	PDYCY4D2DL	29.3	left	95.3	0.042	1.227	1.049	0.054	0.006	0.008	
5775	155	802.11ac	OFDM	80	11.25	10.41	0.07	0 mm	Antenna 3b	V1	VX8YW2L9FM	29.3	back	95.3	0.666	1.213	1.049	0.850	0.227	0.289	
5775	155	802.11ac	OFDM	80	11.25	10.41	-0.12	0 mm	Antenna 3b	V1	VX8YW2L9FM	29.3	top	95.3	0.928	1.213	1.049	1.181	0.214	0.272	
5775	155	802.11ac	OFDM	80	11.25	10.46	0.03	0 mm	Antenna 3b	V2	TK72MLH4WF	29.3	top	95.3	0.896	1.202	1.049	1.130	0.210	0.265	
5775	155	802.11ac	OFDM	80	11.25	10.41	-0.19	0 mm	Antenna 3b	V1	VX8YW2L9FM	29.3	bottom	95.3	0.000	1.213	1.049	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	11.25	10.41	0.18	0 mm	Antenna 3b	V1	VX8YW2L9FM	29.3	right	95.3	0.061	1.213	1.049	0.078	0.012	0.015	
5775	155	802.11ac	OFDM	80	11.25	10.41	0.13	0 mm	Antenna 3b	V1	VX8YW2L9FM	29.3	left	95.3	0.119	1.213	1.049	0.151	0.020	0.025	
5775	155	802.11ac	OFDM	80	7.25	6.60	-0.19	0 mm	Antenna 3b	V1	VX8YW2L9FM	29.3	back	95.3	0.242	1.161	1.049	0.295	0.084	0.102	
5775	155	802.11ac	OFDM	80	7.25	6.60	0.05	0 mm	Antenna 3b	V1	VX8YW2L9FM	29.3	top	95.3	0.403	1.161	1.049	0.491	0.094	0.114	
5775	155	802.11ac	OFDM	80	7.25	6.60	0.11	0 mm	Antenna 3b	V1	VX8YW2L9FM	29.3	left	95.3	0.039	1.161	1.049	0.047	0.005	0.006	
5230	58	802.11ac	OFDM	80	11.00	10.30	-0.05	0 mm	Antenna 3b	V1	VYXWK96PC	29.3	top	95.3	0.944	1.175	1.049	1.164	0.206	0.254	
5610	122	802.11ac	OFDM	80	11.00	10.48	0.11	0 mm	Antenna 3b	V1	PDYCY4D2DL										

**Table 10-85
5 GHz WLAN Antenna 1b Body SAR**

MEASUREMENT RESULTS																					
FREQUENCY MHz	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (dB)	Spacing	Antenna Config	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Port #	
5290	58	802.11ac	OFDM	80	9.75	8.86	0.01	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	back	95.3	0.917	1.227	1.049	1.180	0.254	0.340	
5290	58	802.11ac	OFDM	80	9.75	8.85	-0.04	0 mm	Antenna 1b	V2	QJ47DHQ7PD	29.3	back	95.3	0.909	1.230	1.049	1.173	0.251	0.324	
5290	58	802.11ac	OFDM	80	9.75	8.86	0.01	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	top	95.3	0.000	1.227	1.049	0.000	0.000	0.000	
5290	58	802.11ac	OFDM	80	9.75	8.86	0.13	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	bottom	95.3	0.589	1.227	1.049	0.758	0.138	0.178	
5290	58	802.11ac	OFDM	80	9.75	8.86	-0.13	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	right	95.3	0.016	1.227	1.049	0.021	0.002	0.003	
5290	58	802.11ac	OFDM	80	9.75	8.86	0.11	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	left	95.3	0.013	1.227	1.049	0.017	0.002	0.003	
5290	58	802.11ac	OFDM	80	9.75	4.72	0.03	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	back	95.3	0.296	1.266	1.049	0.354	0.076	0.104	
5290	58	802.11ac	OFDM	80	9.75	4.72	0.12	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	bottom	95.3	0.200	1.266	1.049	0.266	0.045	0.060	
5530	106	802.11ac	OFDM	80	9.75	8.96	-0.12	0 mm	Antenna 1b	V2	QJ47DHQ7PD	29.3	back	95.3	0.886	1.199	1.049	1.114	0.254	0.319	
5610	122	802.11ac	OFDM	80	9.75	8.87	0.05	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	back	95.3	0.745	1.225	1.049	0.957	0.205	0.263	
5610	122	802.11ac	OFDM	80	9.75	8.84	0.20	0 mm	Antenna 1b	V2	QJ47DHQ7PD	29.3	back	95.3	0.896	1.233	1.049	1.045	0.218	0.282	
5690	138	802.11ac	OFDM	80	9.75	8.76	-0.13	0 mm	Antenna 1b	V2	QJ47DHQ7PD	29.3	back	95.3	0.854	1.256	1.049	1.125	0.224	0.295	
5530	106	802.11ac	OFDM	80	9.75	8.96	0.01	0 mm	Antenna 1b	V2	QJ47DHQ7PD	29.3	top	95.3	0.000	1.199	1.049	0.000	0.000	0.000	
5530	106	802.11ac	OFDM	80	9.75	8.96	-0.08	0 mm	Antenna 1b	V2	QJ47DHQ7PD	29.3	bottom	95.3	0.617	1.199	1.049	0.776	0.138	0.174	
5530	106	802.11ac	OFDM	80	9.75	8.96	-0.05	0 mm	Antenna 1b	V2	QJ47DHQ7PD	29.3	right	95.3	0.021	1.199	1.049	0.026	0.003	0.004	
5530	106	802.11ac	OFDM	80	9.75	8.96	-0.04	0 mm	Antenna 1b	V2	QJ47DHQ7PD	29.3	left	95.3	0.034	1.199	1.049	0.043	0.007	0.009	
5690	138	802.11ac	OFDM	80	9.75	4.82	-0.07	0 mm	Antenna 1b	V2	QJ47DHQ7PD	29.3	back	95.3	0.220	1.239	1.049	0.286	0.050	0.065	
5690	138	802.11ac	OFDM	80	9.75	4.82	0.14	0 mm	Antenna 1b	V2	QJ47DHQ7PD	29.3	bottom	95.3	0.190	1.239	1.049	0.247	0.040	0.052	
5775	155	802.11ac	OFDM	80	10.75	9.76	0.13	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	back	95.3	0.828	1.256	1.049	1.091	0.227	0.299	
5775	155	802.11ac	OFDM	80	10.75	9.72	0.01	0 mm	Antenna 1b	V2	J4H3Q6YGN	29.3	back	95.3	0.798	1.268	1.049	1.061	0.208	0.277	
5775	155	802.11ac	OFDM	80	10.75	9.76	0.01	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	top	95.3	0.000	1.256	1.049	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	10.75	9.76	-0.16	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	bottom	95.3	0.660	1.256	1.049	0.870	0.145	0.191	
5775	155	802.11ac	OFDM	80	10.75	9.76	0.19	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	right	95.3	0.019	1.256	1.049	0.025	0.003	0.004	
5775	155	802.11ac	OFDM	80	10.75	9.76	0.13	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	left	95.3	0.038	1.256	1.049	0.050	0.007	0.009	
5775	155	802.11ac	OFDM	80	6.75	5.74	0.18	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	back	95.3	0.332	1.262	1.049	0.307	0.060	0.079	
5775	155	802.11ac	OFDM	80	6.75	5.74	-0.06	0 mm	Antenna 1b	V1	DM62X4GWP	29.3	bottom	95.3	0.217	1.262	1.049	0.287	0.046	0.061	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

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**Table 10-86
Bluetooth Antenna 1a Body SAR**


MEASUREMENT RESULTS																				
FREQUENCY MHz	CL	Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (1g) (W/kg)	Reported SAR (1g) (W/kg)	Port #
2402	0	Bluetooth	FHSS	13.00	11.56	0.04	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	back	76.8	0.721	1.393	1.009	1.013	0.280	0.394	
2441	39	Bluetooth	FHSS	13.00	11.77	0.01	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	back	76.8	0.634	1.327	1.009	0.849	0.243	0.325	
2480	78	Bluetooth	FHSS	13.00	11.58	0.01	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	back	76.8	0.566	1.387	1.009	0.792	0.217	0.304	
2441	39	Bluetooth	FHSS	13.00	11.77	-0.06	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	top	76.8	0.010	1.327	1.009	0.013	0.004	0.005	
2441	39	Bluetooth	FHSS	13.00	11.77	0.03	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	bottom	76.8	0.259	1.327	1.009	0.347	0.074	0.099	
2441	39	Bluetooth	FHSS	13.00	11.77	0.12	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	right	76.8	0.000	1.327	1.009	0.000	0.000	0.000	
2402	0	Bluetooth	FHSS	13.00	11.56	-0.01	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	left	76.8	0.835	1.393	1.009	1.174	0.289	0.406	
2402	0	Bluetooth	FHSS	13.00	11.40	0.04	0 mm	Antenna 1a	V1	DM62X4GWEP	1	left	76.7	0.775	1.445	1.010	1.131	0.269	0.393	
2441	39	Bluetooth	FHSS	13.00	11.77	-0.02	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	left	76.8	0.799	1.327	1.009	1.070	0.278	0.372	
2480	78	Bluetooth	FHSS	13.00	11.58	0.02	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	left	76.8	0.687	1.387	1.009	0.961	0.231	0.323	
2441	39	Bluetooth	FHSS	10.00	9.15	0.05	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	back	76.8	0.404	1.216	1.009	0.496	0.153	0.188	
2441	39	Bluetooth	FHSS	10.00	9.15	0.01	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	bottom	76.8	0.130	1.216	1.009	0.160	0.036	0.044	
2441	39	Bluetooth	FHSS	10.00	9.15	0.11	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	left	76.8	0.422	1.216	1.009	0.518	0.148	0.182	
2402	0	Bluetooth	FHSS	8.00	7.20	0.04	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	back	76.8	0.275	1.202	1.009	0.334	0.105	0.127	
2402	0	Bluetooth	FHSS	8.00	7.20	-0.05	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	bottom	76.8	0.102	1.202	1.009	0.124	0.028	0.034	
2402	0	Bluetooth	FHSS	8.00	7.20	-0.03	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	left	76.8	0.287	1.202	1.009	0.348	0.100	0.121	
2402	0	Bluetooth	FHSS	6.00	5.50	-0.03	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	back	76.8	0.117	1.122	1.009	0.132	0.044	0.050	
2402	0	Bluetooth	FHSS	6.00	5.50	0.19	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	bottom	76.8	0.072	1.122	1.009	0.062	0.019	0.022	
2402	0	Bluetooth	FHSS	6.00	5.50	-0.02	0 mm	Antenna 1a	V2	J4H3Q05YGN	1	left	76.8	0.201	1.122	1.009	0.228	0.070	0.079	
ANSI / IEEE C65.1 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.

**Table 10-87
Bluetooth Antenna 3a Body SAR**

MEASUREMENT RESULTS																				
FREQUENCY MHz	CL	Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (1g) (W/kg)	Reported SAR (1g) (W/kg)	Port #
2402	0	Bluetooth	FHSS	13.00	12.30	0.02	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	back	76.7	0.314	1.175	1.010	0.373	0.139	0.165	
2402	0	Bluetooth	FHSS	13.00	12.30	0.02	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	top	76.7	0.216	1.175	1.010	0.256	0.063	0.075	
2402	0	Bluetooth	FHSS	13.00	12.30	-0.14	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	bottom	76.7	0.011	1.175	1.010	0.013	0.005	0.006	
2402	0	Bluetooth	FHSS	13.00	12.30	0.07	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	right	76.7	0.805	1.175	1.010	0.955	0.279	0.331	
2441	39	Bluetooth	FHSS	13.00	12.13	0.02	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	right	76.7	0.829	1.222	1.010	1.023	0.286	0.353	
2480	78	Bluetooth	FHSS	13.00	12.21	0.05	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	right	76.7	0.899	1.199	1.010	1.089	0.311	0.377	A28
2480	78	Bluetooth	FHSS	13.00	12.01	-0.04	0 mm	Antenna 3a	V1	DM62X4GWEP	1	right	76.7	0.843	1.256	1.010	1.069	0.290	0.368	
2402	0	Bluetooth	FHSS	13.00	12.30	-0.13	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	left	76.7	0.000	1.175	1.010	0.000	0.000	0.000	
2402	0	Bluetooth	FHSS	10.00	9.18	0.08	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	back	76.7	0.201	1.208	1.010	0.245	0.088	0.107	
2402	0	Bluetooth	FHSS	10.00	9.18	-0.12	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	top	76.7	0.147	1.208	1.010	0.179	0.043	0.052	
2402	0	Bluetooth	FHSS	10.00	9.18	-0.03	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	right	76.7	0.497	1.208	1.010	0.606	0.174	0.212	
2441	39	Bluetooth	FHSS	7.50	7.20	0.09	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	back	76.7	0.109	1.072	1.010	0.118	0.046	0.050	
2441	39	Bluetooth	FHSS	7.50	7.20	-0.15	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	top	76.7	0.090	1.072	1.010	0.097	0.026	0.028	
2441	39	Bluetooth	FHSS	7.50	7.20	-0.04	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	right	76.7	0.307	1.072	1.010	0.332	0.107	0.116	
2480	78	Bluetooth	FHSS	7.00	6.27	-0.15	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	back	76.7	0.081	1.183	1.010	0.097	0.034	0.041	
2480	78	Bluetooth	FHSS	7.00	6.27	-0.03	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	top	76.7	0.073	1.183	1.010	0.087	0.020	0.024	
2480	78	Bluetooth	FHSS	7.00	6.27	-0.12	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	right	76.7	0.220	1.183	1.010	0.263	0.070	0.084	
2441	39	Bluetooth	FHSS	6.00	5.37	0.05	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	back	76.7	0.064	1.156	1.010	0.075	0.026	0.030	
2441	39	Bluetooth	FHSS	6.00	5.37	0.01	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	top	76.7	0.050	1.156	1.010	0.058	0.014	0.016	
2441	39	Bluetooth	FHSS	6.00	5.37	0.08	0 mm	Antenna 3a	V2	J4H3Q05YGN	1	right	76.7	0.189	1.156	1.010	0.221	0.065	0.076	
ANSI / IEEE C65.1 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.

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Document S/N: 1C2106080049-28.BCG (Rev 1)	Test Dates: 06/23/2021-08/23/2021	DUT Type: Tablet Device	Page 171 of 201

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.
8. This device uses Smart Transmit for 3G/4G/5G operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
9. The orange highlights throughout the report represents the highest scaled SAR per Equipment Class.

UMTS Notes:

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

LTE Notes:


1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 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 LTE Band 41 and LTE Band 48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.

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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 5, LTE Band 66, LTE Band 7, LTE Band 41, and LTE Band 48, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
9. This device supports LTE Band 41 ULCA active with Power Class 2. Highest SAR test configuration for each exposure condition in Power Class 3 with ULCA active was repeated with Power Class 2 with ULCA active.
10. This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

NR Notes:

1. NR implementation supports SA and NSA modes. NR implementation in EN-DC mode operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Per FCC KDB Publication 447498 D01v06, when the reported SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for NR n77 C 1g evaluations, > 0.6 W/kg for NR n41 1g evaluations, and > 0.8 W/kg for NR n77 DoD, testing at the other channels was required for such test configurations.
3. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
4. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
5. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
6. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
7. This device supports Power Class 2 and Power Class 3 operations for NR Band n41, NR Band n77 DoD, and NR Band n77 C. The highest available duty cycle for Power Class 2 operations is 100.0 %. Per FCC Guidance, all SAR tests were performed using Power Class 2.


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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/ax) 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. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power

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 8.10 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:

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.

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.

*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.


Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G (including scenarios with inter-band ULCA active) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR and during inter-band ULCA active conditions to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations (including scenarios with inter-band ULCA active) is demonstrated in the Part 2 Report during algorithm validation.

All 3G/4G/5G transmitting antennas are within one Smart Transmit Gen2 antenna group, therefore no additional simultaneous analysis is required.

11.3 Body SAR Simultaneous Transmission Analysis

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

Simult Tx	Configuration	Cellular Band Antenna 1a SAR (W/kg)	2.4 GHz WLAN Antenna 1a Reduced at 9.25dBm SAR (W/kg)	2.4 GHz WLAN Antenna 3a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.772	0.574	0.561	1.346	1.333	1.346*
	Top	0.019	0.013	0.356	0.032	0.375	0.388
	Bottom	0.290	0.230	0.014	0.520	0.304	0.534
	Right	0.012	0.003	1.182	0.015	1.194	1.197
	Left	0.895	0.586	0.001	1.481	0.896	1.482

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**Table 11-2
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz WLAN**

Simult Tx	Configuration	Cellular Band Antenna 1b SAR (W/kg)	2.4 GHz WLAN Antenna 1a Reduced at 9.25dBm SAR (W/kg)	2.4 GHz WLAN Antenna 3a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.898	0.574	0.561	1.472	1.459	1.472*
	Top	0.053	0.013	0.356	0.066	0.409	0.422
	Bottom	0.893	0.230	0.014	1.123	0.907	1.137
	Right	0.043	0.003	1.182	0.046	1.225	1.228
	Left	0.047	0.586	0.001	0.633	0.048	0.634

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


Simult Tx	Configuration	Cellular Band Antenna 2 SAR (W/kg)	2.4 GHz WLAN Antenna 1a SAR (W/kg)	2.4 GHz WLAN Antenna 3a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.899	1.127	0.561	1.127*	1.460	1.460*
	Top	0.028	0.013	0.356	0.041	0.384	0.397
	Bottom	0.861	0.467	0.014	1.328	0.875	1.342
	Right	0.897	0.003	1.182	0.900	1.182*	1.185*
	Left	0.060	1.183	0.001	1.243	0.061	1.244

**Table 11-4
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz WLAN**

Simult Tx	Configuration	Cellular Band Antenna 3a SAR (W/kg)	2.4 GHz WLAN Antenna 1a SAR (W/kg)	2.4 GHz WLAN Antenna 3a Reduced at 8.5dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.539	1.127	0.276	1.127*	0.815	1.127*
	Top	0.265	0.013	0.194	0.278	0.459	0.472
	Bottom	0.017	0.467	0.014	0.484	0.031	0.498
	Right	0.897	0.003	0.614	0.900	1.511	1.514
	Left	0.014	1.183	0.001	1.197	0.015	1.198

**Table 11-5
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz WLAN**

Simult Tx	Configuration	Cellular Band Antenna 3b SAR (W/kg)	2.4 GHz WLAN Antenna 1a SAR (W/kg)	2.4 GHz WLAN Antenna 3a Reduced at 8.5dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.998	1.127	0.276	1.127*	1.274	1.274*
	Top	0.997	0.013	0.194	1.010	1.191	1.204
	Bottom	0.139	0.467	0.014	0.606	0.153	0.620
	Right	0.080	0.003	0.614	0.083	0.694	0.697
	Left	0.040	1.183	0.001	1.223	0.041	1.224

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

Simult Tx	Configuration	Cellular Band Antenna 4 SAR (W/kg)	2.4 GHz WLAN Antenna 1a SAR (W/kg)	2.4 GHz WLAN Antenna 3a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.999	1.127	0.561	1.127*	1.560	1.560*
	Top	0.997	0.013	0.356	1.010	1.353	1.366
	Bottom	0.040	0.467	0.014	0.507	0.054	0.521
	Right	0.091	0.003	1.182	0.094	1.273	1.276
	Left	0.995	1.183	0.001	1.183*	0.996	1.184*

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

Simult Tx	Configuration	Cellular Band Antenna 1a SAR (W/kg)	5 GHz WLAN Antenna 1b Reduced SAR (W/kg)	5 GHz WLAN Antenna 3b SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+3+4
Body SAR	Back	0.772	0.354	0.850	0.124	1.126*	1.250	0.974*
	Top	0.019	0.000	1.182	0.004	1.201	0.023	1.205
	Bottom	0.290	0.287	0.000	0.007	0.577	0.584	0.297
	Right	0.012	0.026	0.078	1.139	0.116	1.177	1.229
	Left	0.895	0.050	0.151	0.052	1.096	0.997	1.098

**Table 11-8
Cellular Band Ant 1b Simultaneous Transmission Scenario with 5 GHz WLAN**

Simult Tx	Configuration	Cellular Band Antenna 1b SAR (W/kg)	5 GHz WLAN Antenna 1b Reduced SAR (W/kg)	5 GHz WLAN Antenna 3b SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+3+4
Body SAR	Back	0.898	0.354	0.850	0.124	1.252*	1.376	0.974*
	Top	0.053	0.000	1.182	0.004	1.235	0.057	1.239
	Bottom	0.893	0.287	0.000	0.007	1.180	1.187	0.900
	Right	0.043	0.026	0.078	1.139	0.147	1.208	1.260
	Left	0.047	0.050	0.151	0.052	0.248	0.149	0.250

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

Simult Tx	Configuration	Cellular Band Antenna 2 SAR (W/kg)	5 GHz WLAN Antenna 1b Reduced SAR (W/kg)	5 GHz WLAN Antenna 3b SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+3+4
Body SAR	Back	0.899	0.354	0.850	0.124	1.253*	1.377	1.023*
	Top	0.028	0.000	1.182	0.004	1.210	0.032	1.214
	Bottom	0.861	0.287	0.000	0.007	1.148	1.155	0.868
	Right	0.897	0.026	0.078	1.139	1.001	1.165*	1.217*
	Left	0.060	0.050	0.151	0.052	0.261	0.162	0.263

**Table 11-10
Cellular Band Ant 3a Simultaneous Transmission Scenario with 5 GHz WLAN**

Simult Tx	Configuration	Cellular Band Antenna 3a SAR (W/kg)	5 GHz WLAN Antenna 1b SAR (W/kg)	5 GHz WLAN Antenna 3b Reduced SAR (W/kg)	5 GHz WLAN Antenna 5T Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+3+4
Body SAR	Back	0.539	1.180	0.295	0.124	1.180*	1.180*	0.958
	Top	0.265	0.000	0.491	0.004	0.756	0.269	0.760
	Bottom	0.017	0.870	0.000	0.007	0.887	0.894	0.024
	Right	0.897	0.026	0.078	0.382	1.001	1.305	1.357
	Left	0.014	0.050	0.054	0.052	0.118	0.116	0.120


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

Simult Tx	Configuration	Cellular Band Antenna 3b SAR (W/kg)	5 GHz WLAN Antenna 1b SAR (W/kg)	5 GHz WLAN Antenna 3b Reduced SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+3+4
Body SAR	Back	0.998	1.180	0.295	0.124	1.293*	1.180*	1.417
	Top	0.997	0.000	0.491	0.004	1.488	1.001	1.492
	Bottom	0.139	0.870	0.000	0.007	1.009	1.016	0.146
	Right	0.080	0.026	0.078	1.139	0.184	1.245	1.297
	Left	0.040	0.050	0.054	0.052	0.144	0.142	0.146

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

Simult Tx	Configuration	Cellular Band Antenna 4 SAR (W/kg)	5 GHz WLAN Antenna 1b SAR (W/kg)	5 GHz WLAN Antenna 3b Reduced SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+3+4
Body SAR	Back	0.999	1.180	0.295	0.124	1.294*	1.180*	1.418
	Top	0.997	0.000	0.491	0.004	1.488	1.001	1.492
	Bottom	0.040	0.870	0.000	0.007	0.910	0.917	0.047
	Right	0.091	0.026	0.078	1.139	0.195	1.256	1.308
	Left	0.995	0.050	0.054	0.052	1.099	1.097	1.101

Table 11-13
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth


Simult Tx	Configuration	Cellular Band Antenna 1a SAR (W/kg)	Bluetooth Antenna 1a at 10 dBm SAR (W/kg)	Bluetooth Antenna 3a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.772	0.496	0.373	1.268	1.145	1.268*
	Top	0.019	0.013	0.256	0.032	0.275	0.288
	Bottom	0.290	0.160	0.013	0.450	0.303	0.463
	Right	0.012	0.000	1.089	0.012	1.101	1.101
	Left	0.895	0.518	0.000	1.413	0.895	1.413

Table 11-14
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth

Simult Tx	Configuration	Cellular Band Antenna 1b SAR (W/kg)	Bluetooth Antenna 1a at 10 dBm SAR (W/kg)	Bluetooth Antenna 3a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.898	0.496	0.373	1.394	1.271	1.394*
	Top	0.053	0.013	0.256	0.066	0.309	0.322
	Bottom	0.893	0.160	0.013	1.053	0.906	1.066
	Right	0.043	0.000	1.089	0.043	1.132	1.132
	Left	0.047	0.518	0.000	0.565	0.047	0.565

Table 11-15
Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth

Simult Tx	Configuration	Cellular Band Antenna 2 SAR (W/kg)	Bluetooth Antenna 1a SAR (W/kg)	Bluetooth Antenna 3a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.899	1.013	0.373	1.013*	1.272	1.272*
	Top	0.028	0.013	0.256	0.041	0.284	0.297
	Bottom	0.861	0.347	0.013	1.208	0.874	1.221
	Right	0.897	0.000	1.089	0.897	1.089*	1.089*
	Left	0.060	1.174	0.000	1.234	0.060	1.234

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**Table 11-16
Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth**

Simult Tx	Configuration	Cellular Band Antenna 3a SAR (W/kg)	Bluetooth Antenna 1a SAR (W/kg)	Bluetooth Antenna 3a at 10 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.539	1.013	0.245	1.552	0.784	1.013*
	Top	0.265	0.013	0.179	0.278	0.444	0.457
	Bottom	0.017	0.347	0.013	0.364	0.030	0.377
	Right	0.897	0.000	0.606	0.897	1.503	1.503
	Left	0.014	1.174	0.000	1.188	0.014	1.188

**Table 11-17
Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth**

Simult Tx	Configuration	Cellular Band Antenna 3b SAR (W/kg)	Bluetooth Antenna 1a SAR (W/kg)	Bluetooth Antenna 3a at 10 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.998	1.013	0.245	1.013*	1.243	1.243*
	Top	0.997	0.013	0.179	1.010	1.176	1.189
	Bottom	0.139	0.347	0.013	0.486	0.152	0.499
	Right	0.080	0.000	0.606	0.080	0.686	0.686
	Left	0.040	1.174	0.000	1.214	0.040	1.214

**Table 11-18
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth**

Simult Tx	Configuration	Cellular Band Antenna 4 SAR (W/kg)	Bluetooth Antenna 1a SAR (W/kg)	Bluetooth Antenna 3a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.999	1.013	0.373	1.013*	1.372	1.372*
	Top	0.997	0.013	0.256	1.010	1.253	1.266
	Bottom	0.040	0.347	0.013	0.387	0.053	0.400
	Right	0.091	0.000	1.089	0.091	1.180	1.180
	Left	0.995	1.174	0.000	1.174*	0.995	1.174*

**Table 11-19
Cellular Band Ant 1a Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO**

Simult Tx	Configuration	Cellular Band Antenna 1a SAR (W/kg)	Bluetooth Antenna 1a at 6 dBm SAR (W/kg)	Bluetooth Antenna 3a at 7 dBm SAR (W/kg)	5 GHz WLAN Antenna 1b Reduced SAR (W/kg)	5 GHz WLAN Antenna 3b SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6	1+2+3+5+6
Body SAR	Back	0.772	0.132	0.097	0.354	0.850	0.124	1.258*	1.479	1.071*
	Top	0.019	0.013	0.087	0.000	1.182	0.004	1.301	0.123	1.305
	Bottom	0.290	0.082	0.013	0.287	0.000	0.007	0.672	0.679	0.392
	Right	0.012	0.000	0.263	0.026	0.078	1.139	0.379	1.440	1.492
	Left	0.895	0.228	0.000	0.050	0.151	0.052	1.324	1.225	1.326

**Table 11-20
Cellular Band Ant 1b Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO**

Simult Tx	Configuration	Cellular Band Antenna 1b SAR (W/kg)	Bluetooth Antenna 1a at 6 dBm SAR (W/kg)	Bluetooth Antenna 3a at 7 dBm SAR (W/kg)	5 GHz WLAN Antenna 1b Reduced SAR (W/kg)	5 GHz WLAN Antenna 3b SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6	1+2+3+5+6
Body SAR	Back	0.898	0.132	0.097	0.354	0.850	0.124	1.384*	1.384*	1.071*
	Top	0.053	0.013	0.087	0.000	1.182	0.004	1.335	0.157	1.339
	Bottom	0.893	0.082	0.013	0.287	0.000	0.007	1.275	1.282	0.995
	Right	0.043	0.000	0.263	0.026	0.078	1.139	0.410	1.471	1.523
	Left	0.047	0.228	0.000	0.050	0.151	0.052	0.476	0.377	0.478


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Table 11-21

Cellular Band Ant 2 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 2 SAR (W/kg)	Bluetooth Antenna 1a at 6 dBm SAR (W/kg)	Bluetooth Antenna 3a at 7 dBm SAR (W/kg)	5 GHz WLAN Antenna 1b Reduced SAR (W/kg)	5 GHz WLAN Antenna 3b SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6	1+2+3+5+6
Body SAR	Back	0.899	0.132	0.097	0.354	0.850	0.124	1.253*	1.253*	1.120*
	Top	0.028	0.013	0.087	0.000	1.182	0.004	1.310	1.032	1.314
	Bottom	0.861	0.082	0.013	0.287	0.000	0.007	1.243	1.250	0.963
	Right	0.897	0.000	0.263	0.026	0.078	1.139	1.264	1.428*	1.480*
	Left	0.060	0.228	0.000	0.050	0.151	0.052	0.489	0.390	0.491

Table 11-22

Cellular Band Ant 3a Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 3a SAR (W/kg)	Bluetooth Antenna 1a at 6 dBm SAR (W/kg)	Bluetooth Antenna 3a at 6 dBm SAR (W/kg)	5 GHz WLAN Antenna 1b SAR (W/kg)	5 GHz WLAN Antenna 3b Reduced SAR (W/kg)	5 GHz WLAN Antenna 5T Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6	1+2+3+5+6
Body SAR	Back	0.539	0.132	0.075	1.180	0.295	0.124	1.312*	1.312*	1.165
	Top	0.265	0.013	0.058	0.000	0.491	0.004	0.827	0.340	0.831
	Bottom	0.017	0.082	0.013	0.870	0.000	0.007	0.982	0.989	0.119
	Right	0.897	0.000	0.221	0.026	0.078	1.139	1.222	1.526	1.578
	Left	0.014	0.228	0.000	0.050	0.054	0.052	0.346	0.344	0.348

Table 11-23

Cellular Band Ant 3b Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 3b SAR (W/kg)	Bluetooth Antenna 1a at 6 dBm SAR (W/kg)	Bluetooth Antenna 3a at 7 dBm SAR (W/kg)	5 GHz WLAN Antenna 1b SAR (W/kg)	5 GHz WLAN Antenna 3b Reduced SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6	1+2+3+5+6
Body SAR	Back	0.998	0.132	0.097	1.180	0.295	0.124	1.390*	1.312*	1.514*
	Top	0.997	0.013	0.087	0.000	0.491	0.004	1.588	1.101	1.592
	Bottom	0.139	0.082	0.013	0.870	0.000	0.007	1.104	1.111	0.241
	Right	0.080	0.000	0.263	0.026	0.078	1.139	0.447	1.508	1.560
	Left	0.040	0.228	0.000	0.050	0.054	0.052	0.372	0.370	0.374

Table 11-24

Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 4 SAR (W/kg)	Bluetooth Antenna 1a at 6 dBm SAR (W/kg)	Bluetooth Antenna 3a at 7 dBm SAR (W/kg)	5 GHz WLAN Antenna 1b SAR (W/kg)	5 GHz WLAN Antenna 3b Reduced SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6	1+2+3+5+6
Body SAR	Back	0.999	0.132	0.097	1.180	0.295	0.124	1.391*	1.312*	1.515*
	Top	0.997	0.013	0.087	0.000	0.491	0.004	1.588	1.101	1.592
	Bottom	0.040	0.082	0.013	0.870	0.000	0.007	1.005	1.012	0.142
	Right	0.091	0.000	0.263	0.026	0.078	1.139	0.458	1.519	1.571
	Left	0.995	0.228	0.000	0.050	0.054	0.052	1.327	1.325	1.329

Table 11-25



Simultaneous Transmission Scenario with 2.4 GHz Bluetooth MIMO + 5 GHz WI-FI MIMO

Simult Tx	Configuration	Bluetooth Antenna 1a at 8 dBm SAR (W/kg)	Bluetooth Antenna 3a at 7.5 dBm SAR (W/kg)	5 GHz WLAN Antenna 1b SAR (W/kg)	5 GHz WLAN Antenna 3b SAR (W/kg)	5 GHz WLAN Antenna 5T SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	1+2+3+4	1+2+3+5	1+2+4+5
Body SAR	Back	0.334	0.118	1.180	0.850	0.124	1.514*	1.514*	1.426
	Top	0.013	0.097	0.000	1.182	0.004	1.292	0.114	1.296
	Bottom	0.124	0.013	0.870	0.000	0.007	1.007	1.014	0.144
	Right	0.000	0.332	0.026	0.078	1.139	0.436	1.497	1.549
	Left	0.348	0.000	0.050	0.151	0.052	0.549	0.450	0.551

Table 11-26

Simultaneous Transmission Scenario with 2.4 GHz Bluetooth

Simult Tx	Configuration	Bluetooth Antenna 1a SAR (W/kg)	Bluetooth Antenna 3a SAR (W/kg)	Σ SAR (W/kg)
Body SAR		1	2	1+2
	Back	1.013	0.373	1.386
	Top	0.013	0.256	0.269
	Bottom	0.347	0.013	0.360
	Right	0.000	1.089	1.089
	Left	1.174	0.000	1.174

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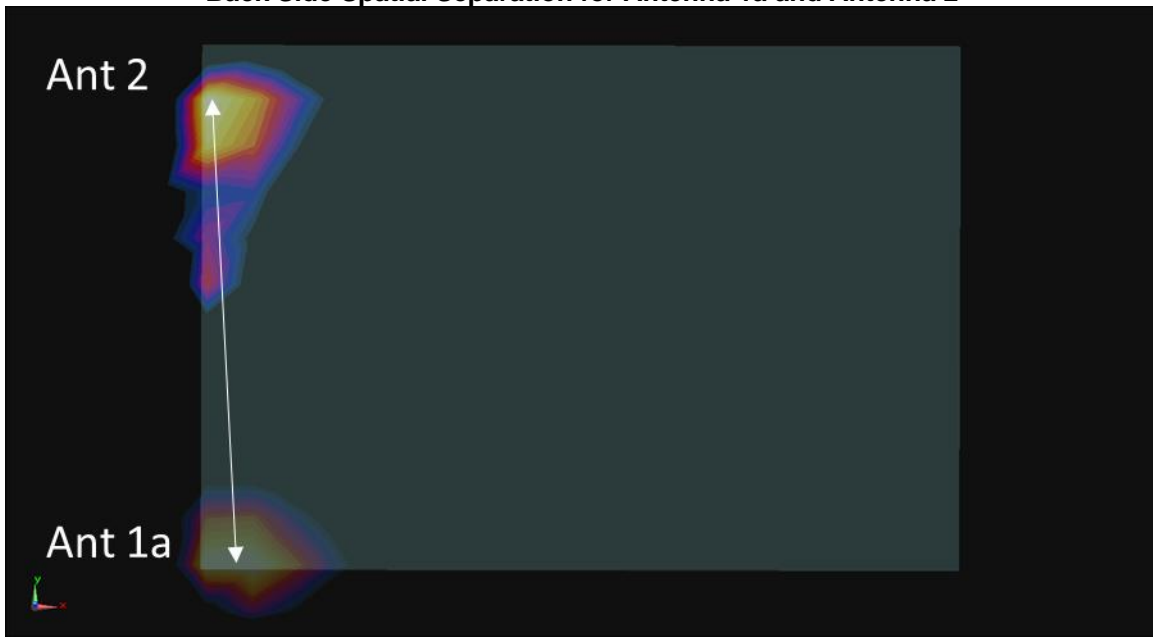
11.4 Spatial Separation Analysis

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 ≤ 1.2 W/kg where at least 90% of the SAR is attributed to a single SAR distribution or ≤ 0.4 W/kg where no more than one SAR distribution is contributing > 0.1 W/kg.

Spatial separation was determined by inspection of the area scan SAR distributions to confirm that at all locations, SAR was < 1.2 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 1a and Antenna 2




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Figure 11-2
Back Side Spatial Separation for Antenna 1a and Antenna 3a

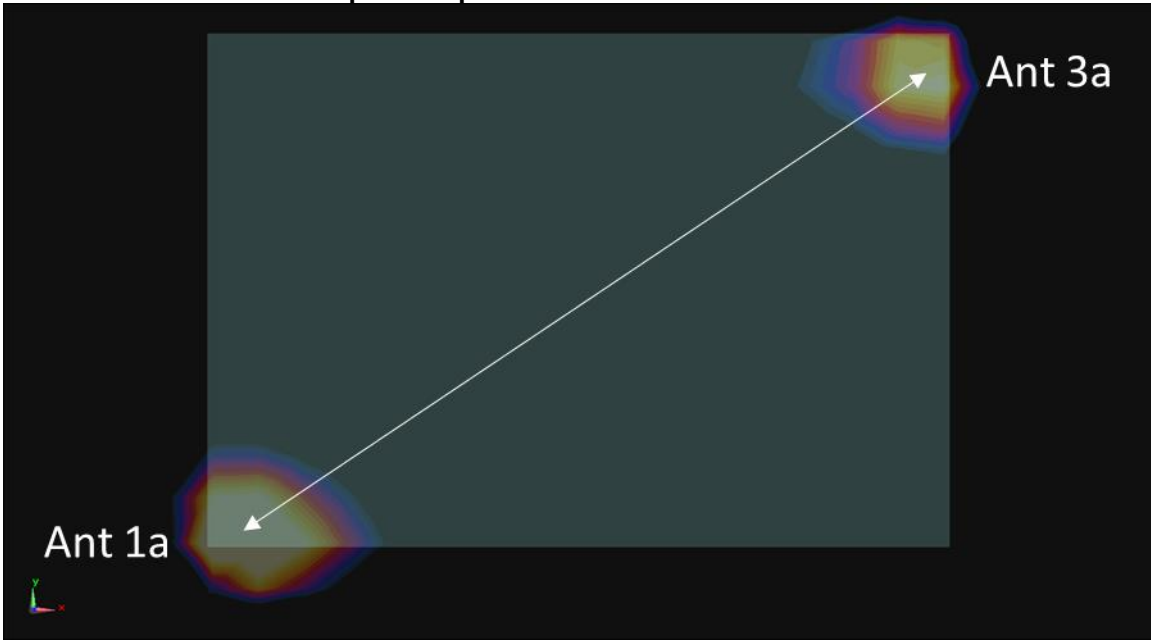
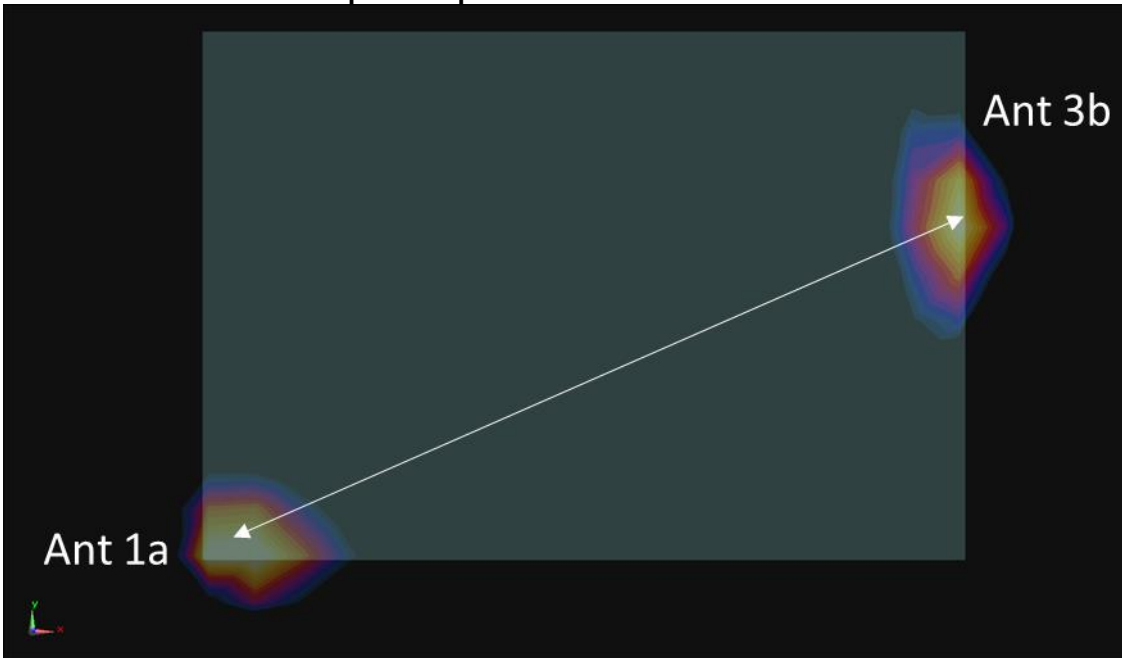


Figure 11-3
Back Side Spatial Separation for Antenna 1a and Antenna 3b




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

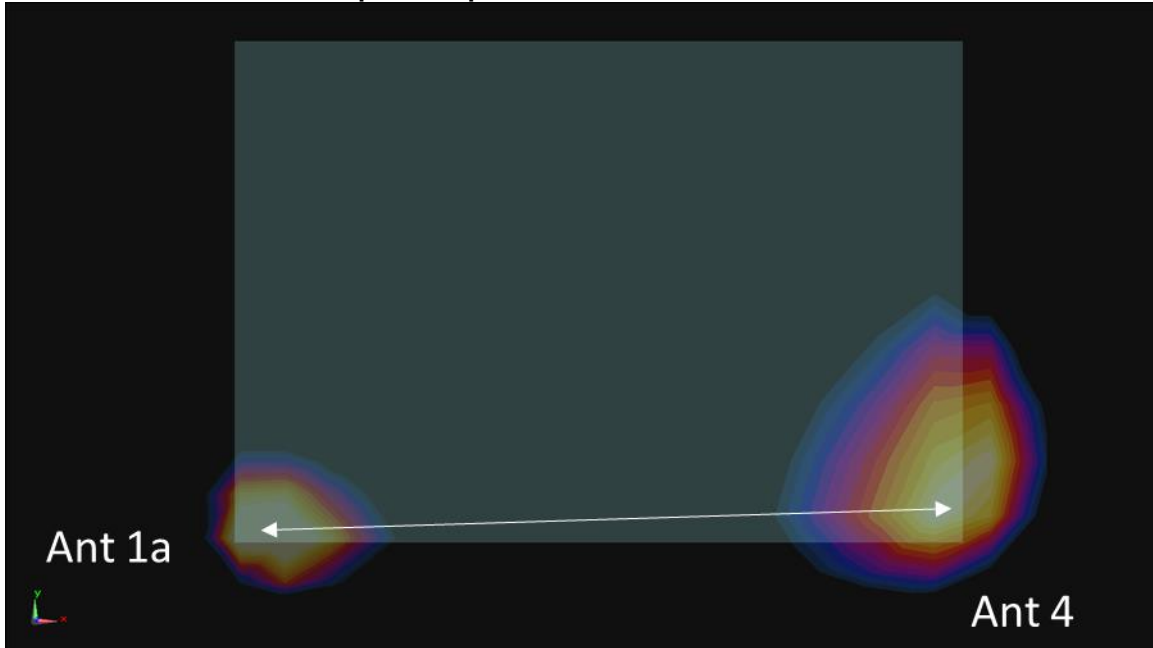
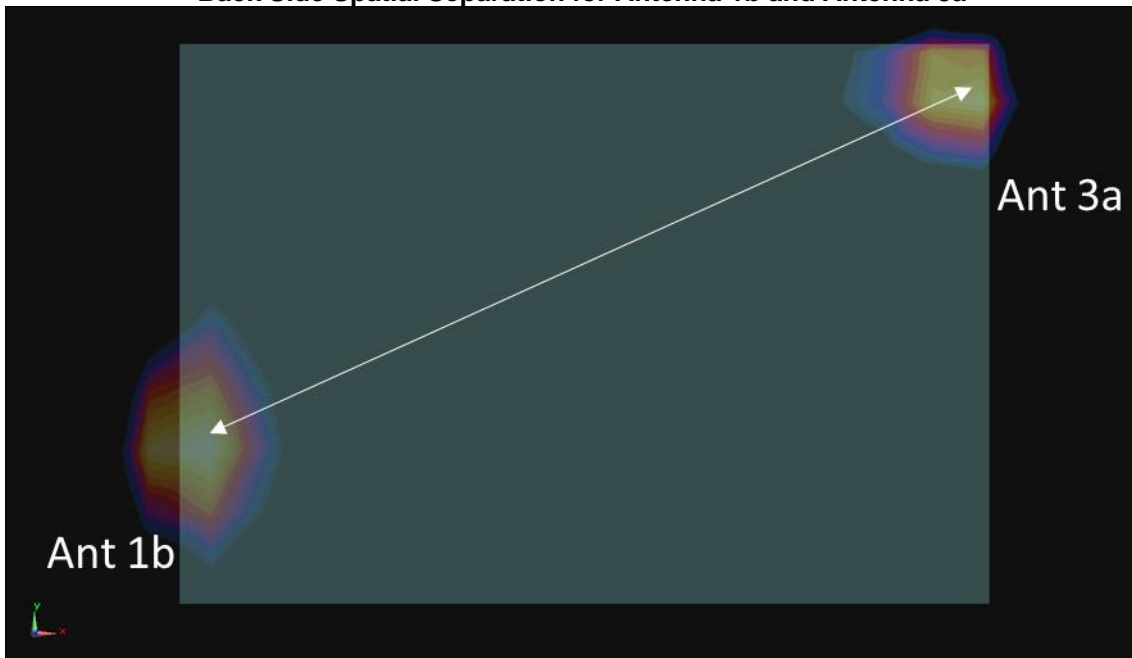


Figure 11-5
Back Side Spatial Separation for Antenna 1b and Antenna 3a




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Figure 11-6
Back Side Spatial Separation for Antenna 1b and Antenna 3b

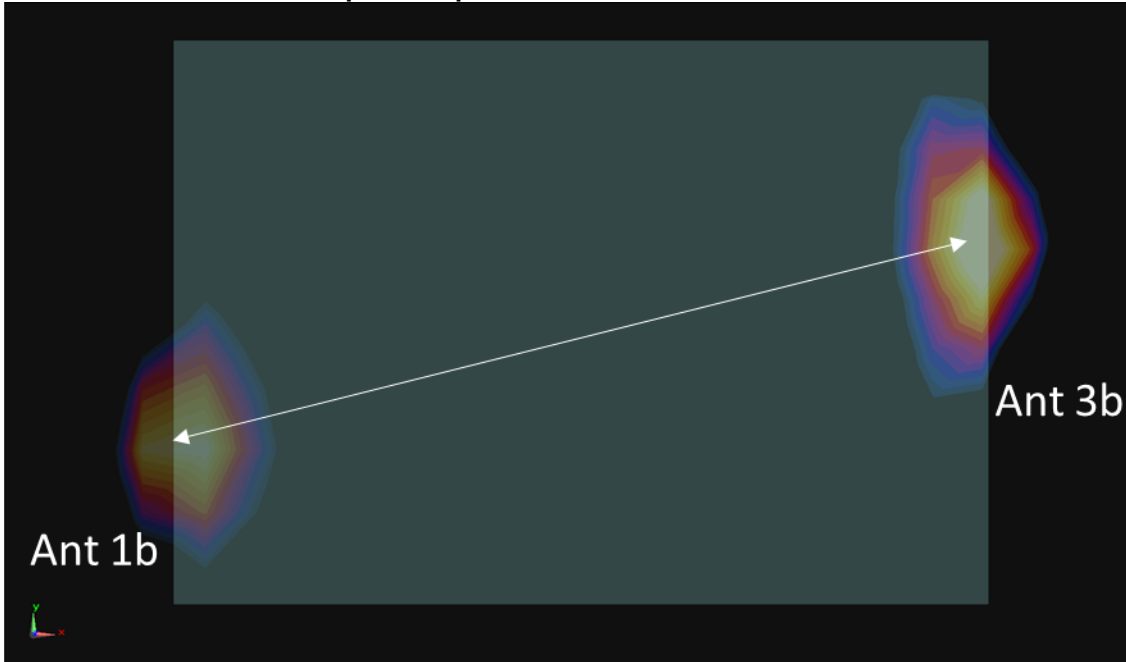
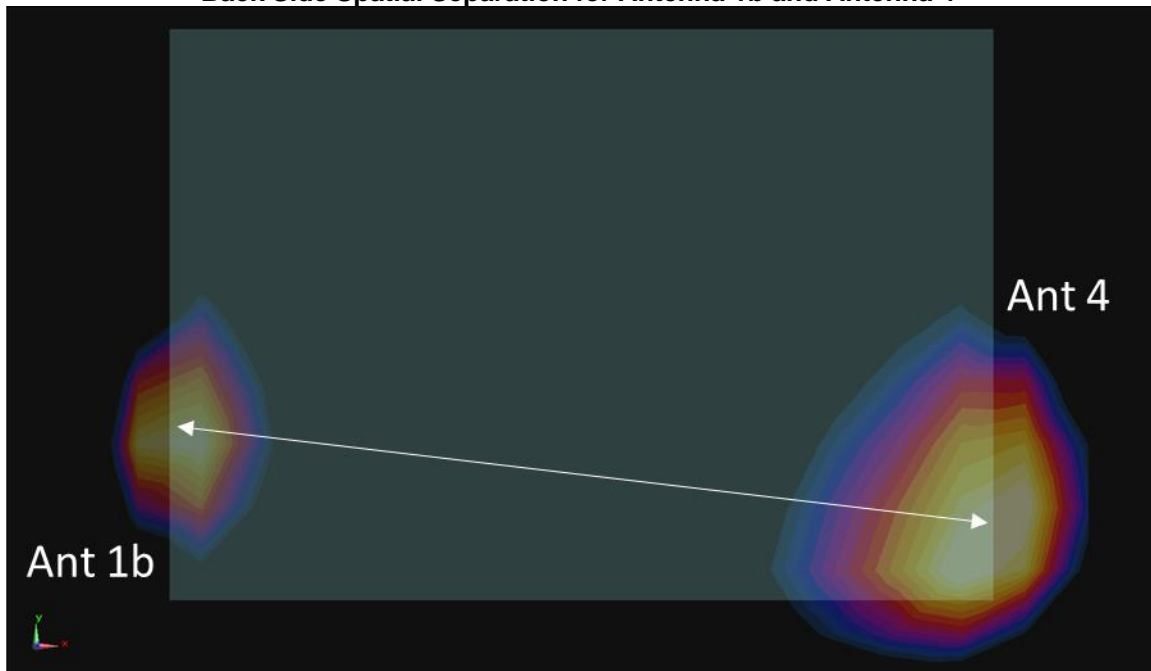


Figure 11-7
Back Side Spatial Separation for Antenna 1b and Antenna 4




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Figure 11-8
Back Side Spatial Separation for Antenna 1b and Antenna 5T

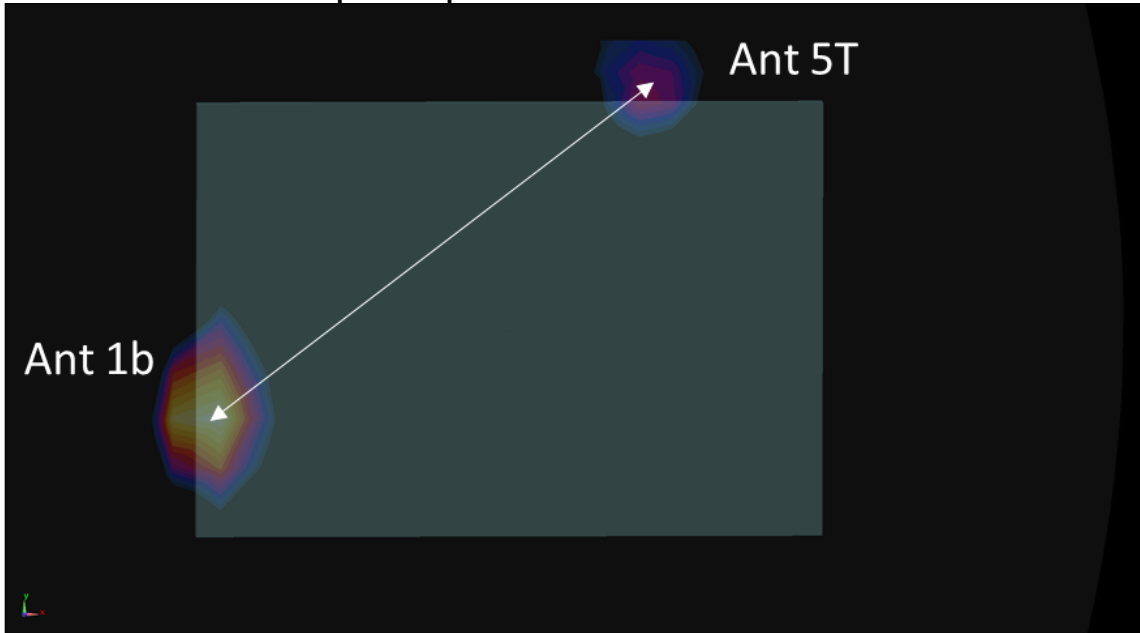
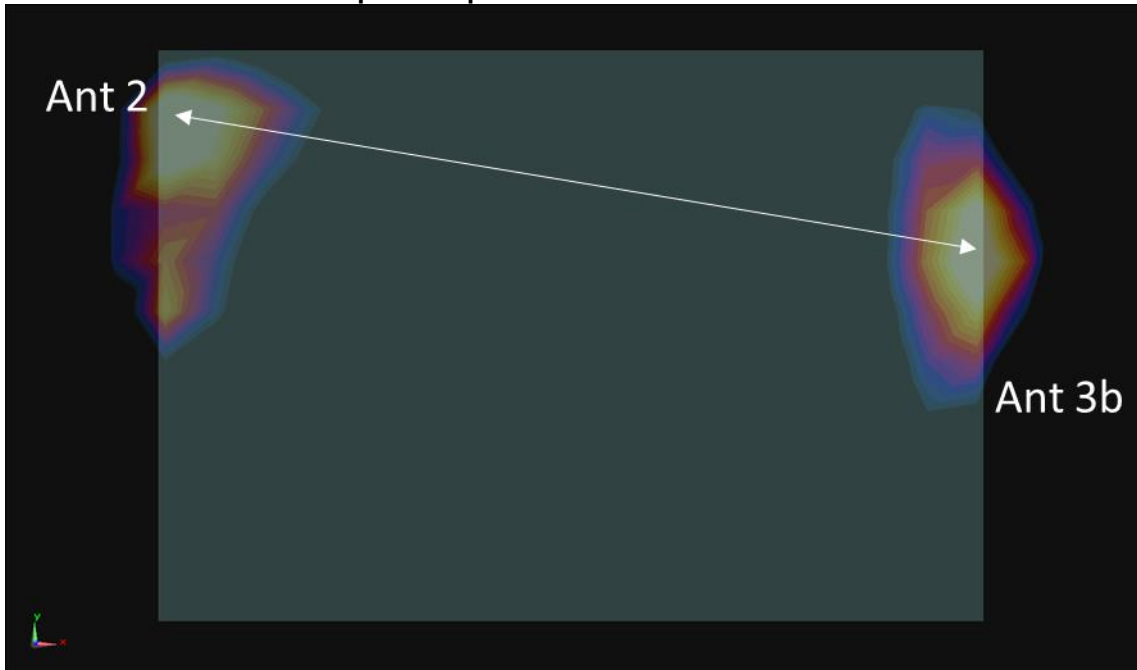



Figure 11-9
Back Side Spatial Separation for Antenna 2 and Antenna 3b



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11.4.2 Right Edge Spatial Separation Analysis

Figure 11-10
Right Edge Spatial Separation for Antenna 2 and Antenna 3a

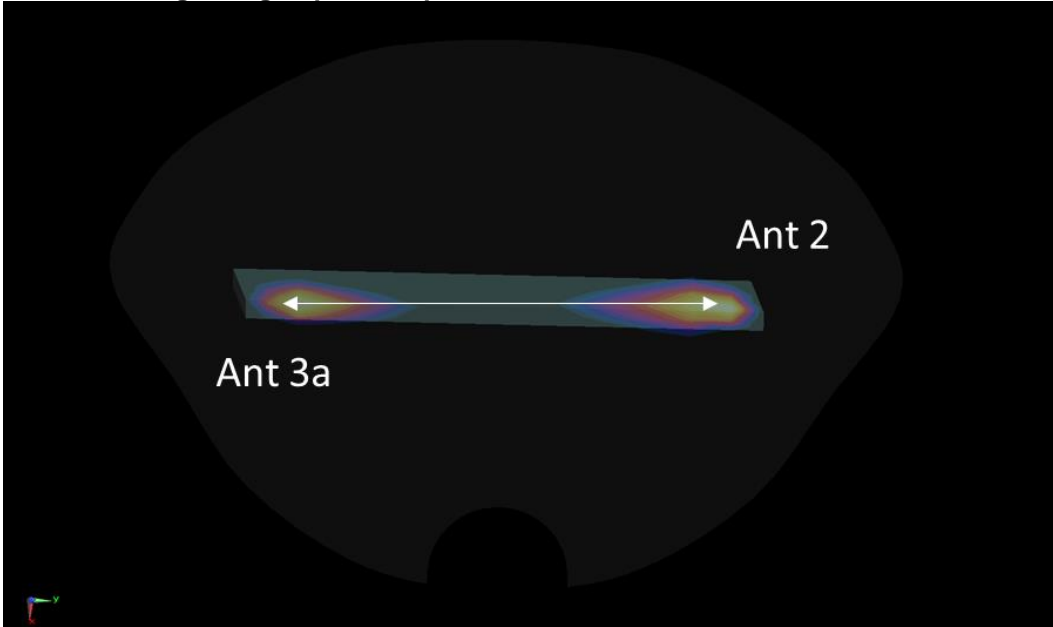
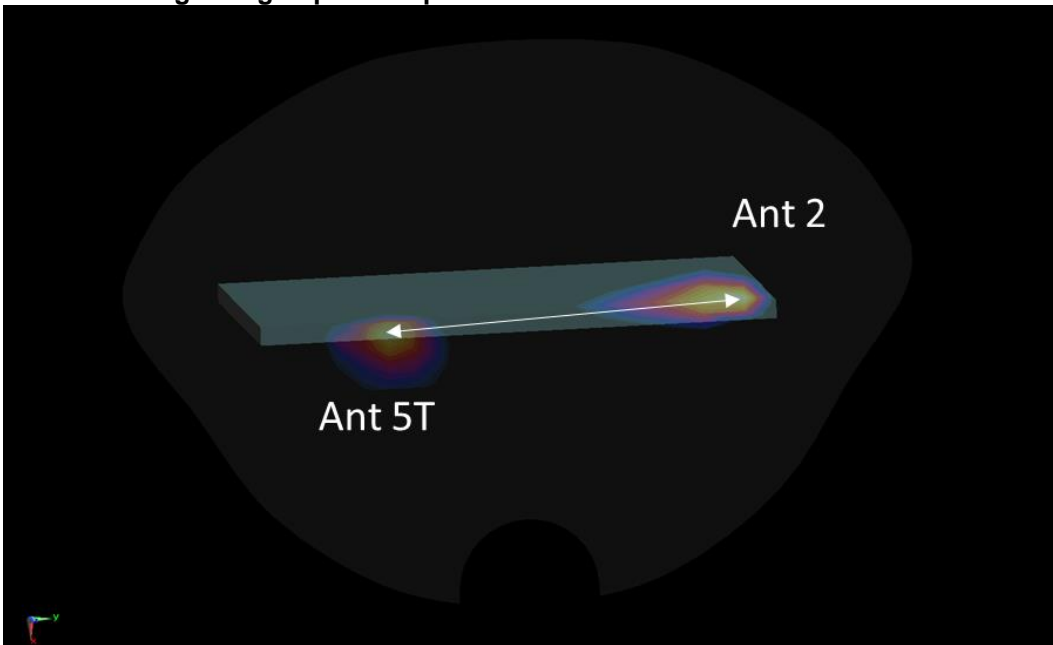



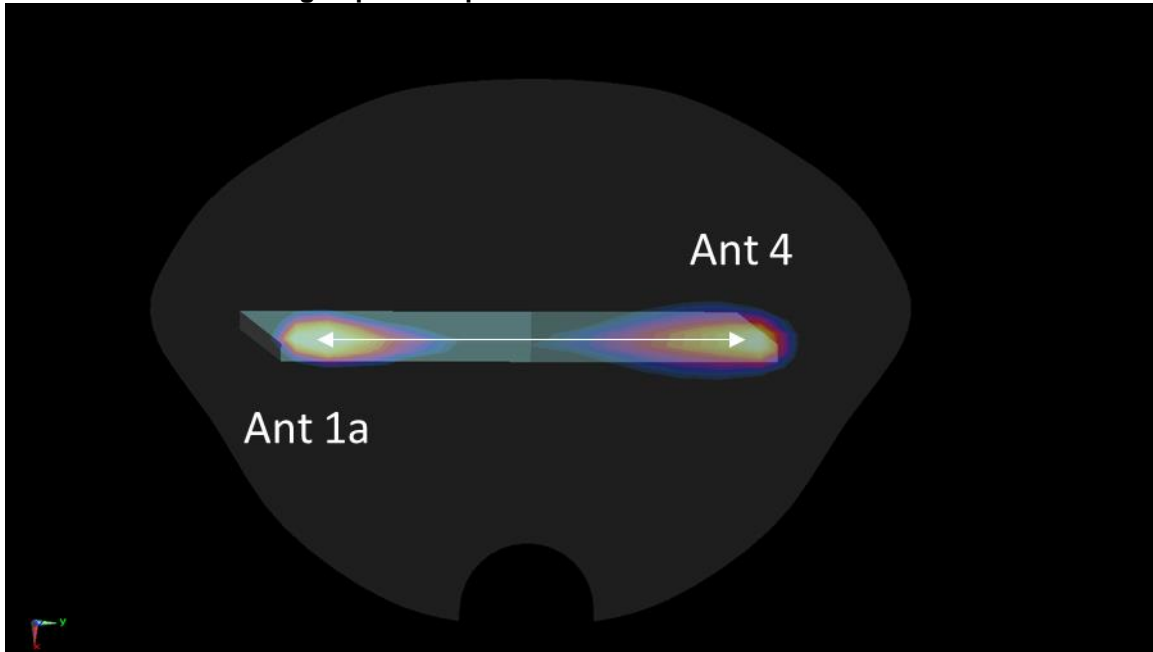
Figure 11-11
Right Edge Spatial Separation for Antenna 2 and Antenna 5T



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11.4.3 Left Edge Spatial Separation Analysis

Figure 11-12
Left Edge Spatial Separation for Antenna 1a and Antenna 4



11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results 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
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

**Table 12-1
Body SAR Measurement Variability Results**

BODY VARIABILITY RESULTS																
Band	FREQUENCY		Mode	Antenna	Waveform	Service	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g) (W/kg)	1st Repeated SAR (1g) (W/kg)	Ratio	2nd Repeated SAR (1g) (W/kg)	Ratio	3rd Repeated SAR (1g) (W/kg)	Ratio
	MHz	Ch.														
750	793.00	23330	LTE Band 14, 10 MHz Bandwidth	Antenna 4	N/A	QPSK, 25 RB, 12 RB Offset	N/A	back	0 mm	0.841	0.781	1.08	N/A	N/A	N/A	N/A
835	826.40	4132	UMTS 850	Antenna 2	N/A	RMC	N/A	back	0 mm	0.814	0.780	1.04	N/A	N/A	N/A	N/A
1750	1745.00	349000	NR Band n66 (AWS), 40 MHz Bandwidth	Antenna 4	N/A	CP-OFDM	N/A	top	0 mm	0.825	0.790	1.04	N/A	N/A	N/A	N/A
1900	1860.00	26140	LTE Band 25 (PCS), 20 MHz Bandwidth	Antenna 1b	N/A	QPSK, 1 RB, 0 RB Offset	N/A	back	0 mm	0.809	0.787	1.03	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	Antenna 4	N/A	QPSK, 25 RB, 12 RB Offset	N/A	left	0 mm	0.841	0.792	1.06	N/A	N/A	N/A	N/A
2450	2462.00	11	802.11b, 22 MHz Bandwidth	Antenna 1a	N/A	DSSS	1	left	0 mm	0.929	0.822	1.13	N/A	N/A	N/A	N/A
2600	2535.00	21100	LTE Band 7, 20 MHz Bandwidth	Antenna 4	N/A	QPSK, 50 RB, 25 RB Offset	N/A	back	0 mm	0.928	0.861	1.08	N/A	N/A	N/A	N/A
5250	5290.00	58	802.11ac, 80 MHz Bandwidth	Antenna 3b	N/A	OFDM	29.3	top	0 mm	0.959	0.944	1.02	N/A	N/A	N/A	N/A
5600	5610.00	122	802.11ac, 80 MHz Bandwidth	Antenna 3b	N/A	OFDM	29.3	top	0 mm	1.000	0.992	1.01	N/A	N/A	N/A	N/A
5750	5775.00	155	802.11ac, 80 MHz Bandwidth	Antenna 5T	N/A	OFDM	29.3	right	0 mm	1.030	1.010	1.02	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.2 Measurement Uncertainty

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

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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. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

Table 13-1
LTE Band 41 Body Linearity Data – Antenna 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	15.85
Measured Output Power (dBm)	13.39	14.83
Measured SAR (W/kg)	0.728	0.630
Measured Power (mW)	21.83	30.41
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.82	13.17
% deviation from expected linearity		-9.19%

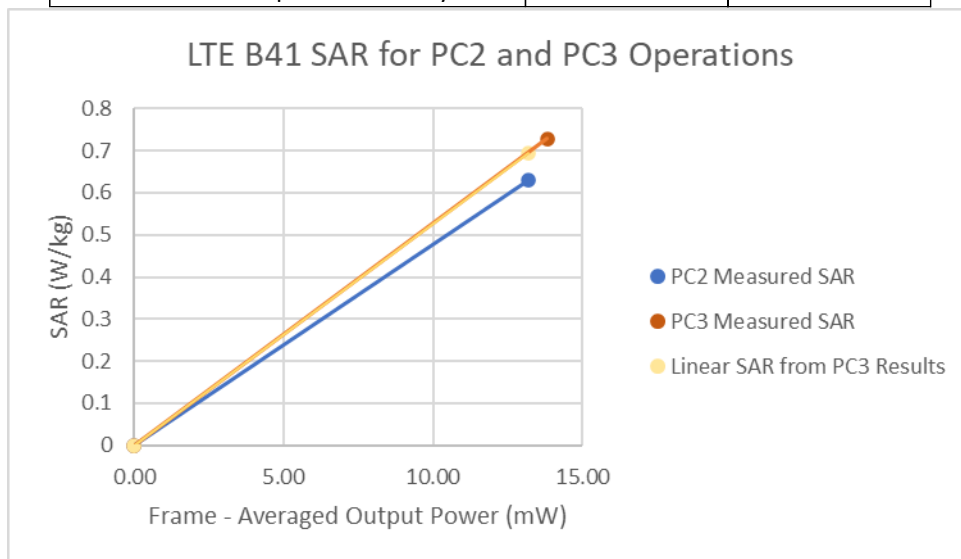


Figure 13-1
LTE Band 41 Body Linearity – Antenna 1b


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Table 13-2
LTE Band 41 ULCA Body Linearity Data – Antenna 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	15.85
Measured Output Power (dBm)	13.32	15.18
Measured SAR (W/kg)	0.699	0.714
Measured Power (mW)	21.48	32.96
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.60	14.27
% deviation from expected linearity		-2.69%

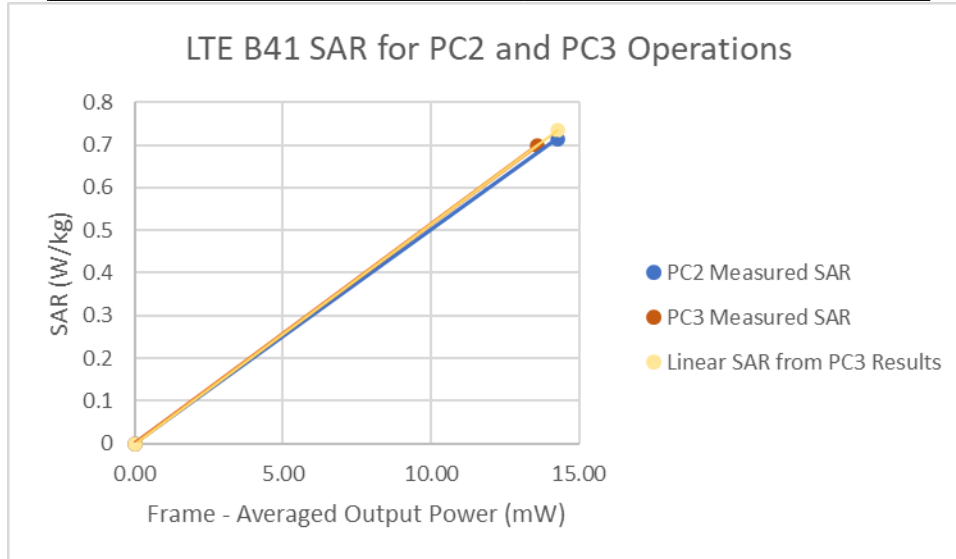

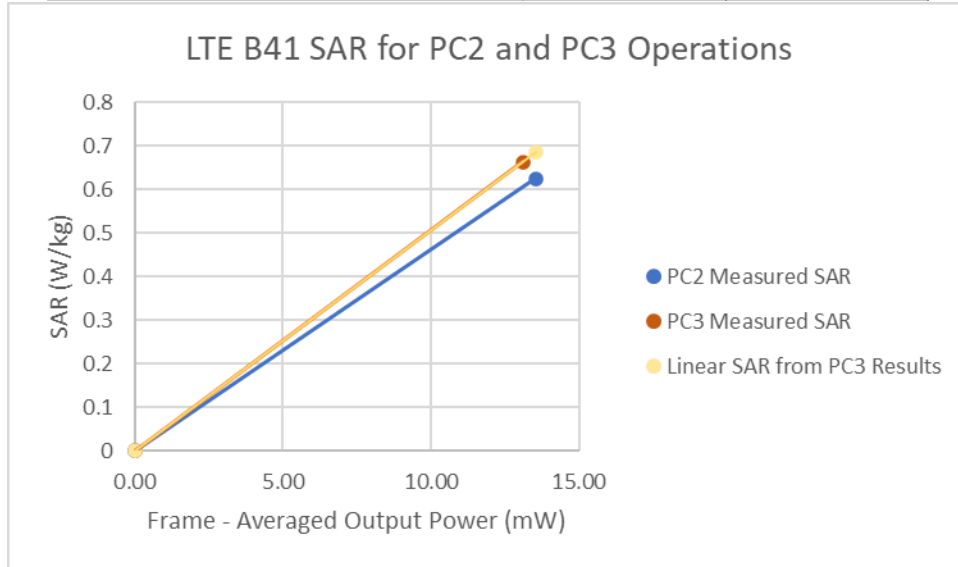


Figure 13-2
LTE Band 41 ULCA Body Linearity – Antenna 1b


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**Table 13-3
LTE Band 41 Body Linearity Data – Antenna 2**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.1	15.75
Measured Output Power (dBm)	13.16	14.95
Measured SAR (W/kg)	0.664	0.626
Measured Power (mW)	20.70	31.26
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.10	13.54
% deviation from expected linearity		-8.73%

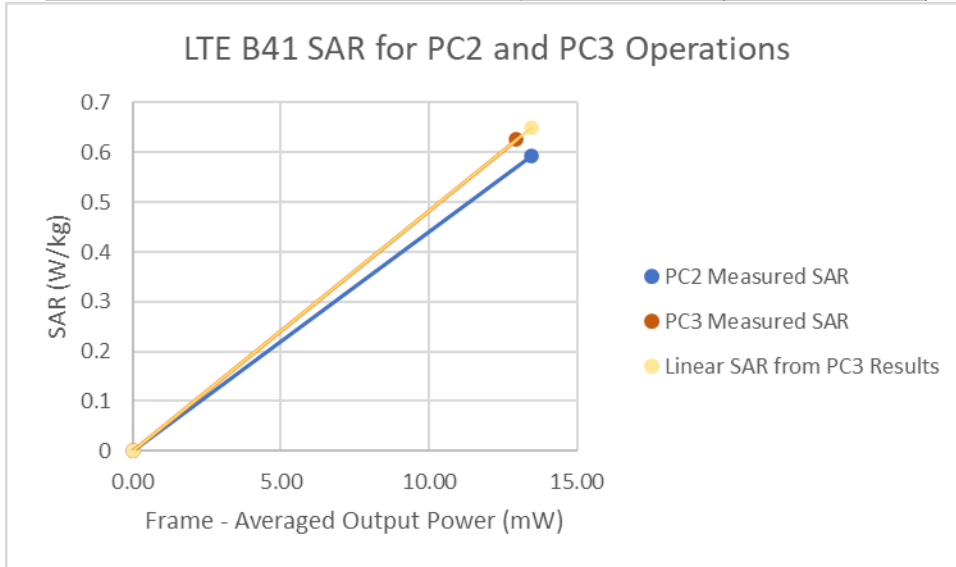


**Figure 13-3
LTE Band 41 Body Linearity – Antenna 2**


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**Table 13-4
LTE Band 41 ULCA Body Linearity Data – Antenna 2**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.1	15.75
Measured Output Power (dBm)	13.11	14.92
Measured SAR (W/kg)	0.626	0.592
Measured Power (mW)	20.46	31.05
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	12.95	13.44
% deviation from expected linearity		-8.87%

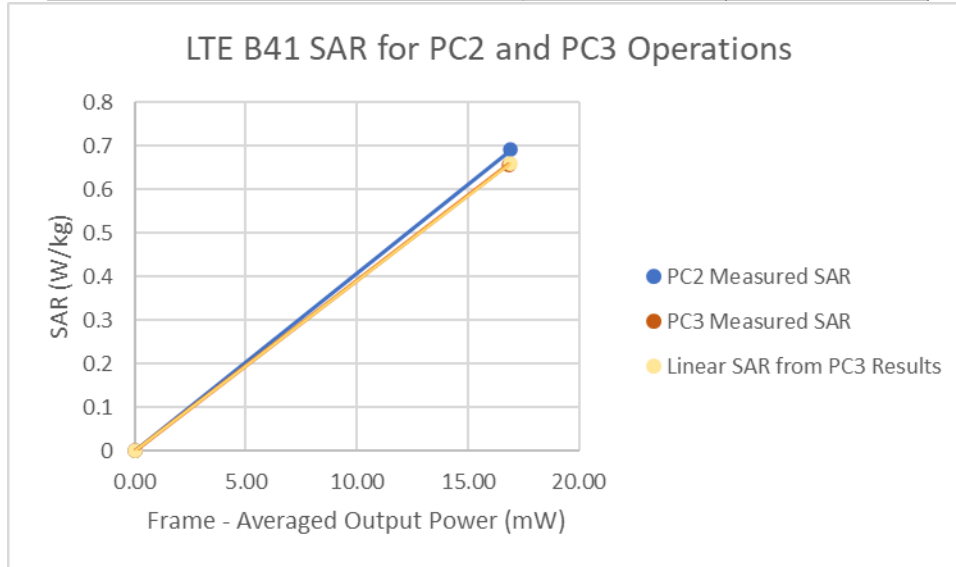


**Figure 13-4
LTE Band 41 ULCA Body Linearity – Antenna 2**

FCC ID: BCGA2568	 PCTEST <small>Proud to be part of</small>	SAR EVALUATION REPORT	Approved by: Quality Manager
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**Table 13-5
LTE Band 41 Body Linearity Data – Antenna 3b**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.8	17.45
Measured Output Power (dBm)	14.25	15.92
Measured SAR (W/kg)	0.658	0.691
Measured Power (mW)	26.61	39.08
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	16.84	16.92
% deviation from expected linearity		4.51%



**Figure 13-5
LTE Band 41 Body Linearity – Antenna 3b**


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Table 13-6
LTE Band 41 ULCA Body Linearity Data – Antenna 3b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.8	17.45
Measured Output Power (dBm)	14.25	15.96
Measured SAR (W/kg)	0.662	0.663
Measured Power (mW)	26.61	39.45
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	16.84	17.08
% deviation from expected linearity		-1.24%

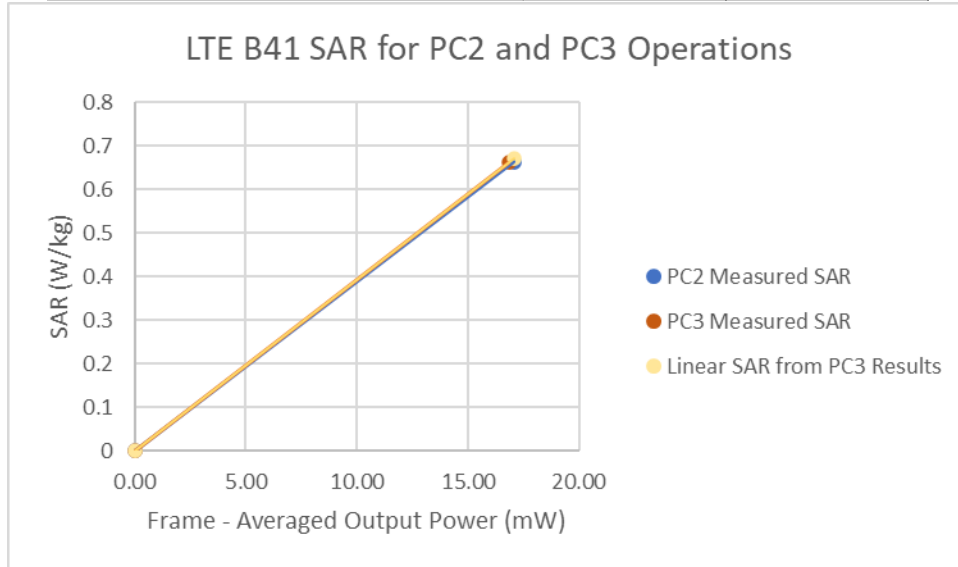

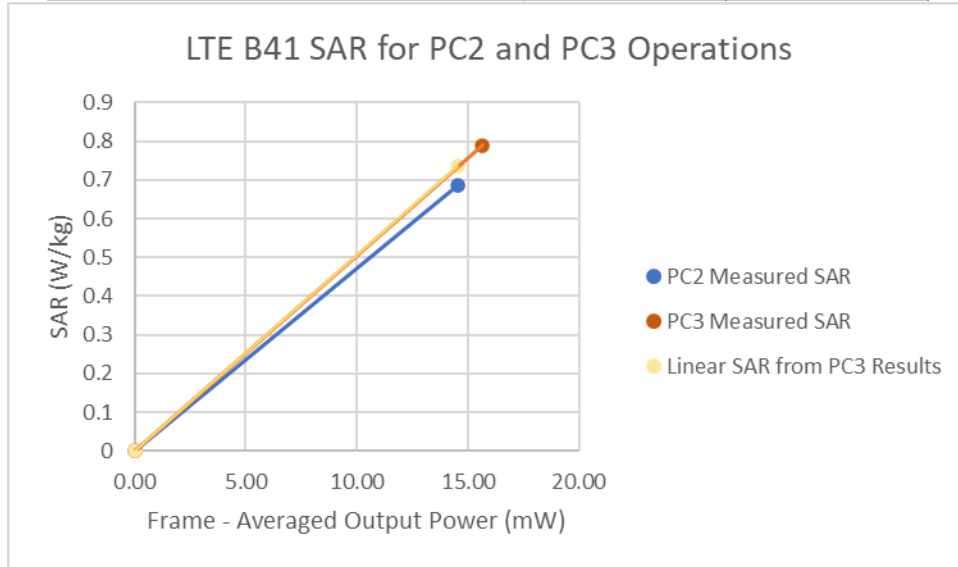


Figure 13-6
LTE Band 41 ULCA Body Linearity – Antenna 3b

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**Table 13-7
LTE Band 41 Body Linearity Data – Antenna 4**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.7	16.35
Measured Output Power (dBm)	13.93	15.27
Measured SAR (W/kg)	0.790	0.687
Measured Power (mW)	24.72	33.65
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	15.65	14.57
% deviation from expected linearity		-6.62%



**Figure 13-7
LTE Band 41 Body Linearity – Antenna 4**


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Table 13-8
LTE Band 41 ULCA Body Linearity Data – Antenna 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.7	16.35
Measured Output Power (dBm)	13.74	15.85
Measured SAR (W/kg)	0.779	0.820
Measured Power (mW)	23.66	38.46
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.98	16.65
% deviation from expected linearity		-5.33%

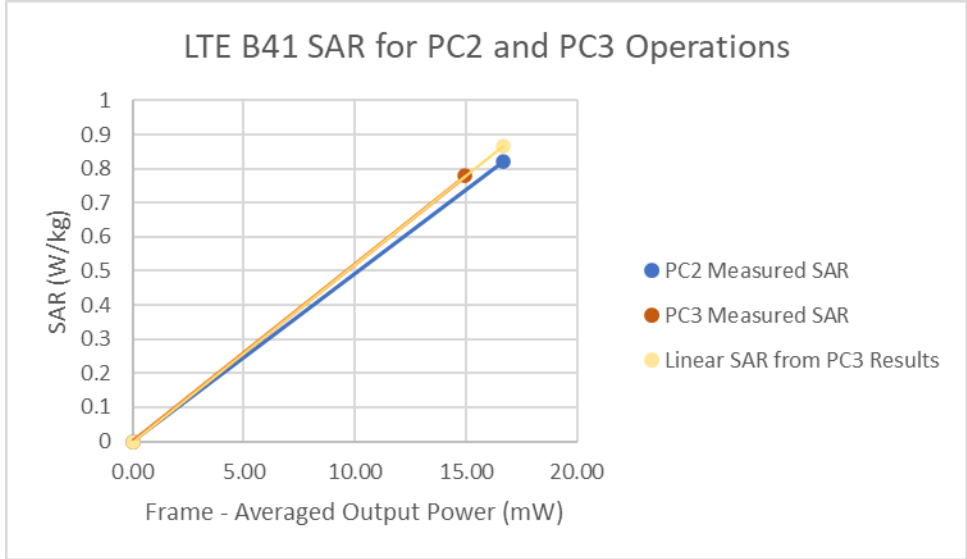




Figure 13-8
LTE Band 41 ULCA Body Linearity – Antenna 4

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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	09/16/2020	Annual	09/16/2021	MY4000670
Agilent	E4438C	ESG Vector Signal Generator	12/02/2020	Annual	12/02/2021	MY42081752
Agilent	E5515C	Wireless Communications Test Set	12/15/2020	Annual	12/15/2021	GB42361078
Agilent	N5182A	MXG Vector Signal Generator	09/25/2020	Annual	09/25/2021	US46240505
Agilent	N5182A	MXG Vector Signal Generator	12/01/2020	Annual	12/01/2021	MY47420837
Agilent	N9020A	MXA Signal Analyzer	12/21/2020	Annual	12/21/2021	MY50200571
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	09/15/2020	Annual	09/15/2021	1244515
Anritsu	MA24106A	USB Power Sensor	09/15/2020	Annual	09/15/2021	1248508
Anritsu	MA24106A	USB Power Sensor	02/25/2021	Annual	02/25/2022	1520503
Anritsu	MA24111B	USB Power Sensor	02/25/2021	Annual	02/25/2022	1520501
Anritsu	ML2495A	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1126066
Anritsu	ML2495A	Power Meter	11/03/2020	Annual	11/03/2021	1039008
Anritsu	MT8820C	Radio Communication Analyzer	09/30/2020	Annual	09/30/2021	6201240328
Anritsu	MT8821C	Radio Communication Analyzer	05/21/2021	Annual	05/21/2022	6201144419
Control Company	4040	Therm./Clock/Humidity Monitor	03/06/2020	Biennial	03/06/2022	200170313
Control Company	4040	Therm./Clock/Humidity Monitor	03/06/2020	Biennial	03/06/2022	200170296
Control Company	4040	Therm./Clock/Humidity Monitor	03/06/2020	Biennial	03/06/2022	200170289
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670646
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670653
Insize	1108-150	Digital Caliper	01/17/2020	Biennial	01/17/2022	409193536
KEYSIGHT	E4438C	VECTOR SIGNAL GENERATOR	06/22/2020	Annual	06/22/2021	MY45092078
MCL	BW-N10W5+	10dB Attenuator		CBT	N/A	CBT 1611
MCL	BW-N3W5+	3dB Attenuator		CBT	N/A	CBT 1612
MCL	BW-N6W5+	6dB Attenuator		CBT	N/A	CBT 1311
Mini-Circuits	NLP-1000+	Low Pass Filter		CBT	N/A	CBT N/A
Mini-Circuits	NLP-1200+	Low Pass Filter		CBT	N/A	CBT N/A
Mini-Circuits	NLP-2950+	Low Pass Filter		CBT	N/A	CBT N/A
Mini-Circuits	VLF-6000+	Low Pass Filter		CBT	N/A	CBT N/A
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler		CBT	N/A	CBT N/A
Pasternack	PE2208-6	Bidirectional Coupler		CBT	N/A	CBT N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	04/13/2020	Annual	04/13/2022	167284
Rohde & Schwarz	CMW500	Radio Communication Tester	04/27/2021	Annual	04/27/2022	167285
Rohde & Schwarz	CMW500	Radio Communication Tester	10/16/2020	Annual	10/16/2021	101699
Rohde & Schwarz	CMW500	Radio Communication Tester	10/16/2020	Annual	10/16/2021	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	10/27/2020	Annual	10/27/2021	108843
Rohde & Schwarz	FS3-7	Spectrum Analyzer	01/09/2020	Biennial	01/09/2022	103990
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	09/17/2020	Annual	09/17/2021	145663
Rosenberger	32W1006-016	Torque Wrench	12/01/2020	Annual	12/01/2021	N/A
SPEAG	DAKS-3.5	Portable DAK	09/09/2020	Annual	09/09/2021	1045
SPEAG	D750V3	750 MHz SAR Dipole	09/08/2020	Annual	09/08/2021	1097
SPEAG	D835V2	835 MHz SAR Dipole	06/20/2019	Triennial	06/20/2022	4d040
SPEAG	D850V2	850 MHz SAR Dipole	09/08/2020	Annual	09/08/2021	1010
SPEAG	D1750V2	1750 MHz SAR Dipole	06/19/2019	Triennial	06/19/2022	1083
SPEAG	D1750V2	1750 MHz SAR Dipole	09/09/2020	Annual	09/09/2021	1104
SPEAG	D1900V2	1900 MHz SAR Dipole	06/19/2019	Triennial	06/19/2022	5d030
SPEAG	D2300V2	2300 MHz SAR Dipole	11/10/2020	Annual	11/10/2021	1064
SPEAG	D2450V2	2450 MHz SAR Dipole	11/12/2018	Triennial	11/12/2021	921
SPEAG	D2450V2	2450 MHz SAR Dipole	06/14/2019	Triennial	06/14/2022	750
SPEAG	D2600V2	2600 MHz SAR Dipole	06/14/2019	Triennial	06/14/2022	1042
SPEAG	D3500V2	3500 MHz SAR Dipole	08/16/2019	Biennial	08/16/2021	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	10/17/2019	Biennial	10/17/2021	1002
SPEAG	D3900V2	3900 MHz SAR Dipole	11/13/2020	Annual	11/13/2021	1062
SPEAG	D5GHzV2	5 GHz SAR Dipole	03/10/2021	Annual	03/10/2022	1123
SPEAG	EX3DV4	SAR Probe	03/03/2021	Annual	03/03/2022	7640
SPEAG	EX3DV4	SAR Probe	04/19/2021	Annual	04/19/2022	7532
SPEAG	EX3DV4	SAR Probe	03/03/2021	Annual	03/03/2022	7639
SPEAG	EX3DV4	SAR Probe	05/18/2021	Annual	05/18/2022	7416
SPEAG	EX3DV4	SAR Probe	03/03/2021	Annual	03/03/2022	7638
SPEAG	EX3DV4	SAR Probe	01/18/2021	Annual	01/18/2022	3837
SPEAG	EX3DV4	SAR Probe	08/19/2020	Annual	08/19/2021	3949
SPEAG	EX3DV4	SAR Probe	03/17/2021	Annual	03/17/2022	7421
SPEAG	EX3DV4	SAR Probe	12/15/2020	Annual	12/15/2021	7490
SPEAG	EX3DV4	SAR Probe	10/21/2020	Annual	10/21/2021	7558
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/11/2021	Annual	01/11/2022	1645
SPEAG	DAE4	Dasy Data Acquisition Electronics	04/13/2021	Annual	04/13/2022	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/11/2021	Annual	01/11/2022	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	05/11/2021	Annual	05/11/2022	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/13/2021	Annual	01/13/2022	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	03/10/2021	Annual	03/10/2022	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/11/2021	Annual	01/11/2022	1644
SPEAG	DAE4	Dasy Data Acquisition Electronics	09/13/2020	Annual	09/13/2021	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/12/2020	Annual	10/12/2021	1364
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/11/2021	Annual	5/11/2022	728


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	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	RSS						12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2						24.4	24.0	

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


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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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